



# The bidi Package

Source documentation for version 39.5

to my Master, *Ferdowsi The Great*

If you want to report any bugs or typos and corrections in the documentation, or ask for any new features, or suggest any improvements, or ask any questions about the package, then please use the issue tracker:

<https://github.com/kvafa/bidi/issues>

In doing so, please always explain your issue well enough, and always include a minimal working example showing the issue.

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# The *bidi* Package

## Bidirectional typesetting in plain $\text{\TeX}$ and $\text{\LaTeX}$ , using $\text{\XeTeX}$ engine

Source documentation for [version 39.5](#)

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\*Thanks to the `bidi-tex` GitHub organization consisted of David Carlisle and other members of the  $\text{\LaTeX}$  team to maintain the package in the period 2018–2020.

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## 1 File amsart-xetex-bidi.def

```

1 \ProvidesFile{amsart-xetex-bidi.def}[2017/08/09 v1.1 bidi adaptations for amsart class for X
2 \def\tocline#1#2#3#4#5#6#7{\relax
3   \ifnum #1>\c@tocdepth % then omit
4   \else
5     \par \addpenalty\@secpenalty\addvspace{#2}%
6     \begingroup \hyphenpenalty\@M
7     \@ifempty{#4}{%
8       \@tempdima\c@tocindent\number#1\endcsname\relax
9     }{%
10      \@tempdima#4\relax
11    }%
12    \parindent\z@ \if@RTL\righskip\else\leftskip\fi#3\relax \advance\if@RTL\righskip\else\
13    \if@RTL\leftskip\else\righskip\fi\@pnumwidth plus4em \parfillskip-\@pnumwidth
14    #5\leavevmode\hskip-\@tempdima #6\nobreak\relax
15    \hfil\hbox to\@pnumwidth{\@tocpagenum{#7}}\par
16    \nobreak
17    \endgroup
18  \fi}
19 \renewcommand\thesubsection {\thesection\@SepMark\arabic{subsection}}
20 \renewcommand\thesubsubsection {\thesubsection \@SepMark\arabic{subsubsection}}
21 \renewcommand\theparagraph {\thesubsubsection\@SepMark\arabic{paragraph}}
22 \renewcommand\thesubparagraph {\theparagraph\@SepMark\arabic{subparagraph}}
23 \def\part{\@startsection{part}{0}%
24   \z@{\linespacing\@plus\linespacing}{.5\linespacing}%
25   {\normalfont\bfseries\if@RTL\raggedleft\else\raggedright\fi}}
26 \def\right@footnoterule{%
27   \kern-.4\p@
28   \hbox to \columnwidth{\hskip \dimexpr\columnwidth-5pc\relax \hrulefill }
29   \kern11\p@\kern-\footnotesep}
30 \def\left@footnoterule{\kern-.4\p@
31   \hrule\@width 5pc\kern11\p@\kern-\footnotesep}
32
33
34 \long\def\@footnotetext#1{%
35   \insert\footins{%
36     \if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi%
37     \reset@font%
38     \bidi@footnotetext@font% \normalfont\footnotesize
39     \interlinepenalty\interfootnotelinepenalty
40     \splittopskip\footnotesep \splitmaxdepth \dp\strutbox
41     \floatingpenalty\@MM \hsize\columnwidth
42     \@parboxrestore \parindent\normalparindent \sloppy
43     \protected@edef\@currentlabel{%
44       \csname p@footnote\endcsname\@thefnmark}%
45     \@makefnmark%
46     \rule\z@\footnotesep\ignorespaces#1\unskip\strut\par}}
47
48 \long\def\@RTLfootnotetext#1{%
49   \insert\footins{%
50     \@RTLtrue%
51     \reset@font%
52     \bidi@RTLfootnotetext@font% \normalfont\footnotesize

```



```

53 \interlinepenalty\interfootnotelinepenalty
54 \splittopskip\footnotesep \splitmaxdepth \dp\strutbox
55 \floatingpenalty\@MM \hsize\columnwidth
56 \@parboxrestore \parindent\normalparindent \sloppy
57 \protected@edef\@currentlabel{%
58 \csname p@footnote\endcsname\@thefnmark}%
59 \@makefnmark%
60 \rule{z@\footnotesep\ignorespaces#1\unskip\strut\par}}
61
62
63
64 \long\def\@LTRfootnotetext#1{%
65 \insert\footins{%
66 \@RTLfalse%
67 \reset@font%
68 \bidi@LTRfootnotetext@font% \normalfont\footnotesize
69 \interlinepenalty\interfootnotelinepenalty
70 \splittopskip\footnotesep \splitmaxdepth \dp\strutbox
71 \floatingpenalty\@MM \hsize\columnwidth
72 \@parboxrestore \parindent\normalparindent \sloppy
73 \protected@edef\@currentlabel{%
74 \csname p@footnote\endcsname\@thefnmark}%
75 \@makefnmark%
76 \rule{z@\footnotesep\ignorespaces#1\unskip\strut\par}}}
77
78
79 \footdir@temp\footdir@ORG@bidi@amsart@footnotetext\@footnotetext{\bidi@footdir@footnote}%
80 \footdir@temp\footdir@ORG@bidi@amsart@RTLfootnotetext\@RTLfootnotetext{R}%
81 \footdir@temp\footdir@ORG@bidi@amsart@LTRfootnotetext\@LTRfootnotetext{L}%
82
83 \renewenvironment{thebibliography}[1]{%
84 \@bibtitlestyle
85 \normalfont\bibliofont\labelsep .5em\relax
86 \renewcommand\theenumiv{\arabic{enumiv}}\let\p@enumiv\@empty
87 \if@RTL\if@LTRbibitems\@RTLfalse\else\fi\else\if@RTLbibitems\@RTLtrue\else\fi\fi
88 \bidi@thebibliography@font@hook%
89 \list{\@biblabel{\theenumiv}}{\settowidth\labelwidth{\@biblabel{#1}}%
90 \leftmargin\labelwidth \advance\leftmargin\labelsep
91 \usecounter{enumiv}}%
92 \sloppy \clubpenalty\@M \widowpenalty\clubpenalty
93 \sfcode`\.=\@m
94 }{%
95 \def\@noitemerr{\@latex@warning{Empty `thebibliography' environment}}%
96 \endlist
97 }
98 \def\theindex{\@restonecoltrue\if@twocolumn\@restonecolfalse\fi
99 \columnseprule{z@ \columnsep 35\p@
100 \@indextitlestyle
101 \thispagestyle{plain}%
102 \let\item\@idxitem
103 \parindent\z@ \parskip\z@\@plus.3\p@\relax
104 \if@RTL\raggedleft\else\raggedright\fi
105 \hyphenpenalty\@M
106 \footnotesize}

```



```

107 \def\@idxitem{\par\hangindent \if@RTL-\fi2em}
108 \def\subitem{\par\hangindent \if@RTL-\fi2em\hspace*{1em}}
109 \def\subsubitem{\par\hangindent \if@RTL-\fi3em\hspace*{2em}}
110 \def\maketitle{\par
111   \@topnum\z@ % this prevents figures from falling at the top of page 1
112   \@setcopyright
113   \thispagestyle{firstpage}% this sets first page specifications
114   \uppercase\nonmath\shorttitle
115   \ifx\@empty\shortauthors \let\shortauthors\shorttitle
116   \else \andify\shortauthors
117   \fi
118   \@maketitle@hook
119   \begingroup
120   \@maketitle
121   \toks@{\exp{\shortauthors}\@temptokena\exp{\shorttitle}}%
122   \toks4{\def\{\ \ignorespaces}}% defend against questionable usage
123   \edef\@tempa{%
124     \@nx\markboth{\the\toks4
125       \@nx\MakeUppercase{\the\toks@}}{\the\@temptokena}}%
126   \@tempa
127   \endgroup
128   \c@footnote\z@
129   \cleartopmattertags
130 }

```

## 2 File adjmulticol-xetex-bidi.def

```

131 \ProvidesFile{adjmulticol-xetex-bidi.def}[2015/04/25 v0.1 bidi adaptations for adjmulticol p
132 \def\adjmulticols#1#2#3{\col@number#1\relax
133   \def\@tempa{#2}%
134   \ifx\@tempa\@empty\adjmc@inner\z@\else\adjmc@inner#2\fi
135   \def\@tempa{#3}%
136   \ifx\@tempa\@empty\adjmc@outer\z@\else\adjmc@outer#3\fi
137   \ifnum\col@number<\@ne
138     \PackageWarning{adjmulticol}%
139       {Using '\number\col@number'
140        columns doesn't seem a good idea.^^J
141        I therefore use one columns instead}%
142     \col@number\@ne\fi
143   \ifnum\col@number>10
144     \PackageError{adjmulticol}%
145       {Too many columns}%
146       {Current implementation doesn't
147        support more than 10 columns.%
148       \MessageBreak
149        I therefore use 10 columns instead}%
150     \col@number10 \fi
151   \ifx\@footnotetext\mult@footnotetext\else
152     \let\orig@footnotetext\@footnotetext
153     \let\@footnotetext\mult@footnotetext
154   \fi
155   \ifx\@LTRfootnotetext\mult@LTRfootnotetext\else
156     \let\orig@LTRfootnotetext\@LTRfootnotetext
157     \let\@LTRfootnotetext\mult@LTRfootnotetext

```





```

158 \fi
159 \ifx\@RTLfootnotetext\mult@RTLfootnotetext\else
160 \let\orig@RTLfootnotetext\@RTLfootnotetext
161 \let\@RTLfootnotetext\mult@RTLfootnotetext
162 \fi
163 \@ifnextchar[\adjmult@cols{\adjmult@cols[]}]{}
164 \let\adjmc@page@sofar@orig=\page@sofar

```

### 3 File algorithm2e-xetex-bidi.def

```

165 \ProvidesFile{algorithm2e-xetex-bidi.def}[2018/09/23 v0.2 bidi adaptations for algorithm2e p
166 \expandafter\ifx\c@algocf@within\endcsname\relax% if \algocf@within doesn't exist
167 \else%
168 \renewcommand\thealgocf{\c@algocf@within\endcsname\@SepMark\@arabic\c@algocf}%
169 \fi
170 \@ifpackageloaded{color}{\relax}{%
171 \bidi@patchcmd{\@algocf@start}{\bgroup}{\relax}{%
172 \bgroup
173 \if@RTL
174 \beginR
175 \else
176 \beginL
177 \fi
178 }{}{}
179 \bidi@patchcmd{\@algocf@finish}{\egroup\end{lrbox}}{\relax}{%
180 \if@RTL
181 \endR
182 \else
183 \endL
184 \fi
185 \egroup
186 \end{lrbox}}%
187 }{}{}
188 \bidi@patchcmd{\algocf@makecaption}{\hbox}{\relax}{%
189 \if@RTL
190 \hboxR
191 \else
192 \hboxL
193 \fi
194 }{}{}
195 }

```

### 4 File amsbook-xetex-bidi.def

```

196 \ProvidesFile{amsbook-xetex-bidi.def}[2017/08/09 v1.2 bidi adaptations for amsbook class for
197 \def\@tocline#1#2#3#4#5#6#7{\relax
198 \ifnum #1>\c@tocdepth % then omit
199 \else
200 \par \addpenalty\@secpenalty\addvspace{#2}%
201 \begingroup \hyphenpenalty\@M
202 \@ifempty{#4}{\relax}{%
203 \@tempdima\c@tocindent\number#1\endcsname\relax
204 }{}%
205 \@tempdima#4\relax

```



```

206 }%
207 \parindent\z@ \if@RTL\righskip\else\leftskip\fi#3\relax \advance\if@RTL\righskip\else\
208 \if@RTL\leftskip\else\righskip\fi\@pnumwidth plus4em \parfillskip-\@pnumwidth
209 #5\leavevmode\hskip-\@tempdima #6\nobreak\relax
210 \hfil\hbox to\@pnumwidth{\@tocpagenum{#7}}\par
211 \nobreak
212 \endgroup
213 \fi}
214 \renewcommand\thesubsection {\thesection\@SepMark\arabic{subsection}}
215 \renewcommand\thesubsubsection {\thesubsection \@SepMark\arabic{subsubsection}}
216 \renewcommand\theparagraph {\thesubsubsection\@SepMark\arabic{paragraph}}
217 \renewcommand\thesubparagraph {\theparagraph\@SepMark\arabic{subparagraph}}
218 \def\theindex{\@restonecoltrue\if@twocolumn\@restonecolfalse\fi
219 \columnseprule\z@ \columnsep 35\p@
220 \@indextitlestyle
221 \thispagestyle{plain}%
222 \let\item\@idxitem
223 \parindent\z@ \parskip\z@\@plus.3\p@\relax
224 \if@RTL\raggedleft\else\raggedright\fi
225 \hyphenpenalty\@M
226 \footnotesize}
227 \def\@idxitem{\par\hangindent \if@RTL-\fi2em}
228 \def\subitem{\par\hangindent \if@RTL-\fi2em\hspace*{1em}}
229 \def\subsubitem{\par\hangindent \if@RTL-\fi3em\hspace*{2em}}
230 \def\right@footnoterule{%
231 \kern-.4\p@
232 \hbox to \columnwidth{\hskip \dimexpr\columnwidth-5pc\relax \hrulefill }
233 \kern11\p@\kern-\footnotesep}
234 \def\left@footnoterule{\kern-.4\p@
235 \hrule\@width 5pc\kern11\p@\kern-\footnotesep}
236
237 \long\def\@footnotetext#1{%
238 \insert\footins{%
239 \if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi%
240 \reset@font%
241 \bidi@footnotetext@font% \normalfont\footnotesize
242 \interlinepenalty\interfootnotelinepenalty
243 \splittopskip\footnotesep \splitmaxdepth \dp\strutbox
244 \floatingpenalty\@MM \hsize\columnwidth
245 \@parboxrestore \parindent\normalparindent \sloppy
246 \protected@edef\@currentlabel{%
247 \csname p@footnote\endcsname\@thefnmark}%
248 \@makefnmark%
249 \rule\z@\footnotesep\ignorespaces#1\unskip\strut\par}}
250
251 \long\def\@RTLfootnotetext#1{%
252 \insert\footins{%
253 \@RTLtrue%
254 \reset@font%
255 \bidi@RTLfootnotetext@font% \normalfont\footnotesize
256 \interlinepenalty\interfootnotelinepenalty
257 \splittopskip\footnotesep \splitmaxdepth \dp\strutbox
258 \floatingpenalty\@MM \hsize\columnwidth
259 \@parboxrestore \parindent\normalparindent \sloppy

```



```

260 \protected@edef\@currentlabel{%
261 \csname p@footnote\endcsname\@thefnmark}%
262 \@makefntext{%
263 \rule\z@\footnotesep\ignorespaces#1\unskip\strut\par}}
264
265
266 \long\def\@LTRfootnotetext#1{%
267 \insert\footins{%
268 \RTLfalse%
269 \reset@font%
270 \bidi@@LTRfootnotetext@font% \normalfont\footnotesize
271 \interlinepenalty\interfootnotelinepenalty
272 \splittopskip\footnotesep \splitmaxdepth \dp\strutbox
273 \floatingpenalty\@MM \hsize\columnwidth
274 \@parboxrestore \parindent\normalparindent \sloppy
275 \protected@edef\@currentlabel{%
276 \csname p@footnote\endcsname\@thefnmark}%
277 \@makefntext{%
278 \rule\z@\footnotesep\ignorespaces#1\unskip\strut\par}}
279
280
281
282 \footdir@temp\footdir@ORG@bidi@amsbook@footnotetext\@footnotetext{\bidi@footdir@footnote}%
283 \footdir@temp\footdir@ORG@bidi@amsbook@RTLfootnotetext\@RTLfootnotetext{R}%
284 \footdir@temp\footdir@ORG@bidi@amsbook@LTRfootnotetext\@LTRfootnotetext{L}%
285
286 \renewenvironment{thebibliography}[1]{%
287 \@bibttitlestyle
288 \normalfont\bibliofont\labelsep .5em\relax
289 \renewcommand\theenumiv{\arabic{enumiv}}\let\p@enumiv\@empty
290 \ifRTL\if@LTRbibitems\@RTLfalse\else\fi\else\if@RTLbibitems\@RTLtrue\else\fi\fi
291 \bidi@@thebibliography@font@hook%
292 \list{\@biblabel{\theenumiv}}{\settowidth\labelwidth{\@biblabel{#1}}%
293 \leftmargin\labelwidth \advance\leftmargin\labelsep
294 \usecounter{enumiv}}%
295 \sloppy \clubpenalty\@M \widowpenalty\clubpenalty
296 \sfcode`\.\@m
297 }{%
298 \def\@noitemerr{\@latex@warning{Empty `thebibliography' environment}}%
299 \endlist
300 }
301 \def\@makechapterhead#1{\global\topskip 7.5pc\relax
302 \begingroup
303 \fontsize{\@xivpt}{18}\bfseries\centering
304 \ifnum\c@secnumdepth>\m@ne
305 \leavevmode \hskip-\ifRTL\rightskip\else\leftskip\fi
306 \rlap{\vbox to\z@{\vss
307 \centerline{\normalsize\mdseries
308 \uppercase\@xp{\chaptername}\enspace\thechapter}
309 \vskip 3pc}}\hskip\ifRTL\rightskip\else\leftskip\fi\fi
310 #1\par \endgroup
311 \skip@34\p@ \advance\skip@-\normalbaselineskip
312 \vskip\skip@ }
313 \def\maketitle{\par

```



```

314 \@topnum\z@ % this prevents figures from falling at the top of page 1
315 \begingroup
316 \@maketitle
317 \endgroup
318 \c@footnote\z@
319 \def\do##1{\let##1\relax}%
320 \do\maketitle \do\@maketitle \do\title \do\@xtitle \do\@title
321 \do\author \do\@xauthor \do\address \do\@xaddress
322 \do\email \do\@xemail \do\curraddr \do\@xcurraddr
323 \do\dedicatory \do\@dedicatory \do\thanks \do\thankses
324 \do\keywords \do\@keywords \do\subjclass \do\@subjclass
325 }

```

## 5 File amsmath-xetex-bidi.def

```

326 \ProvidesFile{amsmath-xetex-bidi.def}[2020/05/16 v1.2 bidi adaptations for amsmath package f
327 \let\veqno=\eqno
328 \iftagsleft@ \let\veqno=\leqno \fi
329 \renewcommand{\numberwithin}[3][\arabic]{%
330   \ifundefined{c@#2}{\@nocounterr{#2}}{%
331     \ifundefined{c@#3}{\@nocnterr{#3}}{%
332       \@addtoreset{#2}{#3}%
333       \@xp\xdef\csname the#2\endcsname{%
334         \@xp\@nx\csname the#3\endcsname \@nx\@SepMark\@nx#1{#2}}}%
335   }
336 \def\tagform@#1{\maketag@@@{\if@nonlatin\beginR\fi(\kern\z@\ignorespaces#1\unskip\@italicco
337
338 \bidi@patchcmd\math@cr@@@align\place@tag{%
339   \place@tag
340   \else
341     \place@tag
342 }{}{}
343

```

## 6 File amstext-xetex-bidi.def

```

344 \ProvidesFile{amstext-xetex-bidi.def}[2016/09/12 v0.2 bidi adaptations for amstext package f
345 \def\textdef@#1#2#3{\hbox{%
346   \everymath{#1}%
347   \let\fontsize#2\selectfont
348   \if@nonlatin\beginR\fi#3\if@nonlatin\endR\fi}}}

```

## 7 File amsthm-xetex-bidi.def

```

349 \ProvidesFile{amsthm-xetex-bidi.def}[2010/07/25 v0.1 bidi adaptations for amsthm package for
350 \def\@thmcountersep{\@SepMark}

```

## 8 File array-xetex-bidi.def

```

351 \ProvidesFile{array-xetex-bidi.def}[2015/11/07 v0.3 bidi adaptations for array package for X
352 \def\@testpach{\@chclass
353   \ifnum \@lastchclass=6 \@ne \@chnum \@ne \else
354   \ifnum \@lastchclass=7 5 \else
355   \ifnum \@lastchclass=8 \tw@ \else

```



```

356 \ifnum \@lastchclass=9 \thr@@
357 \else \z@
358 \ifnum \@lastchclass = 10 \else
359 \edef\@nextchar{\expandafter\string\@nextchar}%
360 \@chnum
361 \if \@nextchar c\z@ \else
362 \if \@nextchar \if@RTLtab r\else l\fi\@ne \else
363 \if \@nextchar \if@RTLtab l\else r\fi\tw@ \else
364 \z@ \@chclass
365 \if\@nextchar |\@ne \else
366 \if \@nextchar !6 \else
367 \if \@nextchar @7 \else
368 \if \@nextchar <8 \else
369 \if \@nextchar >9 \else
370 10
371 \@chnum
372 \if \@nextchar m\thr@@\else
373 \if \@nextchar p4 \else
374 \if \@nextchar b5 \else
375 \z@ \@chclass \z@ \@preamerr \z@ \fi \fi \fi \fi
376 \fi \fi \fi \fi \fi \fi \fi \fi \fi \fi \fi \fi
377 \def\@tabular{%
378 \leavevmode
379 \hbox \bgroup\if@RTLtab\beginR \fi $\col@sep\tabcolsep \let\d@llarbegin\beginR
380 \let\d@llarend\endR\endgroup
381 \@tabarray}
382 \def\endtabular{\endarray $\if@RTLtab\endR\fi\egroup}
383 \expandafter\let\csname endtabular*\endcsname=\endtabular
384 \def\@array[#1]#2{%
385 \@tempdima \ht \strutbox
386 \advance \@tempdima by\extrarowheight
387 \setbox \@arstrutbox \hbox{\vrule
388 \@height \arraystretch \@tempdima
389 \@depth \arraystretch \dp \strutbox
390 \@width \z@}%
391 \beginR
392 \mkpream{#2}%
393 \xdef\@preamble{\noexpand \ialign \@halignto
394 \bgroup \@arstrut \@preamble
395 \tabskip \z@ \cr}%
396 \endgroup
397 \@arrayleft
398 \if #1t\vtop \else \if#1b\vbox \else \vcenter \fi \fi
399 \bgroup
400 \let \@sharp ##\let \protect \relax
401 \lineskip \z@
402 \baselineskip \z@
403 \m@th
404 \let\\\@arraycr \let\tabularnewline\\\let\par\@empty \if@RTLtab\hbox\bgroup\beginR\@hboxRo
405 \def\@tabarray{\@ifnextchar{\@array}{\@array[c]}}
406 \def\endarray{\cr\egroup\if@RTLtab\egroup\endR\egroup\fi \egroup \@arrayright \gdef\@prea
407 \def\array{\col@sep\arraycolsep
408 \def\d@llarbegin{$}\let\d@llarend\d@llarbegin\gdef\@halignto{}}%
409 \@RTLtabfalse\@tabarray}

```



## 9 File article-xetex-bidi.def

```

410 \ProvidesFile{article-xetex-bidi.def}[2017/06/09 v0.6 bidi adaptations for standard article]
411 \if@titlepage
412   \renewcommand\maketitle{\begin{titlepage}%
413     \let\footnotesize\small
414     \let\right@footnoterule\relax
415     \let\left@footnoterule\relax
416     \let\textwidth@footnoterule\relax
417     \let\footnote\thanks
418     \let\LTRfootnote\LTRthanks
419     \let\RTLfootnote\RTLthanks
420     \null\vfil
421     \vskip 60\p@
422     \begin{center}%
423       {\LARGE \@title \par}%
424       \vskip 3em%
425       {\large
426         \lineskip .75em%
427         \begin{tabular}[t]{c}%
428           \@author
429         \end{tabular}\par}%
430       \vskip 1.5em%
431       {\large \@date \par}%           % Set date in \large size.
432     \end{center}\par
433     \@thanks
434     \vfil\null
435   \end{titlepage}%
436   \setcounter{footnote}{0}%
437   \global\let\thanks\relax
438   \global\let\LTRthanks\relax
439   \global\let\RTLthanks\relax
440   \global\let\maketitle\relax
441   \global\let\@thanks\@empty
442   \global\let\@author\@empty
443   \global\let\@date\@empty
444   \global\let\@title\@empty
445   \global\let\title\relax
446   \global\let\author\relax
447   \global\let\date\relax
448   \global\let\and\relax
449 }
450 \else
451 \renewcommand\maketitle{\par
452   \begingroup
453     \renewcommand\thefootnote{\@fnsymbol\c@footnote}%
454     \def\@makefnmark{\rlap{\@textsuperscript{\normalfont\@thefnmark}}}%
455     \long\def\@makefntext##1{\parindent 1em\noindent
456       \hb@xt@1.8em{%
457         \hss\@textsuperscript{\normalfont\@thefnmark}}##1}%
458     \if@twocolumn
459       \ifnum \col@number=\@ne
460         \@maketitle
461       \else

```



```

462     \twocolumn[\@maketitle]%
463     \fi
464     \else
465     \newpage
466     \global\@topnum\z@    % Prevents figures from going at top of page.
467     \@maketitle
468     \fi
469     \thispagestyle{plain}\@thanks
470 \endgroup
471 \setcounter{footnote}{0}%
472 \global\let\thanks\relax
473 \global\let\LTRthanks\relax
474 \global\let\RTLthanks\relax
475 \global\let\maketitle\relax
476 \global\let\@maketitle\relax
477 \global\let\@thanks\@empty
478 \global\let\@author\@empty
479 \global\let\@date\@empty
480 \global\let\@title\@empty
481 \global\let\title\relax
482 \global\let\author\relax
483 \global\let\date\relax
484 \global\let\and\relax
485 }
486 \def\@maketitle{%
487   \newpage
488   \null
489   \vskip 2em%
490   \begin{center}%
491     \let \footnote \thanks
492     \let \LTRfootnote \LTRthanks
493     \let \RTLfootnote \RTLthanks
494     {\LARGE \@title \par}%
495     \vskip 1.5em%
496     {\large
497       \lineskip .5em%
498       \begin{tabular}[t]{c}%
499         \@author
500       \end{tabular}\par}%
501     \vskip 1em%
502     {\large \@date}%
503   \end{center}%
504   \par
505   \vskip 1.5em}
506 \fi
507 \renewcommand*\l@part[2]{%
508   \ifnum \c@tocdepth >-2\relax
509     \addpenalty\@secpenalty
510     \addvspace{2.25em \@plus\p@}%
511     \setlength\@tempdima{3em}%
512     \begingroup
513       \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
514       \parfillskip -\@pnumwidth
515     {\leavevmode

```



```

516      \large \bfseries #1\hfil \hb@xt@{\pnumwidth{\hss #2}}\par
517      \nobreak
518      \if@compatibility
519        \global\@nobreaktrue
520        \everypar{\global\@nobreakfalse\everypar{}}%
521      \fi
522    \endgroup
523  \fi}
524 \renewcommand*\l@section[2]{%
525   \ifnum \c@tocdepth >\z@
526     \addpenalty\@secpenalty
527     \addvspace{1.0em \@plus\p@}%
528     \setlength\@tempdima{1.5em}%
529     \begingroup
530       \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
531       \parfillskip -\@pnumwidth
532       \leavevmode \bfseries
533       \advance\if@RTL\rightskip\else\leftskip\fi\@tempdima
534       \hskip -\if@RTL\rightskip\else\leftskip\fi
535       #1\nobreak\hfil \nobreak\hb@xt@{\pnumwidth{\hss #2}}\par
536     \endgroup
537   \fi}
538 \renewcommand\left@footnoterule{%
539   \kern-3\p@
540   \hrule\@width.4\columnwidth
541   \kern2.6\p@}
542 \renewcommand\right@footnoterule{%
543   \kern-3\p@
544   \hbox to \columnwidth{\hskip .6\columnwidth \hrulefill }
545   \kern2.6\p@}
546 \renewcommand\thesubsection {\thesection\@SepMark\@arabic\c@subsection}
547 \renewcommand\thesubsubsection{\thesubsection\@SepMark\@arabic\c@subsubsection}
548 \renewcommand\theparagraph {\thesubsubsection\@SepMark\@arabic\c@paragraph}
549 \renewcommand\thesubparagraph {\theparagraph\@SepMark\@arabic\c@subparagraph}
550 \def\@part[#1]#2{%
551   \ifnum \c@secnumdepth >\m@ne
552     \refstepcounter{part}%
553     \addcontentsline{toc}{part}{\thepart\hspace{1em}#1}%
554   \else
555     \addcontentsline{toc}{part}{#1}%
556   \fi
557   {\parindent \z@ \if@RTL\raggedleft\else\raggedright\fi
558    \interlinepenalty \@M
559    \normalfont
560    \ifnum \c@secnumdepth >\m@ne
561      \Large\bfseries \partname\nobreakspace\thepart
562      \par\nobreak
563    \fi
564    \huge \bfseries #2%
565    \markboth{}{}\par}%
566   \nobreak
567   \vskip 3ex
568   \@afterheading}
569 \renewenvironment{thebibliography}[1]

```





```

570 {\section*{\refname}%
571 \mkboth{\MakeUppercase\refname}{\MakeUppercase\refname}%
572 \ifRTL\ifLTRbibitems\RTLfalse\else\fi\else\ifRTLbibitems\RTLtrue\else\fi\fi
573 \bidi@thebibliography@font@hook%
574 \list{\@biblabel{\@arabic\c@enumiv}}%
575 {\settowidth\labelwidth{\@biblabel{#1}}%
576 \leftmargin\labelwidth
577 \advance\leftmargin\labelsep
578 \@openbib@code
579 \usecounter{enumiv}%
580 \let\p@enumiv\@empty
581 \renewcommand\theenumiv{\@arabic\c@enumiv}}%
582 \sloppy
583 \clubpenalty4000
584 \@clubpenalty \clubpenalty
585 \widowpenalty4000%
586 \sfcode\~.\@m}
587 {\def\@noitemerr
588 {\@latex@warning{Empty `thebibliography' environment}}}%
589 \endlist}
590 \renewenvironment{theindex}
591 {\if@twocolumn
592 \@restonecolfalse
593 \else
594 \@restonecoltrue
595 \fi
596 \columnseprule \z@
597 \columnsep 35\p@
598 \twocolumn[\section*{\indexname}]%
599 \mkboth{\MakeUppercase\indexname}%
600 {\MakeUppercase\indexname}%
601 \thispagestyle{plain}\parindent\z@
602 \parskip\z@ \@plus .3\p@\relax
603 \let\item\@idxitem}
604 {\if@restonecol\onecolumn\else\clearpage\fi}

```

## 10 File artikel1-xetex-bidi.def

```

605 \ProvidesFile{artikel1-xetex-bidi.def}[2017/06/09 v0.4 bidi adaptations for artikel1 class f
606 \renewenvironment{theindex}{%
607 \if@twocolumn
608 \@restonecolfalse
609 \else
610 \@restonecoltrue
611 \fi
612 \columnseprule \z@
613 \columnsep 35\p@
614 \twocolumn[\section*{\indexname}]%
615 \mkboth{\MakeUppercase{\indexname}}{\MakeUppercase{\indexname}}%
616 \thispagestyle{plain}\parindent\z@
617 \parskip\z@ \@plus .3\p@\relax
618 \let\item\@idxitem
619 }{%
620 \if@restonecol\onecolumn\else\clearpage\fi}

```



```

621 \renewcommand*\head@style{%
622     \interlinepenalty \@M
623     \hyphenpenalty=\@M \exhyphenpenalty=\@M
624     \if@RTL\leftskip\else\rightskip\fi=0cm plus .7\hsize\relax}
625 \if@titlepage
626     \renewenvironment{abstract}{%
627         \titlepage
628         \null\vfil
629         \section*{\SectFont\abstractname}
630         \noindent\ignorespaces}
631     {\par\vfil\null\endtitlepage}
632 \else
633     \renewenvironment{abstract}{%
634         \if@twocolumn
635             \section*{\abstractname}%
636         \else
637             \bgroup\if@RTL\leftskip\else\rightskip\fi=\unitindent
638             \section*{\small\SectFont\abstractname}%
639             \noindent\ignorespaces
640             \fi}
641     {\if@twocolumn\else\par\egroup\fi}
642 \fi
643 \renewcommand*\@regtocline[3]{%
644     \ifnum #1>\c@tocdepth
645     \else
646         \vskip\z@\@plus.2\p@
647         {\hangindent\z@ \@afterindenttrue \interlinepenalty\@M
648         \if@RTL\rightskip\else\leftskip\fi\unitindent
649         \if@RTL\leftskip\else\rightskip\fi\unitindent\@plus 1fil
650         \parfillskip\z@
651         \@tempdima\unitindent
652         \parindent\z@
653         \leavevmode
654         \hbox{}\hskip -\if@RTL\rightskip\else\leftskip\fi\relax#2\nobreak
655         \hskip 1em \nobreak{\slshape #3}\par
656         }%
657     \fi}
658 \if@oldtoc
659 \renewcommand*\l@part[2]{%
660     \ifnum \c@tocdepth >-2\relax
661         \addpenalty\@secpenalty
662         \addvspace{2.25em \@plus\p@}%
663         \begingroup
664             \setlength\@tempdima{3em}%
665             \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
666             \parfillskip -\@pnumwidth
667             {\leavevmode
668                 \large \bfseries #1\hfil \hb@xt@\@pnumwidth{\hss #2}}\par
669                 \nobreak
670                 \if@compatibility
671                     \global\@nobreaktrue
672                     \everypar{\global\@nobreakfalse\everypar{}}%
673             \fi
674         \endgroup

```



```

675 \fi}
676 \else
677 \renewcommand*\l@part{%
678 \ifnum \c@tocdepth >-2\relax
679 \addpenalty\@secpenalty
680 \addvspace{2.25em \@plus \p@}%
681 \@regtocline{0}%
682 \fi}
683 \fi
684 \if@oldtoc
685 \renewcommand*\l@section[2]{%
686 \addpenalty\@secpenalty
687 \addvspace{1.0em \@plus \p@}%
688 \setlength\@tempdima{1.5em}%
689 \begingroup
690 \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
691 \parfillskip -\@pnumwidth
692 \leavevmode \bfseries
693 \advance\if@RTL\rightskip\else\leftskip\fi\@tempdima
694 \hskip -\if@RTL\rightskip\else\leftskip\fi
695 #1\nobreak\hfil \nobreak\hb@xt@\@pnumwidth{\hss #2}\par
696 \endgroup}
697 \else
698 \renewcommand*\l@section{\@regtocline{1}}
699 \fi
700 \renewcommand*\thesubsection{\thesection\@SepMark\@arabic\c@subsection}
701 \renewcommand*\thesubsubsection{\thesubsection\@SepMark\@arabic\c@subsubsection}
702 \renewcommand*\theparagraph{\thesubsubsection\@SepMark\@arabic\c@paragraph}
703 \renewcommand*\thesubparagraph{\theparagraph\@SepMark\@arabic\c@subparagraph}
704 \renewenvironment{thebibliography}[1]
705 {\section*\refname}%
706 \@mkboth{\MakeUppercase\refname}{\MakeUppercase\refname}%
707 \if@RTL\if@LTRbibitems\@RTLfalse\else\fi\else\if@RTLbibitems\@RTLtrue\else\fi\fi
708 \bidi\@thebibliography@font@hook%
709 \list{\@biblabel{\@arabic\c@enumiv}}%
710 {\settowidth\labelwidth{\@biblabel{#1}}%
711 \leftmargin\labelwidth
712 \advance\leftmargin\labelsep
713 \@openbib@code
714 \usecounter{enumiv}%
715 \let\p@enumiv\@empty
716 \renewcommand*\theenumiv{\@arabic\c@enumiv}}%
717 \sloppy\clubpenalty4000\widowpenalty4000%
718 \sfcode`. \@m}
719 {\def\@noitemerr
720 {\@latex@warning{Empty `thebibliography' environment}}}%
721 \endlist}
722 \renewcommand*\left@footnoterule{%
723 \kern-3\p@
724 \kern.5\baselineskip
725 \hrule\@width\unitindent
726 \kern.4\baselineskip
727 }
728 \renewcommand*\right@footnoterule{%

```



```

729 \kern-3\p@
730 \kern.5\baselineskip
731 \hbox to \columnwidth{\hskip \dimexpr\columnwidth-\unitindent\relax \hrulefill }
732 \kern.4\baselineskip}
733 \if@titlepage
734 \renewcommand*{\TitleFont{\rmfamily}
735 \renewcommand*{\maketitle{%
736 \begin{titlepage}%
737 \let\footnotesize\small
738 \let\right@footnoterule\relax
739 \let\left@footnoterule\relax
740 \let\textwidth\footnoterule\relax
741 \let \footnote \thanks
742 \long\def\@makefntext##1{\parindent\z@
743 \def\labelitemi{\textendash}\@revlabeltrue
744 \leavevmode\@textsuperscript{\@thefnmark}\kern1em\relax ##1}
745 \renewcommand*\thefootnote{\@fnsymbol\c@footnote}%
746 \if@compatibility\setcounter{page}{0}\fi
747 \null\vfil
748 \vskip 60\p@
749 \begin{center}%
750 \TitleFont
751 {\LARGE \def\{\{\penalty -\@M}
752 \if@allcaps
753 \expandafter\uc@nothanks\@title\thanks\relax
754 \else
755 \@title
756 \fi\par}%
757 \vskip 3em%
758 {\large
759 \lineskip .75em \parindent\z@
760 \begin{tabular}[t]{c}%
761 \if@allcaps
762 \expandafter\uc@authornothanks\@author\and\relax
763 \else
764 \@author
765 \fi
766 \end{tabular}\par}%
767 \vskip 1.5em%
768 {\large
769 \if@allcaps
770 \uppercase\expandafter{\@date}%
771 \else
772 \@date
773 \fi\par}%
774 \end{center}\par
775 \@thanks
776 \vfil\null
777 \end{titlepage}%
778 \setcounter{footnote}{0}%
779 \global\let\thanks\relax
780 \global\let\maketitle\relax
781 \global\let\@thanks\@empty
782 \global\let\@author\@empty

```



```

783 \global\let\@title\@empty
784 \global\let\@date\@empty
785 \global\let\title\relax
786 \global\let\author\relax
787 \global\let\date\relax
788 \global\let\and\relax
789 }
790 \def\uc@nothanks#1\thanks{\uppercase{#1}\futurelet\@tempa\uc@tx}
791 \def\uc@authornothanks#1\and{\uc@nothanks#1\thanks\relax
792 \futurelet\@tempa\uc@ax}
793 \def\uc@ax{%
794 \ifx\@tempa\relax
795 \else
796 \\\andname \\\expandafter\uc@authornothanks
797 \fi}
798 \def\uc@tx{\ifx\@tempa\relax
799 \else \expandafter\uc@ty \fi}
800 \def\uc@ty#1{\thanks{#1}\uc@nothanks}
801 \else
802 \renewcommand*\maketitle{\par
803 \begingroup
804 \renewcommand*\thefootnote{\@fnsymbol\c@footnote}%
805 \def\@makefnmark{\rlap{%
806 \@textsuperscript{\normalfont\@thefnmark}}}%
807 \long\def\@makefntext{\@xm@kefntext{%
808 \@textsuperscript{\normalfont\@thefnmark}}}%
809 \if@twocolumn
810 \ifnum \col@number=\@ne
811 \maketitle
812 \else
813 \twocolumn[\maketitle]%
814 \fi
815 \else
816 \newpage
817 \global\@topnum\z@
818 \maketitle
819 \fi
820 \thispagestyle{plain}\@thanks
821 \endgroup
822 \setcounter{footnote}{0}%
823 \global\let\thanks\relax
824 \global\let\maketitle\relax
825 \global\let\@maketitle\relax
826 \global\let\@thanks\@empty
827 \global\let\@author\@empty
828 \global\let\@title\@empty
829 \global\let\@date\@empty
830 \global\let\title\relax
831 \global\let\author\relax
832 \global\let\date\relax
833 \global\let\and\relax
834 }
835 \def\@maketitle{%
836 \newpage

```



```

837 \null
838 \vskip 2em%
839 \begin{center}%
840   \let \footnote \thanks
841   {\LARGE \TitleFont \@title \par}%
842   \vskip 1.5em%
843   {\large \TitleFont
844     \lineskip .5em%
845     \begin{tabular}[t]{c}%
846       \@author
847     \end{tabular}\par}%
848   \vskip 1em%
849   {\large \TitleFont \@date}%
850 \end{center}%
851 \par
852 \vskip 1.5em}
853 \fi

```

## 11 File artikel2-xetex-bidi.def

```

854 \ProvidesFile{artikel2-xetex-bidi.def}[2017/06/09 v0.4 bidi adaptations for artikel2 class f
855 \renewenvironment{theindex}{%
856   \if@twocolumn
857     \@restonecolfalse
858   \else
859     \@restonecoltrue
860   \fi
861   \columnseprule \z@
862   \columnsep 35\p@
863   \twocolumn[\section*{\indexname}]%
864   \@mkboth{\MakeUppercase{\indexname}}{\MakeUppercase{\indexname}}%
865   \thispagestyle{plain}\parindent\z@
866   \parskip\z@ \@plus .3\p@\relax
867   \let\item\@idxitem
868   }{%
869   \if@restonecol\onecolumn\else\clearpage\fi}
870 \renewcommand*{\@regtocline}[3]{%
871   \ifnum #1>\c@tocdepth
872   \else
873     \vskip\z@ \@plus.2\p@
874     {\hangindent\z@ \@afterindenttrue \interlinepenalty\@M
875       \if@RTL\righskip\else\leftskip\fi\unitindent
876       \if@RTL\leftskip\else\righskip\fi\unitindent\@plus 1fil
877       \parfillskip\z@
878       \@tempdima\unitindent
879       \advance\@tempdima by \othermargin
880       \parindent\z@
881       \leavevmode
882       \hbox{\hskip -\if@RTL\righskip\else\leftskip\fi\relax#2\nobreak
883         \hskip 1em \nobreak{\slshape #3}\par
884       }%
885   \fi}
886 \if@oldtoc
887 \renewcommand*\l@section[2]{%

```



```

888 \addpenalty\@secpenalty
889 \addvspace{1.0em \@plus\p@}%
890 \setlength\@tempdima{1.5em}%
891 \begingroup
892 \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
893 \parfillskip -\@pnumwidth
894 \leavevmode \bfseries
895 \advance\if@RTL\rightskip\else\leftskip\fi\@tempdima
896 \hskip -\if@RTL\rightskip\else\leftskip\fi
897 #1\nobreak\hfil \nobreak\hb@xt@\@pnumwidth{\hss #2}\par
898 \endgroup}
899 \else
900 \renewcommand*\l@section{\@regtocline{1}}
901 \fi
902 \if@oldtoc
903 \renewcommand*\l@part[2]{%
904 \ifnum \c@tocdepth >-2\relax
905 \addpenalty\@secpenalty
906 \addvspace{2.25em \@plus\p@}%
907 \begingroup
908 \setlength\@tempdima{3em}%
909 \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
910 \parfillskip -\@pnumwidth
911 {\leavevmode
912 \large \bfseries #1\hfil \hb@xt@\@pnumwidth{\hss #2}}\par
913 \nobreak
914 \if@compatibility
915 \global\@nobreaktrue
916 \everypar{\global\@nobreakfalse\everypar{}}%
917 \fi
918 \endgroup
919 \fi}
920 \else
921 \renewcommand*\l@part{%
922 \ifnum \c@tocdepth >-2\relax
923 \addpenalty\@secpenalty
924 \addvspace{2.25em \@plus\p@}%
925 \@regtocline{0}%
926 \fi}
927 \fi
928 \renewcommand*\head@style{%
929 \interlinepenalty \@M
930 \hyphenpenalty=\@M \exhyphenpenalty=\@M
931 \if@RTL\leftskip\else\rightskip\fi=0cm plus .7\hsize\relax}
932 \if@titlepage
933 \renewenvironment{abstract}{%
934 \titlepage
935 \null\vfil
936 \section*{\SectFont\abstractname}%
937 \noindent\ignorespaces}
938 {\par\vfil\null\endtitlepage}
939 \else
940 \renewenvironment{abstract}{%
941 \if@twocolumn

```



```

942     \section*{\abstractname}%
943   \else
944     \section*{\hskip\unitindent\small\SectFont\abstractname}%
945     \list*{\setlength\listparindent{\unitindent}%
946           \setlength\parindent    {\z@}%
947           \setlength\leftmargin   {\unitindent}%
948           \setlength\rightmargin  {\unitindent}%
949           \setlength\parsep      {\z@}}%
950     \item[]%
951   \fi}
952   {\if@twocolumn\else\par\endlist\fi}
953 \fi
954 \renewcommand*\thesubsection{\thesection\@SepMark\@arabic\c@subsection}
955 \renewcommand*\thesubsubsection{\thesubsection\@SepMark\@arabic\c@subsubsection}
956 \renewcommand*\theparagraph{\thesubsubsection\@SepMark\@arabic\c@paragraph}
957 \renewcommand*\thesubparagraph{\theparagraph\@SepMark\@arabic\c@subparagraph}
958 \renewcommand*\left@footnoterule{%
959   \kern-3\p@
960   \hrule\@width 3\unitindent
961   \kern 2.6\p@
962 }
963 \renewcommand*\right@footnoterule{%
964   \kern-3\p@
965   \hbox to \columnwidth{\hskip \dimexpr\columnwidth-3\unitindent\relax \hrulefill }
966   \kern 2.6\p@}
967 \renewenvironment{thebibliography}[1]
968   {\section*{\refname}%
969     \@mkboth{\MakeUppercase\refname}{\MakeUppercase\refname}%
970     \if@RTL\if@LTRbibitems\@RTLfalse\else\fi\else\if@RTLbibitems\@RTLtrue\else\fi\fi
971     \bidi@thebibliography@font@hook%
972     \list{\@biblabel{\@arabic\c@enumiv}}%
973           {\settowidth\labelwidth{\@biblabel{#1}}%
974           \leftmargin\labelwidth
975           \advance\leftmargin\labelsep
976           \@openbib@code
977           \usecounter{enumiv}%
978           \let\p@enumiv\@empty
979           \renewcommand*\theenumiv{\@arabic\c@enumiv}}%
980     \sloppy\clubpenalty4000\widowpenalty4000%
981     \sfcode\`.\@m}
982   {\def\@noitemerr
983     {\@latex@warning{Empty `thebibliography' environment}}%
984     \endlist}
985 \if@titlepage
986 \renewcommand*\TitleFont{\rmfamily}
987 \renewcommand*\maketitle{%
988   \begin{titlepage}%
989     \let\footnotesize\small
990     \let\right@footnoterule\relax
991     \let\left@footnoterule\relax
992     \let\textwidth\footnoterule\relax
993     \let \footnote \thanks
994     \long\def\@makefntext##1{\parindent\z@
995       \def\labelitemi{\textendash}\@revlabeltrue

```





```

996      \leavevmode\@textsuperscript{\@thefnmark}\kern1em\relax ##1}
997      \renewcommand*\thefootnote{\@fnsymbol\c@footnote}%
998      \if@compatibility\setcounter{page}{0}\fi
999      \null\vfil
1000     \vskip 60\p@
1001     \begin{center}%
1002       \TitleFont
1003       {\LARGE \def\\{\penalty -\@M}
1004         \if@allcaps
1005           \expandafter\uc@nothanks\@title\thanks\relax
1006         \else
1007           \@title
1008           \fi\par}%
1009     \vskip 3em%
1010     {\large
1011       \lineskip .75em \parindent\z@
1012       \begin{tabular}[t]{c}%
1013         \if@allcaps
1014           \expandafter\uc@authornothanks\@author\and\relax
1015         \else
1016           \@author
1017         \fi
1018       \end{tabular}\par}%
1019     \vskip 1.5em%
1020     {\large
1021       \if@allcaps
1022         \uppercase\expandafter{\@date}%
1023       \else
1024         \@date
1025       \fi\par}%
1026     \end{center}\par
1027     \@thanks
1028     \vfil\null
1029   \end{titlepage}%
1030   \setcounter{footnote}{0}%
1031   \global\let\thanks\relax
1032   \global\let\maketitle\relax
1033   \global\let\@thanks\@empty
1034   \global\let\@author\@empty
1035   \global\let\@title\@empty
1036   \global\let\@date\@empty
1037   \global\let\title\relax
1038   \global\let\author\relax
1039   \global\let\date\relax
1040   \global\let\and\relax
1041 }
1042 \def\uc@nothanks#1\thanks{\uppercase{#1}\futurelet\@tempa\uc@tx}
1043 \def\uc@authornothanks#1\and{\uc@nothanks#1\thanks\relax
1044   \futurelet\@tempa\uc@ax}
1045 \def\uc@ax{%
1046   \ifx\@tempa\relax
1047   \else
1048     \ \andname \ \ \expandafter\uc@authornothanks
1049   \fi}

```



```

1050 \def\uc@tx{\ifx\@tempa\relax
1051     \else \expandafter\uc@ty \fi}
1052 \def\uc@ty#1{\thanks{#1}\uc@nothanks}
1053 \else
1054 \renewcommand*\maketitle{\par
1055     \begingroup
1056     \renewcommand*\thefootnote{\@fnsymbol\c@footnote}%
1057     \long\def\@makefntext##1{\parindent\z@
1058         \def\labelitemi{\textendash}%
1059         \leavevmode\hb@xt@.5\unitindent{%
1060             \@textsuperscript{\normalfont\@thefnmark}\hfil}##1}
1061     \if@twocolumn
1062         \ifnum \col@number=\@one
1063             \@maketitle
1064         \else
1065             \twocolumn[\@maketitle]%
1066         \fi
1067     \else
1068         \newpage
1069         \global\@topnum\z@
1070         \@maketitle
1071     \fi
1072     \thispagestyle{plain}\@thanks
1073 \endgroup
1074 \setcounter{footnote}{0}%
1075 \global\let\thanks\relax
1076 \global\let\maketitle\relax
1077 \global\let\@maketitle\relax
1078 \global\let\@thanks\@empty
1079 \global\let\@author\@empty
1080 \global\let\@title\@empty
1081 \global\let\@date\@empty
1082 \global\let\title\relax
1083 \global\let\author\relax
1084 \global\let\date\relax
1085 \global\let\and\relax
1086 }
1087 \def\@maketitle{%
1088     \newpage
1089     \null
1090     \vskip 2em%
1091     \begin{center}%
1092         \let \footnote \thanks
1093         {\LARGE \TitleFont \@title \par}%
1094         \vskip 1.5em%
1095         {\large \TitleFont
1096             \lineskip .5em%
1097             \begin{tabular}[t]{c}%
1098                 \@author
1099             \end{tabular}\par}%
1100         \vskip 1em%
1101         {\large \TitleFont \@date}%
1102     \end{center}%
1103     \par

```



```

1104 \vskip 1.5em}
1105 \fi

```

## 12 File artikel3-xetex-bidi.def

```

1106 \ProvidesFile{artikel3-xetex-bidi.def}[2017/06/09 v0.5 bidi adaptations for artikel3 class f
1107 \renewenvironment{theindex}{\%
1108 \if@twocolumn
1109 \@restonecolfalse
1110 \else
1111 \@restonecoltrue
1112 \fi
1113 \columnseprule \z@
1114 \columnsep 35\p@
1115 \twocolumn[\section*{\indexname}]\%
1116 \mkboth{\MakeUppercase{\indexname}}{\MakeUppercase{\indexname}}\%
1117 \thispagestyle{plain}\parindent\z@
1118 \parskip\z@ \@plus .3\p@\relax
1119 \let\item\@idxitem
1120 }\%
1121 \if@restonecol\onecolumn\else\clearpage\fi}
1122 \renewcommand*{\head@style}{\%
1123 \interlinepenalty \@M
1124 \hyphenpenalty=\@M \exhyphenpenalty=\@M
1125 \if@RTL\leftskip\else\rightskip\fi=0cm plus .7\hsize\relax}
1126 \renewcommand*{\regtocline}[3]{\%
1127 \ifnum #1>\c@tocdepth
1128 \else
1129 \vskip\z@ \@plus .2\p@
1130 {\hangindent\z@ \@afterindenttrue \interlinepenalty \@M
1131 \if@RTL\rightskip\else\leftskip\fi\unitindent
1132 \if@RTL\leftskip\else\rightskip\fi\unitindent \@plus 1fil
1133 \parfillskip\z@
1134 \@tempdima\unitindent
1135 \parindent\z@
1136 \leavevmode
1137 \hbox{} \hskip -\if@RTL\rightskip\else\leftskip\fi\relax#2\nobreak
1138 \hskip 1em \nobreak{\slshape #3}\par
1139 }\%
1140 \fi}
1141 \if@oldtoc
1142 \renewcommand*{\l@part}[2]{\%
1143 \ifnum \c@tocdepth >-2\relax
1144 \addpenalty\@secpenalty
1145 \addvspace{2.25em \@plus\p@}\%
1146 \begingroup
1147 \setlength{\tempdima}{3em}\%
1148 \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
1149 \parfillskip -\@pnumwidth
1150 {\leavevmode
1151 \large \bfseries #1\hfil \hb@xt@\@pnumwidth{\hss #2}}\par
1152 \nobreak
1153 \if@compatibility
1154 \global\@nobreaktrue

```



```

1155     \everypar{\global\@nobreakfalse\everypar{}}%
1156     \fi
1157   \endgroup
1158 \fi}
1159 \else
1160   \renewcommand*\l@part{%
1161     \ifnum \c@tocdepth >-2\relax
1162       \addpenalty\@secpenalty
1163       \addvspace{2.25em \@plus \p@}%
1164       \@regtocline{0}%
1165     \fi}
1166 \fi
1167
1168 \if@oldtoc
1169 \renewcommand*\l@section[2]{%
1170   \addpenalty\@secpenalty
1171   \addvspace{1.0em \@plus \p@}%
1172   \setlength\@tempdima{1.5em}%
1173   \begingroup
1174   \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
1175   \parfillskip -\@pnumwidth
1176   \leavevmode \bfseries
1177   \advance\if@RTL\rightskip\else\leftskip\fi \@tempdima
1178   \hskip -\if@RTL\rightskip\else\leftskip\fi
1179   #1\nobreak\hfil \nobreak\hb@xt@\@pnumwidth{\hss #2}\par
1180   \endgroup}
1181 \else
1182   \renewcommand*\l@section{\@regtocline{1}}
1183 \fi
1184 \if@titlepage
1185   \renewenvironment{abstract}{%
1186     \titlepage
1187     \null\vfil
1188     \section*{\SectFont\abstractname}%
1189     \noindent\ignorespaces}
1190     {\par\vfil\null\endtitlepage}
1191 \else
1192   \renewenvironment{abstract}{%
1193     \if@twocolumn
1194       \section*{\abstractname}%
1195     \else
1196       \bgroup\if@RTL\leftskip\else\rightskip\fi=\unitindent
1197       \section*{\small\SectFont\abstractname}%
1198       \noindent\ignorespaces
1199     \fi}
1200     {\if@twocolumn\else\par\egroup\fi}
1201 \fi
1202 \renewcommand*\left@footnoterule{%
1203   \kern-3\p@
1204   \kern.5\baselineskip
1205   \hrule\@width\unitindent
1206   \kern.4\baselineskip
1207 }
1208 \renewcommand*\right@footnoterule{%

```



```

1209 \kern-3\p@
1210 \kern.5\baselineskip
1211 \hbox to \columnwidth{\hskip \dimexpr\columnwidth-\unitindent\relax \hrulefill }
1212 \kern.4\baselineskip}
1213 \renewcommand*\thesubsection{\thesection\@SepMark\@arabic\c@section}
1214 \renewcommand*\thesubsubsection{\thesubsection\@SepMark\@arabic\c@subsubsection}
1215 \renewcommand*\theparagraph{\thesubsubsection\@SepMark\@arabic\c@paragraph}
1216 \renewcommand*\thesubparagraph{\theparagraph\@SepMark\@arabic\c@subparagraph}
1217 \renewenvironment{thebibliography}[1]
1218     {\section*\refname}%
1219     \@mkboth{\MakeUppercase\refname}{\MakeUppercase\refname}%
1220     \ifRTL\ifLTRbibitems\@RTLfalse\else\fi\else\ifRTLbibitems\@RTLtrue\else\fi\fi
1221     \bidi@thebibliography@font@hook%
1222     \list{\@biblabel{\@arabic\c@enumiv}}%
1223         {\settowidth\labelwidth{\@biblabel{#1}}%
1224         \leftmargin\labelwidth
1225         \advance\leftmargin\labelsep
1226         \@openbib@code
1227         \usecounter{enumiv}%
1228         \let\p@enumiv\@empty
1229         \renewcommand*\theenumiv{\@arabic\c@enumiv}}%
1230     \sloppy\clubpenalty4000\widowpenalty4000%
1231     \sfcode`.\@m}
1232     {\def\@noitemerr
1233     {\@latex@warning{Empty `thebibliography' environment}}}%
1234     \endlist}
1235 \if@titlepage
1236 \renewcommand*\TitleFont{\rmfamily}
1237 \renewcommand*\maketitle{%
1238 \begin{titlepage}%
1239 \let\footnotesize\small
1240 \let\right@footnoterule\relax
1241 \let\left@footnoterule\relax
1242 \let\textwidth\footnoterule\relax
1243 \let \footnote \thanks
1244 \long\def\@makefnmark##1{\parindent\z@
1245 \def\labelitemi{\textendash}\@revlabeltrue
1246 \leavevmode\@textsuperscript{\@thefnmark}\kern1em\relax ##1}
1247 \renewcommand*\thefootnote{\@fnsymbol\c@footnote}%
1248 \if@compatibility\setcounter{page}{0}\fi
1249 \null\vfil
1250 \vskip 60\p@
1251 \begin{center}%
1252 \TitleFont
1253 {\LARGE \def\\{\penalty -\@M}
1254 \if@allcaps
1255 \expandafter\uc@nothanks\@title\thanks\relax
1256 \else
1257 \@title
1258 \fi\par}%
1259 \vskip 3em%
1260 {\large
1261 \lineskip .75em \parindent\z@
1262 \begin{tabular}[t]{c}%

```



```

1263         \if@allcaps
1264         \expandafter\uc@authornothanks \@author\and\relax
1265         \else
1266         \@author
1267         \fi
1268     \end{tabular}\par}%
1269     \vskip 1.5em%
1270     {\large
1271     \if@allcaps
1272     \uppercase\expandafter{\@date}%
1273     \else
1274     \@date
1275     \fi\par}%
1276     \end{center}\par
1277     \@thanks
1278     \vfil\null
1279 \end{titlepage}%
1280 \setcounter{footnote}{0}%
1281 \global\let\thanks\relax
1282 \global\let\maketitle\relax
1283 \global\let\@thanks\@empty
1284 \global\let\@author\@empty
1285 \global\let\@title\@empty
1286 \global\let\@date\@empty
1287 \global\let\title\relax
1288 \global\let\author\relax
1289 \global\let\date\relax
1290 \global\let\and\relax
1291 }
1292 \def\uc@nothanks#1\thanks{\uppercase{#1}\futurelet\@tempa\uc@tx}
1293 \def\uc@authornothanks#1\and{\uc@nothanks#1\thanks\relax
1294     \futurelet\@tempa\uc@ax}%
1295 \def\uc@ax{%
1296     \ifx\@tempa\relax
1297     \else
1298     \ \andname \ \ \expandafter\uc@authornothanks
1299     \fi}
1300 \def\uc@tx{\ifx\@tempa\relax
1301     \else \expandafter\uc@ty \fi}
1302 \def\uc@ty#1{\thanks{#1}\uc@nothanks}
1303 \else
1304 \renewcommand*\maketitle{\par
1305     \begin{group}
1306     \renewcommand*\thefootnote{\@fnsymbol\c@footnote}%
1307     \def\@makefnmark{\rlap{%
1308         \@textsuperscript{\normalfont\@thefnmark}}}%
1309     \long\def\@makefntext{\@xmakefntext{%
1310         \@textsuperscript{\normalfont\@thefnmark}}}%
1311     \if@twocolumn
1312     \ifnum \col@number=\@ne
1313     \ @maketitle
1314     \else
1315     \twocolumn[\@maketitle]%
1316     \fi

```



```

1317 \else
1318 \newpage
1319 \global\@topnum\z@
1320 \@maketitle
1321 \fi
1322 \thispagestyle{plain}\@thanks
1323 \endgroup
1324 \setcounter{footnote}{0}%
1325 \global\let\thanks\relax
1326 \global\let\maketitle\relax
1327 \global\let\@maketitle\relax
1328 \global\let\@thanks\@empty
1329 \global\let\@author\@empty
1330 \global\let\@title\@empty
1331 \global\let\@date\@empty
1332 \global\let\title\relax
1333 \global\let\author\relax
1334 \global\let\date\relax
1335 \global\let\and\relax
1336 }
1337 \def\@maketitle{%
1338 \newpage
1339 \null
1340 \vskip 2em%
1341 \if@titlecentered
1342 \begin{center}%
1343 \let \footnote \thanks
1344 {\LARGE \TitleFont \@title \par}%
1345 \vskip 1.5em%
1346 {\large \TitleFont
1347 \lineskip .5em%
1348 \begin{tabular}[t]{c}%
1349 \@author
1350 \end{tabular}\par}%
1351 \vskip 1em%
1352 {\large \TitleFont \@date}%
1353 \end{center}%
1354 \else
1355 {\LARGE \TitleFont \head@style \@title \par} \vskip 1.5em
1356 {\large \TitleFont \lineskip .5em \tabcolsep\z@
1357 \def\and{%% \begin{tabular} has already started
1358 \end{tabular}\hskip 1em plus .17fil
1359 \if@RTL\begin{tabular}[t]{r}\else\begin{tabular}[t]{l}\fi}% \end{tabu
1360 \if@RTL\begin{tabular}[t]{r}\else\begin{tabular}[t]{l}\fi\@author\end{tabular}\
1361 \vskip 1em {\large \TitleFont \@date}
1362 \fi
1363 \par
1364 \vskip 1.5em}
1365 \fi

```

### 13 File arydshln-xetex-bidi.def

```

1366 \ProvidesFile{arydshln-xetex-bidi.def}[2010/08/01 v0.2 bidi adaptations for arydshln package]
1367 \def\endarray{\adl@endarray \egroup \adl@arrayrestore \if@RTL\begin{array}\endR\egroup\fi\egroup

```



```

1368 \def\endtabular{\endarray $\if@RTLtab\endR\fi\egroup}
1369 \expandafter\let\csname endtabular*\endcsname\endtabular
1370 \let\adl@array\@array
1371 \def\@array{\adl@everyvbox\everyvbox
1372     \everyvbox{\adl@arrayinit \the\adl@everyvbox \everyvbox\adl@everyvbox}%
1373     \ifadl@inactive \adl@inactivate \else \adl@activate \fi
1374     \let\adl@noalign\noalign
1375     \adl@array}
1376 \ifadl@usingarypkg
1377 \def\@testpach{\@chclass
1378 \ifnum \@lastchclass=6 \@ne \@chnum \@ne \else
1379 \ifnum \@lastchclass=7 5 \else
1380 \ifnum \@lastchclass=8 \tw@ \else
1381 \ifnum \@lastchclass=9 \thr@@
1382 \else \z@
1383 \ifnum \@lastchclass = 10 \else
1384 \edef\@nextchar{\expandafter\string\@nextchar}%
1385 \@chnum
1386 \if \@nextchar c\z@ \else
1387 \if \@nextchar \if@RTLtab r\else l\fi\@ne \else
1388 \if \@nextchar \if@RTLtab l\else r\fi\tw@ \else
1389 \z@ \@chclass
1390 \if \@nextchar |\@ne \let\@arrayrule\adl@arrayrule \else
1391 \if \@nextchar : \@ne \let\@arrayrule\adl@arraydashrule \else
1392 \if \@nextchar ; \@ne \let\@arrayrule\adl@argarraydashrule \else
1393 \if \@nextchar !6 \else
1394 \if \@nextchar @7 \else
1395 \if \@nextchar <8 \else
1396 \if \@nextchar >9 \else
1397 10
1398 \@chnum
1399 \if \@nextchar m\thr@@\else
1400 \if \@nextchar p4 \else
1401 \if \@nextchar b5 \else
1402 \z@ \@chclass \z@ \@preamerr \z@ \fi \fi \fi \fi \fi \fi
1403 \fi \fi \fi \fi \fi \fi \fi \fi \fi \fi \fi \fi}
1404
1405 \def\@classz{\@classx
1406     \@tempcnta \count@
1407     \prepnext@tok
1408     \@addtopreamble{\ifcase \@chnum
1409         \hfil
1410         \adl@putlrc{\d@llarbegin \insert@column \d@llarend}\hfil \or
1411         \hskip1sp\adl@putlrc{\d@llarbegin \insert@column \d@llarend}\hfil \or
1412         \hfil\hskip1sp\adl@putlrc{\d@llarbegin \insert@column \d@llarend}\or
1413         \setbox\adl@box\hbox \adl@startmbox{\@nextchar}\insert@column
1414         \adl@endmbox\or
1415         \setbox\adl@box\vtop \@startpbox{\@nextchar}\insert@column \@endpbox \or
1416         \setbox\adl@box\vbox \@startpbox{\@nextchar}\insert@column \@endpbox
1417         \fi}\prepnext@tok}
1418 \def\adl@class@start{4}
1419 \def\adl@class@iiiorvii{7}
1420
1421 \else

```





```

1422 \def\@testpach#1{\@chclass \ifnum \@lastchclass=\tw@ 4\relax \else
1423     \ifnum \@lastchclass=\thr@@ 5\relax \else
1424         \z@ \if #1c\@chnum \z@ \else
1425             \if \if@RTLtab#1r\else#1l\fi\@chnum \@one \else
1426             \if \if@RTLtab#1l\else#1r\fi\@chnum \tw@ \else
1427         \@chclass
1428             \if #1|\@one \let\@arrayrule\adl@arrayrule \else
1429             \if #1:\@one \let\@arrayrule\adl@arraydashrule \else
1430             \if #1;\@one \let\@arrayrule\adl@argarraydashrule \else
1431             \if #1@ \tw@ \else
1432             \if #1p\thr@@ \else \z@ \@preamerr 0\fi
1433     \fi \fi \fi \fi \fi \fi \fi \fi \fi}
1434
1435 \def\@arrayclassz{\ifcase \@lastchclass \@acolampacol \or \@ampacol \or
1436     \or \or \@addamp \or
1437     \@acolampacol \or \@firststampfalse \@acol \fi
1438     \edef\@preamble{\@preamble
1439         \ifcase \@chnum
1440             \hfil\adl@putlrc{\$ \relax \@sharp\$}\hfil
1441             \or \adl@putlrc{\$ \relax \@sharp\$}\hfil
1442             \or \hfil\adl@putlrc{\$ \relax \@sharp\$}\fi}}
1443 \def\@tabclassz{\ifcase \@lastchclass \@acolampacol \or \@ampacol \or
1444     \or \or \@addamp \or
1445     \@acolampacol \or \@firststampfalse \@acol \fi
1446     \edef\@preamble{\@preamble
1447         \ifcase \@chnum
1448             \hfil\adl@putlrc{\@sharp\unskip}\hfil
1449             \or \adl@putlrc{\@sharp\unskip}\hfil
1450             \or \hfil\hskip\z@ \adl@putlrc{\@sharp\unskip}\fi}}
1451 \def\adl@class@start{6}
1452 \def\adl@class@iiiorvii{3}
1453 \fi
1454 \ifpackageloaded{colortbl}{%
1455 \def\adl@inactivate{\adl@org@inactivate \let\CT@setup\adl@CT@setup}
1456 \def\adl@activate{\adl@org@activate \let\CT@setup\adl@act@CT@setup
1457     \let\@endpbox\adl@org@endpbox}
1458 \let\adl@CT@setup\CT@setup
1459 \def\CT@setup{\adl@CT@setup
1460     \@tempdima\ht\z@ \advance\@tempdima\minrowclearance
1461     \ifdim\adl@height<\@tempdima \global\adl@height\@tempdima \fi
1462     \ifdim\adl@depth<\dp\z@ \global\adl@depth\dp\z@\fi}
1463 \let\adl@act@CT@setup\CT@setup
1464 \def\@classz{\@classx
1465     \@tempcnta\count@ \prepnext@tok
1466     \expandafter\CT@extract\the\toks\@tempcnta\columncolor!\@nil
1467     \expandafter\adl@extract@arc\the\toks\@tempcnta\arrayrulecolor!\@nil
1468     \expandafter\adl@extract@drsc
1469         \the\toks\@tempcnta\doublerulesepcolor!\@nil
1470     \expandafter\adl@extract@dgc\the\toks\@tempcnta\dashgapcolor!\@nil
1471     \@addtopreamble{\if@RTL\beginL\fi%
1472         \setbox\z@\hbox\bgroup\bgroup\if@RTL\beginR\fi
1473         \ifcase \@chnum
1474             \hskip\stretch{.5}\kern\z@
1475             \dollarbegin

```



```

1476             \insert@column
1477             \d@llarend\hskip\stretch{.5}%
1478         \or \d@llarbegin \insert@column \d@llarend \hfill
1479         \or \hfill \kern\z@ \d@llarbegin \insert@column \d@llarend
1480         \or $\vcenter
1481             \@startpbox{\@nextchar}\insert@column \@endpbox $%
1482         \or \vtop \@startpbox{\@nextchar}\insert@column \@endpbox
1483         \or \vbox \@startpbox{\@nextchar}\insert@column \@endpbox
1484         \fi
1485     \if@RTL\endR\fi\egroup\egroup
1486     \beginngroup
1487         \CT@setup
1488         \CT@column@color
1489         \CT@row@color
1490         \CT@cell@color
1491         \CT@do@color
1492     \endgroup
1493     \@tempdima\ht\z@
1494     \advance\@tempdima\minrowclearance
1495     \vrule\@height\@tempdima\@width\z@
1496     \unhbox\z@\if@RTL\endL\fi}%
1497     \prepnext@tok}
1498 \let\adl@act@classz\@classz
1499 \let\adl@org@classz\@classz
1500 }{}

```

## 14 File beamer-xetex-bidi.def

```

1501 \ProvidesFile{beamer-xetex-bidi.def}[2022/06/07 v0.3 bidi adaptations for beamer class for Xe
1502 \AtBeginDocument{%
1503     \if@RTLmain
1504         \raggedleft
1505     \else
1506         \raggedright
1507     \fi
1508 }
1509
1510 \renewcommand*{\bidi@beamer@ragged}{%
1511     \if@RTL
1512         \raggedleft
1513     \else
1514         \raggedright
1515     \fi
1516 }
1517
1518

```

## 15 File beamerbaseauxtemplates-xetex-bidi.def

```

1519 \ProvidesFile{beamerbaseauxtemplates-xetex-bidi.def}[2022/06/06 v0.2 bidi adaptations for be
1520 \bidi@csundef{beamer@tmpop@section in toc@circle}
1521
1522 \bidi@csundef{beamer@tmpop@subsection in toc@circle}
1523

```



```

1524 \bidi@csundef{beamer@@tmpop@subsubsection in toc@circle}
1525
1526 \defbeamertemplate{section in toc}{circle}
1527 {\leavevmode\bidi@beamer@leftskip=2ex%
1528 \llap{%
1529 \usebeamerfont*{section number projected}%
1530 \usebeamercolor{section number projected}%
1531 \begin{pgfpicture}{-1ex}{0ex}{1ex}{2ex}
1532 \color{bg}
1533 \pgfpathcircle{\pgfpoint{0pt}{.75ex}}{1.2ex}
1534 \pgfusepath{fill}
1535 \pgftext[base]{\color{fg}\inserttocsectionnumber}
1536 \end{pgfpicture}\kern1.25ex%
1537 }%
1538 \inserttocsection\par}
1539
1540 \defbeamertemplate{subsection in toc}{circle}
1541 {\leavevmode\bidi@beamer@leftskip=2em\inserttocsubsection\par}
1542
1543 \defbeamertemplate{subsubsection in toc}{circle}
1544 {\leavevmode\normalsize\usebeamerfont{subsection in
1545 toc}\bidi@beamer@leftskip=3em\usebeamerfont{subsubsection in toc}%
1546 \inserttocsubsubsection\par}
1547
1548 \bidi@csundef{beamer@@tmpop@section in toc@square}
1549
1550 \bidi@csundef{beamer@@tmpop@subsection in toc@square}
1551
1552 \bidi@csundef{beamer@@tmpop@subsubsection in toc@square}
1553
1554 \bidi@csundef{beamer@@tmpop@enumerate item@square}
1555
1556 \bidi@csundef{beamer@@tmpop@enumerate subitem@square}
1557
1558 \bidi@csundef{beamer@@tmpop@enumerate subsubitem@square}
1559
1560 \bidi@csundef{beamer@@tmpop@enumerate mini template@square}
1561
1562 \defbeamertemplate{section in toc}{square}
1563 {\leavevmode\bidi@beamer@leftskip=1.75ex%
1564 \llap{{%
1565 \usebeamerfont*{section number projected}%
1566 \usebeamercolor[bg]{section number projected}%
1567 \if@RTL
1568 \else
1569 \vrule width2.25ex height1.85ex depth.4ex%
1570 \hskip-2.25ex%
1571 \fi
1572 \hbox to2.25ex{{\hfil\color{fg}\inserttocsectionnumber\hfil}}}%
1573 \if@RTL
1574 \hskip-2.25ex%
1575 \vrule width2.25ex height1.85ex depth.4ex%
1576 \fi
1577 }}%

```



```

1578 \kern1.25ex\inserttocsection\par}
1579
1580 \defbeamertemplate{subsection in toc}{square}
1581 {\leavevmode\bidibeamer@leftskip=5ex\llap{%
1582   \usebeamercolor[bg]{subsection number projected}%
1583   \vrule width1ex height1ex\kern1ex}}\inserttocsubsection\par}
1584
1585 \defbeamertemplate{subsubsection in toc}{square}
1586 {\leavevmode\normalsize\usebeamerfont{subsection in
1587   toc}\bidibeamer@leftskip=7ex\usebeamerfont{subsubsection in toc}%
1588   \llap{%
1589     \usebeamercolor[bg]{subsubsection number projected}%
1590     \vrule width0.75ex height0.75ex\kern1ex}}\inserttocsubsubsection\par}
1591
1592 \defbeamertemplate{enumerate item}{square}
1593 {
1594   \hbox{%
1595     \usebeamerfont*{item projected}%
1596     \usebeamercolor[bg]{item projected}%
1597     \if@RTL
1598     \else
1599       \vrule width2.25ex height1.85ex depth.4ex%
1600       \hskip-2.25ex%
1601     \fi
1602     \hbox to2.25ex{%
1603       \hfil%
1604       \color{fg}\insertenumlabel%
1605       \hfil}}%
1606     \if@RTL
1607       \hskip-2.25ex%
1608       \vrule width2.25ex height1.85ex depth.4ex%
1609     \fi
1610   }%
1611 }
1612 [action]
1613 {\setbeamerfont{item projected}{size=\scriptsize}}
1614
1615 \defbeamertemplate{enumerate subitem}{square}
1616 {
1617   \hbox{%
1618     \usebeamerfont*{subitem projected}%
1619     \usebeamercolor[bg]{subitem projected}%
1620     \if@RTL
1621     \else
1622       \vrule width2.25ex height1.85ex depth.4ex%
1623       \hskip-2.25ex%
1624     \fi
1625     \hbox to2.25ex{%
1626       \hfil%
1627       \color{fg}\insertsubenumlabel%
1628       \hfil}}%
1629     \if@RTL
1630       \hskip-2.25ex%
1631       \vrule width2.25ex height1.85ex depth.4ex%

```



```

1632     \fi
1633   }}%
1634 }
1635
1636 \defbeamertemplate{enumerate subsubitem}{square}
1637 {
1638   \hbox{%
1639     \usebeamerfont*{subitem projected}%
1640     \usebeamercolor[bg]{subsubitem projected}%
1641     \if@RTL
1642     \else
1643       \vrule width2.25ex height1.85ex depth.4ex%
1644       \hskip-2.25ex%
1645     \fi
1646     \hbox to2.25ex{%
1647       \hfil%
1648       \color{fg}\insertsubsubenumlabel%
1649       \hfil}}%
1650     \if@RTL
1651       \hskip-2.25ex%
1652       \vrule width2.25ex height1.85ex depth.4ex%
1653     \fi
1654   }}%
1655 }
1656
1657 \defbeamertemplate{enumerate mini template}{square}
1658 {
1659   \hbox{%
1660     \usebeamerfont*{\beameritemnestingprefix item projected}%
1661     \usebeamercolor[bg]{\beameritemnestingprefix item projected}%
1662     \if@RTL
1663     \else
1664       \vrule width2.25ex height1.85ex depth.4ex%
1665       \hskip-2.25ex%
1666     \fi
1667     \hbox to2.25ex{%
1668       \hfil%
1669       \color{fg}\insertenumlabel%
1670       \hfil}}%
1671     \if@RTL
1672       \hskip-2.25ex%
1673       \vrule width2.25ex height1.85ex depth.4ex%
1674     \fi
1675   }}%
1676 }
1677
1678 \bidi@csundef{beamer@@tmpop@section in toc@ball}
1679
1680 \bidi@csundef{beamer@@tmpop@subsection in toc@ball}
1681
1682 \bidi@csundef{beamer@@tmpop@subsubsection in toc@ball}
1683
1684 \defbeamertemplate{section in toc}{ball}
1685 {\leavevmode\bidi@beamer@leftskip=2.75ex%

```



```

1686 \llap{%
1687   \normalsize%
1688   \begin{pgfpicture}{-1ex}{-0.7ex}{1ex}{1ex}
1689     \pgftext{\beamer@usesphere{section number projected}{tocsphere}}
1690     \pgftext{%
1691       \usebeamerfont*{section number projected}%
1692       \usebeamerfont*{section number projected}%
1693       \color{fg!90!bg}%
1694       \inserttocsectionnumber}
1695   \end{pgfpicture}%
1696   \kern1.25ex}%
1697 \inserttocsection\par
1698 }
1699 [action]
1700 {\setbeamerfont{section number projected}{size=\scriptsize}}
1701
1702 \defbeamertemplate{subsection in toc}{ball}
1703 {\leavevmode\bidibeamer@leftskip=5ex%
1704   \llap{\raise0.1ex\beamer@usesphere{subsection number projected}{bigsphere}\kern1ex}%
1705   \inserttocsubsection\par%
1706 }
1707
1708 \defbeamertemplate{subsubsection in toc}{ball}
1709 {\leavevmode\normalsize\usebeamerfont{subsection in
1710   toc}\bidibeamer@leftskip=7ex\usebeamerfont{subsubsection in toc}%
1711   \llap{\beamer@usesphere{subsubsection number projected}{bigsphere}\kern0.75ex}%
1712   \inserttocsubsubsection\par%
1713 }
1714
1715 \bidicsundef{beamer@@tmpop@block begin@rounded}
1716
1717 \bidicsundef{beamer@@tmpop@block alerted begin@rounded}
1718
1719 \bidicsundef{beamer@@tmpop@block example begin@rounded}
1720
1721 \defbeamertemplate{block begin}{rounded}[1][shadow=false]
1722 {%
1723   \par\vskip\medskipamount%
1724   \begin{beamerboxesrounded}[upper=block title,lower=block body,#1]%
1725     {\raggedright\usebeamerfont*{block title}\insertblocktitle}%
1726     \bidibeamer@ragged%
1727     \usebeamerfont{block body}%
1728   }
1729
1730 \defbeamertemplate{block alerted begin}{rounded}[1][shadow=false]
1731 {%
1732   \par\vskip\medskipamount%
1733   \begin{beamerboxesrounded}[upper=block title alerted,lower=block body alerted,#1]%
1734     {\raggedright\usebeamerfont*{block title alerted}\insertblocktitle}%
1735     \bidibeamer@ragged%
1736     \usebeamerfont{block body alerted}%
1737   }%
1738
1739 \defbeamertemplate{block example begin}{rounded}[1][shadow=false]

```



```

1740 {%
1741   \par\vskip\medskipamount%
1742   \begin{beamerboxesrounded}[upper=block title example,lower=block body example,#1]
1743     {\raggedright\usebeamerfont*{block title example}\insertblocktitle}%
1744     \bidi@beamer@ragged%
1745     \usebeamerfont{block body example}%
1746 }%
1747

```

## 16 File beamerbaseboxes-xetex-bidi.def

```

1748 \ProvidesFile{beamerbaseboxes-xetex-bidi.def}[2022/06/01 v0.1 bidi adaptations for beamerbas
1749 \renewcommand\beamerboxesrounded[2] [] {%
1750   \global\let\beamer@firstlineitemizeunskip=\relax%
1751   \vbox\bgroup%
1752   \setkeys{beamerboxes}{upper=block title,lower=block body,width=\textwidth,shadow=false}%
1753   \setkeys{beamerboxes}{#1}%
1754   {%
1755     \usebeamercolor{\bmb@lower}%
1756     \globalcolorstrue%
1757     \colorlet{lower.bg}{bg}%
1758   }%
1759   {%
1760     \usebeamercolor{\bmb@upper}%
1761     \globalcolorstrue%
1762     \colorlet{upper.bg}{bg}%
1763   }%
1764   %
1765   % Typeset head
1766   %
1767   \vskip4bp
1768   \setbox\bmb@box=\hbox{%
1769     \begin{minipage}[b]{\bmb@width}%
1770       \usebeamercolor{fg}{\bmb@upper}%
1771       #2%
1772     \end{minipage}}%
1773   \ifdim\wd\bmb@box=0pt%
1774     \setbox\bmb@box=\hbox{%
1775       \ht\bmb@box=1.5pt%
1776       \bmb@prevheight=-4.5pt%
1777     \else%
1778       \wd\bmb@box=\bmb@width%
1779       \bmb@temp=\dp\bmb@box%
1780       \ifdim\bmb@temp<1.5pt%
1781         \bmb@temp=1.5pt%
1782       \fi%
1783       \setbox\bmb@box=\hbox{\raise\bmb@temp\hbox{\box\bmb@box}}%
1784       \dp\bmb@box=0pt%
1785       \bmb@prevheight=\ht\bmb@box%
1786     \fi%
1787     \bmb@temp=\bmb@width%
1788     \bmb@dima=\bmb@temp\advance\bmb@dima by2.2bp%
1789     \bmb@dimb=\bmb@temp\advance\bmb@dimb by4bp%
1790     \hbox{%

```



```

1791 \begin{pgfpicture}{0bp}{+-\ht\bmb@box}{0bp}{+-\ht\bmb@box}
1792 \ifdim\wd\bmb@box=0pt%
1793 \color{lower.bg}%
1794 \else%
1795 \color{upper.bg}%
1796 \fi%
1797 \pgfpathqmoveto{-4bp}{-1bp}
1798 \pgfpathqcurveto{-4bp}{1.2bp}{-2.2bp}{3bp}{0bp}{3bp}
1799 \pgfpathlineto{\pgfpoint{\bmb@temp}{3bp}}
1800 \pgfpathcurveto%
1801 {\pgfpoint{\bmb@dima}{3bp}}%
1802 {\pgfpoint{\bmb@dimb}{1.2bp}}%
1803 {\pgfpoint{\bmb@dimb}{-1bp}}%
1804 \bmb@dima=-\ht\bmb@box%
1805 \advance\bmb@dima by-2pt%
1806 \pgfpathlineto{\pgfpoint{\bmb@dimb}{\bmb@dima}}
1807 \pgfpathlineto{\pgfpoint{-4bp}{\bmb@dima}}
1808 \pgfusepath{fill}
1809 \end{pgfpicture}%
1810 \copy\bmb@box%
1811 }%
1812 \nointerlineskip%
1813 \vskip-1pt%
1814 \ifdim\wd\bmb@box=0pt%
1815 \else%
1816 \hbox{%
1817 \begin{pgfpicture}{0pt}{0pt}{\bmb@width}{6pt}
1818 \bmb@dima=\bmb@width%
1819 \advance\bmb@dima by8bp%
1820 \pgfpathrectangle{\pgfpoint{-4bp}{-1bp}}{\pgfpoint{\bmb@dima}{8bp}}
1821 \pgfusepath{clip}
1822 {\pgftransformshift{\pgfpoint{-4bp}{0bp}}\pgftext[left,base]{\pgfuses shading{\bmb@transi
1823 \end{pgfpicture}%
1824 }%
1825 \nointerlineskip%
1826 \vskip-0.5pt%
1827 \fi%
1828 \setbox\bmb@colorbox=\hbox{\pgfpicturetrue\pgfsetcolor{lower.bg}}}%
1829 \setbox\bmb@box=\hbox\bgroup\begin{minipage}[b]{\bmb@width}%
1830 \vskip2pt%
1831 \usebeamercolor[fg]{\bmb@lower}%
1832 \colorlet{beamerstructure}{upper.bg}%
1833 \colorlet{structure}{upper.bg}%
1834 %\color{.}%
1835 \@bidi@list@minipage@parboxfalse
1836 }
1837
1838 \bidi@patchcmd{\endbeamerboxesrounded}{\begingroup}{%
1839 \begingroup
1840 \@RTLfalse
1841 }{}{}
1842
1843

```





## 17 File beamerbasecolor-xetex-bidi.def

```
1844 \ProvidesFile{beamerbasecolor-xetex-bidi.def}[2022/06/07 v0.2 bidi adaptations for beamerbas
1845 \renewenvironment{beamercolorbox}[2][]{%
1846   \def\beamer@vmode{\leavevmode}%
1847   \setkeys{beamercolbox}{wd=\textwidth,ht={},dp={},%
1848     leftskip=0pt,rightskip=0pt plus1fil,%
1849     sep=0pt,colsep=0pt,colsep*=0pt,%
1850     shadow=false,rounded=false,ignorebg=false}%
1851   \if@RTL
1852     \setkeys{beamercolbox}{rightskip=0pt,leftskip=0pt plus1fil}%
1853   \else
1854     \setkeys{beamercolbox}{leftskip=0pt,rightskip=0pt plus1fil}%
1855   \fi
1856   \setkeys{beamercolbox}{#1}%
1857   \ifbeamercoloreempty[bg]{#2}{\@tempswafalse}{\@tempswatruetrue}%
1858   \ifbeamer@colbox@ignorebg\@tempswafalse\fi%
1859   \def\beamer@colbox@color{#2}%
1860   \setbox\beamer@tempbox=\hbox\bgroup\color@begingroup
1861     \ifbeamer@colbox@ignorebg%
1862       \colorlet{beamer@temp@color}{bg}%
1863       \usebeamercolor[fg]{#2}%
1864       \colorlet{bg}{beamer@temp@color}%
1865     \else%
1866       \usebeamercolor[fg]{#2}%
1867     \fi%
1868     \beginL
1869     \vbox\bgroup%
1870     \hsize=\beamer@colbox@wd%
1871     \@arrayparboxrestore%
1872     \leftskip=\beamer@colbox@ls%
1873     \ifdim\beamer@colbox@sep>\z@\advance\leftskip\beamer@colbox@sep\fi%
1874     \rightskip=\beamer@colbox@rs%
1875     \ifdim\beamer@colbox@sep>\z@\advance\rightskip\beamer@colbox@sep\fi%
1876     \if@tempswa\ifdim\beamer@colbox@colsep>\z@%
1877       \advance\leftskip by\beamer@colbox@colsep%
1878       \advance\rightskip by\beamer@colbox@colsep%
1879       \vskip\beamer@colbox@colsep%
1880     \fi%
1881     \ifdim\beamer@colbox@colseps>\z@\vskip\beamer@colbox@colseps\fi%
1882     \fi%
1883     \ifdim\beamer@colbox@sep>\z@\vskip\beamer@colbox@sep\fi%
1884     \beamer@vmode\ignorespaces}%
1885     \ifdim\beamer@colbox@sep>\z@\vskip\beamer@colbox@sep\fi%
1886     \if@tempswa
1887       \ifdim\beamer@colbox@colsep>\z@\vskip\beamer@colbox@colsep\fi%
1888       \ifdim\beamer@colbox@colseps>\z@\vskip\beamer@colbox@colseps\fi%
1889     \fi%
1890   \egroup\endL\color@endgroup\egroup%
1891   \wd\beamer@tempbox=\beamer@colbox@wd%
1892   \ifx\beamer@colbox@ht\empty\else\ht\beamer@tempbox=\beamer@colbox@ht\fi%
1893   \ifx\beamer@colbox@dp\empty\else\dp\beamer@tempbox=\beamer@colbox@dp\fi%
1894   \ifbeamer@colbox@rounded%
1895     \if@tempswa%
```



```

1896 \begin{beamerboxesrounded}[%
1897   shadow=\beamer@colbox@shadow,%
1898   lower=\beamer@colbox@color,%
1899   upper=normal text,%
1900   width=\beamer@colbox@wd]{}%
1901   \box\beamer@tempbox%
1902 \end{beamerboxesrounded}%
1903 \else%
1904   \ifdim\wd\beamer@tempbox>\textwidth%
1905     \setbox\beamer@tempbox=\hbox to\textwidth{\hss\box\beamer@tempbox\hss}%
1906   \fi%
1907   \box\beamer@tempbox%
1908   \fi%
1909 \else%
1910   \if@tempswa\setbox\beamer@tempbox=\hbox{%
1911     \usebeamercolor{\beamer@colbox@color}%
1912     \hskip-\beamer@colbox@colseps%
1913     \fboxsep=\z@\colorbox{bg}{}%
1914     \hskip\beamer@colbox@colseps%
1915     \box\beamer@tempbox%
1916     \hskip\beamer@colbox@colseps%
1917   }%
1918   \hskip-\beamer@colbox@colseps%
1919   }\fi%
1920   \ifdim\wd\beamer@tempbox>\textwidth%
1921     \setbox\beamer@tempbox=\hbox to\textwidth{\hskip0pt minus\beamer@leftmargin\relax\box\beamer@tempbox}%
1922   \fi%
1923   \box\beamer@tempbox%
1924   \fi%
1925 }
1926
1927

```

## 18 File beamerbasecompatibility-xetex-bidi.def

```

1928 \ProvidesFile{beamerbasecompatibility-xetex-bidi.def}[2022/06/27 v0.1 bidi adaptations for b
1929 \def\insertvrule#1#2{\hbox{{\color{#2}\hskip-\Gm@lmargin\vrule width \paperwidth height #1\h
1930
1931

```

## 19 File beamerbaseframecomponents-xetex-bidi.def

```

1932 \ProvidesFile{beamerbaseframecomponents-xetex-bidi.def}[2022/06/13 v0.4 bidi adaptations for
1933 \renewcommand{\setbeamer size}[1]{%
1934   \beamer@dogeometryfalse%
1935   \setkeys{beamer@margin}{#1}%
1936   \ifbeamer@dogeometry%
1937     % Reset left margin now
1938     \beamer@tempdim=\beamer@leftmargin%
1939     \advance\beamer@tempdim by\beamer@leftsidebar%
1940     \if@RTLmain
1941       \geometry{right=\the\beamer@tempdim}%
1942     \else
1943       \geometry{left=\the\beamer@tempdim}%

```



```

1944 \fi
1945 % Reset right margin now
1946 \beamer@tempdim=\beamer@rightmargin%
1947 \advance\beamer@tempdim by\beamer@rightsidebar%
1948 \if@RTLmain
1949 \geometry{left=\the\beamer@tempdim}%
1950 \else
1951 \geometry{right=\the\beamer@tempdim}%
1952 \fi
1953 \fi%
1954 }
1955
1956 \newcommand*{\bidi@beamer@Gm@lmargin}{%
1957 \if@RTLmain
1958 \Gm@rmargin
1959 \else
1960 \Gm@lmargin
1961 \fi
1962 }
1963
1964 \newcommand*{\bidi@beamer@Gm@rmargin}{%
1965 \if@RTLmain
1966 \Gm@lmargin
1967 \else
1968 \Gm@rmargin
1969 \fi
1970 }
1971
1972 \def\ps@navigation{
1973 \def\@oddhead{%
1974 \begingroup%
1975 \setbox\beamer@tempbox=\hbox{\usebeamertemplate***{background canvas}\hyper@pagetransition}%
1976 \beamer@tempdim=\ht\beamer@tempbox%
1977 \setbox\beamer@tempbox=\hbox{\lower\beamer@tempdim\hbox{\box\beamer@tempbox}}%
1978 \wd\beamer@tempbox=0pt\ht\beamer@tempbox=0pt\dp\beamer@tempbox=0pt%
1979 \setbox\@tempboxa=\hbox{\usebeamertemplate***{background}}%
1980 \beamer@tempdim=\ht\@tempboxa%
1981 \setbox\@tempboxa=\hbox{\lower\beamer@tempdim\hbox{\box\@tempboxa}}%
1982 \wd\@tempboxa=0pt\ht\@tempboxa=0pt\dp\@tempboxa=0pt%
1983 \vbox{\hbox{\hskip-\bidi@beamer@Gm@lmargin\box\beamer@tempbox\box\@tempboxa}%
1984 \hbox{%
1985 {%
1986 \setbox\beamer@tempbox=\hbox{\hskip-\bidi@beamer@Gm@lmargin%
1987 \if@RTLmain
1988 {%
1989 \vbox to \sidebarheight{%
1990 \usebeamertemplate***{sidebar left}%
1991 \vfil%
1992 }%
1993 \ifpackageloaded{beamerinnerthemeinmargin}{}%
1994 \hskip-\textwidth
1995 }%
1996 \fi
1997 {\setbox\beamer@tempbox=\hbox{\vbox to \sidebarheight{%

```



```

1998         \usebeamercolor*{sidebar left}%
1999         \usebeamertemplate{sidebar canvas left}%
2000         \vss%
2001     }}%
2002     \wd\beamer@tempbox=0pt\ht\beamer@tempbox=0pt\dp\beamer@tempbox=0pt%
2003     \box\beamer@tempbox}%
2004     \if@RTLmain
2005     \else
2006     {%
2007         \vbox to \sidebarheight{%
2008             \usebeamertemplate***{sidebar left}%
2009             \vfil%
2010         }}\fi}%
2011     \beamer@tempdim=\ht\beamer@tempbox%
2012     \setbox\beamer@tempbox=\hbox{{\lower\beamer@tempdim\hbox{\box\beamer@tempbox}}}%
2013     \wd\beamer@tempbox=0pt\ht\beamer@tempbox=0pt\dp\beamer@tempbox=0pt%
2014     \box\beamer@tempbox%
2015 }%
2016 {% print right sidebar first, since it should be overwritten by headline
2017     \setbox\beamer@tempbox=\hbox{\hskip\textwidth\hskip\beamer@rightmargin%
2018     \if@RTLmain
2019         {%
2020             \vbox to \sidebarheight{%
2021                 \usebeamertemplate***{sidebar right}%
2022                 \vfil%
2023             }}%
2024             \hskip-\textwidth
2025             \fi
2026             {\setbox\beamer@tempbox=\hbox{\vbox to \sidebarheight{%
2027                 \usebeamercolor*{sidebar right}%
2028                 \usebeamertemplate{sidebar canvas right}%
2029                 \vss%
2030             }}%
2031             \wd\beamer@tempbox=0pt\ht\beamer@tempbox=0pt\dp\beamer@tempbox=0pt%
2032             \box\beamer@tempbox}%
2033             \if@RTLmain
2034             \else
2035             {%
2036                 \vbox to \sidebarheight{%
2037                     \usebeamertemplate***{sidebar right}%
2038                     \vfil%
2039                 }}\fi}%
2040             \beamer@tempdim=\ht\beamer@tempbox%
2041             \setbox\beamer@tempbox=\hbox{{\lower\beamer@tempdim\hbox{\box\beamer@tempbox}}}%
2042             \wd\beamer@tempbox=0pt\ht\beamer@tempbox=0pt\dp\beamer@tempbox=0pt%
2043             \box\beamer@tempbox%
2044         }}%
2045         \beamer@typesetheadorfoot{headline}%
2046     }%
2047     \hfil}%
2048 \endgroup}
2049 \def\@oddfoot{%
2050     \vbox{\offinterlineskip\hbox{\beamer@typesetheadorfoot{footline}%
2051     \hfil}\hbox{}}\hfil

```



```

2052 }%
2053 \let\@evenhead\@oddhead
2054 \let\@evenfoot\@oddfoot}
2055
2056 \AtBeginDocument{%
2057   \pagestyle{navigation}%
2058 }
2059
2060 \def\beamer@typesetheadorfoot#1{% typeset the head or footline
2061   {\parskip0pt\offinterlineskip%
2062     \hbox{%
2063       \hskip-\bidi@beamer@Gm@lmargin%
2064       \hbox{%
2065         \vbox{%
2066           \@tempdima=\textwidth%
2067           \textwidth=\paperwidth%
2068           \hsize=\textwidth%
2069           \def\{,%
2070             \usebeamertemplate***{#1}%
2071           }%
2072           \hskip-\bidi@beamer@Gm@rmargin%
2073         }\hfil%
2074       }
2075     }
2076 \def\ps@empty{%
2077   \let\@mkboth\@gobbletwo%
2078   \def\@oddhead{\begingroup%
2079     \setbox\beamer@tempbox=\hbox{\usebeamertemplate***{background canvas}\hyper@pagetransiti
2080     \beamer@tempdim=\ht\beamer@tempbox%
2081     \setbox\beamer@tempbox=\hbox{\lower\beamer@tempdim\hbox{\box\beamer@tempbox}}%
2082     \wd\beamer@tempbox=0pt\ht\beamer@tempbox=0pt\dp\beamer@tempbox=0pt%
2083     \setbox\@tempboxa=\hbox{\usebeamertemplate***{background}}%
2084     \beamer@tempdim=\ht\@tempboxa%
2085     \setbox\@tempboxa=\hbox{\lower\beamer@tempdim\hbox{\box\@tempboxa}}%
2086     \wd\@tempboxa=0pt\ht\@tempboxa=0pt\dp\@tempboxa=0pt%
2087     \vbox{\hbox{\hskip-\Gm@lmargin\raise\headheight\box\beamer@tempbox\raise\headheight\box
2088     \endgroup%
2089   }
2090   \def\@oddfoot{\normalcolor\hfil%
2091     \setbox\beamer@tempbox=\hbox{\usebeamertemplate***{navigation symbols}\hskip-\Gm@rmargin
2092     \ht\beamer@tempbox=0pt%
2093     \dp\beamer@tempbox=0pt%
2094     \box\beamer@tempbox}}
2095   \let\@evenhead\@oddhead\let\@evenfoot\@oddfoot}
2096
2097 \renewcommand<>\beamer@columncom[2][\beamer@colmode]{%
2098   \beamer@colclose%
2099   \def\beamer@colclose{\end{minipage}\hfill\end{actionenv}\ignorespaces}%
2100 \begin{actionenv}#3%
2101   \setkeys{beamer@col}{#1}%
2102   \begin{minipage}[\beamer@colalign]{#2}%
2103     \leavevmode\bidi@beamer@ragged\beamer@colheadskip\ignorespaces}
2104
2105 \renewenvironment<>{columns}[1][]{%

```



```

2106 \begin{actionenv}#2%
2107 \ifbeamer@onlytextwidth
2108   \def\beamer@colentrycode{\hbox to\textwidth\bgroup\ignorespaces}%
2109   \def\beamer@colexitcode{\unskip\egroup}
2110 \else%
2111   \def\beamer@colentrycode{%
2112     \hbox to\textwidth\bgroup%
2113     \leavevmode%
2114     \hskip-\beamer@leftmargin%
2115     \nobreak%
2116     \beamer@tempdim=\textwidth%
2117     \advance\beamer@tempdim by\beamer@leftmargin%
2118     \advance\beamer@tempdim by\beamer@rightmargin%
2119     \hbox to\beamer@tempdim\bgroup%
2120     \hbox{}\hfill\ignorespaces}%
2121   \def\beamer@colexitcode{\egroup%
2122     \nobreak%
2123     \hskip-\beamer@rightmargin\egroup}%
2124 \fi%
2125 \ifbeamer@centered\setkeys{beamer@col}{c}\else\setkeys{beamer@col}{t}\fi%
2126 \setkeys{beamer@col}{#1}%
2127 \par%
2128 \leavevmode
2129 \beamer@colentrycode%
2130 \def\beamer@colclose{}\ignorespaces}%
2131 {\beamer@colclose\def\beamer@colclose{}\beamer@colexitcode\end{actionenv}}%
2132
2133
2134 \def\@makeRTLftntext#1{%
2135   \def\insertfootnotetext{#1}%
2136   \def\insertfootnotemark{\@makefnmark}%
2137   \usebeamertemplate***{RTLfootnote}}
2138
2139 \def\@makeLTRftntext#1{%
2140   \def\insertfootnotetext{#1}%
2141   \def\insertfootnotemark{\@makefnmark}%
2142   \usebeamertemplate***{LTRfootnote}}
2143
2144 \renewcommand<>\beamer@framefootnotetext[1]{%
2145   \global\setbox\beamer@footins\vbox{%
2146     \ifRTL@footnote\@RTLtrue\else\@RTLfalse\fi%
2147     \hsize\framewidth
2148     \textwidth\hsize
2149     \columnwidth\hsize
2150     \unvbox\beamer@footins
2151     \reset@font
2152     \bidi@@footnotetext@font
2153     \@parboxrestore
2154     \protected@edef\@currentlabel
2155       {\csname p@footnote\endcsname\@thefnmark}%
2156     \color@begingroup
2157     \uncover#2{\@makefntext{%
2158       \rule{z@footnotesep\ignorespaces#1\@finalstrut\strutbox}}}%
2159     \color@endgroup}}

```



```

2160
2161 \renewcommand<>\beamer@frameRTLfootnotetext[1]{%
2162   \global\setbox\beamer@footins\vbox{%
2163     \RTLtrue
2164     \hsize\framewidth
2165     \textwidth\hsize
2166     \columnwidth\hsize
2167     \unvbox\beamer@footins
2168     \reset@font
2169     \bidi@@RTLfootnotetext@font
2170     \@parboxrestore
2171     \protected@edef\@currentlabel
2172       {\csname p@footnote\endcsname\@thefnmark}%
2173     \color@begingroup
2174       \uncover#2{\@makeRTLfnstext{%
2175         \rule\z@\footnotesep\ignorespaces#1\@finalstrut\strutbox}}%
2176     \color@endgroup}}
2177
2178 \renewcommand<>\beamer@frameLTRfootnotetext[1]{%
2179   \global\setbox\beamer@footins\vbox{%
2180     \RTLfalse
2181     \hsize\framewidth
2182     \textwidth\hsize
2183     \columnwidth\hsize
2184     \unvbox\beamer@footins
2185     \reset@font
2186     \bidi@@LTRfootnotetext@font
2187     \@parboxrestore
2188     \protected@edef\@currentlabel
2189       {\csname p@footnote\endcsname\@thefnmark}%
2190     \color@begingroup
2191       \uncover#2{\@makeLTRfnstext{%
2192         \rule\z@\footnotesep\ignorespaces#1\@finalstrut\strutbox}}%
2193     \color@endgroup}}
2194
2195 \renewcommand<>\@mpfootnotetext[1]{%
2196   \ifbidi@autofootnoterule\ifnum\c@mpfootnote=\@ne\if@RTL@footnote\global\let\bidi@mpfootnoterule\right@footnoterule
2197   \global\setbox\@mpfootins\vbox{%
2198     \if@RTL@footnote\RTLtrue\else\RTLfalse\fi
2199     \unvbox\@mpfootins
2200     \reset@font
2201     \bidi@@footnotetext@font
2202     \hsize\columnwidth
2203     \@parboxrestore
2204     \protected@edef\@currentlabel
2205       {\csname p@mpfootnote\endcsname\@thefnmark}%
2206     \color@begingroup
2207       \uncover#2{\@makefnstext{%
2208         \rule\z@\footnotesep\ignorespaces#1\@finalstrut\strutbox}}%
2209     \color@endgroup}}
2210
2211 \renewcommand<>\@mpRTLfootnotetext[1]{%
2212   \ifbidi@autofootnoterule\ifnum\c@mpfootnote=\@ne\global\let\bidi@mpfootnoterule\right@footnoterule
2213   \global\setbox\@mpfootins\vbox{%

```



```

2214 \RTLtrue
2215 \unvbox\@mpfootins
2216 \reset@font
2217 \bidi@RTLfootnotetext@font
2218 \hsize\columnwidth
2219 \@parboxrestore
2220 \protected@edef\@currentlabel
2221 {\csname p@mpfootnote\endcsname\@thefnmark}%
2222 \color@begingroup
2223 \uncover#2{\@makeRTLfnstext{%
2224 \rule\z@\footnotesep\ignorespaces#1\@finalstrut\strutbox}}%
2225 \color@endgroup}}
2226
2227 \renewcommand<>\@mpLTRfootnotetext[1]{%
2228 \ifbidi@autofooterule\ifnum\c@mpfootnote=\@ne\global\let\bidi@mpfootnoterule\left@footnot
2229 \global\setbox\@mpfootins\vbox{%
2230 \RTLfalse
2231 \unvbox\@mpfootins
2232 \reset@font
2233 \bidi@LTRfootnotetext@font
2234 \hsize\columnwidth
2235 \@parboxrestore
2236 \protected@edef\@currentlabel
2237 {\csname p@mpfootnote\endcsname\@thefnmark}%
2238 \color@begingroup
2239 \uncover#2{\@makeLTRfnstext{%
2240 \rule\z@\footnotesep\ignorespaces#1\@finalstrut\strutbox}}%
2241 \color@endgroup}}
2242
2243 \let\@footnotetext=\beamer@framefootnotetext
2244 \let\@RTLfootnotetext=\beamer@frameRTLfootnotetext
2245 \let\@LTRfootnotetext=\beamer@frameLTRfootnotetext
2246
2247 \footdir@temp\footdir@ORG@bidi@beamer@footnotetext\@footnotetext{\bidi@footdir@footnote}%
2248 \footdir@temp\footdir@ORG@bidi@beamer@RTLfootnotetext\@RTLfootnotetext{R}%
2249 \footdir@temp\footdir@ORG@bidi@beamer@LTRfootnotetext\@LTRfootnotetext{L}%
2250
2251 \renewcommand<>{\footnote}[1][ ]{%
2252 \let\beamer@footnotetext=\@footnotetext%
2253 \let\beamer@mpfn=\@mpfn%
2254 \let\beamer@thempfn=\thempfn%
2255 \let\beamer@kvorig=\KV@errx%
2256 \let\beamer@xkvorig=\XKV@err
2257 \def\beamer@footarg{}%
2258 \def\KV@errx##1{\edef\beamer@footarg{\@tempa}}%
2259 \def\XKV@err##1{\edef\beamer@footarg{\XKV@tkey}}%
2260 \setkeys{beamerfootnote}{#1}%
2261 \let\KV@errx=\beamer@kvorig%
2262 \let\XKV@errx=\beamer@xkvorig%
2263 \ifx\beamer@footarg\@empty%
2264 \def\beamer@next{\stepcounter\beamer@mpfn
2265 \protected@xdef\@thefnmark{\beamer@thempfn}%
2266 \@footnotemark\beamer@footnotetext#2}%
2267 \else%

```





```

2268 \def\beamer@next{%
2269 \begingroup
2270 \csname c@\beamer@mpfn\endcsname\beamer@footarg\relax
2271 \unrestored@protected@xdef\@thefnmark{\beamer@thempfn}%
2272 \endgroup
2273 \@footnotemark\beamer@footnotetext#2}%
2274 \fi%
2275 \beamer@next}
2276
2277 \renewcommand<>{\RTLfootnote}[1] [] {%
2278 \let\beamer@RTLfootnotetext=\@RTLfootnotetext%
2279 \let\beamer@mpfn=\@mpfn%
2280 \let\beamer@thempfn=\thempfn%
2281 \let\beamer@kvorig=\KV@errx%
2282 \let\beamer@xkvorig=\XKV@err
2283 \def\beamer@footarg{%
2284 \def\KV@errx##1{\edef\beamer@footarg{\@tempa}}%
2285 \def\XKV@err##1{\edef\beamer@footarg{\XKV@tkey}}}%
2286 \setkeys{beamerfootnote}{#1}%
2287 \let\KV@errx=\beamer@kvorig%
2288 \let\XKV@errx=\beamer@xkvorig
2289 \ifx\beamer@footarg\@empty%
2290 \def\beamer@next{\stepcounter\beamer@mpfn
2291 \protected@xdef\@thefnmark{\beamer@thempfn}%
2292 \@footnotemark\beamer@RTLfootnotetext#2}%
2293 \else%
2294 \def\beamer@next{%
2295 \begingroup
2296 \csname c@\beamer@mpfn\endcsname\beamer@footarg\relax
2297 \unrestored@protected@xdef\@thefnmark{\beamer@thempfn}%
2298 \endgroup
2299 \@footnotemark\beamer@RTLfootnotetext#2}%
2300 \fi%
2301 \beamer@next}
2302
2303 \renewcommand<>{\LTRfootnote}[1] [] {%
2304 \let\beamer@LTRfootnotetext=\@LTRfootnotetext%
2305 \let\beamer@mpfn=\@mpfn%
2306 \let\beamer@thempfn=\thempfn%
2307 \let\beamer@kvorig=\KV@errx%
2308 \let\beamer@xkvorig=\XKV@err
2309 \def\beamer@footarg{%
2310 \def\KV@errx##1{\edef\beamer@footarg{\@tempa}}%
2311 \def\XKV@err##1{\edef\beamer@footarg{\XKV@tkey}}}%
2312 \setkeys{beamerfootnote}{#1}%
2313 \let\KV@errx=\beamer@kvorig%
2314 \let\XKV@errx=\beamer@xkvorig
2315 \ifx\beamer@footarg\@empty%
2316 \def\beamer@next{\stepcounter\beamer@mpfn
2317 \protected@xdef\@thefnmark{\beamer@thempfn}%
2318 \@footnotemark\beamer@LTRfootnotetext#2}%
2319 \else%
2320 \def\beamer@next{%
2321 \begingroup

```



```

2322         \csname c@\beamer@mpfn\endcsname\beamer@footarg\relax
2323         \unrestored@protected@xdef\@thefnmark{\beamer@thempfn}%
2324     \endgroup
2325     \@footnotemark\beamer@LTRfootnotetext#2}%
2326 \fi%
2327 \beamer@next}
2328
2329

```

## 20 File beamerbaseframesize-xetex-bidi.def

```

2330 \ProvidesFile{beamerbaseframesize-xetex-bidi.def}[2022/06/27 v0.1 bidi adaptations for beamer]
2331 \def\beamer@framezoom<#1><#2>[#3](#4,#5)(#6,#7){%
2332     \par\nointerlineskip%
2333     \global\beamer@slidehaszoomtrue%
2334     \advance\beamer@zoomcount by1\relax%
2335     \def\beamer@zoomborderwidth{0}%
2336     \edef\beamer@labelzoomed{\beamer@labelzoomed@the\beamer@zoomframecount @the\beamer@zoomcount}%
2337     \setkeys{beamerzoom}{#3}%
2338     \only<#1>{%
2339         {\hypersetup{pdfhighlight={/P},pdfborder={0 0 \beamer@zoomborderwidth}}}%
2340         \global\setbox\@tempboxa=\vbox{\hyperlink{\beamer@labelzoomed}{%
2341             \expandafter\ifx\csname XeTeXrevision\endcsname\relax
2342                 \vbox to #7{%
2343                     \hbox to#6{\hfil}%
2344                     \vfil%
2345                 }%
2346             \else%
2347                 \begingroup%
2348                 \normalsize%
2349                 \begin{pgfpicture}{0pt}{0pt}{#6}{#7}%
2350                     \pgfsetfillopacity{0}
2351                     \pgftext[x=0cm,y=3pt]{.}
2352                     \pgftext[x=#6,y=\dimexpr#7-\baselineskip+3pt]{.}
2353                 \end{pgfpicture}%
2354                 \endgroup%
2355             \fi}%
2356         }}%
2357     \ht\@tempboxa=0pt%
2358     \wd\@tempboxa=0pt%
2359     \dp\@tempboxa=0pt%
2360     \setbox\@tempboxa=\vbox{\if@RTL\moveleft\else\moveright\fi#4\hbox{\lower#5\vbox{\box\@tempboxa}%
2361         \ht\@tempboxa=0pt%
2362         \wd\@tempboxa=0pt%
2363         \dp\@tempboxa=0pt%
2364         \global\setbox\beamer@zoombox=\vbox to0pt{\unvbox\beamer@zoombox\box\@tempboxa}%
2365     }%
2366     \only<#2>{%
2367         \@ifundefined{\beamer@labelzoomed}%
2368         {%
2369             \hypertarget{\beamer@labelzoomed}{}%
2370             \expandafter\gdef\csname\beamer@labelzoomed\endcsname{}%
2371         }{}%
2372         \gdef\beamer@zoomer{%

```



```

2373 % compute zoom factor
2374 \@tempdima=\beamer@frametextheight%
2375 \@tempdimb=#7\relax%
2376 \@tempcnta=\@tempdimb%
2377 \divide\@tempcnta by4096\relax%
2378 \multiply\@tempdima by16\relax%
2379 \divide\@tempdima by\@tempcnta%
2380 \@tempdimb=\paperwidth%
2381 \ifbeamer@plainframe%
2382 \else%
2383   \advance\@tempdimb by-\beamer@leftsidebar%
2384   \advance\@tempdimb by-\beamer@rightsidebar\relax%
2385 \fi%
2386 \@tempdimc=#6\relax%
2387 \@tempcntb=\@tempdimc%
2388 \divide\@tempcntb by4096\relax%
2389 \multiply\@tempdimb by16\relax%
2390 \divide\@tempdimb by\@tempcntb%
2391 \ifdim\@tempdimb<\@tempdima%
2392   \@tempdima=\@tempdimb%
2393 \fi%
2394 \edef\beamer@temp{\strip@pt\@tempdima}%
2395 \@tempdimc=\beamer@frametextheight%
2396 \advance\@tempdimc by4pt%
2397 \@tempdimb=\paperwidth%
2398 \ifbeamer@plainframe%
2399 \else%
2400   \advance\@tempdimb by-\beamer@leftsidebar%
2401   \advance\@tempdimb by-\beamer@rightsidebar\relax%
2402 \fi%
2403 \setbox\@tempboxa=\vbox{\hsize=\@tempdimb\Acrobatmenu{GoBack}{\vbox to
2404   \beamer@frametextheight{\hbox to\@tempdimb{\hfil}\vfil}}}%
2405 \ht\@tempboxa=0pt%
2406 \wd\@tempboxa=0pt%
2407 \dp\@tempboxa=0pt%
2408 \setbox\beamer@framebox=\vbox to\beamer@frametextheight{%
2409   \ifbeamer@plainframe\beamer@leftmargin=Gm@lmargin\fi%
2410   \if@RTL
2411     \begin{pgfpicture}{\paperwidth-\beamer@leftmargin}{-\beamer@frametextheight}{\paperwidth-\beamer@leftmargin}{\beamer@frametextheight}
2412       \pgftext[right,top]{\box\@tempboxa}
2413       \pgfpathrectangle{\pgfpoint{0pt}{-\@tempdimc}}{\pgfpoint{\@tempdimb}{\@tempdimc}}
2414       \pgfusepath{clip}
2415       \begin{group}
2416         \pgftransformscale{\beamer@temp}
2417         \@tempdima=#4\relax%
2418         \@tempdimb=#5\relax%
2419         {\pgftransformshift{\pgfpoint{\@tempdima+#6}{\@tempdimb}}}%
2420         \pgftext[right,top]{\vbox{\vbox{}\nointerlineskip\vbox\beamer@framebox}}
2421       \end{group}
2422     \end{pgfpicture}%
2423   \else
2424     \begin{pgfpicture}{\beamer@leftmargin}{-\beamer@frametextheight}{\beamer@leftmargin+\beamer@rightmargin}{\beamer@frametextheight}
2425       \pgftext[left,top]{\box\@tempboxa}
2426       \pgfpathrectangle{\pgfpoint{0pt}{-\@tempdimc}}{\pgfpoint{\@tempdimb}{\@tempdimc}}

```



```

2427         \pgfusepath{clip}
2428         \beginpgfgroup
2429             \pgftransformscale{\beamer@temp}
2430             \@tempdima=#4\relax%
2431             \@tempdimb=#5\relax%
2432             {\pgftransformshift{\pgfpoint{-\@tempdima}{\@tempdimb}}}%
2433             \pgftext[left,top]{\vbox{\vbox{} \nointerlineskip\unvbox\beamer@framebox}}
2434         \endpgfgroup
2435     \endpgfpicture}%
2436     \fi
2437 }%
2438 \setbox\beamer@framebox=\vbox{%
2439     \nobreak\vbox{} \nobreak\par \nobreak\beamer@entrycode \nobreak%
2440     \nointerlineskip\unvbox\beamer@frametitlebox%
2441     \nobreak%
2442     \box\beamer@framebox%
2443     \nobreak%
2444     \vss%
2445     \beamer@exitcode%
2446 }%
2447 \global\setbox\beamer@footins=\box\voidb@x% no footnotes in zoomed slides
2448 }%
2449 }%
2450 }
2451
2452

```

## 21 File beamerbaselocalstructure-xetex-bidi.def

```

2453 \ProvidesFile{beamerbaselocalstructure-xetex-bidi.def}[2022/05/24 v0.1 bidi adaptations for
2454 \def\beamer@enum@{%
2455     \beamer@compute@pref\@itemdepth% sets \beameritemnestingprefix
2456     \usebeamerfont{itemize/enumerate \beameritemnestingprefix body}%
2457     \bgroup
2458     \usebeamerfont{fg}{itemize/enumerate \beameritemnestingprefix body}%
2459     \usebeamertemplate{itemize/enumerate \beameritemnestingprefix body begin}%
2460     \egroup
2461     \expandafter
2462     \list
2463     {\usebeamertemplate{\beamer@enumtempl}}
2464     {\usecounter\@enumctr%
2465         \def\makelabel##1{{\hss\llap{{%
2466             \usebeamerfont*{enumerate \beameritemnestingprefix item}%
2467             \usebeamerfont{fg}{enumerate \beameritemnestingprefix item}##1}}}}}%
2468     \beamer@cramped%
2469     \bidi@beamer@ragged%
2470     \beamer@firstlineitemizeunskip%
2471 }
2472
2473 \renewcommand{\itemize}[1][]{%
2474     \ifblank{#1}{{\def\beamer@defaulttospec{#1}}}%
2475     \ifnum \@itemdepth >2\relax\@toodeep\else
2476         \advance\@itemdepth\@ne
2477         \beamer@compute@pref\@itemdepth% sets \beameritemnestingprefix

```



```

2478 \usebeamerfont{itemize/enumerate \beameritemnestingprefix body}%
2479 \bgroup
2480 \usebeamerfont{fg}{itemize/enumerate \beameritemnestingprefix body}%
2481 \usebeamerfont{itemize/enumerate \beameritemnestingprefix body begin}%
2482 \egroup
2483 \list
2484 {\usebeamerfont{itemize \beameritemnestingprefix item}}
2485 {\def\makelabel##1{%
2486   {%
2487     \hss\llap{%
2488       \usebeamerfont*{itemize \beameritemnestingprefix item}%
2489       \usebeamerfont{fg}{itemize \beameritemnestingprefix item}##1}}%
2490   }%
2491 }%
2492 }
2493 \fi%
2494 \beamer@cramped%
2495 \bidi@beamer@ragged%
2496 \beamer@firstlineitemizeunskip%
2497 }
2498
2499 \def\@@description{%
2500 \advance\beamer@descdefault by \labelsep%
2501 \usebeamerfont{description body}%
2502 \bgroup
2503 \usebeamerfont{fg}{description body}%
2504 \usebeamerfont{description body begin}%
2505 \egroup
2506 \list
2507 {}
2508 {\labelwidth\beamer@descdefault\leftmargin\beamer@descdefault\let\makelabel\beamer@descrip
2509 \beamer@cramped%
2510 \bidi@beamer@ragged
2511 \beamer@firstlineitemizeunskip%
2512 }
2513
2514 \renewenvironment{thebibliography}[1]
2515 {%\leavevmode\unskip%
2516 \ifRTL\ifLTRbibitems\RTLfalse\else\fi\else\ifRTLbibitems\RTLtrue\else\fi\fi
2517 \bidi@thebibliography@font@hook%
2518 \list{\@biblabel{\@arabic\c@enumiv}}%
2519 {\settowidth\labelwidth{\beamer@biblabeltemplate{\@biblabel{#1}}}%
2520 \leftmargin\labelwidth
2521 \advance\leftmargin\labelsep
2522 \itemsep=0pt%
2523 \partopsep=0pt%
2524 \topsep=0pt%
2525 \usecounter{enumiv}%
2526 \let\p@enumiv\@empty
2527 \renewcommand\theenumiv{\@arabic\c@enumiv}
2528 \let\makelabel\beamer@biblabeltemplate}%
2529 \sloppy\bidi@beamer@ragged
2530 \clubpenalty10000
2531 \@clubpenalty \clubpenalty

```



```

2532     \widowpenalty10000%
2533     \sfcode`\.\@m}
2534     {\def\@noitemerr
2535      {\@latex@warning{Empty `thebibliography' environment}}}%
2536     \ifhmode\unskip\fi\endlist}
2537
2538

```

## 22 File beamerbasemisc-xetex-bidi.def

```

2539 \ProvidesFile{beamerbasemisc-xetex-bidi.def}[2022/06/27 v0.1 bidi adaptations for beamerbase
2540 \define@key{beamerst}{width}{%
2541   \def\beamer@ststart{%
2542     \begin{minipage}[t]{#1}%
2543       \bidi@beamer@ragged
2544       \beamer@stalign
2545       \beamer@stlinebreakrule
2546     }%
2547   \def\beamer@stend{\end{minipage}}}
2548
2549

```

## 23 File beamerbasenavigation-xetex-bidi.def

```

2550 \ProvidesFile{beamerbasenavigation-xetex-bidi.def}[2022/06/27 v0.2 bidi adaptations for beam
2551 \def\slideentry#1#2#3#4#5#6{%
2552   %section number, subsection number, slide number, first/last frame, page number, part numb
2553   \ifnum#6=\c@part\ifnum#1>0\ifnum#3>0%
2554     \ifbeamer@compress%
2555       \advance\beamer@xpos by1\relax%
2556     \else%
2557       \ifnum#2=0%
2558         \beamer@ypos@offset=1\relax%
2559       \fi
2560       \beamer@xpos=#3\relax%
2561       \beamer@ypos=#2\relax%
2562       \advance\beamer@ypos by \beamer@ypos@offset\relax
2563     \fi%
2564   \hbox to 0pt{%
2565     \beamer@tempdim=-\beamer@vboxoffset%
2566     \advance\beamer@tempdim by-\beamer@boxsize%
2567     \multiply\beamer@tempdim by\beamer@ypos%
2568     \advance\beamer@tempdim by -.05cm%
2569     \raise\beamer@tempdim\hbox{%
2570       \beamer@tempdim=\beamer@boxsize%
2571       \multiply\beamer@tempdim by\beamer@xpos%
2572       \advance\beamer@tempdim by -\beamer@boxsize%
2573       \advance\beamer@tempdim by 1pt%
2574       \kern\beamer@tempdim
2575       \global\beamer@section@min@dim\beamer@tempdim
2576       \hbox{\beamer@link(#4){}%
2577         \usebeamerfont{mini frame}}%
2578       \ifnum\c@section=#1%
2579         \ifnum\c@subsection=#2%

```



```

2580         \usebeamercolor[fg]{mini frame}%
2581         \ifnum\c@sectionslide=#3%
2582             \usebeamertemplate{mini frame}%\beamer@minislidehighlight%
2583         \else%
2584             \usebeamertemplate{mini frame in current subsection}%\beamer@minisliderowhighlight%
2585         \fi%
2586     \else%
2587         \usebeamercolor{mini frame}%
2588         %\color{fg!50!bg}%
2589         \usebeamertemplate{mini frame in other subsection}%\beamer@minislide%
2590     \fi%
2591 \else%
2592     \usebeamercolor{mini frame}%
2593     %\color{fg!50!bg}%
2594     \usebeamertemplate{mini frame in other subsection}%\beamer@minislide%
2595 \fi%
2596 }}}\hskip-10cm plus 1fil%
2597 }\fi\fi%
2598 \else%
2599 \fakeslideentry{#1}{#2}{#3}{#4}{#5}{#6}%
2600 \fi\ignorespaces
2601 }
2602
2603 \pgfdefobject{bidi@beamer@RTL@gotosymbol}{\pgfpoint{0pt}{-1pt}}{\pgfpoint{5pt}{5pt}}
2604 {
2605     \pgfpathmoveto{3.5bp}{0.5bp}
2606     \pgfpathqlineto{1.5bp}{2bp}
2607     \pgfpathqlineto{3.5bp}{3.5bp}
2608     \pgfusepathqfill
2609 }
2610
2611 \def\insertgotosymbol{%
2612 \if@RTL
2613     \begin{pgfpicture}{-1pt}{0pt}{4pt}{5pt}
2614         \pgfuseobject{bidi@beamer@RTL@gotosymbol}%
2615     \end{pgfpicture}%
2616 \else
2617     \begin{pgfpicture}{1pt}{0pt}{6pt}{5pt}
2618         \pgfuseobject{beamer@gotosymbol}%
2619     \end{pgfpicture}%
2620 \fi
2621 }
2622
2623 \pgfdefobject{bidi@beamer@RTL@skipsymbol}{\pgfpoint{0pt}{-1pt}}{\pgfpoint{7pt}{5pt}}
2624 {
2625     \pgfpathmoveto{5.5bp}{0.5bp}
2626     \pgfpathqlineto{3.5bp}{2bp}
2627     \pgfpathqlineto{5.5bp}{3.5bp}
2628     \pgfpathmoveto{3.5bp}{0.5bp}
2629     \pgfpathqlineto{1.5bp}{2bp}
2630     \pgfpathqlineto{3.5bp}{3.5bp}
2631     \pgfusepathqfill
2632 }
2633

```



```

2634 \def\insertskipsymbol{%
2635 \if@RTL
2636   \begin{pgfpicture}{-1pt}{0pt}{6pt}{5pt}
2637     \pgfuseobject{bidi@beamer@RTL@skipsymbol}%
2638   \end{pgfpicture}%
2639 \else
2640   \begin{pgfpicture}{1pt}{0pt}{8pt}{5pt}
2641     \pgfuseobject{beamerskipsymbol}%
2642   \end{pgfpicture}%
2643 \fi
2644 }
2645
2646 \pgfdefobject{bidi@beamer@RTL@returnsymbol}{\pgfpoint{0pt}{-1pt}}{\pgfpoint{5pt}{5pt}}
2647 {
2648   \pgfpathmoveto{1.5bp}{0.5bp}
2649   \pgfpathqlineto{3.5bp}{2bp}
2650   \pgfpathqlineto{1.5bp}{3.5bp}
2651   \pgfusepathqfill
2652 }
2653
2654 \def\insertreturnsymbol{%
2655 \if@RTL
2656   \begin{pgfpicture}{-1pt}{0pt}{4pt}{5pt}
2657     \pgfuseobject{bidi@beamer@RTL@returnsymbol}%
2658   \end{pgfpicture}%
2659 \else
2660   \begin{pgfpicture}{1pt}{0pt}{6pt}{5pt}
2661     \pgfuseobject{beamerreturnsymbol}%
2662   \end{pgfpicture}%
2663 \fi
2664 }
2665
2666

```

## 24 File beamerbaseoverlay-xetex-bidi.def

```

2667 \ProvidesFile{beamerbaseoverlay-xetex-bidi.def}[2022/06/10 v0.1 bidi adaptations for beamer]
2668 \renewcommand<>{\color}{\alt#1{\beameroriginal{\color}}{\beamer@gobbleoptionalinsp}}
2669
2670

```

## 25 File beamerinnerthemedefault-xetex-bidi.def

```

2671 \ProvidesFile{beamerinnerthemedefault-xetex-bidi.def}[2022/06/27 v0.6 bidi adaptations for beamer]
2672 \newcommand*{\bidi@beamer@leftskip}{%
2673   \if@RTL
2674     \rightskip
2675   \else
2676     \leftskip
2677   \fi
2678 }
2679
2680 \newcommand*{\bidi@beamer@rightskip}{%
2681   \if@RTL

```





```

2682     \leftskip
2683   \else
2684     \rightskip
2685   \fi
2686 }
2687
2688 \bidi@csundef{beamer@@tmpop@subsection in toc@default}
2689
2690 \bidi@csundef{beamer@@tmpop@subsubsection in toc@default}
2691
2692 \defbeamertemplate*{subsection in toc}{default}
2693 {\leavevmode\bidi@beamer@leftskip=1.5em\inserttocsubsection\par}
2694
2695 \defbeamertemplate*{subsubsection in toc}{default}
2696 {\leavevmode\normalsize\usebeamerfont{subsection in toc}\bidi@beamer@leftskip=3em%
2697   \usebeamerfont{subsubsection in toc}\inserttocsubsubsection\par}
2698
2699 \newcommand*{\bidi@beamer@blacktriangle}{%
2700   \if@RTL
2701     $\blacktriangleleft$%
2702   \else
2703     $\blacktriangleright$%
2704   \fi
2705 }
2706
2707 \bidi@csundef{beamer@@tmpop@itemize item@default}
2708
2709 \bidi@csundef{beamer@@tmpop@itemize subitem@default}
2710
2711 \bidi@csundef{beamer@@tmpop@itemize subsubitem@default}
2712
2713 \defbeamertemplate*{itemize item}{default}{\usebeamerfont*{itemize item}\raise1.25pt\hbox{\d
2714 \defbeamertemplate*{itemize subitem}{default}{\usebeamerfont*{itemize subitem}\raise1.5pt\hb
2715 \defbeamertemplate*{itemize subsubitem}{default}{\usebeamerfont*{itemize subsubitem}\raise1.
2716
2717 \bidi@undef\beamer@@tmpop@footnote@default
2718
2719 \defbeamertemplate*{footnote}{default}
2720 {
2721   \parindent 1em\noindent%
2722   \bidi@beamer@ragged
2723   \hbox to 1.8em{\hfil\insertfootnotemark}\insertfootnotetext\par%
2724 }
2725
2726 \defbeamertemplate*{RTLfootnote}{default}
2727 {
2728   \parindent 1em\noindent%
2729   \raggedleft
2730   \hbox to 1.8em{\hfil\insertfootnotemark}\insertfootnotetext\par%
2731 }
2732
2733 \defbeamertemplate*{LTRfootnote}{default}
2734 {
2735   \parindent 1em\noindent%

```



```

2736 \raggedright
2737 \hbox to 1.8em{\hfil\insertfootnotemark}\insertfootnotetext\par%
2738 }
2739
2740 \bidi@undef\beamer@@tmpop@caption@default
2741
2742 \defbeamertemplate*{caption}{default}
2743 {%
2744 \bidi@beamer@ragged
2745 {%
2746 \leavevmode
2747 \usebeamercolor[fg]{caption name}%
2748 \usebeamerfont*{caption name}%
2749 \insertcaptionname
2750 \usebeamertemplate{caption label separator}%
2751 }%
2752 \insertcaption\par
2753 }
2754
2755 \bidi@csundef{beamer@@tmpop@block begin@default}
2756
2757 \bidi@csundef{beamer@@tmpop@block alerted begin@default}
2758
2759 \bidi@csundef{beamer@@tmpop@block example begin@default}
2760
2761 \defbeamertemplate*{block begin}{default}
2762 {
2763 \par\vskip\medskipamount%
2764 \begin{beamercolorbox}[colsep*=.75ex]{block title}
2765 \usebeamerfont*{block title}\insertblocktitle%
2766 \end{beamercolorbox}%
2767 {\parskip0pt\par}%
2768 \ifbeamercoloreempty[bg]{block title}
2769 {}
2770 {\ifbeamercoloreempty[bg]{block body}{\nointerlineskip\vskip-0.5pt}}%
2771 \usebeamerfont{block body}%
2772 \begin{beamercolorbox}[colsep*=.75ex,vmode]{block body}%
2773 \ifbeamercoloreempty[bg]{block body}{\vskip-.25ex}{\leavevmode\vskip-\dimexpr.75ex+\baselineskip}%
2774 }
2775
2776 \defbeamertemplate*{block alerted begin}{default}
2777 {
2778 \par\vskip\medskipamount%
2779 \begin{beamercolorbox}[colsep*=.75ex]{block title alerted}
2780 \usebeamerfont*{block title alerted}\insertblocktitle%
2781 \end{beamercolorbox}%
2782 {\parskip0pt\par}%
2783 \ifbeamercoloreempty[bg]{block title alerted}
2784 {}
2785 {\ifbeamercoloreempty[bg]{block body alerted}{\nointerlineskip\vskip-0.5pt}}%
2786 \usebeamerfont{block body alerted}%
2787 \begin{beamercolorbox}[colsep*=.75ex,vmode]{block body alerted}%
2788 \ifbeamercoloreempty[bg]{block body alerted}{\vskip-.25ex}{\leavevmode\vskip-\dimexpr.75ex+\baselineskip}%
2789 }

```



```

2790
2791 \defbeamertemplate*{block example begin}{default}
2792 {
2793   \par\vskip\medskipamount%
2794   \begin{beamercolorbox}[colsep*=.75ex]{block title example}
2795     \usebeamerfont*{block title example}\insertblocktitle%
2796   \end{beamercolorbox}%
2797   {\parskip0pt\par}%
2798   \ifbeamercoloreempty[bg]{block title example}
2799   {}
2800   {\ifbeamercoloreempty[bg]{block body example}{\nointerlineskip\vskip-0.5pt}}%
2801   \usebeamerfont{block body example}%
2802   \begin{beamercolorbox}[colsep*=.75ex,vmode]{block body example}%
2803     \ifbeamercoloreempty[bg]{block body example}{\vskip-.25ex}{\leavevmode\vskip-\dimexpr.75ex}
2804   }
2805
2806 \bidi@csundef{beamer@@tmpop@abstract begin@default}
2807
2808 \defbeamertemplate*{abstract begin}{default}
2809 {\beamercolorbox[vmode]{abstract}\bidi@beamer@leftskip2em\bidi@beamer@rightskip2em plus 1fil}
2810
2811 \bidi@undef\beamer@@tmpop@button@default
2812
2813 \defbeamertemplate*{button}{default}
2814 {%
2815   \setbox\beamer@tempbox=\hbox{\insertbuttontext}%
2816   \ht\beamer@tempbox=6pt%
2817   \dp\beamer@tempbox=0pt%
2818   \setbox\beamer@tempbox=\vbox{\box\beamer@tempbox\vskip2pt}%
2819   \beamer@tempdim=\wd\beamer@tempbox%
2820   \beamer@dima=\beamer@tempdim\advance\beamer@dima by2.2pt
2821   \beamer@dimb=\beamer@tempdim\advance\beamer@dimb by4pt
2822   \if@RTL
2823     \kern4pt%
2824     \box\beamer@tempbox%
2825     \hskip-\beamer@tempdim%
2826   \fi
2827   \begin{pgfpicture}{-4pt}{0pt}{\the\beamer@tempdim}{8pt}
2828     \color{bg}
2829     \pgfsetlinewidth{0.8pt}
2830     \pgfpathqmoveto{0pt}{0pt}
2831     \pgfpathqcurveto{-2.2pt}{0pt}{-4pt}{1.8pt}{-4pt}{4pt}
2832     \pgfpathqcurveto{-4pt}{6.2pt}{-2.2pt}{8pt}{0pt}{8pt}
2833     \pgfpathlineto{\pgfpoint{\the\beamer@tempdim}{8pt}}
2834     \pgfpathcurveto%
2835       {\pgfpoint{\the\beamer@dima}{8pt}}%
2836       {\pgfpoint{\the\beamer@dimb}{6.2pt}}%
2837       {\pgfpoint{\the\beamer@dimb}{4pt}}
2838     \pgfpathcurveto%
2839       {\pgfpoint{\the\beamer@dimb}{1.8pt}}%
2840       {\pgfpoint{\the\beamer@dima}{0pt}}%
2841       {\pgfpoint{\the\beamer@tempdim}{0pt}}
2842     \pgfpathclose
2843     \pgfusepathqfill

```



```

2844 \colorlet{bg}{parent.bg}
2845 \usebeamercolor[fg]{button border}
2846 \pgfpathmoveto{0pt}{0pt}
2847 \pgfpathqcurveto{-2.2pt}{0pt}{-4pt}{1.8pt}{-4pt}{4pt}
2848 \pgfpathqcurveto{-4pt}{6.2pt}{-2.2pt}{8pt}{0pt}{8pt}
2849 \pgfpathlineto{\pgfpoint{\the\beamer@tempdim}{8pt}}
2850 \pgfpathcurveto%
2851 {\pgfpoint{\the\beamer@dima}{8pt}}%
2852 {\pgfpoint{\the\beamer@dimb}{6.2pt}}%
2853 {\pgfpoint{\the\beamer@dimb}{4pt}}
2854 \pgfpathcurveto%
2855 {\pgfpoint{\the\beamer@dimb}{1.8pt}}%
2856 {\pgfpoint{\the\beamer@dima}{0pt}}%
2857 {\pgfpoint{\the\beamer@tempdim}{0pt}}
2858 \pgfpathclose
2859 \pgfusepathqstroke
2860 \end{pgfpicture}%
2861 \ifRTL
2862 \else
2863 \hskip-\beamer@tempdim%
2864 \box\beamer@tempbox%
2865 \kern4pt%
2866 \fi
2867 }
2868
2869

```

## 26 File beamerinnerthemecircles-xetex-bidi.def

```

2870 \ProvidesFile{beamerinnerthemecircles-xetex-bidi.def}[2022/06/06 v0.1 bidi adaptations for b
2871 \setbeamertemplate{sections/subsections in toc}[circle]
2872

```

## 27 File beamerinnerthemefocus-xetex-bidi.def

```

2873 \ProvidesFile{beamerinnerthemefocus-xetex-bidi.def}[2022/06/13 v0.1 bidi adaptations for bea
2874 \setbeamertemplate{section in toc}[square]
2875 \setbeamertemplate{subsection in toc}[square]
2876
2877 \setbeamertemplate{itemize items}[square]
2878 \setbeamertemplate{itemize subitem}[triangle]
2879
2880 \bidi@csundef{beamer@@tmpop@title page@focus}
2881
2882 \defbeamertemplate*{title page}{focus}{%
2883   {%
2884     \usebeamercolor{frametitle}\colorlet{focus@@temp}{bg}%
2885     \begin{tikzpicture}[overlay, remember picture]
2886       \fill[color=focus@@temp] (current page.north west) rectangle ([shift = {(0, -0.4
2887     \end{tikzpicture}
2888   }
2889
2890 \vspace{-1.65\baselineskip}
2891 \begin{minipage}[b] [0.35\paperheight]{\textwidth}

```



```

2892         \vspace{\baselineskip}
2893         \usebeamerfont{title}
2894         \usebeamercolor[fg]{frametitle}
2895         \inserttitle
2896     \end{minipage}
2897
2898     \begin{minipage}[t][0.1\paperheight]{\textwidth}
2899         \usebeamerfont{subtitle}
2900         \usebeamercolor[fg]{frametitle}
2901         \insertsubtitle
2902     \end{minipage}
2903
2904     % Set the title graphic in a zero-height box, so that
2905     % the position of other elements is not affected.
2906     {\vfuzz=9999pt\vbox to 0pt {
2907         \if@RTL
2908             \raggedright
2909         \else
2910             \raggedleft
2911         \fi
2912         \inserttitlegraphic
2913     }}
2914
2915     \begin{minipage}[t]{\textwidth}
2916         \usebeamerfont{author}
2917         \insertauthor
2918     \end{minipage}
2919
2920     \vspace*{\baselineskip}
2921     \begin{minipage}[t]{\textwidth}
2922         \usebeamerfont{institute}
2923         \insertinstitute
2924     \end{minipage}
2925
2926     \vspace*{\baselineskip}
2927     \begin{minipage}[t]{\textwidth}
2928         \usebeamerfont{date}
2929         \insertdate
2930     \end{minipage}
2931
2932     \vspace*{0pt plus 100fill}
2933
2934     \addtocounter{framenum}{-1}
2935     \addtocounter{realframenum}{-1}
2936 }
2937
2938
2939

```

## 28 File beamerinnerthemeinmargin-xetex-bidi.def

```

2940 \ProvidesFile{beamerinnerthemeinmargin-xetex-bidi.def}[2022/06/09 v0.1 bidi adaptations for
2941 \AtBeginDocument{%
2942     \setbeamersize{sidebar width left=.25\paperwidth}%

```



```

2943 }
2944
2945 \bidi@csundef{beamer@@tmpop@section in toc@inmargin}
2946
2947 \bidi@csundef{beamer@@tmpop@title page@inmargin}
2948
2949 \bidi@csundef{beamer@@tmpop@block begin@inmargin}
2950
2951 \bidi@csundef{beamer@@tmpop@block end@inmargin}
2952
2953 \bidi@csundef{beamer@@tmpop@block alerted begin@inmargin}
2954
2955 \bidi@csundef{beamer@@tmpop@block alerted end@inmargin}
2956
2957 \bidi@csundef{beamer@@tmpop@block example begin@inmargin}
2958
2959 \bidi@csundef{beamer@@tmpop@block example end@inmargin}
2960
2961 \defbeamertemplate*{section in toc}{inmargin}
2962 {\leavevmode
2963   \beamer@putleft{\usebeamercolor[fg]{section in toc}\inserttocsection}\strut}{2.5ex}}
2964
2965 \defbeamertemplate*{title page}{inmargin}
2966 {
2967   \begin{block}{\inserttitleindicator}
2968     \bgroup\usebeamercolor[fg]{title}\usebeamerfont{title}\inserttitle\egroup\par
2969     \usebeamercolor[fg]{subtitle}\usebeamerfont{subtitle}\insertsubtitle
2970   \end{block}
2971   \vfill
2972   \ifx\insertauthor\@empty
2973   \else
2974     \begin{block}{\insertauthorindicator}
2975       \bgroup\usebeamercolor[fg]{author}\usebeamerfont{author}\insertauthor\egroup\par
2976     \end{block}
2977   \fi
2978   \ifx\insertinstitute\@empty
2979   \else
2980     \begin{block}{\insertinstituteindicator}
2981       \bgroup\usebeamercolor[fg]{institute}\usebeamerfont{institute}\insertinstitute\egroup\par
2982     \end{block}
2983   \fi
2984   \ifx\insertdate\@empty
2985   \else
2986     \begin{block}{\insertdateindicator}
2987       \bgroup\usebeamercolor[fg]{date}\usebeamerfont{date}\insertdate\egroup\par
2988     \end{block}
2989   \fi
2990 }
2991
2992 \defbeamertemplate*{block begin}{inmargin}
2993 {
2994   \par\vskip\medskipamount%
2995   \leavevmode%
2996   \beamer@putleft{\normalfont{\usebeamercolor[fg]{block title}\usebeamerfont*{block title}\i

```



```

2997 \beginL\beamer@putright
2998 %\usebeamercolor[fg]{block body}% to be done!
2999 }
3000
3001 \defbeamertemplate*{block end}{inmargin}
3002 {\endbeamer@putright\endL\vskip\smallskipamount}
3003
3004 \defbeamertemplate*{block alerted begin}{inmargin}
3005 {
3006 \par\vskip\medskipamount%
3007 \leavevmode%
3008 \beamer@putleft{\normalfont{\usebeamercolor[fg]{block title alerted}}\usebeamerfont*{block
3009 \beginL\beamer@putright
3010 %\usebeamercolor[fg]{block body alerted}% to be done!
3011 }
3012
3013 \defbeamertemplate*{block alerted end}{inmargin}
3014 {\endbeamer@putright\endL\vskip\smallskipamount}
3015
3016 \defbeamertemplate*{block example begin}{inmargin}
3017 {
3018 \par\vskip\medskipamount%
3019 \leavevmode%
3020 \beamer@putleft{\normalfont{\usebeamercolor[fg]{block title example}}\usebeamerfont*{block
3021 \beginL\beamer@putright
3022 %\usebeamercolor[fg]{block body example}% to be done
3023 }
3024
3025 \defbeamertemplate*{block example end}{inmargin}
3026 {\endbeamer@putright\endL\vskip\smallskipamount}
3027
3028 \bidi@AfterFile{beamerinnerthememetropolis-xetex-bidi.def}{%
3029 \setbeamertemplate{section in toc}[inmargin]%
3030 \setbeamertemplate{subsection in toc}[inmargin]%
3031 \setbeamertemplate{subsubsection in toc}[inmargin]%
3032 }
3033
3034

```

## 29 File beamerinnerthememetropolis-xetex-bidi.def

```

3035 \ProvidesFile{beamerinnerthememetropolis-xetex-bidi.def}[2022/06/13 v0.1 bidi adaptations fo
3036 \setbeamertemplate{title}{
3037 \bidi@beamer@ragged%
3038 \linespread{1.0}%
3039 \inserttitle%
3040 \par%
3041 \vspace*{0.5em}
3042 }
3043
3044 \setbeamertemplate{subtitle}{
3045 \bidi@beamer@ragged%
3046 \insertsubtitle%
3047 \par%

```



```

3048 \vspace*{0.5em}
3049 }
3050
3051 \bidi@csundef{beamer@@tmpop@section page@progressbar}
3052
3053 \defbeamertemplate{section page}{progressbar}{
3054 \centering
3055 \begin{minipage}{22em}
3056 \bidi@beamer@ragged
3057 \usebeamercolor{fg}{section title}
3058 \usebeamerfont{section title}
3059 \insertsectionhead\[-1ex]
3060 \usebeamertemplate*{progress bar in section page}
3061 \par
3062 \ifx\insertsubsectionhead\@empty\else%
3063 \usebeamercolor{fg}{subsection title}%
3064 \usebeamerfont{subsection title}%
3065 \insertsubsectionhead
3066 \fi
3067 \end{minipage}
3068 \par
3069 \vspace{\baselineskip}
3070 }
3071
3072 \setbeamertemplate{progress bar in section page}{
3073 \setlength{\metropolis@progressonsectionpage}{%
3074 \textwidth * \ratio{\insertframenumber pt}{\inserttotalframenumber pt}}%
3075 }%
3076 \begin{tikzpicture}
3077 \fill[bg] (0,0) rectangle (\textwidth, \metropolis@progressonsectionpage@linewidth);
3078 \if@RTLmain
3079 \fill[fg] (\textwidth-\metropolis@progressonsectionpage,0) rectangle (\textwidth, \metropolis@progressonsectionpage@linewidth);
3080 \else
3081 \fill[fg] (0,0) rectangle (\metropolis@progressonsectionpage, \metropolis@progressonsectionpage@linewidth);
3082 \fi
3083 \end{tikzpicture}%
3084 }
3085
3086 \renewcommand{\metropolis@block}[1]{
3087 \par\vskip\medskipamount%
3088 \setlength{\parskip}{0pt}
3089 \ifbeamercolorempy[bg]{block title#1}{%
3090 \if@RTL
3091 \begin{beamercolorbox}[leftskip=0pt plus 4em]{block title#1}%
3092 \else
3093 \begin{beamercolorbox}[rightskip=0pt plus 4em]{block title#1}%
3094 \fi
3095 }{%
3096 \ifbeamercolorempy[bg]{block title}{%
3097 \if@RTL
3098 \begin{beamercolorbox}[leftskip=0pt plus 4em]{block title#1}%
3099 \else
3100 \begin{beamercolorbox}[rightskip=0pt plus 4em]{block title#1}%
3101 \fi

```





```

3102 }%
3103 {%
3104 \if@RTL
3105 \begin{beamercolorbox}[
3106 sep=\dimexpr\metropolis@blocksep-\metropolis@blockadjust\relax,
3107 rightskip=\metropolis@blockadjust,
3108 leftskip=\dimexpr\metropolis@blockadjust plus 4em\relax
3109 ]{block title#1}%
3110 \else
3111 \begin{beamercolorbox}[
3112 sep=\dimexpr\metropolis@blocksep-\metropolis@blockadjust\relax,
3113 leftskip=\metropolis@blockadjust,
3114 rightskip=\dimexpr\metropolis@blockadjust plus 4em\relax
3115 ]{block title#1}%
3116 \fi
3117 }}%
3118 \usebeamerfont*{block title#1}%
3119 \metropolis@strut%
3120 \insertblocktitle%
3121 \metropolis@strut%
3122 \end{beamercolorbox}%
3123 \nointerlineskip%
3124 \ifbeamercoloreempty[bg]{block body#1}{%
3125 \begin{beamercolorbox}[vmode]{block body#1}}{
3126 \ifbeamercoloreempty[bg]{block body}{%
3127 \begin{beamercolorbox}[vmode]{block body#1}%
3128 }{%
3129 \begin{beamercolorbox}[sep=\metropolis@blocksep, vmode]{block body#1}%
3130 \vspace{-\metropolis@parskip}
3131 }}%
3132 \usebeamerfont{block body#1}%
3133 \setlength{\parskip}{\metropolis@parskip}%
3134 }
3135
3136
3137 \setbeamertemplate{footnote}{%
3138 \parindent 0em\noindent%
3139 \bidi@beamer@ragged
3140 \usebeamercolor{footnote}\hbox to 0.8em{\hfil\insertfootnotemark}\insertfootnotetext\par%
3141 }
3142
3143 \setbeamertemplate{RTLfootnote}{%
3144 \parindent 0em\noindent%
3145 \raggedleft
3146 \usebeamercolor{footnote}\hbox to 0.8em{\hfil\insertfootnotemark}\insertfootnotetext\par%
3147 }
3148
3149 \setbeamertemplate{LTRfootnote}{%
3150 \parindent 0em\noindent%
3151 \raggedright
3152 \usebeamercolor{footnote}\hbox to 0.8em{\hfil\insertfootnotemark}\insertfootnotetext\par%
3153 }
3154
3155 \setbeamertemplate{itemize items}{\textbullet}

```



```

3156
3157 \setbeamertemplate{section page}[progressbar]
3158
3159

```

## 30 File beamerinnerthemerectangles-xetex-bidi.def

```

3160 \ProvidesFile{beamerinnerthemerectangles-xetex-bidi.def}[2022/06/06 v0.1 bidi adaptations for b
3161 \setbeamertemplate{sections/subsections in toc}[square]
3162 \setbeamertemplate{items}[square]
3163

```

## 31 File beamerinnerthemerounded-xetex-bidi.def

```

3164 \ProvidesFile{beamerinnerthemerounded-xetex-bidi.def}[2022/06/01 v0.1 bidi adaptations for b
3165 \setbeamertemplate{blocks}[rounded] [shadow=\beamer@themerounded@shadow]
3166 \setbeamertemplate{items}[ball]
3167 \setbeamertemplate{sections/subsections in toc}[ball]
3168

```

## 32 File beamerouterthemedefault-xetex-bidi.def

```

3169 \ProvidesFile{beamerouterthemedefault-xetex-bidi.def}[2022/06/27 v0.2 bidi adaptations for b
3170 \def\beamer@fteleft{\if@RTLmain\vskip0.35cm\advance\leftskip by 1.7cm\advance\rightskip by1.
3171
3172 \def\beamer@fteright{\if@RTLmain\else\vskip0.35cm\advance\leftskip by 1.7cm\advance\rightski
3173
3174 \AtBeginDocument{%
3175   \if@RTLmain
3176     \setbeamertemplate{frametitle}[default] [right]
3177   \fi
3178 }
3179
3180 \bidi@csundef{beamer@@tmpop@note page@default}
3181
3182 \newcommand*{\bidi@beamer@today}{%
3183 \the\year-\ifnum\month<10\relax0\fi\the\month-\ifnum\day<10\relax0\fi\the\day}
3184
3185 \defbeamertemplate*{note page}{default}
3186 {%
3187   {%
3188     \scriptsize
3189     \usebeamerfont{note title}\usebeamercolor[fg]{note title}%
3190     \ifbeamercoloreempty[bg]{note title}{\}%
3191     \insertvrule{.25\paperheight}{note title.bg}%
3192     \vskip-.25\paperheight%
3193     \nointerlineskip%
3194   }%
3195   \vbox{
3196     \hfill\insertslideintonotes{0.25}\hskip-\Gm@rmargin\hskip0pt%
3197     \vskip-0.25\paperheight%
3198     \nointerlineskip
3199     \if@RTL
3200     \begin{pgfpicture}{-\textwidth}{0cm}{-\textwidth}{0cm}

```



```

3201     \begin{pgflowlevelslope}{\pgftransformrotate{-90}}
3202     {\pgftransformshift{\pgfpoint{2cm}{0.2cm}}}%
3203     \pgftext[base,right]{\usebeamerfont{note date}\usebeamercolor[fg]{note date}\bidi@
3204     \end{pgflowlevelslope}
3205     \end{pgfpicture}%
3206     \else
3207     \begin{pgfpicture}{0cm}{0cm}{0cm}{0cm}
3208     \begin{pgflowlevelslope}{\pgftransformrotate{90}}
3209     {\pgftransformshift{\pgfpoint{-2cm}{0.2cm}}}%
3210     \pgftext[base,left]{\usebeamerfont{note date}\usebeamercolor[fg]{note date}\bidi@
3211     \end{pgflowlevelslope}
3212     \end{pgfpicture}%
3213     \fi}
3214     \nointerlineskip
3215     \vbox to .25\paperheight{\vskip0.5em
3216     \if@RTL
3217     \moveright0.25\textwidth
3218     \fi
3219     \hbox{\insertshorttitle[width=0.75\textwidth]}}%
3220     \setbox\beamer@tempbox=\hbox{\insertsection}%
3221
3222     \if@RTL
3223     \moveright\dimexpr0.29\textwidth-14pt\relax
3224     \fi
3225     \hbox{\if@RTL\beginR\fi\ifdim\wd\beamer@tempbox>1pt{\hskip4pt\raise3pt\hbox{\vrule
3226     width0.4pt height7pt\vrule width 9pt
3227     height0.4pt}}\hskip1pt\hbox{\begin{minipage}[t]{0.71\textwidth}\def\breakhere{}}
3228     \if@RTL\endR\fi}%
3229     \setbox\beamer@tempbox=\hbox{\insertsubsection}%
3230
3231     \if@RTL
3232     \moveright\dimexpr0.29\textwidth-27.4pt\relax
3233     \fi
3234     \hbox{\if@RTL\beginR\fi\ifdim\wd\beamer@tempbox>1pt{\hskip17.4pt\raise3pt\hbox{\vrule
3235     width0.4pt height7pt\vrule width 9pt
3236     height0.4pt}}\hskip1pt\hbox{\begin{minipage}[t]{0.71\textwidth}\def\breakhere{}}
3237     \if@RTL\endR\fi}%
3238     \setbox\beamer@tempbox=\hbox{\insertshortframetitle}%
3239
3240     \if@RTL
3241     \moveright\dimexpr0.33\textwidth-40.8pt\relax
3242     \fi
3243     \hbox{\if@RTL\beginR\fi\ifdim\wd\beamer@tempbox>1pt{\hskip30.8pt\raise3pt\hbox{\vrule
3244     width0.4pt height7pt\vrule width 9pt
3245     height0.4pt}}\hskip1pt\hbox{\insertshortframetitle[width=0.67\textwidth]}\fi%
3246     \vfil}%
3247     }%
3248     \ifbeamercolorempty[bg]{note page}{-}{%
3249     \nointerlineskip%
3250     \insertvrule{.75\paperheight}{note page.bg}%
3251     \vskip-.75\paperheight%
3252     }%
3253     \vskip.25em
3254     \nointerlineskip
3255     \insertnote

```



```

3255 }
3256
3257
3258

```

### 33 File beamerouterthemefocus-xetex-bidi.def

```

3259 \ProvidesFile{beamerouterthemefocus-xetex-bidi.def}[2022/06/13 v0.1 bidi adaptations for bea
3260 \bidi@undef\beamer@tmpop@footline@progressbar
3261
3262 \defbeamertemplate*{footline}{progressbar}{%
3263   % If not appendix.
3264   \ifnum\mainend<0% From package appendixnumberbeamer.
3265     %
3266     \settowidth{\focus@pbar@leftoffset}{1}%
3267     \addtolength{\focus@pbar@leftoffset}{1.5em}%
3268     %
3269     \ifx\beamer@focus@totalframenumbering\no%
3270       \settowidth{\focus@pbar@rightoffset}{}%
3271       \addtolength{\focus@pbar@rightoffset}{0.5em}%
3272     \else%
3273       \settowidth{\focus@pbar@rightoffset}{\inserttotalframenumber}%
3274       \addtolength{\focus@pbar@rightoffset}{1.5em}%
3275     \fi%
3276     %
3277     % If not title page.
3278     \ifnum\value{realframenumber}>0%
3279       \ifnum\value{framenumber}<\inserttotalframenumber%
3280         \begin{tikzpicture}[inner xsep=0.5em, inner ysep=0.5ex]\usebeamerfont{footli
3281           \pgfmathsetmacro{\focus@pbar@progress}%
3282             {(\paperwidth-\focus@pbar@leftoffset-\focus@pbar@rightoffset)*(\inse
3283
3284           \clip (0,0) rectangle ++(\paperwidth,\the\focus@pbar@height);
3285 \if@RTLmain
3286           \fill[footline.bg] (\paperwidth,0) rectangle ++(-\the\focus@pbar@leftoff
3287           \fill[footline.bg] (\paperwidth-\the\focus@pbar@leftoffset,0) rectangle
3288             ++(0,{-0.5*\the\focus@pbar@height}) node[anchor=west,
3289 \else
3290           \fill[footline.bg] (0,0) rectangle ++(\the\focus@pbar@leftoffset,\the\fo
3291           \fill[footline.bg] (\the\focus@pbar@leftoffset,0) rectangle ++(\focus@pb
3292             ++(0,{-0.5*\the\focus@pbar@height}) node[anchor=east,
3293 \fi
3294           \ifx\beamer@focus@totalframenumbering\no%
3295           \else%
3296 \if@RTLmain
3297           \fill[footline.bg] (0,0) rectangle ++(\the\focus@pbar@rightoffset,\t
3298             ++(0,{-0.5*\the\focus@pbar@height}) node[anchor=e
3299 \else
3300           \fill[footline.bg] (\paperwidth,0) rectangle ++(-\the\focus@pbar@rig
3301             ++(0,{-0.5*\the\focus@pbar@height}) node[anchor=w
3302 \fi
3303           \fi%
3304           \end{tikzpicture}%
3305 \else%

```



```

3306          \begin{tikzpicture}[inner xsep=0.5em, inner ysep=0.5ex]
3307              \clip (0,0) rectangle ++(\paperwidth,\the\focus@pbar@height);
3308              \fill[footline.bg] (0,0) rectangle ++(\paperwidth,\the\focus@pbar@height);
3309          \if@RTLmain
3310              \node[anchor=west, footline.fg] at ({\the\focus@pbar@rightoffset},{0.5*\the\focus@pbar@height}){\footline};
3311          \else
3312              \node[anchor=east, footline.fg] at ({\paperwidth-\the\focus@pbar@rightoffset},{0.5*\the\focus@pbar@height}){\footline};
3313          \fi
3314          \ifx\beamer@focus@totalframenummering\no%
3315              \else%
3316          \if@RTLmain
3317              \node[footline.fg] at ({\the\focus@pbar@rightoffset},{0.5*\the\focus@pbar@height}){\footline};
3318              \node[anchor=east, footline.fg] at ({\the\focus@pbar@rightoffset},{0.5*\the\focus@pbar@height}){\footline};
3319          \else
3320              \node[footline.fg] at ({\paperwidth-\the\focus@pbar@rightoffset},{0.5*\the\focus@pbar@height}){\footline};
3321              \node[anchor=west, footline.fg] at ({\paperwidth-\the\focus@pbar@rightoffset},{0.5*\the\focus@pbar@height}){\footline};
3322          \fi
3323          \fi%
3324          \end{tikzpicture}%
3325          \fi%
3326          \fi%
3327      \fi%
3328  }
3329
3330

```

## 34 File beamerouterthemeinfolines-xetex-bidi.def

```

3331 \ProvidesFile{beamerouterthemeinfolines-xetex-bidi.def}[2022/06/09 v0.2 bidi adaptations for xetex]
3332 \bidi@csundef{beamer@tmpop@footline@infolines theme}
3333
3334 \defbeamerteremplate*{footline}{infolines theme}
3335 {%
3336   \leavevmode%
3337   \hbox{%
3338     \begin{beamercolorbox}[wd=.333333\paperwidth,ht=2.25ex,dp=1ex,center]{author in head/foot}%
3339       \usebeamerfont{author in head/foot}\insertshortauthor\expandafter\ifblank\expandafter{\beamer@shortauthor}%
3340     \end{beamercolorbox}%
3341     \begin{beamercolorbox}[wd=.333333\paperwidth,ht=2.25ex,dp=1ex,center]{title in head/foot}%
3342       \usebeamerfont{title in head/foot}\insertshorttitle
3343     \end{beamercolorbox}%
3344     \begin{beamercolorbox}[wd=.333333\paperwidth,ht=2.25ex,dp=1ex,leftskip=2ex,rightskip=2ex,center]{date in head/foot}%
3345       \hfill%
3346       \usebeamerfont{date in head/foot}%
3347       \insertshortdate{}%
3348       \hfill%
3349     \bgroup
3350       \usebeamerfont[fg]{page number in head/foot}%
3351       \usebeamerfont{page number in head/foot}%
3352       \usebeamerfont{page number in head/foot}%
3353     \egroup
3354   \end{beamercolorbox}}%
3355   \vskipOpt%
3356 }

```



```

3357
3358 \bidi@csundef{beamer@tmpop@headline@infolines theme}
3359
3360 \defbeamertemplate*{headline}{infolines theme}
3361 {%
3362   \leavevmode%
3363   \hbox{%
3364     \if@RTL
3365       \begin{beamercolorbox}[wd=.5\paperwidth,ht=2.65ex,dp=1.5ex,left]{section in head/foot}%
3366     \else
3367       \begin{beamercolorbox}[wd=.5\paperwidth,ht=2.65ex,dp=1.5ex,right]{section in head/foot}%
3368     \fi
3369       \usebeamerfont{section in head/foot}\insertsectionhead\hspace*{2ex}
3370     \end{beamercolorbox}}%
3371   \if@RTL
3372     \begin{beamercolorbox}[wd=.5\paperwidth,ht=2.65ex,dp=1.5ex,right]{subsection in head/foot}%
3373   \else
3374     \begin{beamercolorbox}[wd=.5\paperwidth,ht=2.65ex,dp=1.5ex,left]{subsection in head/foot}%
3375   \fi
3376     \usebeamerfont{subsection in head/foot}\hspace*{2ex}\insertsubsectionhead
3377   \end{beamercolorbox}}}%
3378   \vskip0pt%
3379 }
3380
3381 \bidi@AfterFile{beamerouterthememetropolis-xetex-bidi.def}{%
3382   \setbeamertemplate{footline}{infolines theme}%
3383 }
3384

```

## 35 File beamerouterthememetropolis-xetex-bidi.def

```

3385 \ProvidesFile{beamerouterthememetropolis-xetex-bidi.def}[2022/06/13 v0.1 bidi adaptations for]
3386 \setbeamertemplate{progress bar in head/foot}{
3387   \nointerlineskip
3388   \setlength{\metropolis@progressinheadfoot}{%
3389     \paperwidth * \ratio{\insertframenumber pt}{\inserttotalframenumber pt}}%
3390   }%
3391   \begin{beamercolorbox}[wd=\paperwidth]{progress bar in head/foot}
3392     \begin{tikzpicture}
3393       \fill[bg] (0,0) rectangle (\paperwidth, \metropolis@progressinheadfoot@linewidth);
3394     \if@RTLmain
3395       \fill[fg] (\paperwidth-\metropolis@progressinheadfoot,0) rectangle (\paperwidth, \metropolis@progressinheadfoot@linewidth);
3396     \else
3397       \fill[fg] (0,0) rectangle (\metropolis@progressinheadfoot, \metropolis@progressinheadfoot@linewidth);
3398     \fi
3399     \end{tikzpicture}%
3400   \end{beamercolorbox}
3401 }
3402
3403 \AtBeginDocument{%
3404   \setbeamertemplate{frametitle}[plain]%
3405 }
3406
3407

```



## 36 File beamerouterthememiniframes-xetex-bidi.def

```
3408 \ProvidesFile{beamerouterthememiniframes-xetex-bidi.def}[2022/06/09 v0.1 bidi adaptations for]
3409 \bidi@csundef{beamer@tmpop@headline@miniframes theme}
3410
3411 \defbeamertemplate*{headline}{miniframes theme}
3412 {%
3413   \begin{beamercolorbox}[colsep=1.5pt]{upper separation line head}
3414   \end{beamercolorbox}
3415   \begin{beamercolorbox}{section in head/foot}
3416     \vskip2pt\if@RTL\beginR\fi\insertnavigation{\paperwidth}\if@RTL\endR\fi\vskip2pt
3417   \end{beamercolorbox}%
3418   \ifbeamer@theme@subsection%
3419     \begin{beamercolorbox}[colsep=1.5pt]{middle separation line head}
3420     \end{beamercolorbox}
3421     \if@RTL
3422       \begin{beamercolorbox}[ht=2.5ex,dp=1.125ex,%
3423         rightskip=.3cm,leftskip=.3cm plus1fil]{subsection in head/foot}
3424       \else
3425       \begin{beamercolorbox}[ht=2.5ex,dp=1.125ex,%
3426         leftskip=.3cm,rightskip=.3cm plus1fil]{subsection in head/foot}
3427       \fi
3428       \usebeamerfont{subsection in head/foot}\insertsubsectionhead
3429     \end{beamercolorbox}%
3430   \fi%
3431   \begin{beamercolorbox}[colsep=1.5pt]{lower separation line head}
3432   \end{beamercolorbox}
3433 }
3434
3435
```

## 37 File beamerouterthemesidebar-xetex-bidi.def

```
3436 \ProvidesFile{beamerouterthemesidebar-xetex-bidi.def}[2022/06/07 v0.2 bidi adaptations for b]
3437 \bidi@csundef{beamer@tmpop@frametitle@sidebar theme}
3438
3439 \bidi@csundef{beamer@tmpop@headline@sidebar theme}
3440
3441 \bidi@csundef{beamer@tmpop@sidebar left@sidebar theme}
3442
3443 \bidi@csundef{beamer@tmpop@sidebar right@sidebar theme}
3444
3445 \ifdim\beamer@headheight>0pt
3446
3447   \defbeamertemplate*{frametitle}{sidebar theme}
3448   {%
3449     \nointerlineskip%
3450     \ifbeamer@plainframe%
3451       \hbox{\usebeamercolor[bg]{frametitle}%
3452         \@tempdima\paperwidth\advance\@tempdima-\beamer@sidebarwidth
3453         \hskip-\beamer@leftmargin\vrule height\beamer@headheight width\@tempdima\hskip-\bea
3454       \nointerlineskip%
3455     \fi%
3456     \vskip-\beamer@headheight%
```



```

3457 \vbox to \beamer@headheight{%
3458 \vfil
3459 \bidi@beamer@leftskip=-\beamer@leftmargin%
3460 \advance\bidi@beamer@leftskip by0.3cm%
3461 \bidi@beamer@rightskip=-\beamer@rightmargin%
3462 \advance\bidi@beamer@rightskip by0.3cm plus1fil%
3463 {\usebeamercolor[fg]{frametitle}\usebeamerfont{frametitle}\strut\insertframetitle\par}
3464 \ifx\insertframesubtitle\@empty\else%
3465 {\usebeamercolor[fg]{framesubtitle}\usebeamerfont{framesubtitle}\strut\insertframesubtitle\par}
3466 \fi%
3467 \vbox{}%
3468 \vskip-1em%
3469 \vfil
3470 }%
3471 }
3472
3473 \AtBeginDocument{%
3474 \setbeamertemplate{frametitle}[sidebar theme]%
3475 }
3476
3477 \defbeamertemplate*{headline}{sidebar theme}
3478 {%
3479 \begin{beamercolorbox}[wd=\paperwidth]{frametitle}
3480 \ifx\beamer@sidebarside\beamer@lefttext%
3481 \else%
3482 \hfill%
3483 \fi%
3484 \ifdim\beamer@sidebarwidth>0pt%
3485 \bgroup
3486 \usebeamercolor[bg]{logo}%
3487 \if@RTLmain
3488 \else
3489 \vrule width\beamer@sidebarwidth height \beamer@headheight%
3490 \hskip-\beamer@sidebarwidth%
3491 \fi
3492 \hbox to \beamer@sidebarwidth{\hss\vbox to
3493 \beamer@headheight{\vss\hbox{{\color{fg}\insertlogo}}\vss}\hss}%
3494 \if@RTLmain
3495 \hskip-\beamer@sidebarwidth%
3496 \vrule width\beamer@sidebarwidth height \beamer@headheight%
3497 \fi
3498 \egroup
3499 \else%
3500 \vrule width0pt height \beamer@headheight%
3501 \fi%
3502 \end{beamercolorbox}
3503 }
3504 \fi
3505
3506 \def\beamer@sidebarformat#1#2#3{%
3507 \if@RTL
3508 \begin{beamercolorbox}[wd=\beamer@sidebarwidth,rightskip=#1,leftskip=1ex plus1fil,vmode]{#2}
3509 \else
3510 \begin{beamercolorbox}[wd=\beamer@sidebarwidth,leftskip=#1,rightskip=1ex plus1fil,vmode]{#2}

```





```

3511 \fi
3512 \vbox{}%
3513 #3\par%
3514 \vbox{}%
3515 \vskip-1.5ex%
3516 \end{beamercolorbox}
3517 }
3518
3519 \ifdim\beamer@sidebarwidth>0pt
3520
3521 \AtBeginDocument{%
3522 \setbeamersize{sidebar width \beamer@sidebarside=\beamer@sidebarwidth}%
3523 }
3524
3525 \defbeamer*{sidebar \beamer@sidebarside}{sidebar theme}
3526 {
3527 \beamer@tempdim=\beamer@sidebarwidth%
3528 \advance\beamer@tempdim by -6pt%
3529 {\usebeamerfont{title in sidebar}%
3530 \vskip1.5em%
3531 \hskip3pt%
3532 \bgroup
3533 \usebeamercolor[fg]{title in sidebar}%
3534 \insertshorttitle[width=\beamer@tempdim,center,respectlinebreaks]\egroup\par%
3535 \vskip1.25em%
3536 }%
3537 {%
3538 \hskip3pt%
3539 \bgroup
3540 \usebeamercolor[fg]{author in sidebar}%
3541 \usebeamerfont{author in sidebar}%
3542 \insertshortauthor[width=\beamer@tempdim,center,respectlinebreaks]\egroup\par%
3543 \vskip1.25em%
3544 }%
3545 \insertverticalnavigation{\beamer@sidebarwidth}%
3546 \vfill
3547 \ifx\beamer@sidebarside\beamer@lefttext%
3548 \else%
3549 \usebeamercolor{normal text}%
3550 \llap{\usebeamer*{navigation symbols}\hskip0.1cm}%
3551 \vskip2pt%
3552 \fi%
3553 }%
3554 \fi
3555

```

### 38 File beamerouterthemesplit-xetex-bidi.def

```

3556 \ProvidesFile{beamerouterthemesplit-xetex-bidi.def}[2022/06/09 v0.2 bidi adaptations for bea
3557 \bidi\csundef{beamer@tmpop@footline@split theme}
3558
3559 \defbeamer*{footline}{split theme}
3560 {%
3561 \leavevmode%

```



```

3562 \hbox{\if@RTL\begin{beamercolorbox}[wd=.5\paperwidth,ht=2.5ex,dp=1.125ex,rightskip=.3cm pl
3563 \else
3564 \begin{beamercolorbox}[wd=.5\paperwidth,ht=2.5ex,dp=1.125ex,leftskip=.3cm plus1fill,rightski
3565 \fi
3566 \usebeamerfont{author in head/foot}\insertshortauthor
3567 \end{beamercolorbox}}%
3568 \if@RTL
3569 \begin{beamercolorbox}[wd=.5\paperwidth,ht=2.5ex,dp=1.125ex,rightskip=.3cm,leftskip=.3cm
3570 \else
3571 \begin{beamercolorbox}[wd=.5\paperwidth,ht=2.5ex,dp=1.125ex,leftskip=.3cm,rightskip=.3cm p
3572 \fi
3573 \usebeamerfont{title in head/foot}\insertshorttitle\nobreak\hfill\bgroup\usebeamercolor[
3574 \end{beamercolorbox}}}%
3575 \vskip0pt%
3576 }
3577
3578

```

### 39 File beamerouterthemeshadow-xetex-bidi.def

```

3579 \ProvidesFile{beamerouterthemeshadow-xetex-bidi.def}[2022/06/11 v0.3 bidi adaptations for be
3580 \pgfdeclarehorizontalshading[frametitle.bg,frametitle right.bg]{bidi@beamer@RTL@frametitlesh
3581 color(0pt)=(frametitle right.bg);
3582 color(\paperwidth)=(frametitle.bg)
3583 }
3584
3585 \newcommand*{\bidi@beamer@frametitleshade}{%
3586 \if@RTLmain
3587 \pgfuses shading{bidi@beamer@RTL@frametitleshade}%
3588 \else
3589 \pgfuses shading{beamer@frametitleshade}%
3590 \fi
3591 }
3592
3593 \bidi@csundef{beamer@@tmpop@frametitle@shadow theme}
3594
3595 \defbeamertemplate*{frametitle}{shadow theme}
3596 {%
3597 \nointerlineskip%
3598 \vskip-2pt%
3599 \hbox{\leavevmode
3600 \advance\beamer@leftmargin by -12bp%
3601 \advance\beamer@rightmargin by -12bp%
3602 \beamer@tempdim=\textwidth%
3603 \advance\beamer@tempdim by \beamer@leftmargin%
3604 \advance\beamer@tempdim by \beamer@rightmargin%
3605 \hskip-\Gm@lmargin\hbox{%
3606 \setbox\beamer@tempbox=\hbox{\begin{minipage}[b]{\paperwidth}%
3607 \vbox{\vskip-.75ex%
3608 \bidi@beamer@leftskip0.3cm%
3609 \bidi@beamer@rightskip0.3cm plus1fil\leavevmode
3610 \bgroup\usebeamercolor[fg]{frametitle}\usebeamerfont{frametitle}\strut\insertframe
3611 \ifx\insertframesubtitle\@empty\else%
3612 {\usebeamerfont*{framesubtitle}\usebeamercolor[fg]{framesubtitle}\insertframesub

```



```

3613         \fi%
3614         \nointerlineskip
3615         \vbox{}%
3616         \end{minipage}}%
3617     \beamer@tempdim=\ht\beamer@tempbox%
3618     \advance\beamer@tempdim by 2pt%
3619     \begin{pgfpicture}{0pt}{0pt}{\paperwidth}{\beamer@tempdim}
3620     \begin{pgfscope}
3621         \pgfsetfillcolor{black}%
3622         \pgfpathrectangle{\pgfpoint{0pt}{-4pt}}{\pgfpoint{\paperwidth}{8pt}}%
3623         \pgfsetfading{beamer@topshadowmask}{}%
3624         \pgfusepath{fill}%
3625     \end{pgfscope}
3626     \begin{pgfscope}
3627         \usebeamercolor{frametitle right}%
3628         \pgfpathrectangle{\pgfpointorigin}{\pgfpoint{\paperwidth}{\beamer@tempdim}}%
3629         \pgfusepath{clip}%
3630         \pgftext[left,base]{\bidi@beamer@frametitleshade}%
3631     \end{pgfscope}
3632     \end{pgfpicture}
3633     \hskip-\paperwidth%
3634     \box\beamer@tempbox%
3635 }%
3636 \hskip-\Gm@rmargin%
3637 }%
3638 \vskip-2pt
3639 }
3640
3641 \AtBeginDocument{%
3642   \setbeamertemplate{frametitle}[shadow theme]%
3643 }
3644
3645

```

## 40 File beamerouterthemesmoothbars-xetex-bidi.def

```

3646 \ProvidesFile{beamerouterthemesmoothbars-xetex-bidi.def}[2022/06/09 v0.1 bidi adaptations for]
3647 \bidi\csundef{beamer@tmpop@headline@smoothbars theme}
3648
3649 \bidi\csundef{beamer@tmpop@frametitle@smoothbars theme}
3650
3651 \defbeamertemplate*{headline}{smoothbars theme}
3652 {%
3653   \pgfuses shading{beamer@barshade}%
3654   \vskip-0.05ex%
3655   \begin{beamer color box}[wd=\paperwidth,ht=1ex,dp=0ex]{empty}
3656   \begin{pgfpicture}
3657     \begin{pgfscope}%
3658       \ifbeamer@sb@subsection%
3659         \pgfsetfillcolor{subsection in head/foot.bg}%
3660       \else%
3661         \pgfsetfillcolor{section in head/foot.bg}%
3662       \fi%
3663       \pgfpathrectangle{\pgfpoint{-0.5\paperwidth}{-0.5ex}}{\pgfpoint{\paperwidth}{1ex}}%

```



```

3664     \pgfsetfading{beamer@belowframetitlemask}{}%
3665     \pgfusepath{fill}%
3666     \end{pgfscope}%
3667 \end{pgfpicture}%
3668 \end{beamercolorbox}%
3669 \ifbeamer@sb@subsection%
3670     \vskip-9.75ex%
3671 \else%
3672     \vskip-6.85ex%
3673 \fi%
3674 \begin{beamercolorbox}[ignorebg,ht=2.25ex,dp=3.75ex]{section in head/foot}
3675     \insertnavigation{\paperwidth}
3676 \end{beamercolorbox}%
3677 \ifbeamer@sb@subsection%
3678 \if@RTL
3679     \begin{beamercolorbox}[ignorebg,ht=2.125ex,dp=1.125ex,%
3680         rightskip=.3cm,leftskip=.3cm plus1fil]{subsection in head/foot}
3681     \else
3682     \begin{beamercolorbox}[ignorebg,ht=2.125ex,dp=1.125ex,%
3683         leftskip=.3cm,rightskip=.3cm plus1fil]{subsection in head/foot}
3684     \fi
3685     \usebeamerfont{subsection in head/foot}\insertsubsectionhead
3686 \end{beamercolorbox}%
3687 \fi%
3688 }%
3689
3690 \defbeamertheme*{frametitle}{smoothbars theme}
3691 {%
3692     \nointerlineskip%
3693     \vskip-0.19ex%
3694     \usebeamerfont{headline}%
3695     \begin{beamercolorbox}[wd=\paperwidth,ht=1ex,dp=1ex,vmode]{empty}
3696         \pgfuses shading{beamer@aboveframetitle}%
3697     \end{beamercolorbox}%
3698     \vskip-1ex%
3699     \nointerlineskip%
3700     \if@RTL
3701     \begin{beamercolorbox}[wd=\paperwidth,rightskip=.3cm,leftskip=.3cm plus1fil,vmode]{frameti
3702     \else
3703     \begin{beamercolorbox}[wd=\paperwidth,leftskip=.3cm,rightskip=.3cm plus1fil,vmode]{frameti
3704     \fi
3705     \vskip0.5ex%
3706     \usebeamerfont*{frametitle}\strut\insertframetitle%
3707     \ifx\insertframesubtitle\@empty%
3708         \strut\par%
3709     \else
3710         \par{\usebeamerfont*{framesubtitle}{\usebeamercolor[fg]{framesubtitle}\strut\insertf
3711         \fi%%
3712     \usebeamerfont{headline}%
3713     \vskip0.05ex%
3714 \end{beamercolorbox}%
3715 \nointerlineskip%
3716 \vskip-0.05ex%
3717 \begin{beamercolorbox}[wd=\paperwidth,ht=1ex,dp=0ex]{empty}

```



```

3718 \begin{pgfpicture}
3719   \begin{pgfscope}%
3720     \pgfsetfillcolor{frametitle.bg}%
3721     \pgfpathrectangle{\pgfpoint{-.5\paperwidth}{-.5ex}}{\pgfpoint{\paperwidth}{1ex}}%
3722     \pgfsetfading{beamer@belowframetitlemask}{}%
3723     \pgfusepath{fill}%
3724   \end{pgfscope}%
3725 \end{pgfpicture}%
3726 \end{beamercolorbox}%
3727 }
3728
3729 \AtBeginDocument{%
3730   \setbeamertemplate{frametitle}[smoothbars theme]%
3731 }
3732
3733

```

## 41 File beamerouterthemesmoothtree-xetex-bidi.def

```

3734 \ProvidesFile{beamerouterthemesmoothtree-xetex-bidi.def}[2022/06/09 v0.1 bidi adaptations fo
3735 \bidi\csundef{beamer@tmpop@headline@smoothtree theme}
3736
3737 \bidi\csundef{beamer@tmpop@frametitle@smoothtree theme}
3738
3739 \defbeamertemplate*{headline}{smoothtree theme}
3740 {%
3741   \pgfuses shading{beamer@treeshade}%
3742   \vskip-0.05ex%
3743   \begin{beamer colorbox}[wd=\paperwidth,ht=1ex,dp=0ex]{empty}
3744     \begin{pgfpicture}
3745       \begin{pgfscope}%
3746         \pgfsetfillcolor{subsection in head/foot.bg}%
3747         \pgfpathrectangle{\pgfpoint{-.5\paperwidth}{-.5ex}}{\pgfpoint{\paperwidth}{1ex}}%
3748         \pgfsetfading{beamer@belowframetitlemask}{}%
3749         \pgfusepath{fill}%
3750       \end{pgfscope}%
3751     \end{pgfpicture}%
3752   \end{beamer colorbox}%
3753   \vskip-9.15ex%
3754   \if@RTL
3755     \begin{beamer colorbox}[wd=\paperwidth,ht=1.125ex,dp=1.125ex,ignorebg,%
3756       rightskip=.3cm,leftskip=.3cm plus1fil]{title in head/foot}
3757   \else
3758     \begin{beamer colorbox}[wd=\paperwidth,ht=1.125ex,dp=1.125ex,ignorebg,%
3759       leftskip=.3cm,rightskip=.3cm plus1fil]{title in head/foot}
3760     \fi
3761     \usebeamerfont{title in head/foot}\insertshorttitle
3762   \end{beamer colorbox}
3763   \if@RTL
3764     \begin{beamer colorbox}[wd=\paperwidth,ht=2.125ex,dp=1.125ex,ignorebg,%
3765       rightskip=.3cm,leftskip=.3cm plus1fil]{section in head/foot}
3766   \else
3767     \begin{beamer colorbox}[wd=\paperwidth,ht=2.125ex,dp=1.125ex,ignorebg,%
3768       leftskip=.3cm,rightskip=.3cm plus1fil]{section in head/foot}

```



```

3769 \fi
3770 \usebeamerfont{section in head/footer}%
3771 \hskip6pt\insertsectionhead
3772 \end{beamercolorbox}
3773 \if@RTL
3774 \begin{beamercolorbox}[wd=\paperwidth,ht=2.125ex,dp=1.125ex,ignorebg,%
3775 rightskip=.3cm,leftskip=.3cm plus1fil]{subsection in head/footer}
3776 \else
3777 \begin{beamercolorbox}[wd=\paperwidth,ht=2.125ex,dp=1.125ex,ignorebg,%
3778 leftskip=.3cm,rightskip=.3cm plus1fil]{subsection in head/footer}
3779 \fi
3780 \usebeamerfont{subsection in head/footer}%
3781 \hskip12pt\insertsubsectionhead
3782 \end{beamercolorbox}
3783 \vskip-0.4ex%
3784 }
3785
3786 \defbeamertemplate*{frametitle}{smoothtree theme}
3787 {%
3788 \nointerlineskip%
3789 \vskip-0.05ex%
3790 \usebeamerfont{headline}%
3791 \begin{beamercolorbox}[wd=\paperwidth,ht=0.85ex,dp=0ex]{empty}
3792 \pgfuses shading{beamer@aboveframetitle}%
3793 \end{beamercolorbox}
3794 \nointerlineskip%
3795 \if@RTL
3796 \begin{beamercolorbox}[wd=\paperwidth,rightskip=.935cm,leftskip=.3cm plus1fil]{frametitle}
3797 \else
3798 \begin{beamercolorbox}[wd=\paperwidth,leftskip=.935cm,rightskip=.3cm plus1fil]{frametitle}
3799 \fi
3800 \vskip-1.2ex%
3801 \usebeamerfont*{frametitle}\strut\insertframetitle%
3802 \ifx\insertframesubtitle\@empty%
3803 \strut\par%
3804 \else
3805 \par{\usebeamerfont*{framesubtitle}\usebeamercolor[fg]{framesubtitle}\strut\insertframesubtitle}
3806 \fi%
3807 \usebeamerfont{headline}%
3808 \end{beamercolorbox}%
3809 \nointerlineskip
3810 \vskip-0.2ex%
3811 \begin{beamercolorbox}[wd=\paperwidth,ht=1ex,dp=0ex]{empty}
3812 \begin{pgfpicture}
3813 \begin{pgfscope}%
3814 \pgfsetfillcolor{frametitle.bg}%
3815 \pgfpathrectangle{\pgfpoint{-.5\paperwidth}{-0.5ex}}{\pgfpoint{\paperwidth}{1ex}}%
3816 \pgfsetfading{beamer@belowframetitlemask}{}%
3817 \pgfusepath{fill}%
3818 \end{pgfscope}%
3819 \end{pgfpicture}%
3820 \end{beamercolorbox}%
3821 }
3822

```



```

3823
3824 \AtBeginDocument{%
3825   \setbeamertheme{frametitle}[smoothtree theme]%
3826 }
3827
3828

```

## 42 File beamerouterthemetree-xetex-bidi.def

```

3829 \ProvidesFile{beamerouterthemetree-xetex-bidi.def}[2022/06/09 v0.1 bidi adaptations for beam
3830 \bidi@csundef{beamer@tmpop@headline@tree theme}
3831
3832 \defbeamertheme*{headline}{tree theme}
3833 {%
3834   \begin{beamercolorbox}[wd=\paperwidth,colsep=1.5pt]{upper separation line head}
3835   \end{beamercolorbox}
3836   \if@RTL
3837     \begin{beamercolorbox}[wd=\paperwidth,ht=2.5ex,dp=1.125ex,%
3838       rightskip=.3cm,leftskip=.3cm plus1fil]{title in head/foot}
3839     \else
3840     \begin{beamercolorbox}[wd=\paperwidth,ht=2.5ex,dp=1.125ex,%
3841       leftskip=.3cm,rightskip=.3cm plus1fil]{title in head/foot}
3842     \fi
3843     \usebeamerfont{title in head/foot}\insertshorttitle
3844   \end{beamercolorbox}
3845   \if@RTL
3846     \begin{beamercolorbox}[wd=\paperwidth,ht=2.5ex,dp=1.125ex,%
3847       rightskip=.3cm,leftskip=.3cm plus1fil]{section in head/foot}
3848     \else
3849     \begin{beamercolorbox}[wd=\paperwidth,ht=2.5ex,dp=1.125ex,%
3850       leftskip=.3cm,rightskip=.3cm plus1fil]{section in head/foot}
3851     \fi
3852     \usebeamerfont{section in head/foot}%
3853     \ifbeamer@tree@showhooks
3854       \setbox\beamer@tempbox=\hbox{\insertsectionhead}%
3855       \ifdim\wd\beamer@tempbox>1pt%
3856         \hskip2pt\raise1.9pt\hbox{\vrule width0.4pt height1.875ex\vrule width 5pt height0.
3857         \hskip1pt%
3858       \fi%
3859     \else%
3860       \hskip6pt%
3861     \fi%
3862     \insertsectionhead
3863   \end{beamercolorbox}
3864   \if@RTL
3865     \begin{beamercolorbox}[wd=\paperwidth,ht=2.5ex,dp=1.125ex,%
3866       rightskip=.3cm,leftskip=.3cm plus1fil]{subsection in head/foot}
3867     \else
3868     \begin{beamercolorbox}[wd=\paperwidth,ht=2.5ex,dp=1.125ex,%
3869       leftskip=.3cm,rightskip=.3cm plus1fil]{subsection in head/foot}
3870     \fi
3871     \usebeamerfont{subsection in head/foot}%
3872     \ifbeamer@tree@showhooks
3873       \setbox\beamer@tempbox=\hbox{\insertsubsectionhead}%

```



```

3874         \ifdim\wd\beamer@tempbox>1pt%
3875         \hskip9.4pt\raise1.9pt\hbox{\vrule width0.4pt height1.875ex\vrule width 5pt height
3876         \hskip1pt%
3877         \fi%
3878     \else%
3879         \hskip12pt%
3880         \fi%
3881         \insertsubsectionhead
3882     \end{beamercolorbox}
3883     \begin{beamercolorbox}[wd=\paperwidth,colsep=1.5pt]{lower separation line head}
3884     \end{beamercolorbox}
3885 }
3886
3887

```

### 43 File beamerthemeHannover-xetex-bidi.def

```

3888 \ProvidesFile{beamerthemeHannover-xetex-bidi.def}[2022/06/07 v0.1 bidi adaptations for beamer]
3889 \AtBeginDocument{%
3890     \if@RTLMain
3891         \setbeamertemplate{frametitle}[default][left]%
3892     \else
3893         \setbeamertemplate{frametitle}[default][right]%
3894     \fi
3895 }
3896
3897

```

### 44 File beamerthemeSingapore-xetex-bidi.def

```

3898 \ProvidesFile{beamerthemeSingapore-xetex-bidi.def}[2022/06/09 v0.1 bidi adaptations for beamer]
3899 \addtoheadtemplate{\pgfuses shading{beamer@headfade}\vskip-1.25cm}{ }
3900
3901 \beamertemplatedotitem
3902
3903 \AtBeginDocument{%
3904     \setbeamertemplate{frametitle}[default][center]%
3905 }
3906
3907

```

### 45 File bidi.sty

```

3908 \NeedsTeXFormat{LaTeX2e}
3909 \def\bididate{2022/09/22}
3910 \def\bidi@version{39.5}
3911 \ProvidesPackage{bidi}[\bididate\space v\bidi@version\space
3912 Bidirectional typesetting in plain TeX and LaTeX]
3913 \edef\@bidi@info{*****~J%
3914 * ~J%
3915 * bidi package (Bidirectional typesetting in~J%
3916 * plain TeX and LaTeX, using XeTeX engine)~J%
3917 * ~J%
3918 * Description: A convenient interface for~J%

```





```

3919 * typesetting bidirectional texts in plain TeX^^J%
3920 * and LaTeX. The package includes adaptations^^J%
3921 * for use with many other commonly-used packages.^^J%
3922 * ^^J%
3923 * Copyright (c) 2007--2022 Vafa Khalighi^^J%
3924 * Copyright (c) 2018--2020 bidi-tex GitHub organization^^J%
3925 * ^^J%
3926 * v\bidi@version, \bididate^^J%
3927 * ^^J%
3928 * License: LaTeX Project Public License, version^^J%
3929 * 1.3c or higher (your choice)^^J%
3930 * ^^J%
3931 * Location on CTAN: /macros/xetex/latex/bidi^^J%
3932 * ^^J%
3933 * Issue tracker: https://github.com/kvafa/bidi/issues^^J%
3934 * ^^J%
3935 * Discussions: https://github.com/kvafa/bidi/discussions^^J%
3936 * ^^J%
3937 * Primary author of bidi package: Vafa Khalighi.^^J%
3938 * ^^J%
3939 *****}
3940 \typeout{\@bidi@info}
3941 \edef\bidi@everyjob{\the\everyjob}
3942 \everyjob{\bidi@everyjob\typeout{\@bidi@info}}
3943 \newcommand*{\bidi@version}{\ensuremath\bidi@version}
3944 \newcommand*{\IfbidiPackageVersionLater}[1]{%
3945   \ifdim\bidi@version pt > #1 pt %
3946     \expandafter\@firstoftwo
3947   \else
3948     \expandafter\@secondoftwo
3949   \fi}
3950 \newcommand*{\IfbidiPackageVersionBefore}[1]{%
3951   \ifdim\bidi@version pt < #1 pt %
3952     \expandafter\@firstoftwo
3953   \else
3954     \expandafter\@secondoftwo
3955   \fi}
3956 \newcommand*{\IfbidiPackageVersion}[1]{%
3957   \ifdim\bidi@version pt = #1 pt %
3958     \expandafter\@firstoftwo
3959   \else
3960     \expandafter\@secondoftwo
3961   \fi}
3962 \RequirePackage{iftex}
3963 \RequireXeTeX
3964 \RequirePackage{bidiutils}
3965 \RequirePackage{zref-abspage}
3966 \RequirePackage{auxhook}
3967 \RequirePackage{ltxcmds}
3968 \RequirePackage{xkeyval}
3969 \eqnewif{\if@RTLmain}{\if@rlmain}
3970 \eqnewif{\if@RTL}{\if@rl}
3971 \newif\if@nonlatin
3972 \newif\if@bidi@perpage@footnote

```



```

3973 \newcommand*{\setlatin}{\@nonlatinfalse}
3974 \newcommand*{\setnonlatin}{\@nonlatintrue}
3975 \eqnewif{\if@RTLtab}{\if@tab@rl}
3976 \newif\if@hboxRconstruct
3977 \newif\if@bidi@pdfencrypt
3978 \newcommand*{\setRTLtable}{\@RTLtabtrue}
3979 \newcommand*{\setLTRtable}{\@RTLtabfalse}
3980 \newif\if@bidi@pdfm@mark
3981 \newif\if@RTLmarginpar
3982 \newif\if@LTRmarginpar
3983 \newif\if@LTRbibitems
3984 \newif\if@RTLbibitems
3985 \newif\if@extrafootnotefeatures
3986 \eqnewif{\if@RTL@footnote}{\if@rl@footnote}
3987 \newif\if@bidi@list@minipage@parbox
3988 \newif\if@bidi@list@minipage@parbox@not@nob
3989 \newcommand*{\@bidi@pdfcreator}{%
3990   The bidi package, v\bidi@version, \bididate
3991 }
3992 \newcommand*{\@bidi@pdfproducer}{%
3993   The bidi package, v\bidi@version, \bididate
3994 }
3995 \newcommand*{\@bidi@pdfcustomproperties}{%
3996   This is the bidi package, Version \bidi@version,
3997   Released September 22, 2022.
3998 }
3999 \newcommand*{\bidi@beamer@ragged}{%
4000 \@RTLmainfalse
4001 \AtBeginDocument{%
4002   \if@RTLmain\else
4003     \if@RTL\@RTLmaintrue%
4004     \else\@RTLmainfalse%
4005     \fi%
4006   \fi%
4007 }
4008 \let\n@xt=\
4009 \bidi@newrobustcmd*{\LRE}{\protect\pLRE}%
4010 \def\pLRE{\protect\afterassignment\moreLRE \let\n@xt= }
4011 \bidi@newrobustcmd*{\RLE}{\protect\pRLE}
4012 \def\pRLE{\protect\afterassignment\moreRLE \let\n@xt= }
4013 \def\bracetext{\ifcat\n@xt{\else\ifcat\n@xt}\fi
4014   \errmessage{Missing left brace has been substituted}\fi \bgroup}
4015 \newinsert\@bidi@copyins@
4016 \skip\@bidi@copyins@=12\p@
4017 \dimen\@bidi@copyins@=40pc
4018 \count\@bidi@copyins@=1000
4019 \newcommand*{\@bidi@inslogo@}{\insert\@bidi@copyins@{\@bidi@logo@}}
4020 \newcommand*{\@bidi@logo@hb@xt@columnwidth}{%
4021   \if@RTLmain
4022     \if@twocolumn
4023       \hboxR to \columnwidth
4024     \else
4025       \hboxR to \textwidth
4026     \fi

```



```

4027 \else
4028   \if@twocolumn
4029     \hboxL to \columnwidth
4030   \else
4031     \hboxL to \textwidth
4032   \fi
4033 \fi
4034 }
4035 \newcommand*{\@bidi@logo}[1]{%
4036   \toks@{%
4037     \setbox\z@\hbox{%
4038       \special{%
4039         pdf:image width 50pt height 50pt (#1)%
4040       }
4041     }%
4042     \dp\z@\z@
4043     \ht\z@=50pt
4044     \wd\z@=50pt
4045     \beginL
4046     \lower20pt\box\z@
4047     \endL
4048   }%
4049   \the\toks@
4050 }
4051 \newcommand*{\@bidi@logo@}{%
4052   \@bidi@logo@hb@xt@columnwidth
4053   {\hss\LRE{\bfseries Typeset by the \textsf{bidi}
4054     package\quad\@bidi@logo{bidi-logo.pdf}}}}
4055 \define@key{bidi@pdfencrypt}{userpassword}[]{%
4056   \def\bidi@pdfencrypt@userpassword{#1}%
4057 }
4058 \define@key{bidi@pdfencrypt}{ownerpassword}[]{%
4059   \def\bidi@pdfencrypt@ownerpassword{#1}%
4060 }
4061 \define@key{bidi@pdfencrypt}{keylength}[128]{%
4062   \def\bidi@pdfencrypt@keylength{#1}%
4063 }
4064 \define@key{bidi@pdfencrypt}{permissionflags}[2052]{%
4065   \def\bidi@pdfencrypt@permissionflags{#1}%
4066 }
4067 \newcommand*{\pdfencryptsetup}{\setkeys{bidi@pdfencrypt}}
4068 \@onlypreamble\pdfencryptsetup
4069 \input{latex-xetex-bidi.def}
4070 \input{loadingorder-xetex-bidi.def}
4071 \define@choicekey{bidi.sty}{RTLdocument}[\bidi@tempa\bidi@tempb]{on,off}[on]{%
4072   \ifcase\bidi@tempb\relax
4073     \@RTLtrue
4074   \or
4075     \@RTLfalse
4076   \fi}
4077 \define@choicekey{bidi.sty}{documentdirection}[\bidi@tempa\bidi@tempb]{righttoleft,lefttoright}
4078 \ifcase\bidi@tempb\relax
4079   \@RTLtrue
4080 \or

```



```

4081 \RTLfalse
4082 \fi}
4083 \define@choicekey{bidi.sty}{tabledirection}[\bidi@tempa\bidi@tempb]{righttoleft,lefttoright}
4084 \ifcase\bidi@tempb\relax
4085 \RTLtabtrue
4086 \or
4087 \RTLtabfalse
4088 \fi}
4089 \define@choicekey{bidi.sty}{script}[\bidi@tempa\bidi@tempb]{latin,nonlatin}[latin]{%
4090 \ifcase\bidi@tempb\relax
4091 \@nonlatinfalse
4092 \or
4093 \@nonlatintrue
4094 \fi}
4095 \define@choicekey{bidi.sty}{rldocument}[\bidi@tempa\bidi@tempb]{on,off}[on]{%
4096 \ifcase\bidi@tempb\relax
4097 \RTLtrue
4098 \or
4099 \RTLfalse
4100 \fi}
4101 \define@choicekey{bidi.sty}{footnoterule}[\bidi@tempa\bidi@tempb]{automatic,left,right,split}
4102 \ifcase\bidi@tempb\relax
4103 \autofootnoterule
4104 \or
4105 \leftfootnoterule
4106 \or
4107 \rightfootnoterule
4108 \or
4109 \SplitFootnoteRule
4110 \or
4111 \textwidthfootnoterule
4112 \fi}
4113 \define@choicekey{bidi.sty}{footnotedirection}[\bidi@tempa\bidi@tempb]{righttoleft,lefttoright}
4114 \ifcase\bidi@tempb\relax
4115 \RTL@footnotetrue
4116 \or
4117 \RTL@footnotefalse
4118 \fi}
4119 \define@choicekey{bidi.sty}{debugfootnotedirection}[\bidi@tempa\bidi@tempb]{on,off}[on]{%
4120 \ifcase\bidi@tempb\relax
4121 \footdir@debugtrue
4122 \or
4123 \footdir@debugfalse
4124 \fi}
4125 \define@choicekey{bidi.sty}{extrafootnotefeatures}[\bidi@tempa\bidi@tempb]{on,off}[on]{%
4126 \ifcase\bidi@tempb\relax
4127 \@extrafootnotefeaturestrue
4128 \or
4129 \@extrafootnotefeaturesfalse
4130 \fi}
4131
4132 \define@choicekey{bidi.sty}{DetectColumn}[\bidi@tempa\bidi@tempb]{on,off}[on]{%
4133 \ifcase\bidi@tempb\relax
4134 \def\bidi@firstcolumn@status@write{%

```



```

4135         \protected@write\@auxout{%
4136             {\string\bidicolumn@status
4137             {1}}}%
4138 \def\bidilastcolumn@status@write{%
4139     \protected@write\@auxout{%
4140         {\string\bidicolumn@status{2}}}%
4141 \or
4142     \let\bidifirstcolumn@status@write\relax
4143     \let\bidilastcolumn@status@write\relax
4144 \fi}
4145
4146 \define@choicekey{bidi.sty}{logo}[\bidi@tempa\bidi@tempb]{on,off}[on]{%
4147     \ifcase\bidi@tempb\relax
4148         \AtBeginDocument{\@bidi@inslogo@}%
4149     \or
4150         \let\@bidi@logo@\@empty \let\@bidi@inslogo@\@empty
4151     \fi}
4152
4153 \define@choicekey{bidi.sty}{pdfinfo}[\bidi@tempa\bidi@tempb]{on,off}[on]{%
4154     \ifcase\bidi@tempb\relax
4155         \@bidi@pdfm@marktrue
4156     \or
4157         \@bidi@pdfm@markfalse
4158     \fi}
4159
4160 % The `perpagefootnote' option is documented in UK TeX FAQ at
4161 % <https://texfaq.org/FAQ-footnpp> (see last paragraph)
4162
4163 \define@choicekey{bidi.sty}{perpagefootnote}[\bidi@tempa\bidi@tempb]{on,off}[on]{%
4164     \ifcase\bidi@tempb\relax
4165         \@bidi@perpage@footnotetrue
4166     \or
4167         \@bidi@perpage@footnotefalse
4168     \fi}
4169
4170 \ExecuteOptionsX{%
4171     DetectColumn=off%
4172 }
4173
4174 \ProcessOptionsX
4175
4176 \pdfencryptsetup{%
4177     userpassword,%
4178     ownerpassword,%
4179     keylength,%
4180     permissionflags%
4181 }
4182
4183 \if@extrafootnotefeatures
4184     \input{extrafootnotefeatures-xetex-bidi.def}
4185 \fi
4186 \newcount\bidi@digits
4187 \XeTeXinterchartokenstate=\@ne
4188 \newXeTeXintercharclass\bidi@digits@charclass

```



```

4189 \newXeTeXintercharclass\bidisepmark@charclass
4190 \XeTeXcharclass `\. \bidisepmark@charclass
4191 \XeTeXcharclass `\- \bidisepmark@charclass
4192 \bidi@digits=`\0 \loop \XeTeXcharclass \bidi@digits \bidi@digits@charclass \ifnum\bidi@digit
4193 \bidi@digits=`\ \loop \XeTeXcharclass \bidi@digits \bidi@digits@charclass \ifnum\bidi@digit
4194 \bidi@digits=`\ \loop \XeTeXcharclass \bidi@digits \bidi@digits@charclass \ifnum\bidi@digit
4195 \XeTeXinterchartoks \bidisepmark@charclass \bidi@digits@charclass = {\DigitsDotDashInterCh
4196 \newcommand*{\DigitsDotDashInterCharToks}{\if@nonlatin\char"200F \fi}
4197 \bidi@AtEndPreamble{%
4198   \if@bidi@perpage@footnote
4199     \RequirePackage{bidi-perpage}%
4200     \ResetCounterPerPage{footnote}%
4201   \fi
4202   \ifx\bidi@pdfencrypt@ownerpassword\bidi@empty
4203     \ifx\bidi@pdfencrypt@userpassword\bidi@empty
4204       \@bidi@pdfencryptfalse
4205     \else
4206       \@bidi@pdfencrypttrue
4207     \fi
4208   \else
4209     \@bidi@pdfencrypttrue
4210   \fi
4211   \if@bidi@pdfencrypt
4212     \special{pdf:encrypt
4213       userpw (\bidi@pdfencrypt@userpassword)
4214       ownerpw (\bidi@pdfencrypt@ownerpassword)
4215       length \bidi@pdfencrypt@keylength
4216       perm \bidi@pdfencrypt@permissionflags
4217     }%
4218   \fi
4219 }
4220 \AtEndDocument{%
4221   \special{pdf:%
4222     docinfo<<%
4223     \if@bidi@pdfm@mark
4224       /Creator(\@bidi@pdfcreator)%
4225       /Producer(\@bidi@pdfproducer)%
4226     \fi
4227     /BIDI.Fullbanner(\@bidi@pdfcustomproperties)%
4228     \if@bidi@csdef{@xepersian@pdfcustomproperties}{%
4229       /XEPERSIAN.Fullbanner(\@xepersian@pdfcustomproperties)%
4230     }{}%
4231     >>%
4232   }%
4233 }

```

## 46 File bidi.tex

```

4234 \def\bididate{2022/09/22}
4235 \catcode`@=11
4236 \def\bidi@version{39.5}
4237 \let \protect \relax
4238 \newlinechar`^^J
4239 \edef\@bidi@info{*****~J%

```



```

4240 * ^^J%
4241 * bidi package (Bidirectional typesetting in^^J%
4242 * plain TeX and LaTeX, using XeTeX engine)^^J%
4243 * ^^J%
4244 * Description: A convenient interface for^^J%
4245 * typesetting bidirectional texts in plain TeX^^J%
4246 * and LaTeX. The package includes adaptations^^J%
4247 * for use with many other commonly-used packages.^^J%
4248 * ^^J%
4249 * Copyright (c) 2007--2022 Vafa Khalighi^^J%
4250 * Copyright (c) 2018--2020 bidi-tex GitHub organization^^J%
4251 * ^^J%
4252 * v\bidi@version, \bididate^^J%
4253 * ^^J%
4254 * License: LaTeX Project Public License, version^^J%
4255 * 1.3c or higher (your choice)^^J%
4256 * ^^J%
4257 * Location on CTAN: /macros/xetex/latex/bidi^^J%
4258 * ^^J%
4259 * Issue tracker: https://github.com/kvafa/bidi/issues^^J%
4260 * ^^J%
4261 * Discussions: https://github.com/kvafa/bidi/discussions^^J%
4262 * ^^J%
4263 * Primary author of bidi package: Vafa Khalighi.^^J%
4264 * ^^J%
4265 * *****}
4266 \message{\@bidi@info}
4267 \edef\bidi@everyjob{\the\everyjob}
4268 \everyjob{\bidi@everyjob\message{\@bidi@info}}
4269 \def\bidiversion{%
4270   \relax
4271   \ifmode
4272     \bidi@version
4273   \else
4274     $\bidi@version$
4275   \fi
4276 }
4277 \input iftex.sty
4278 \RequireXeTeX
4279 \newif\if@bidi@pdfm@mark
4280 \newif\if@RTLmain
4281 \newif\if@RTL
4282 \newif\if@hboxRconstruct
4283 \newif\if@sendif
4284 \newif\if@RTL@footnote
4285 \@RTLmainfalse
4286 \def\setRTLmain{%
4287   \if@RTLmain\else
4288     \if@RTL\@RTLmaintrue%
4289     \else\@RTLmainfalse%
4290   \fi%
4291   \fi%
4292 }
4293 \let\n@xt=\

```



```

4294 \protected\def\LRE{\protect\pLRE}%
4295 \def\pLRE{\protect\afterassignment\moreLRE \let\n@xt= }
4296 \protected\def\RLE{\protect\pRLE}
4297 \def\pRLE{\protect\afterassignment\moreRLE \let\n@xt= }
4298 \def\bracetext{\ifcat\n@xt{\else\ifcat\n@xt}\fi
4299 \errmessage{Missing left brace has been substituted}\fi \bgroup}
4300 \newinsert\@bidi@copyins@
4301 \skip\@bidi@copyins@=12\p@
4302 \dimen\@bidi@copyins@=40pc
4303 \count\@bidi@copyins@=1000
4304 \def\@bidi@inslogo@{\insert\@bidi@copyins@\@bidi@logo@}
4305 \def\@bidi@logo@hb@xt@{%
4306 \if@RTLmain
4307 \hboxR to
4308 \else
4309 \hboxL to
4310 \fi
4311 }
4312 \def\@bidi@logo#1{%
4313 \toks@{%
4314 \setbox\z@\hbox{%
4315 \special{%
4316 pdf:image width 50pt height 50pt (#1)%
4317 }
4318 }%
4319 \dp\z@\z@
4320 \ht\z@=50pt
4321 \wd\z@=50pt
4322 \beginL
4323 \lower20pt\box\z@
4324 \endL
4325 }%
4326 \the\toks@
4327 }
4328 \def\@bidi@logo@{\@bidi@logo@hb@xt@\hsize{\hss\LRE{\bf Typeset by the bidi package\quad\@bidi@logo@}}
4329 \def\nobidilogo{\let\@bidi@logo@\@empty \let\@bidi@inslogo@\@empty}
4330 \def\@bidi@pdfcreator{%
4331 The bidi package, v\@bidi@version, \@bidi@date
4332 }
4333 \def\@bidi@pdfproducer{%
4334 The bidi package, v\@bidi@version, \@bidi@date
4335 }
4336 \def\@bidi@pdfcustomproperties{%
4337 This is the bidi package, Version \@bidi@version,
4338 Released September 22, 2022.
4339 }
4340 \def\@bidi@pdfm@mark{%
4341 \special{pdf:
4342 docinfo<<%
4343 \if\@bidi@pdfm@mark
4344 /Creator(\@bidi@pdfcreator)%
4345 /Producer(\@bidi@pdfproducer)%
4346 \fi
4347 /BIDI.Fullbanner(\@bidi@pdfcustomproperties)%

```





```

4348     >>%
4349     }%
4350 }
4351 \def\bidipdfinfoon{\@bidi@pdfm@marktrue}
4352 \def\bidipdfinfooff{\@bidi@pdfm@markfalse}
4353 \input plain-xetex-bidi.def
4354 \@bidi@inslogo@
4355 \outer\def\bye{\par\vfill\supereject\bidi@pdfm@mark@end}
4356 \catcode`\@=12
4357 \bidipdfinfoon

```

## 47 File bidi2in1.sty

```

4358 \NeedsTeXFormat{LaTeX2e}
4359 \ProvidesPackage{bidi2in1}
4360 \pagestyle{plain}
4361 \newcount\evenpage
4362 \newcount\oddpag
4363 \twocolumn
4364 \def\@oddfoot{\evenpage=\thepage%
4365 \multiply\evenpage by 2%
4366 \oddpag=\the\evenpage%
4367 \advance\oddpag by -1%
4368 \hfil\the\evenpage\hfil\hfil\the\oddpag\hfil}%
4369 \def\@evenfoot{\evenpage=\thepage%
4370 \multiply\evenpage by 2%
4371 \oddpag=\the\evenpage%
4372 \advance\oddpag by -1%
4373 \hfil\the\oddpag\hfil\hfil\the\evenpage\hfil}%
4374 \textwidth 9.49in
4375 \textheight 6.7in
4376 \columnsep 0.9in
4377 \columnseprule 0.125pt
4378 \headheight 0cm
4379 \topmargin 0in
4380 \marginparwidth 0in
4381 \marginparsep 0in
4382 \hoffset 0.05in % Corrected
4383 \voffset -0.5in %top margin space is 1.0in by default
4384 \oddsidemargin 0in
4385 \evensidemargin 0in
4386 \headsep 0cm
4387 \topskip 0cm
4388 \parskip 0.15in %
4389 \headsep 0pt
4390 \special{papersize=11.69in,8.26in}
4391 \renewcommand\maketitle{\par
4392 \begingroup
4393 \renewcommand\thefootnote{\@fnsymbol\c@footnote}%
4394 \def\@makefnmark{\rlap{\@textsuperscript{\normalfont\@thefnmark}}}%
4395 \long\def\@makefntext##1{\parindent 1em\noindent
4396 \hb@xt@1.8em{%
4397 \hss\@textsuperscript{\normalfont\@thefnmark}}##1}%
4398 \@maketitle

```



```

4399 \@thanks
4400 \endgroup
4401 \setcounter{footnote}{0}%
4402 \global\let\thanks\relax
4403 \global\let\maketitle\relax
4404 \global\let\@maketitle\relax
4405 \global\let\@thanks\@empty
4406 \global\let\@author\@empty
4407 \global\let\@date\@empty
4408 \global\let\@title\@empty
4409 \global\let\title\relax
4410 \global\let\author\relax
4411 \global\let\date\relax
4412 \global\let\and\relax
4413 }

```

## 48 File bidicode.sty

```

4414 \NeedsTeXFormat{LaTeX2e}
4415 \ProvidesPackage{bidicode}
4416 \RequirePackage{xcolor}
4417 \RequirePackage{showexpl}
4418 \definecolor{hellgelb}{rgb}{1,1,0.85}
4419 \definecolor{colKeys}{rgb}{0,0,1}
4420 \definecolor{colCS}{rgb}{0,0,1}
4421 \definecolor{colIdentifier}{rgb}{0,0,0}
4422 \definecolor{colComments}{rgb}{1,0,0}
4423 \definecolor{colString}{rgb}{0,0.5,0}
4424 \lstset{%
4425     language=[LaTeX]TeX,%
4426     float=hbp,%
4427     basicstyle=\ttfamily\small,%
4428     identifierstyle=\color{colIdentifier},%
4429     keywordstyle=\color{colKeys},%
4430     texcsstyle=\color{colCS},%
4431     stringstyle=\color{colString},%
4432     commentstyle=\color{colComments},%
4433     backgroundcolor=\color{hellgelb},%
4434     columns=flexible,%
4435     tabsize=4,%
4436     extendedchars=true,%
4437     showspaces=false,%
4438     showstringspaces=false,%
4439     numbers=left,%
4440     numbersep=0.9em,%
4441     numberstyle=\tiny,%
4442     frame=single,%
4443     captionpos=b,%
4444     xleftmargin=1em,%
4445     breaklines=true,%
4446     breakautoindent=false,%
4447     breakindent=0pt,%
4448     escapeinside=**,%
4449     pos=r,%

```



```

4450     explpreset={%
4451         xleftmargin=1em,%
4452         columns=flexible,%
4453         language=[LaTeX]TeX%
4454     },%
4455     moretexcs={%
4456         bididate,%
4457         bidiversion,%
4458         deflatinfont,%
4459         defpersianfont,%
4460         ding,%
4461         endLTR,%
4462         endRTL,%
4463         false,%
4464         falsesymbol,%
4465         junicode,%
4466         lr,%
4467         LR,%
4468         LRE,%
4469         LTR,%
4470         maketitle,%
4471         Nastaliq,%
4472         newfontfamily,%
4473         Parsifont,%
4474         part,%
4475         RL,%
4476         RLE,%
4477         RTL,%
4478         RTLcases,%
4479         SepMark,%
4480         setLR,%
4481         setLTR,%
4482         setRL,%
4483         setRTL,%
4484         settextfont,%
4485         subsection,%
4486         subsubsection,%
4487         tableofcontents,%
4488         text,%
4489         theequation,%
4490         thesection,%
4491         true,%
4492         truesymbol,%
4493         XePersian,%
4494         xepersiandate,%
4495         xepersianversion%
4496     },%
4497 }
4498 \newcommand\HLON{%
4499     \gdef\lst@alloverstyle##1{%
4500         \fboxrule=0pt
4501         \fboxsep=0pt
4502         \fcolorbox{hellgelb}{hellgelb}{\bfseries\strut##1}%
4503     }}

```



```

4504 \newcommand\HLOFF{%
4505   \xdef\lst@alloverstyle##1{##1}%
4506 }
4507 \newcommand\Larg [1]{\normalfont\itshape#1\}/}
4508 \newcommand\Larga[1]{\langle\Larg{#1}\rangle$}
4509 \newcommand\Largb[1]{\lcb\Larg{#1}\rcb}
4510 \newcommand\Largs[1]{\lsb\Larg{#1}\rsb}
4511 \newcommand\Largr[1]{\lrb\Larg{#1}\rrb}
4512 \newcommand\LBEG[1]{\normalfont\ttfamily\bs{}begin\lcb#1\rcb}}
4513 \newcommand\LEND[1]{\normalfont\ttfamily\bs{}end\lcb#1\rcb}}
4514
4515 \DeclareRobustCommand\bs{\normalfont\ttfamily\symbol{92}}
4516 \DeclareRobustCommand\lcb{\normalfont\ttfamily\char`{}}
4517 \DeclareRobustCommand\rcb{\normalfont\ttfamily\char`{}}
4518 \DeclareRobustCommand\lsb{\normalfont\ttfamily{}}
4519 \DeclareRobustCommand\rsb{\normalfont\ttfamily{}}
4520 \DeclareRobustCommand\lrb{\normalfont\ttfamily{}}
4521 \DeclareRobustCommand\rrb{\normalfont\ttfamily{}}
4522
4523 \def\Lcs#1{\nxLcs{#1}}
4524 \def\LcsStar#1{\nxLcs{#1}\OptArg*{}}
4525 \def\nxLcs#1{\texttt{\symbol{92}}#1}}
4526
4527 \def\Coordx#1{$x_{#1}$}
4528 \def\Coordy#1{$y_{#1}$}
4529 \def\Coordz#1{$z_{#1}$}
4530 \def\Coord#1{\Coordx{#1},\kern 1pt\Coordy{#1}}
4531 \def\Coordn{\Coordx{n},\kern 1pt\Coordy{n}}
4532 \def\CoordIII#1{\Coordx{#1},\kern 1pt\Coordy{#1},\kern 1pt\Coordz{#1}}
4533 \def\CAny{\Coordx{}},\kern 1pt\Coordy{}
4534 \def\CIIAny{\Coordx{}},\kern 1pt\Coordy{}},\kern 1pt\Coordz{}
4535 \def\coord#1{(\Coordx{#1},\kern 1pt\Coordy{#1})}
4536 \def\coordn{(\Coordx{n},\kern 1pt\Coordy{n})}
4537 \def\coordiii#1{(\Coordx{#1},\kern 1pt\Coordy{#1},\kern 1pt\Coordz{#1})}
4538 \def\coordx#1{($x_{#1}$)}
4539 \def\coordy#1{($y_{#1}$)}
4540 \def\coordz#1{($z_{#1}$)}
4541 \def\cAny{(\Coordx{}},\kern 1pt\Coordy{}}
4542 \def\ciiAny{(\Coordx{}},\kern 1pt\Coordy{}},\kern 1pt\Coordz{}}
4543
4544 \newsavebox{\boxdef}
4545 \newenvironment{BDef}
4546   {\begin{lrbox}\boxdef
4547     \def\arraystretch{1.0}
4548     \begin{tabular}{@{}l@{}l@{}l@{}}
4549   }
4550   {\end{tabular}\end{lrbox}}
4551
4552   {\BCmd\fbbox{\usebox\boxdef}\endBCmd}
4553   \aftergroup\@afterindentfalse\aftergroup\@afterheading
4554 }
4555
4556 \newenvironment{BDef*}
4557   {\begin{lrbox}\boxdef

```



```

4558     \def\arraystretch{1.0}
4559     \begin{tabular}{@{}l@{}l@{}l@{}}
4560   }
4561   {\end{tabular}\end{lrbox}
4562   {\begin{BCmd*}\fbox{\usebox\boxdef}\end{BCmd*}}
4563   \aftergroup\@afterindentfalse\aftergroup\@afterheading
4564 }
4565 \newenvironment{BCmd}{
4566   \@beginparpenalty-\@lowpenalty
4567   \topsep\BDefaboveskip
4568   \fboxsep3pt
4569   \flushleft}
4570 {\@endparpenalty\@M
4571   \topsepadd\BDefbelowskip
4572   \endflushleft}
4573
4574 \newenvironment{BCmd*}{
4575   \@beginparpenalty\@M
4576   \topsep\BDefinlineskip
4577   \fboxsep3pt
4578   \flushleft}
4579 {\@endparpenalty5000
4580   \endflushleft}
4581
4582 \newskip\BDefaboveskip
4583 \newskip\BDefbelowskip
4584 \newskip\BDefinlineskip
4585 \setlength\BDefaboveskip{10pt plus 4pt}
4586 \setlength\BDefbelowskip{6pt}
4587 \setlength\BDefinlineskip{6pt}
4588
4589 \def\OptArgs{\colorbox{black!20}{\texttt{[Options]}}\kern1pt}
4590 \def\OptArg{\@ifnextchar*\OptArgi{\OptArgii*}}
4591 \def\OptArgi*#1{\colorbox{black!20}{\texttt{#1}}\kern1pt}
4592 \def\OptArgii*#1{\colorbox{black!20}{\texttt{[#1]}}\kern1pt}

```

## 49 File bidiftnxtra.sty

```

4593 \NeedsTeXFormat{LaTeX2e}
4594 \ProvidesPackage{bidiftnxtra}
4595 \newtoks\bidip@ftn
4596 \let\FN@sffootnote\footnote
4597 \let\FN@sff@LTRfootnote\LTRfootnote
4598 \let\FN@sff@RTLfootnote\RTLfootnote
4599 \def\footnote{\ifx\protect\@typeset@protect
4600   \expandafter\FN@sff@footnote
4601   \else
4602     \expandafter\FN@sff@gobble@opt
4603   \fi
4604 }
4605 \def\LTRfootnote{\ifx\protect\@typeset@protect
4606   \expandafter\FN@sff@LTRfootnote
4607   \else
4608     \expandafter\FN@sff@gobble@opt

```



```

4609 \fi
4610 }
4611 \def\RTLfootnote{\ifx\protect\@typeset@protect
4612 \expandafter\FN@sfi@RTLfootnote
4613 \else
4614 \expandafter\FN@sfi@gobble@opt
4615 \fi
4616 }
4617 \edef\FN@sfi@gobble@opt{\noexpand\protect
4618 \expandafter\noexpand\csname FN@sfi@gobble@opt \endcsname}
4619 \expandafter\def\csname FN@sfi@gobble@opt \endcsname{%
4620 \@ifnextchar[%]
4621 \FN@sfi@gobble@twobrace
4622 \@gobble
4623 }
4624 \def\FN@sfi@gobble@twobrace[#1]#2{}
4625 \let\FN@sfi@footnotemark\footnotemark
4626 \def\footnotemark{\ifx\protect\@typeset@protect
4627 \expandafter\FN@sfi@footnotemark
4628 \else
4629 \expandafter\FN@sfi@gobble@optonly
4630 \fi
4631 }
4632 \edef\FN@sfi@gobble@optonly{\noexpand\protect
4633 \expandafter\noexpand\csname FN@sfi@gobble@optonly \endcsname}
4634 \expandafter\def\csname FN@sfi@gobble@optonly \endcsname{%
4635 \@ifnextchar[%]
4636 \FN@sfi@gobble@brace
4637 }%
4638 }
4639 \def\FN@sfi@gobble@brace[#1]{}
4640 \def\@tabular{%
4641 \leavevmode \hbox \bgroup
4642 \let\@footnotetext\@bidi@p@ftntext
4643 \let\@LTRfootnotetext\@bidi@p@LTRftntext
4644 \let\@RTLfootnotetext\@bidi@p@RTLftntext
4645 \let\@xfootnotenext\@bidi@p@xftntext
4646 \let\@xfootnote\@bidi@p@xfootnote
4647 \let\@xLTRfootnotenext\@bidi@p@xLTRftntext
4648 \let\@xLTRfootnote\@bidi@p@xLTRfootnote
4649 \let\@xRTLfootnotenext\@bidi@p@xRTLftntext
4650 \let\@xRTLfootnote\@bidi@p@xRTLfootnote
4651 \if@RTLtab\beginR \fi
4652 $\let\@acol\@tabacol
4653 \let\@class\@tabclassz
4654 \let\@classiv\@tabclassiv \let\\\@tabularcr\@tabarray}
4655 \def\endtabular{\crrc\egroup\if@RTLtab\egroup\endR\egroup\fi
4656 \egroup $\if@RTLtab\endR\fi\egroup
4657 \ifx\@capttype\@undefined
4658 \global\@bidi@p@ftn\expandafter{\expandafter}\the\@bidi@p@ftn\fi}
4659 \long\def\@bidi@p@ftntext#1{%
4660 \edef\@tempy{\the\@bidi@p@ftn\noexpand\footnotetext[\the\csname c@\@mpfn\endcsname]}}%
4661 \global\@bidi@p@ftn\expandafter{\@tempy{#1}}}%
4662 \long\def\@bidi@p@LTRftntext#1{%

```



```

4663 \edef\@tempyi{\the\bidip@ftn\noexpand\LTRfootnotetext[\the\csname c@\mpfn\endcsname]}}%
4664 \global\bidip@ftn\expandafter{\@tempyi{#1}}}%
4665 \long\def\bidip@RTLftntext#1{%
4666 \edef\@tempyii{\the\bidip@ftn\noexpand\RTLfootnotetext[\the\csname c@\mpfn\endcsname]}}%
4667 \global\bidip@ftn\expandafter{\@tempyii{#1}}}%
4668
4669
4670 \long\def\bidip@xftntext[#1]#2{%
4671 \global\bidip@ftn\expandafter{\the\bidip@ftn\footnotetext[#1]{#2}}}
4672
4673 \long\def\bidip@xLTRftntext[#1]#2{%
4674 \global\bidip@ftn\expandafter{\the\bidip@ftn\LTRfootnotetext[#1]{#2}}}
4675
4676 \long\def\bidip@xRTLftntext[#1]#2{%
4677 \global\bidip@ftn\expandafter{\the\bidip@ftn\RTLfootnotetext[#1]{#2}}}
4678
4679
4680 \def\bidip@xfootnote[#1]{%
4681 \begingroup
4682 \csname c@\mpfn\endcsname #1\relax
4683 \unrestored@protected@xdef\@thefnmark{\thempfn}%
4684 \endgroup
4685 \@footnotemark\bidip@xftntext[#1]}
4686
4687
4688 \def\bidip@xLTRfootnote[#1]{%
4689 \begingroup
4690 \csname c@\mpfn\endcsname #1\relax
4691 \unrestored@protected@xdef\@thefnmark{\thempfn}%
4692 \endgroup
4693 \@footnotemark\bidip@xLTRftntext[#1]}
4694
4695
4696 \def\bidip@xRTLfootnote[#1]{%
4697 \begingroup
4698 \csname c@\mpfn\endcsname #1\relax
4699 \unrestored@protected@xdef\@thefnmark{\thempfn}%
4700 \endgroup
4701 \@footnotemark\bidip@xRTLftntext[#1]}
4702
4703 \def\@xfloat #1[#2]{%
4704 \@nodocument
4705 \def \@capttype {#1}%
4706 \def \@fps {#2}%
4707 \@onelevel@sanitize \@fps
4708 \def \reserved@b {!}%
4709 \ifx \reserved@b \@fps
4710 \@fpsadddefault
4711 \else
4712 \ifx \@fps \@empty
4713 \@fpsadddefault
4714 \fi
4715 \fi
4716 \ifhmode

```



```

4717 \@bsphack
4718 \@floatpenalty -\@Mii
4719 \else
4720 \@floatpenalty-\@Miii
4721 \fi
4722 \ifinner
4723 \@parmoderr\@floatpenalty\z@
4724 \else
4725 \@next\@currbox\@freelist
4726 {%
4727 \@tempcnta \sixt@@n
4728 \expandafter \@tfor \expandafter \reserved@a
4729 \expandafter :\expandafter =\@fps
4730 \do
4731 {%
4732 \if \reserved@a h%
4733 \ifodd \@tempcnta
4734 \else
4735 \advance \@tempcnta \@ne
4736 \fi
4737 \fi
4738 \if \reserved@a t%
4739 \@setfpsbit \tw@
4740 \fi
4741 \if \reserved@a b%
4742 \@setfpsbit 4%
4743 \fi
4744 \if \reserved@a p%
4745 \@setfpsbit 8%
4746 \fi
4747 \if \reserved@a !%
4748 \ifnum \@tempcnta>15
4749 \advance\@tempcnta -\sixt@@n\relax
4750 \fi
4751 \fi
4752 }%
4753 \@tempcntb \csname ftype@\@capttype \endcsname
4754 \multiply \@tempcntb \@xxxii
4755 \advance \@tempcnta \@tempcntb
4756 \global \count\@currbox \@tempcnta
4757 }%
4758 \@fltovf
4759 \fi
4760 \global \setbox\@currbox
4761 \color@vbox
4762 \normalcolor
4763 \vbox \bgroup
4764 \let\@footnotetext\@bidi@p@ftntext
4765 \let\@LTRfootnotetext\@bidi@p@LTRftntext
4766 \let\@RTLfootnotetext\@bidi@p@RTLftntext
4767 \let\@xfootnotenext\@bidi@p@xftntext
4768 \let\@xfootnote\@bidi@p@xfootnote
4769 \let\@xLTRfootnotenext\@bidi@p@xLTRftntext
4770 \let\@xLTRfootnote\@bidi@p@xLTRfootnote

```





```

4771      \let\@xRTLfootnotenext\@xRTLftntext
4772      \let\@xRTLfootnote\@xRTLfootnote
4773      \hsize\columnwidth
4774      \@parboxrestore
4775      \@floatboxreset
4776 }
4777 \def \@endfloatbox{%
4778     \par\vskip\z@skip      %% \par\vskip\z@ added 15 Dec 87
4779     \@minipagefalse
4780     \outer@nobreak
4781     \egroup                %% end of vbox
4782     \global\@xRTLftntext\@xRTLftntext
4783     \color@endbox
4784 }

```

## 50 File bidimoderncv.cls

```

4785 \NeedsTeXFormat{LaTeX2e}
4786 \ProvidesClass{bidimoderncv}
4787 \newif\if@DEBUG\@DEBUGfalse
4788 \DeclareOption{a4paper}{
4789     \setlength\paperheight{297mm}
4790     \setlength\paperwidth{210mm}}
4791 \DeclareOption{a5paper}{
4792     \setlength\paperheight{210mm}
4793     \setlength\paperwidth{148mm}}
4794 \DeclareOption{b5paper}{
4795     \setlength\paperheight{250mm}
4796     \setlength\paperwidth{176mm}}
4797 \DeclareOption{letterpaper}{
4798     \setlength\paperheight{11in}
4799     \setlength\paperwidth{8.5in}}
4800 \DeclareOption{legalpaper}{
4801     \setlength\paperheight{14in}
4802     \setlength\paperwidth{8.5in}}
4803 \DeclareOption{executivepaper}{
4804     \setlength\paperheight{10.5in}
4805     \setlength\paperwidth{7.25in}}
4806 \DeclareOption{landscape}{
4807     \setlength\@tempdima{\paperheight}
4808     \setlength\paperheight{\paperwidth}
4809     \setlength\paperwidth{\@tempdima}}
4810 \newcommand\@ptsize{}
4811 \DeclareOption{10pt}{\renewcommand\@ptsize{0}}
4812 \DeclareOption{11pt}{\renewcommand\@ptsize{1}}
4813 \DeclareOption{12pt}{\renewcommand\@ptsize{2}}
4814 \DeclareOption{draft}{\setlength\overfullrule{5pt}}
4815 \DeclareOption{final}{\setlength\overfullrule{0pt}}
4816 \newif\if@colour\@colourtrue
4817 \DeclareOption{nocolour}{\@colourfalse}
4818 \ExecuteOptions{a4paper,11pt,colour,final}
4819 \ProcessOptions\relax
4820 \input{size1\@ptsize.clo}
4821 \RequirePackage{color}

```



```

4822 \RequirePackage{graphicx}
4823 \RequirePackage{ifthen}
4824 \RequirePackage{marvosym}
4825 \addtolength{\oddsidemargin}{-54pt}
4826 \addtolength{\textwidth}{109pt}
4827 \addtolength{\topmargin}{-70pt}
4828 \addtolength{\textheight}{122pt}
4829 \addtolength{\marginparsep}{-5pt}
4830 \addtolength{\marginparwidth}{-10pt}
4831 \RequirePackage{url}
4832 \RequirePackage{hyperref}
4833 \hypersetup{%
4834   breaklinks,
4835   baseurl      = http://,%
4836   pdfborder    = 0 0 0,%
4837   pdfpagemode  = UseNone,%
4838   pdfstartpage = 1}
4839 \AtEndOfClass{%
4840   \AtBeginDocument{%
4841     \hypersetup{%
4842       pdfauthor      = \@firstname~\@familyname,%
4843       pdftitle       = \@title,%
4844       pdfsubject     = \@firstname~\@familyname,%
4845       pdfkeywords    = \@resumename~\@firstname~\@familyname}}}
4846 \urlstyle{tt}
4847 \RequirePackage{fancyhdr}
4848 \fancypagestyle{plain}{%
4849   \renewcommand{\headrulewidth}{0pt}
4850   \renewcommand{\footrulewidth}{0pt}
4851   \fancyhf{}}
4852 \pagestyle{plain}
4853 \setlength\lineskip{1\p@}
4854 \setlength\normallineskip{1\p@}
4855 \renewcommand\baselinestretch{}
4856 \setlength{\parindent}{0pt}
4857 \setlength{\parskip}{0pt}
4858 \setlength\columnsep{10\p@}
4859 \setlength\columnseprule{0\p@}
4860 \pagestyle{empty}
4861 \pagenumbering{arabic}
4862 \raggedbottom
4863 \onecolumn
4864 \providecommand*\listitemsymbol{\textbullet}
4865 \providecommand*\addresssymbol{}
4866 \providecommand*\mobilesymbol{\Mobilefone}
4867 \providecommand*\phonesymbol{\Telefon}
4868 \providecommand*\faxsymbol{\FAX}
4869 \providecommand*\emailsymbol{\Letter}
4870 \definecolor{firstnamecolour}{rgb}{0,0,0}
4871 \def\firstnamecolour#1{\gdef\@firstnamecolour{\addfontfeature{Color=#1}}}
4872 \def\familynamecolour#1{\gdef\@familynamecolour{\addfontfeature{Color=#1}}}
4873 \def\titlecolour#1{\gdef\@titlecolour{\addfontfeature{Color=#1}}}
4874 \def\addresscolour#1{\gdef\@addresscolour{\addfontfeature{Color=#1}}}
4875 \def\quotecolour#1{\gdef\@quotecolour{\addfontfeature{Color=#1}}}

```



```

4876 \def\sectiontitlecolour#1{\gdef\sectiontitlecolour{\addfontfeature{Color=#1}}}
4877 \definecolor{sectionrectanglecolor}{rgb}{0,0,0}
4878 \def\subsectioncolour#1{\gdef\subsectioncolour{\addfontfeature{Color=#1}}}
4879 \def\hintcolour#1{\gdef\hintcolour{\addfontfeature{Color=#1}}}
4880 \providecommand*{\firstnamefont}{}
4881 \providecommand*{\familynamefont}{}
4882 \providecommand*{\titlefont}{}
4883 \providecommand*{\addressfont}{}
4884 \providecommand*{\quoteont}{}
4885 \providecommand*{\sectionfont}{}
4886 \providecommand*{\subsectionfont}{}
4887 \providecommand*{\hintfont}{\small}
4888 \providecommand*{\firstnamestyle}[1]{\{\firstfont\@firstfontcolour#1}}
4889 \providecommand*{\familynamestyle}[1]{\{\familyfont\@familyfontcolour#1}}
4890 \providecommand*{\titlestyle}[1]{\{\titlefont\@titlefontcolour#1}}
4891 \providecommand*{\addresstyle}[1]{\{\addressfont\@addressfontcolour#1}}
4892 \providecommand*{\quotestyle}[1]{\{\quoteont\@quoteontcolour#1}}
4893 \providecommand*{\sectionstyle}[1]{\{\sectionfont\@sectionfontcolour#1}}
4894 \providecommand*{\subsectionstyle}[1]{\{\subsectionfont\@subsectionfontcolour#1}}
4895 \providecommand*{\hintstyle}[1]{\{\hintfont\@hintfontcolour#1}}
4896 \newcommand*{\cvtheme}[2] [] {
4897   \def\@cvtheme{#2}
4898   \def\@cvthemeoptions{#1}}
4899 \cvtheme{bidi-casual}
4900 \AtBeginDocument{\RequirePackage[\@cvthemeoptions]{cvtheme\@cvtheme}}
4901 \newcommand*{\resumename}[1]{\def\@resumename{#1}}
4902 \newcommand*{\firstname}[1]{\def\@firstname{#1}}
4903 \newcommand*{\familyname}[1]{\def\@familyname{#1}}
4904 \renewcommand*{\title}[1]{\def\@title{#1}}
4905 \newcommand*{\address}[1]{\def\@address{#1}}
4906 \newcommand*{\mobile}[1]{\def\@mobile{#1}}
4907 \newcommand*{\phone}[1]{\def\@phone{#1}}
4908 \renewcommand*{\fax}[1]{\def\@fax{#1}}
4909 \newcommand*{\email}[1]{\def\@email{#1}}
4910 \newcommand*{\extrainfo}[1]{\def\@extrainfo{#1}}
4911 \def\@photowidth{Opt}
4912 \newcommand*{\photo}[2][64pt]{\def\@photowidth{#1}\def\@photo{#2}}
4913 \newcommand*{\quote}[1]{\def\@quote{#1}}
4914 \newlength{\quotewidth}
4915 \newlength{\hintscolumnwidth}
4916 \newlength{\separatorcolumnwidth}
4917 \setlength{\separatorcolumnwidth}{0.025\textwidth}
4918 \newlength{\maincolumnwidth}
4919 \newlength{\doubleitemmaincolumnwidth}
4920 \newlength{\listitemsymbolwidth}
4921 \settowidth{\listitemsymbolwidth}{\listitemsymbol}~}
4922 \newlength{\listitemmaincolumnwidth}
4923 \newlength{\listdoubleitemmaincolumnwidth}
4924 \newcommand*{\recomputethemelengths}{}
4925 \newcommand*{\recomputelengths}{%
4926 \setlength{\quotewidth}{0.65\textwidth}%
4927 \setlength{\maincolumnwidth}{\textwidth}%
4928 \addtolength{\maincolumnwidth}{-\separatorcolumnwidth}%
4929 \addtolength{\maincolumnwidth}{-\hintscolumnwidth}%

```



```

4930 \setlength{\listitemmaincolumnwidth}{\maincolumnwidth}%
4931 \addtolength{\listitemmaincolumnwidth}{-\listitemsymbolwidth}%
4932 \setlength{\doubleitemmaincolumnwidth}{\maincolumnwidth}%
4933 \addtolength{\doubleitemmaincolumnwidth}{-\hintscolumnwidth}%
4934 \addtolength{\doubleitemmaincolumnwidth}{-\separatorcolumnwidth}%
4935 \setlength{\doubleitemmaincolumnwidth}{0.5\doubleitemmaincolumnwidth}%
4936 \setlength{\listdoubleitemmaincolumnwidth}{\maincolumnwidth}%
4937 \addtolength{\listdoubleitemmaincolumnwidth}{-\listitemsymbolwidth}%
4938 \setlength{\listdoubleitemmaincolumnwidth}{0.475\listdoubleitemmaincolumnwidth}%
4939 \renewcommand{\headwidth}{\textwidth}%
4940 \recomputethemelengths}
4941 \setlength{\hintscolumnwidth}{0.15\textwidth}
4942 \recomputelengths
4943 \title{}
4944 \renewcommand*{\maketitle}{}
4945 \newcommand*{\section}[1]{%
4946 \vspace*{2.5ex \@plus 1ex \@minus .2ex}%
4947 \phantomsection}%
4948 \addcontentsline{toc}{part}{#1}%
4949 \parbox[m]{\hintscolumnwidth}{\bidi@raggedleft\hintfont{\leavevmode\color{sectionrectangle}%
4950 \hspace{\separatorcolumnwidth}%
4951 \parbox[m]{\maincolumnwidth}{\sectionstyle{#1}}\}[1ex]}
4952 \newcommand*{\subsection}[1]{%
4953 \cvline[0.45em]{\subsectionstyle{#1}}}
4954 \newcommand*{\cvline}[3][.25em]{%
4955 \begin{tabular}{@{}p{\hintscolumnwidth}@{\hspace{\separatorcolumnwidth}}p{\maincolumnwidth}%
4956 \bidi@raggedleft\hintfont{#2} &{#3}%
4957 \end{tabular}}\}[#1]}
4958 \newcommand*{\cvdoubleitem}[4]{%
4959 \cvline{#1}{\begin{minipage}[t]{\doubleitemmaincolumnwidth}#2\end{minipage}}%
4960 \hfill%
4961 \begin{minipage}[t]{\hintscolumnwidth}\bidi@raggedleft\hintfont{#3}\end{minipage}\hspace*{\%
4962 \newcommand*{\cvlistitem}[2][\listitemsymbol{}]{%
4963 \cvline[0pt]{\begin{minipage}[t]{\listitemmaincolumnwidth}#2\end{minipage}}}
4964 \newcommand*{\cvlistdoubleitem}[3][\listitemsymbol{}]{%
4965 \cvline[0pt]{\begin{minipage}[t]{\listdoubleitemmaincolumnwidth}#2\end{minipage}}%
4966 \hfill%
4967 \ifthenelse{\equal{#3}{} }%
4968 {}%
4969 {#1~\begin{minipage}[t]{\listdoubleitemmaincolumnwidth}#3\end{minipage}}}}
4970 \newcommand*{\cventry}[6]{%
4971 \cvline{#1}{%
4972 {\bfseries#2}%
4973 \ifx#3\else{, {\slshape#3}}\fi%
4974 \ifx#4\else{, #4}\fi%
4975 \ifx#5\else{, #5}\fi%
4976 .%
4977 \ifx#6\else{\newline}\begin{minipage}[t]{\linewidth}\small#6\end{minipage}}\fi
4978 }%
4979 \newcommand*{\cvlanguage}[3]{%
4980 \cvline{#1}{\begin{minipage}[t]{.225\maincolumnwidth}\textbf{#2}\end{minipage}\hfill\begin{minipage}[t]{.775\maincolumnwidth}%
4981 \newcommand*{\cvcomputer}[4]{%
4982 \cvdoubleitem{#1}{\small#2}{#3}{\small#4}}
4983 \newcommand*{\link}[2][{}]{%

```



```

4984 \ifthenelse{\equal{#1}{}}%
4985   {\href{#2}{#2}}%
4986   {\href{#2}{#1}}}
4987 \newcommand*{\httplink}[2][{}]{%
4988   \ifthenelse{\equal{#1}{}}%
4989     {\href{http://#2}{#2}}%
4990     {\href{http://#2}{#1}}}
4991 \newcommand*{\emailink}[2][{}]{%
4992   \ifthenelse{\equal{#1}{}}%
4993     {\href{mailto:#2}{#2}}%
4994     {\href{mailto:#2}{#1}}}
4995 \newif\if@displaypagenumbers\@displaypagenumberstrue
4996 \newcommand*{\nopagenumbers}{\@displaypagenumbersfalse}
4997 \AtBeginDocument{%
4998   \if@displaypagenumbers%
4999     \ifundefined{r@lastpage}{\}%
5000     \ifthenelse{\pageref{lastpage} > 1}{%
5001       \fancypagestyle{plain}{%
5002         \fancyfoot[r]{\beginL\addressfont\@quotecolour\footnotesize\thepage\beginL/\endL\pag
5003         \pagestyle{plain}}}%
5004     \AtEndDocument{\label{lastpage}}%
5005   \fi}
5006 \newlength{\bibindent}
5007 \setlength{\bibindent}{1.5em}
5008 \newcommand*{\bibliographyitemlabel}{\includegraphics{bidi-bibitem.pdf}}
5009 \newenvironment{thebibliography}[1]%
5010   {%
5011     \section{\refname}%
5012     \small%
5013     \if@RTL\if@LTRbibitems\@RTLfalse\else\fi\else\if@RTLbibitems\@RTLtrue\else\fi\fi
5014     \bidi@thebibliography@font@hook%
5015     \begin{list}{\bibliographyitemlabel}%
5016       {%
5017         \setlength{\topsep}{0pt}%
5018         \setlength{\labelwidth}{\hintscolumnwidth}%
5019         \setlength{\labelsep}{\separatorcolumnwidth}%
5020         \leftmargin\labelwidth%
5021         \advance\leftmargin\labelsep%
5022         \openbib@code%
5023         \usecounter{enumiv}%
5024         \let\p@enumiv\@empty%
5025         \renewcommand\theenumiv{\@arabic\c@enumiv}}%
5026       \sloppy\clubpenalty4000\widowpenalty4000%
5027     }%
5028   {%
5029     \def\@noitemerr{\@latex@warning{Empty `thebibliography' environment}}%
5030     \end{list}%
5031   }
5032 \newcommand\newblock{\hskip .11em\@plus.33em\@minus.07em}
5033 \let\openbib@code\@empty

```

## 51 File bidi-perpage.sty

```

5034 \NeedsTeXFormat{LaTeX2e}

```



```

5035 \ProvidesPackage{bidi-perpage}[2018/10/04 v0.4 Reset counter(s) on every page]
5036 \newcount\bidi@page@count
5037 \bidi@page@count\@ne
5038 \newcommand*{\ResetCounterPerPage}[2][\z@]{%
5039   \if@bidi@csundef\bidi@stepcounterhook@@#2}{%
5040     \expandafter\gdef\csname bidi@stepcounterhook@@#2\endcsname{%
5041       }{}%
5042     \if@bidi@csundef\if@bidi@reset@#2@rerun}{%
5043       \expandafter\newif\csname if@bidi@reset@#2@rerun\endcsname
5044       }{}%
5045     \if@bidi@csundef\bidi@#2@count}{%
5046       \expandafter\newcount\csname bidi@#2@count\endcsname
5047       }{}%
5048     \csname bidi@#2@count\endcsname\z@
5049     \if@bidi@csundef\bidi@previous@page@@#2@count}{%
5050       \expandafter\newcount\csname
5051         bidi@previous@page@@#2@count\endcsname
5052       }{}%
5053     \csname bidi@previous@page@@#2@count\endcsname\z@
5054     \if@bidi@csundef\bidi@reset@#2@perpage}{%
5055       \bidi@AfterEndDocumentCheckLabelsRerun{%
5056         \csname if@bidi@reset@#2@rerun\endcsname
5057         \PackageWarningNoLine{bidi-perpage}{%
5058           Counter `#2' may not have been reset per page.
5059           Rerun to reset counter `#2' per page%
5060         }%
5061       \fi
5062     }%
5063   }{}%
5064   \expandafter\gdef\csname bidi@reset@#2@perpage\endcsname{%
5065     \global\advance\csname bidi@#2@count\endcsname\@ne
5066     \if@filesw
5067       \edef\@tempa{%
5068         \write\@auxout{%
5069           \string\bidi@counter@page{#2}%
5070           {\number\csname bidi@#2@count\endcsname}%
5071           {\noexpand\number\noexpand\bidi@page@count}%
5072         }%
5073       }%
5074       \@tempa
5075     \fi
5076   \begingroup\expandafter\expandafter\expandafter\endgroup
5077   \expandafter\ifx\csname bidi@#2@@\number\csname
5078     bidi@#2@count\endcsname\endcsname\relax
5079     \global\csname @bidi@reset@#2@reruntrue\endcsname
5080   \else
5081     \global\csname @bidi@reset@#2@rerunfalse\endcsname
5082     \expandafter\@tempcnta\csname bidi@#2@@\number
5083     \csname bidi@#2@count\endcsname\endcsname\relax
5084     \ifnum\@tempcnta=\csname
5085       bidi@previous@page@@#2@count\endcsname
5086     \else
5087       \global\csname
5088         bidi@previous@page@@#2@count\endcsname\@tempcnta

```



```

5089     \global\csname c@#2\endcsname#1\relax
5090     \fi
5091 \fi
5092 }%
5093 \expandafter\bidigappto\csname
5094   bidi@stepcounterhook@#2\endcsname{%
5095     \csname bidi@reset@#2@perpage\endcsname
5096   }%
5097 }
5098 \def\bidi@counter@page#1#2#3{\bidi@namegdef\bidi@#1@#2#{#3}}
5099 \bidi@AtEndOutputPage{%
5100   \global\advance\bidi@page@count\@ne
5101 }

```

## 52 File biditools.sty

```

5102 \NeedsTeXFormat{LaTeX2e}
5103 \ProvidesPackage{biditools}[2022/06/15 v2.3 Programming tools for bidi package]
5104 \providecommand{\@bidi@saveprimitive}[2]{\begingroup\escapechar`\relax
5105   \edef\@tempa{\string#1}\edef\@tempb{\meaning#1}%
5106   \ifx\@tempa\@tempb \global\let#2#1%
5107   \else
5108     \edef\@tempb{\meaning#2}%
5109     \ifx\@tempa\@tempb
5110       \else
5111         \latexerror{Unable to properly define \string#2; primitive
5112           \noexpand#1no longer primitive}\@eha
5113       \fi
5114     \fi
5115   \endgroup}
5116 \newtoks\@bidi@envbody
5117 \newtoks\@bidi@emptytoks
5118 \def\bidi@addto@envbody#1{\global\@bidi@envbody\expandafter{\the\@bidi@envbody#1}}
5119 \def\bidi@collect@body#1{%
5120   \@bidi@envbody{\expandafter#1\expandafter{\the\@bidi@envbody}}%
5121   \edef\bidi@process@envbody{\the\@bidi@envbody\noexpand\end{\@currenvir}}%
5122   \@bidi@envbody\@bidi@emptytoks \def\begin@bidi@stack{b}%
5123   \begingroup
5124     \expandafter\let\csname\@currenvir\endcsname\bidi@collect@@body
5125     \edef\bidi@process@envbody{\expandafter\noexpand\csname\@currenvir\endcsname}%
5126     \bidi@process@envbody
5127   }
5128 \def\bidi@push@begins#1\begin#2{%
5129   \ifx\end#2\else b\expandafter\bidi@push@begins\fi
5130 }
5131 \def\bidi@collect@@body#1\end#2{%
5132   \edef\begin@bidi@stack{\bidi@push@begins#1\begin\end \expandafter\gobble\begin@bidi@stack
5133     \ifx\@empty\begin@bidi@stack
5134       \endgroup
5135       \@checkend{#2}%
5136       \bidi@addto@envbody{#1}%
5137     \else
5138       \bidi@addto@envbody{#1\end{#2}}%
5139     \fi

```



```

5140 \bidi@process@envbody % A little tricky! Note the grouping
5141 }
5142 \long\def\bidi@addto@long@envbody#1{\global\@bidi@envbody\expandafter{\the\@bidi@envbody#1}}%
5143 \long\def\bidi@collect@long@body#1{%
5144   \@bidi@envbody{\expandafter#1\expandafter{\the\@bidi@envbody}}%
5145   \edef\bidi@process@envbody{\the\@bidi@envbody\noexpand\end{\@currentvir}}%
5146   \@bidi@envbody\@bidi@emptytoks \def\begin@bidi@stack{b}%
5147   \begingroup
5148   \expandafter\let\csname\@currentvir\endcsname\bidi@collect@long@@body
5149   \edef\bidi@process@envbody{\expandafter\noexpand\csname\@currentvir\endcsname}%
5150   \bidi@process@envbody
5151 }
5152 \long\def\bidi@push@long@begins#1\begin#2{%
5153   \ifx\end#2\else b\expandafter\bidi@push@long@begins\fi
5154 }
5155 \long\def\bidi@collect@long@@body#1\end#2{%
5156   \edef\begin@bidi@stack{\bidi@push@long@begins#1\begin\end \expandafter\@gobble\begin@bidi@stack}
5157   \ifx\@empty\begin@bidi@stack
5158     \endgroup
5159     \checkend{#2}%
5160     \bidi@addto@long@envbody{#1}%
5161   \else
5162     \bidi@addto@long@envbody{#1\end{#2}}%
5163   \fi
5164   \bidi@process@envbody % A little tricky! Note the grouping
5165 }
5166 \long\def\bidi@new@ifnextchar#1#2#3{%
5167   \let\reserved@d= #1%
5168   \def\reserved@a{#2}\def\reserved@b{#3}%
5169   \futurelet\@let@token\bidi@new@ifnch
5170 }
5171 \def\bidi@new@ifnch{%
5172   \ifx\@let@token\reserved@d \let\reserved@b\reserved@a \fi
5173   \reserved@b
5174 }
5175 \def\bidi@matrix@check#1{%
5176   \expandafter\ifx\csname\@currentvir\endcsname#1%
5177   \else\bidi@matrix@error#1%
5178     \expandafter\@gobble
5179   \fi
5180 }
5181 \def\bidi@matrix@error#1{%
5182   \PackageError{biditools}{%
5183     Old form '\string#1' should be \string\begin{\expandafter\@gobble\string#1}%
5184   }{%
5185     '\string#1{...}' is old bidi package syntax whose use is
5186     ill-advised in the old versions of bidi package.%
5187   }%
5188 }
5189 \def\@tagsextension{clo}
5190 \def\@definitionfileextension{def}
5191 \def\@texfileextension{tex}
5192 \def\@iftagsloaded{\@ifl@aded\@tagsextension}
5193 \def\@ifdefinitionfileloaded{\@ifl@aded\@definitionfileextension}

```





```

5194 \def\iftexfileloaded{\@ifl@aded\@texfileextension}
5195 \def\eqnewif#1#2{%
5196   \count@\escapechar \escapechar\m@ne
5197   \let#1\iffalse
5198   \let#2\iffalse
5199   \eq@if#1#2\iftrue
5200   \eq@if#1#2\iffalse
5201   \escapechar\count@}
5202 \def\eq@if#1#2#3{%
5203   \expandafter\def\csname\expandafter@gobbletwo\string#1%
5204     \expandafter@gobbletwo\string#3\endcsname
5205     {\let#1#3%
5206      \let#2#3}%
5207   \expandafter\def\csname\expandafter@gobbletwo\string#2%
5208     \expandafter@gobbletwo\string#3\endcsname
5209     {\let#2#3%
5210      \let#1#3}}
5211 \def\noteqnewif#1#2{%
5212   \count@\escapechar \escapechar\m@ne
5213   \let#1\iffalse
5214   \let#2\iffalse
5215   \not@eq@if#1#2\iftrue\iffalse
5216   \escapechar\count@}
5217 \def\not@eq@if#1#2#3#4{%
5218   \expandafter\def\csname\expandafter@gobbletwo\string#1%
5219     \expandafter@gobbletwo\string#3\endcsname
5220     {\let#1#3%
5221      \let#2#4}%
5222   \expandafter\def\csname\expandafter@gobbletwo\string#1%
5223     \expandafter@gobbletwo\string#4\endcsname
5224     {\let#1#4%
5225      \let#2#3}%
5226   \expandafter\def\csname\expandafter@gobbletwo\string#2%
5227     \expandafter@gobbletwo\string#3\endcsname
5228     {\let#2#3%
5229      \let#1#4}%
5230   \expandafter\def\csname\expandafter@gobbletwo\string#2%
5231     \expandafter@gobbletwo\string#4\endcsname
5232     {\let#2#4%
5233      \let#1#3}}
5234 \newcommand*\SetBoolean}[2]{%
5235   \lowercase{\def\@tempa{#2}}%
5236   \@ifundefined{@tempwa\@tempa}%
5237     {\PackageError{biditools}%
5238      {You can only set a boolean to `true' or `false'}\@ehc}%
5239   {\@ifundefined{#1\@tempa}%
5240    {\PackageError{biditools}{Boolean #1 undefined}\@ehc}%
5241    {\csname#1\@tempa\endcsname}}}
5242 \newcommand*\GlobalSetBoolean}[2]{%
5243   \lowercase{\def\@tempa{#2}}%
5244   \@ifundefined{@tempwa\@tempa}%
5245     {\PackageError{biditools}%
5246      {You can only set a boolean to `true' or `false'}\@ehc}%
5247     {\@ifundefined{#1\@tempa}%

```



```

5248     {\PackageError{biditools}{Boolean #1 undefined}\@ehc}%
5249     {\global\csname#1\@tempa\endcsname}}
5250 \newcommand*{\SetatBoolean}[2]{%
5251   \lowercase{\def\@tempa{#2}}%
5252   \@ifundefined{\@tempa\@tempa}%
5253   {\PackageError{biditools}%
5254     {You can only set a boolean to `true' or `false'}\@ehc}%
5255   {\@ifundefined{#1\@tempa}%
5256     {\PackageError{biditools}{Boolean @#1 undefined}\@ehc}%
5257     {\csname @#1\@tempa\endcsname}}}
5258 \newcommand*{\GlobalSetatBoolean}[2]{%
5259   \lowercase{\def\@tempa{#2}}%
5260   \@ifundefined{\@tempa\@tempa}%
5261   {\PackageError{biditools}%
5262     {You can only set a boolean to `true' or `false'}\@ehc}%
5263   {\@ifundefined{#1\@tempa}%
5264     {\PackageError{biditools}{Boolean @#1 undefined}\@ehc}%
5265     {\global\csname @#1\@tempa\endcsname}}}
5266 \def\@bidi@removefromreset#1#2{%
5267   \expandafter\let\csname c@#1\endcsname\@bidi@removefromreset
5268   \def\@elt##1{%
5269     \expandafter\ifx\csname c@##1\endcsname\@bidi@removefromreset
5270     \else
5271       \noexpand\@elt{##1}%
5272     \fi}%
5273   \expandafter\xdef\csname cl@#2\endcsname{%
5274     \csname cl@#2\endcsname}}
5275 \newcommand*{\ifRtoL}{%
5276   \ifRTL
5277     \expandafter\@firstoftwo
5278   \else
5279     \expandafter\@secondoftwo
5280   \fi}
5281 \newcommand*{\ifLtoR}{%
5282   \ifRTL
5283     \expandafter\@secondoftwo
5284   \else
5285     \expandafter\@firstoftwo
5286   \fi}
5287 \newcommand*{\ifRtoLtable}{%
5288   \ifRTLtab
5289     \expandafter\@firstoftwo
5290   \else
5291     \expandafter\@secondoftwo
5292   \fi}
5293 \newcommand*{\ifLtoRtable}{%
5294   \ifRTLtab
5295     \expandafter\@secondoftwo
5296   \else
5297     \expandafter\@firstoftwo
5298   \fi}
5299 \newcommand*{\ifRtoLhboxconstruct}{%
5300   \if@hboxRconstruct
5301     \expandafter\@firstoftwo

```



```

5302 \else
5303   \expandafter\@secondoftwo
5304 \fi}
5305 \newcommand*{\ifLtoRhboxconstruct}{%
5306   \if@hboxRconstruct
5307     \expandafter\@secondoftwo
5308   \else
5309     \expandafter\@firstoftwo
5310   \fi}
5311 \newcommand*{\iflatin}{%
5312   \if@nonlatin
5313     \expandafter\@secondoftwo
5314   \else
5315     \expandafter\@firstoftwo
5316   \fi}
5317 \newcommand*{\ifnonlatin}{%
5318   \if@nonlatin
5319     \expandafter\@firstoftwo
5320   \else
5321     \expandafter\@secondoftwo
5322   \fi}
5323
5324 \newcommand*{\bidi@convert@dimen@t@unit}[2]{%
5325   \strip@pt\dimexpr #1*65536/\dimexpr 1#2\relax #2}
5326
5327 \newcommand*{\bidi@convert@dimen@t@pt}[1]{%
5328   \dimexpr #1*65536/\dimexpr 1pt\relax}
5329
5330 \newcommand*{\if@bidi@csdef}[1]{%
5331   \ifcsname#1\endcsname
5332     \expandafter\@firstoftwo
5333   \else
5334     \expandafter\@secondoftwo
5335   \fi}
5336 \newcommand*{\if@bidi@csundef}[1]{%
5337   \ifcsname#1\endcsname
5338     \expandafter\ifx\csname#1\endcsname\relax
5339       \expandafter\expandafter
5340       \expandafter\@firstoftwo
5341     \else
5342       \expandafter\expandafter
5343       \expandafter\@secondoftwo
5344     \fi
5345   \else
5346     \expandafter\@firstoftwo
5347   \fi}
5348 \newcommand{\if@bidi@def}[1]{%
5349   \ifdefined#1%
5350     \expandafter\@firstoftwo
5351   \else
5352     \expandafter\@secondoftwo
5353   \fi}
5354 \newcommand{\if@bidi@undef}[1]{%
5355   \ifdefined#1%

```



```

5356 \ifx#1\relax
5357 \expandafter\expandafter
5358 \expandafter\@firstoftwo
5359 \else
5360 \expandafter\expandafter
5361 \expandafter\@secondoftwo
5362 \fi
5363 \else
5364 \expandafter\@firstoftwo
5365 \fi}
5366 \newcommand{\if@bidi@blank}[1]{% from url.sty
5367 \bidi@ifblank@i#1&&\@secondoftwo\@firstoftwo:}
5368 \long\def\bidi@ifblank@i#1#2&#3#4#5:{#4}
5369 \newcommand{\bidi@notblank}[1]{%
5370 \bidi@ifblank@i#1&&\@firstoftwo\@secondoftwo:}
5371 \newcommand{\if@bidi@defmacro}{%
5372 \long\edef\if@bidi@defmacro#1{%
5373 \noexpand\expandafter\noexpand\bidi@ifdefmacro
5374 \noexpand\meaning#1\detokenize{macro}:&}
5375 \edef\bidi@ifdefmacro{%
5376 \def\noexpand\bidi@ifdefmacro##1\detokenize{macro}:##2&}
5377 \bidi@ifdefmacro{\bidi@notblank{#2}}
5378 \newcommand*{\if@bidi@csmacro}[1]{%
5379 \if@bidi@csdef{#1}
5380 {\expandafter\if@bidi@defmacro\csname#1\endcsname}
5381 {\@secondoftwo}}
5382 \newcommand{\if@bidi@defprimitive}[1]{%
5383 \ifprimitive#1%
5384 \expandafter\@firstoftwo
5385 \else
5386 \expandafter\@secondoftwo
5387 \fi}
5388 \newcommand{\if@bidi@csprimitive}[1]{%
5389 \begingroup\expandafter\expandafter\expandafter\endgroup%
5390 \expandafter\ifprimitive\csname#1\endcsname%
5391 \expandafter\@firstoftwo
5392 \else
5393 \expandafter\@secondoftwo
5394 \fi}
5395 \newcommand*{\bidi@csdefcs}[2]{%
5396 \expandafter\@ifdefinable \csname#1\endcsname{%
5397 \expandafter\def\csname#1\expandafter\endcsname{\csname#2\endcsname}}
5398 \newcommand*{\bidi@csletcs}[2]{%
5399 \expandafter\@ifdefinable \csname#1\endcsname{%
5400 \expandafter\let\csname#1\expandafter\endcsname\csname#2\endcsname}}
5401 \newcommand*{\bidi@cslet}[2]{%
5402 \expandafter\@ifdefinable \csname#1\endcsname{%
5403 \expandafter\let\csname#1\endcsname#2}}
5404 \newcommand{\bidi@namelongdef}[1]{%
5405 \long\expandafter\def\csname #1\endcsname}
5406 \newcommand{\bidi@namelonggdef}[1]{%
5407 \long\expandafter\gdef\csname #1\endcsname}
5408 \newcommand{\bidi@namelongedef}[1]{%
5409 \long\expandafter\edef\csname #1\endcsname}

```



```

5410 \newcommand{\bidi@namelongxdef}[1]{%
5411   \long\expandafter\xdef\csname #1\endcsname}
5412 \def\bidi@ensure@newcommand{\@star@or@long\bidi@ensure@new@command}
5413 \def\bidi@ensure@new@command#1{%
5414   \begingroup \escapechar\m@ne\xdef\@gtempa{\string#1}\endgroup
5415   \expandafter\if\bidi@csundef\@gtempa
5416     {\new@command#1}{\relax%
5417     \let\@ifdefinable\@rc@ifdefinable%
5418     \new@command#1}}
5419 \def\bidi@ensure@newlength#1{\if\bidi@undef#1{\newskip#1}{}}
5420
5421 \protected\def\bidi@error{\PackageError{bidi}}
5422 \protected\def\bidi@warning{\PackageWarning{bidi}}
5423 \protected\def\bidi@info{\PackageInfo{bidi}}
5424
5425 \def\bidi@pos#1#2#3#4{\bidi@namegdef\bidi@#1pos@@#2@#3}{#4}}
5426
5427 \newcount\bidi@poscount
5428
5429 \newcommand*{\WriteStartXPostoaux}{%
5430   \global\advance\bidi@poscount\@ne
5431   \edef\@tempa{%
5432     \write\@auxout{%
5433       \string\bidi@pos{x}{start}{\number\bidi@poscount}{\noexpand\number\noexpand\pdflastx}
5434     }%
5435   }%
5436   \ifvmode
5437     \leavevmode
5438   \fi
5439   \if@RTL
5440     \if@filesw
5441       \@tempa
5442     \fi
5443     \pdfsavepos
5444   \else
5445     \pdfsavepos
5446   \if@filesw
5447     \@tempa
5448   \fi
5449   \fi
5450   \if\bidi@csundef\bidi@xpos@@start@\number\bidi@poscount}{%
5451     \PackageWarningNoLine{biditytools}{%
5452       The start x position '\number\bidi@poscount' is not known yet.
5453       Rerun to get this x position%
5454     }%
5455   }{}%
5456 }
5457
5458 \newcommand*{\WriteEndXPostoaux}{%
5459   \edef\@tempa{%
5460     \write\@auxout{%
5461       \string\bidi@pos{x}{end}{\number\bidi@poscount}{\noexpand\number\noexpand\pdflastx}
5462     }%
5463   }%

```



```

5464 \if@RTL
5465 \if@filesw
5466 \@tempa
5467 \fi
5468 \pdfsavepos
5469 \else
5470 \pdfsavepos
5471 \if@filesw
5472 \@tempa
5473 \fi
5474 \fi
5475 \if@bidi@csundef{bidi@xpos@@end@\number\bidi@poscount}{%
5476 \PackageWarningNoLine{biditools}{%
5477 The end x position ``\number\bidi@poscount' is not known yet.
5478 Rerun to get this x position%
5479 }%
5480 }{}%
5481 }
5482
5483 \newcommand*{\WriteStartYPostoaux}{%
5484 \global\advance\bidi@poscount\@ne
5485 \edef\@tempa{%
5486 \write\@auxout{%
5487 \string\bidi@pos{y}{start}{\number\bidi@poscount}{\noexpand\number\noexpand\pdflasty
5488 }%
5489 }%
5490 \ifvmode
5491 \leavevmode
5492 \fi
5493 \if@RTL
5494 \if@filesw
5495 \@tempa
5496 \fi
5497 \pdfsavepos
5498 \else
5499 \pdfsavepos
5500 \if@filesw
5501 \@tempa
5502 \fi
5503 \fi
5504 \if@bidi@csundef{bidi@ypos@@start@\number\bidi@poscount}{%
5505 \PackageWarningNoLine{biditools}{%
5506 The start y position ``\number\bidi@poscount' is not known yet.
5507 Rerun to get this y position%
5508 }%
5509 }{}%
5510 }
5511
5512 \newcommand*{\WriteEndYPostoaux}{%
5513 \edef\@tempa{%
5514 \write\@auxout{%
5515 \string\bidi@pos{y}{end}{\number\bidi@poscount}{\noexpand\number\noexpand\pdflasty
5516 }%
5517 }%

```



```

5518 \if@RTL
5519   \if@filesw
5520     \@tempa
5521   \fi
5522   \pdfsavepos
5523 \else
5524   \pdfsavepos
5525 \if@filesw
5526   \@tempa
5527 \fi
5528 \fi
5529 \if@bidi@csundef{bidi@ypos@@end@\number\bidi@poscount}{%
5530   \PackageWarningNoLine{biditools}{%
5531     The end y position `\'number\bidi@poscount' is not known yet.
5532     Rerun to get this y position%
5533   }%
5534 }{}%
5535 }
5536
5537 \newcommand*{\WriteStartXYPostoaux}{%
5538   \global\advance\bidi@poscount\@ne
5539   \edef\@tempa{%
5540     \write\@auxout{%
5541       \string\bidi@pos{x}{start}{\number\bidi@poscount}{\noexpand\number\noexpand\pdflastx}
5542     }%
5543     \write\@auxout{%
5544       \string\bidi@pos{y}{start}{\number\bidi@poscount}{\noexpand\number\noexpand\pdflasty}
5545     }%
5546   }%
5547   \ifvmode
5548     \leavevmode
5549   \fi
5550 \if@RTL
5551   \if@filesw
5552     \@tempa
5553   \fi
5554   \pdfsavepos
5555 \else
5556   \pdfsavepos
5557 \if@filesw
5558   \@tempa
5559 \fi
5560 \fi
5561 \if@bidi@csundef{bidi@xpos@@start@\number\bidi@poscount}{%
5562   \PackageWarningNoLine{biditools}{%
5563     The start x position `\'number\bidi@poscount' is not known yet.
5564     Rerun to get this x position%
5565   }%
5566 }{}%
5567 \if@bidi@csundef{bidi@ypos@@start@\number\bidi@poscount}{%
5568   \PackageWarningNoLine{biditools}{%
5569     The start y position `\'number\bidi@poscount' is not known yet.
5570     Rerun to get this y position%
5571   }%

```



```

5572 }{}%
5573 }
5574
5575 \newcommand*{\WriteEndXYPostoaux}{%
5576     \edef\@tempa{%
5577         \write\@auxout{%
5578             \string\bidipos{x}{end}{\number\bidiposcount}{\noexpand\number\noexpand\pdflastx}
5579         }%
5580         \write\@auxout{%
5581             \string\bidipos{y}{end}{\number\bidiposcount}{\noexpand\number\noexpand\pdflasty}
5582         }%
5583     }%
5584 \if@RTL
5585     \if@filesw
5586         \@tempa
5587     \fi
5588 \pdfsavepos
5589 \else
5590 \pdfsavepos
5591 \if@filesw
5592     \@tempa
5593 \fi
5594 \fi
5595 \if@bidi@csundef{bidi@xpos@@end@\number\bidiposcount}{%
5596     \PackageWarningNoLine{biditools}{%
5597         The end x position ``\number\bidiposcount' is not known yet.
5598         Rerun to get this x position%
5599     }%
5600 }{}%
5601 \if@bidi@csundef{bidi@ypos@@end@\number\bidiposcount}{%
5602     \PackageWarningNoLine{biditools}{%
5603         The end y position ``\number\bidiposcount' is not known yet.
5604         Rerun to get this y position%
5605     }%
5606 }{}%
5607 }
5608
5609 \newcommand*{\currentposxwidth}{%
5610     \if@bidi@csundef{bidi@xpos@@end@\number\bidiposcount}{\z@}
5611     {%
5612         \ifnum\csname bidi@xpos@@start@\number\bidiposcount
5613             \endcsname < \csname bidi@xpos@@end@\number\bidiposcount
5614             \endcsname
5615         \dimexpr \csname bidi@xpos@@end@\number\bidiposcount
5616             \endcsname sp - \csname bidi@xpos@@start@\number\bidiposcount
5617             \endcsname sp\relax
5618     \else
5619         \dimexpr \csname bidi@xpos@@start@\number\bidiposcount
5620             \endcsname sp - \csname bidi@xpos@@end@\number\bidiposcount
5621             \endcsname sp\relax
5622     \fi
5623 }%
5624 }
5625

```





```

5626 \newcommand*{\currentposyheight}{%
5627   \if@bidi@csundef{bidi@ypos@@end@\number\bidi@poscount}{\z@}
5628   {%
5629     \dimexpr \csname bidi@ypos@@start@\number\bidi@poscount
5630     \endcsname sp - \csname   bidi@ypos@@end@\number\bidi@poscount
5631     \endcsname sp\relax
5632   }%
5633 }
5634
5635
5636
5637 \newcommand*{\setbaselineskip}[1]{%
5638   \linespread{\strip@pt\dimexpr\numexpr\dimexpr#1\relax*65536/\dimexpr\baselineskip\relax}
5639   \selectfont
5640 }
5641
5642
5643 \newcommand*{\bidi@newrobustcmd}{%
5644 \protected\def\bidi@newrobustcmd{\@star@or@long\bidi@new@command}
5645
5646 \def\bidi@new@command#1{\@testopt{\bidi@newcommand#1}0}
5647
5648 \def\bidi@newcommand#1[#2]{%
5649   \@ifnextchar[%]
5650   {\bidi@xargdef#1[#2]}
5651   {\ifx\l@ngrel@x\relax
5652     \let\l@ngrel@x\protected
5653     \else
5654       \protected\def\l@ngrel@x{\protected\long}%
5655     \fi
5656     \@argdef#1[#2]}}
5657
5658 \long\def\bidi@xargdef#1[#2][#3]#4{%
5659   \@ifdefinable#1{%
5660     \expandafter\protected
5661     \expandafter\def
5662     \expandafter#1%
5663     \expandafter{%
5664       \expandafter\@testopt
5665       \csname\string#1\endcsname{#3}}%
5666     \expandafter\@yargdef\csname\string#1\endcsname\tw@{#2}{#4}}}
5667
5668 \bidi@newrobustcmd*{\bidi@renewrobustcmd}{\@star@or@long\bidi@renew@command}
5669
5670 \def\bidi@renew@command#1{%
5671   \if@bidi@undef{#1}
5672     {\bidi@error{\string#1 undefined}\@ehc}
5673     {%
5674       \let\@ifdefinable\@rc@ifdefinable
5675       \bidi@new@command#1}
5676
5677
5678
5679 \bidi@newrobustcmd*{\bidi@providerobustcmd}{\@star@or@long\bidi@provide@command}

```



```

5680
5681 \def\bidiprovide@command#1{%
5682   \if@bidi@undef{#1}
5683     {\def\reserved@a{\bidi@new@command#1}}
5684     {\def\reserved@a{\bidi@renew@command\reserved@a}}%
5685   \reserved@a}
5686
5687 \newcommand*{\bidi@csuse}[1]{%
5688   \ifcsname#1\endcsname
5689     \csname#1\expandafter\endcsname
5690   \fi}
5691
5692 \newcommand{\bidi@expandonce}[1]{%
5693   \unexpanded\expandafter{#1}}
5694
5695 \def\bidi@protected{%
5696   \let\@@protect\protect
5697   \let\protect\@unexpandable@protect
5698   \afterassignment\restore@protect}
5699
5700 \bidi@newrobustcmd{\bidi@appto}[2]{%
5701   \if@bidi@undef{#1}
5702     {\edef#1{\unexpanded{#2}}}
5703     {\edef#1{\bidi@expandonce#1\unexpanded{#2}}}}
5704 \bidi@newrobustcmd{\bidi@eappto}[2]{%
5705   \if@bidi@undef{#1}
5706     {\edef#1{#2}}
5707     {\edef#1{\bidi@expandonce#1#2}}}
5708 \bidi@newrobustcmd{\bidi@gappto}[2]{%
5709   \if@bidi@undef{#1}
5710     {\xdef#1{\unexpanded{#2}}}
5711     {\xdef#1{\bidi@expandonce#1\unexpanded{#2}}}}
5712 \bidi@newrobustcmd{\bidi@xappto}[2]{%
5713   \if@bidi@undef{#1}
5714     {\xdef#1{#2}}
5715     {\xdef#1{\bidi@expandonce#1#2}}}
5716
5717 \bidi@newrobustcmd*{\bidi@protected@eappto}{\bidi@protected\bidi@eappto}
5718 \bidi@newrobustcmd*{\bidi@protected@xappto}{\bidi@protected\bidi@xappto}
5719
5720
5721
5722 \bidi@newrobustcmd{\bidi@preto}[2]{%
5723   \if@bidi@undef{#1}
5724     {\edef#1{\unexpanded{#2}}}
5725     {\edef#1{\unexpanded{#2}\bidi@expandonce#1}}}
5726 \bidi@newrobustcmd{\bidi@epreto}[2]{%
5727   \if@bidi@undef{#1}
5728     {\edef#1{#2}}
5729     {\edef#1{#2\bidi@expandonce#1}}}
5730 \bidi@newrobustcmd{\bidi@gpreto}[2]{%
5731   \if@bidi@undef{#1}
5732     {\xdef#1{\unexpanded{#2}}}
5733     {\xdef#1{\unexpanded{#2}\bidi@expandonce#1}}}

```



```

5734 \bidi@newrobustcmd{\bidi@xpreto}[2]{%
5735   \if@bidi@undef{#1}
5736     {\xdef#1{#2}}
5737     {\xdef#1{#2\bidi@expandonce#1}}}
5738
5739 \bidi@newrobustcmd*{\bidi@protected@epreto}{\bidi@protected\bidi@epreto}
5740 \bidi@newrobustcmd*{\bidi@protected@xpreto}{\bidi@protected\bidi@xpreto}
5741
5742
5743
5744 \bidi@newrobustcmd*{\bidi@cspappto}[1]{\expandafter\bidi@appto\csname#1\endcsname}
5745 \bidi@newrobustcmd*{\bidi@cseappto}[1]{\expandafter\bidi@eappto\csname#1\endcsname}
5746 \bidi@newrobustcmd*{\bidi@csgappto}[1]{\expandafter\bidi@gappto\csname#1\endcsname}
5747 \bidi@newrobustcmd*{\bidi@csxappto}[1]{\expandafter\bidi@xappto\csname#1\endcsname}
5748 \bidi@newrobustcmd*{\bidi@protected@cseappto}{\bidi@protected\bidi@cseappto}
5749 \bidi@newrobustcmd*{\bidi@protected@csxappto}{\bidi@protected\bidi@csxappto}
5750
5751
5752
5753 \bidi@newrobustcmd*{\bidi@cspreto}[1]{\expandafter\bidi@preto\csname#1\endcsname}
5754 \bidi@newrobustcmd*{\bidi@csepreto}[1]{\expandafter\bidi@epreto\csname#1\endcsname}
5755 \bidi@newrobustcmd*{\bidi@csgpreto}[1]{\expandafter\bidi@gpreto\csname#1\endcsname}
5756 \bidi@newrobustcmd*{\bidi@csxpreto}[1]{\expandafter\bidi@xpreto\csname#1\endcsname}
5757 \bidi@newrobustcmd*{\bidi@protected@csepreto}{\bidi@protected\bidi@csepreto}
5758 \bidi@newrobustcmd*{\bidi@protected@csxpreto}{\bidi@protected\bidi@csxpreto}
5759
5760
5761
5762 \bidi@newrobustcmd{\if@bidi@patchable}{%
5763   \bidi@dbg@trce\if@bidi@patchable
5764   \begingroup
5765   \@makeother\%
5766   \@ifstar\bidi@ifpatchablei\bidi@ifpatchable}
5767
5768 \long\def\bidi@ifpatchable#1#2{%
5769   \endgroup
5770   \bidi@dbg@init#1%
5771   \if@bidi@undef{#1}
5772     {\bidi@dbg@fail{def}\@secondoftwo}
5773     {\bidi@dbg@info{def}%
5774       \if@bidi@defmacro{#1}
5775         {\bidi@dbg@info{mac}%
5776           \bidi@ifscanable{#1}
5777             {\bidi@ifhashcheck{#2}
5778               {\bidi@dbg@info{tok}%
5779                 \bidi@ifpattern#1{#2}
5780                   {\bidi@dbg@info{pat}%
5781                     \bidi@dbg@info{pos}\@firstoftwo}
5782                     {\bidi@dbg@fail{pat}\@secondoftwo}}
5783                   {\bidi@dbg@fail{hsh}\@secondoftwo}}
5784                   {\bidi@dbg@fail{tok}\@secondoftwo}}
5785                   {\bidi@dbg@fail{mac}\@secondoftwo}}}
5786
5787 \long\def\bidi@ifpatchablei#1{%

```



```

5788 \endgroup
5789 \bidi@dbg@init#1%
5790 \if@bidi@undef{#1}
5791   {\bidi@dbg@fail{def}\@secondoftwo}
5792   {\bidi@dbg@info{def}%
5793     \if@bidi@defmacro{#1}
5794       {\bidi@dbg@info{mac}%
5795         \if@bidi@defparam{#1}
5796           {\bidi@dbg@info{prm}%
5797             \bidi@ifscanable{#1}
5798               {\bidi@dbg@info{tok}%
5799                 \bidi@dbg@info{pos}\@firstoftwo}
5800               {\bidi@dbg@fail{tok}\@secondoftwo}}
5801           {\bidi@dbg@info{prl}%
5802             \if@bidi@defprotected{#1}
5803               {\bidi@dbg@info{pro}}
5804               {}%
5805             \bidi@dbg@info{pos}\@firstoftwo}}
5806           {\bidi@dbg@fail{mac}\@secondoftwo}}}
5807
5808 \bidi@newrobustcmd*{\bidi@patchcmd}{%
5809   \bidi@dbg@trce\bidi@patchcmd
5810   \begingroup
5811   \@makeother\%
5812   \bidi@@patchcmd}
5813
5814 \newcommand{\bidi@patchcmd}[4][#####1]{%
5815   \bidi@ifpatchable#2{#3}
5816   {\bidi@dbg@succ{ret}%
5817     \begingroup
5818     \edef\bidi@resrvda{%
5819       \def\noexpand\bidi@resrvda####1\detokenize{macro:}####2->####3&{%
5820         #1\def\string\bidi@resrvda\space####2{\noexpand\bidi@resrvdb####3&}}%
5821       \def\noexpand\bidi@resrvdb####1\detokenize{#3}####2&{%
5822         #####1\detokenize{#4}####2}%
5823       \edef\noexpand\bidi@resrvda{%
5824         \noexpand\bidi@resrvda\meaning#2&}}%
5825     \bidi@resrvda
5826     \bidi@patchcmd@scantoks\bidi@resrvda
5827     \let#2\bidi@resrvda
5828     \bidi@undef\bidi@resrvda
5829     \@firstoftwo}
5830   {\@secondoftwo}}
5831
5832 \def\bidi@patchcmd@scantoks#1{%
5833   \edef\bidi@resrvda{\endgroup
5834     \unexpanded{\makeatletter\scantokens}{#1}%
5835     \catcode\number`\@=\the\catcode`\@ \relax}%
5836   \bidi@resrvda}
5837
5838 \newcommand\bidi@isloaded[2][]{
5839   \expandafter\ifx\csname if@bidi@#2loaded@ \endcsname \relax
5840     \expandafter\newif\csname if@bidi@#2loaded@ \endcsname
5841   \fi

```



```

5842 \@ifpackageloaded{#2}
5843   {\csname @bidi@#2loaded@true\endcsname #1}
5844   {\csname @bidi@#2loaded@false\endcsname}}
5845
5846 \protected\def\bidi@ifscanable#1{%
5847   \begingroup
5848   \edef\bidi@resrvda{%
5849     \def\noexpand\bidi@resrvda####1\detokenize{macro}:####2->####3&{%
5850       ####1\def\string\bidi@resrvda####2{####3}}}%
5851   \edef\noexpand\bidi@resrvda{\noexpand\bidi@resrvda\meaning#1&}}%
5852   \bidi@resrvda
5853   \makeatletter
5854   \scantokens\expandafter{\bidi@resrvda}%
5855   \expandafter\endgroup\ifx#1\bidi@resrvda
5856     \expandafter\@firstoftwo
5857   \else
5858     \expandafter\@secondoftwo
5859   \fi}
5860
5861
5862 \protected\long\def\bidi@ifhashcheck#1{%
5863   \begingroup
5864   \edef\bidi@resrvda{\detokenize{#1}}%
5865   \expandafter\endgroup
5866   \expandafter\bidi@ifhashcheck@i\meaning\bidi@resrvda&}
5867
5868 \edef\bidi@ifhashcheck@i#1&{%
5869   \noexpand\expandafter
5870   \noexpand\bidi@ifhashcheck@ii
5871   \noexpand\strip@prefix#1\string#\string#&}
5872
5873 \edef\bidi@ifhashcheck@ii{%
5874   \def\noexpand\bidi@ifhashcheck@ii##1\string#\string###2&}
5875 \bidi@ifhashcheck@ii{\if@bidi@blank{#2}}
5876
5877
5878 \protected\long\def\bidi@ifpattern#1#2{%
5879   \begingroup
5880   \edef\bidi@resrvda{%
5881     \def\noexpand\bidi@resrvda####1\detokenize{#2}####2&{%
5882       \endgroup\noexpand\noexpand\noexpand\noexpand\if@bidi@blank{####2}}}%
5883   \edef\noexpand\bidi@resrvda{\noexpand\bidi@resrvda
5884     \expandafter\strip@prefix\meaning#1\detokenize{#2}&}%
5885   \noexpand\bidi@resrvda}
5886   \bidi@resrvda\@secondoftwo\@firstoftwo}
5887
5888
5889 \newcommand{\if@bidi@defparam}{%
5890 \long\edef\if@bidi@defparam#1{%
5891   \noexpand\expandafter\noexpand\bidi@ifdefparam
5892   \noexpand\meaning#1\detokenize{macro}:->&}
5893 \edef\bidi@ifdefparam{%
5894   \def\noexpand\bidi@ifdefparam##1\detokenize{macro}:##2->##3&}
5895 \bidi@ifdefparam{\bidi@notblank{#2}}

```



```

5896
5897
5898 \newcommand{\if@bidi@defprotected}{%
5899 \long\edef\if@bidi@defprotected#1{%
5900 \noexpand\expandafter\noexpand\bidi@ifdefprotected
5901 \noexpand\meaning#1\string\protected&}
5902 \edef\bidi@ifdefprotected{%
5903 \def\noexpand\bidi@ifdefprotected##1\string\protected##2&}
5904 \bidi@ifdefprotected{\bidi@notblank{#2}}
5905
5906
5907 \bidi@newrobustcmd{\bidi@undef}[1]{\let#1\bidi@undefined}
5908 \bidi@newrobustcmd{\bidi@csundef}[1]{%
5909 \expandafter\let\csname #1\endcsname\bidi@undefined
5910 }
5911
5912 \let\bidi@dbg@trce@gobble
5913 \let\bidi@dbg@init@gobble
5914 \let\bidi@dbg@info@gobble
5915 \let\bidi@dbg@succ@gobble
5916 \let\bidi@dbg@fail@gobble
5917
5918
5919
5920 \bidi@newrobustcmd*{\bidi@apptocmd}{%
5921 \bidi@dbg@trce\bidi@apptocmd
5922 \begingroup
5923 \@makeother\%
5924 \bidi@hooktocmd\bidi@append}
5925
5926
5927
5928 \bidi@newrobustcmd*{\bidi@pretocmd}{%
5929 \bidi@dbg@trce\bidi@pretocmd
5930 \begingroup
5931 \@makeother\%
5932 \bidi@hooktocmd\bidi@prepend}
5933
5934 \long\def\bidi@hooktocmd#1#2#3{%
5935 \endgroup
5936 \bidi@dbg@init#2%
5937 \if@bidi@undef{#2}
5938 {\bidi@dbg@fail{def}\@secondoftwo}
5939 {\bidi@dbg@info{def}%
5940 \if@bidi@defmacro{#2}
5941 {\bidi@dbg@info{mac}%
5942 \if@bidi@defparam{#2}
5943 {\bidi@dbg@info{prm}%
5944 \bidi@ifscanable{#2}
5945 {\bidi@ifhashcheck{#3}
5946 {\bidi@dbg@info{tok}%
5947 \bidi@dbg@succ{ret}%
5948 \bidi@hooktocmd@i#1#2{#3}%
5949 \@firstoftwo}

```



```

5950         {\bidi@dbg@fail{hsh}\@secondoftwo}}
5951         {\bidi@dbg@fail{tok}\@secondoftwo}}
5952     {\bidi@dbg@info{prl}%
5953      \if@bidi@defprotected{#2}
5954       {\bidi@dbg@info{pro}%
5955        \bidi@dbg@succ{red}%
5956         \protected}
5957       {\bidi@dbg@succ{red}}}%
5958     \edef#2{#1{\bidi@expandonce#2}{\unexpanded{#3}}}%
5959     \@firstoftwo}}
5960     {\bidi@dbg@fail{mac}\@secondoftwo}}}}
5961
5962 \long\def\bidi@hooktocmd@i#1#2#3{%
5963   \begingroup
5964   \edef\bidi@resrvda{%
5965     \def\noexpand\bidi@resrvda####1\detokenize{macro}:####2->####3&{%
5966       ####1\def\string\bidi@resrvda\space####2{#1{####3}{\detokenize{#3}}}}}%
5967     \edef\noexpand\bidi@resrvda{%
5968       \noexpand\bidi@resrvda\meaning#2&}}}%
5969   \bidi@resrvda
5970   \bidi@patchcmd@scantoks\bidi@resrvda
5971   \let#2\bidi@resrvda
5972   \bidi@undef\bidi@resrvda}
5973
5974 \long\def\bidi@append#1#2{#1#2}
5975 \long\def\bidi@prepend#1#2{#2#1}
5976
5977 %\bidi@newrobustcmd*{\bidi@AtEndPreamble}{\bidi@gappto\bidi@endpreamblehook}
5978 %\newcommand*{\bidi@endpreamblehook}{}
5979
5980 \bidi@newrobustcmd*{\bidi@AtEndPreamble}{\AddToHook{begindocument/before}}%
5981
5982 \bidi@newrobustcmd*{\bidi@BeforeOutputPageShipOut}{\bidi@gappto\bidi@beforeoutputpageshipout}
5983 \newcommand*{\bidi@beforeoutputpageshipouthook}{}
5984
5985 \bidi@newrobustcmd*{\bidi@BeforeHeader}{\bidi@gappto\bidi@beforeheaderhook}
5986 \newcommand*{\bidi@beforeheaderhook}{}
5987
5988 \bidi@newrobustcmd*{\bidi@BeforeOutputBoxOutputPage}{\bidi@gappto\bidi@beforeoutputboxoutput}
5989 \newcommand*{\bidi@beforeoutputboxoutputpagehook}{}
5990
5991 \bidi@newrobustcmd*{\bidi@AfterOutputBoxOutputPage}{\bidi@gappto\bidi@afteroutputboxoutputpa}
5992 \newcommand*{\bidi@afteroutputboxoutputpagehook}{}
5993
5994 \bidi@newrobustcmd*{\bidi@BeforeFooter}{\bidi@gappto\bidi@beforefooterhook}
5995 \newcommand*{\bidi@beforefooterhook}{}
5996
5997 \bidi@newrobustcmd*{\bidi@AfterFooter}{\bidi@gappto\bidi@afterfooterhook}
5998 \newcommand*{\bidi@afterfooterhook}{}
5999
6000
6001 \bidi@newrobustcmd*{\bidi@AfterOutputPageShipOut}{\bidi@gappto\bidi@afteroutputpageshipoutho}
6002 \newcommand*{\bidi@afteroutputpageshipouthook}{}
6003

```



```

6004 \bidi@newrobustcmd*{\bidi@AtEndOutputPage}{\bidi@gappto\bidi@atendoutputpagehook}
6005 \newcommand*{\bidi@atendoutputpagehook}{\bidi@atendoutputpagehook}{}
6006
6007 %\bidi@preto\document{%
6008 % \endgroup
6009 % \let\bidi@AtEndPreamble\@firstofone
6010 % \bidi@endpreamblehook
6011 % \protected\def\bidi@AtEndPreamble{\@notprerr\@gobble}%
6012 % \bidi@undef\bidi@endpreamblehook
6013 % \beginingroup}
6014
6015 \bidi@newrobustcmd*{\bidi@AfterPreamble}{\AtBeginDocument}
6016 \bidi@AtEndPreamble{\let\bidi@AfterPreamble\@firstofone}
6017
6018 %\bidi@newrobustcmd*{\bidi@AfterEndPreamble}{\bidi@gappto\bidi@afterendpreamblehook}
6019 %\newcommand*{\bidi@afterendpreamblehook}{\bidi@afterendpreamblehook}{}
6020
6021 \bidi@newrobustcmd*{\bidi@AfterEndPreamble}{\AddToHook{begindocument/end}}}%
6022
6023 %\bidi@appto\document{%
6024 % \let\bidi@AfterEndPreamble\@firstofone
6025 % \bidi@afterendpreamblehook
6026 % \protected\def\bidi@AfterEndPreamble{\@notprerr\@gobble}%
6027 % \bidi@undef\bidi@afterendpreamblehook
6028 % \ignorespaces}
6029
6030 \bidi@newrobustcmd*{\bidi@AfterEndDocumentCheckLabelsRerun}{\bidi@gappto\bidi@afterenddocumentchecklabelsrerunhook}
6031 \newcommand*{\bidi@afterenddocumentchecklabelsrerunhook}{\bidi@afterenddocumentchecklabelsrerunhook}{}
6032
6033 \bidi@patchcmd\enddocument
6034 {\fi}
6035 {\let\bidi@AfterEndDocumentCheckLabelsRerun\@firstofone
6036 \bidi@afterenddocumentchecklabelsrerunhook
6037 \fi}
6038 {}
6039 {\PackageWarning{biditools}{Patching '\string\enddocument' failed}}
6040
6041 \AtEndDocument{\let\bidi@AfterEndPreamble\@gobble}
6042
6043 \bidi@newrobustcmd*{\bidi@AfterLastShipout}{\bidi@gappto\bidi@afterlastshipouthook}
6044 \newcommand*{\bidi@afterlastshipouthook}{\bidi@afterlastshipouthook}{}
6045
6046 \bidi@patchcmd\enddocument
6047 {\clearpage}
6048 {\clearpage
6049 \let\bidi@AfterLastShipout\@firstofone
6050 \bidi@afterlastshipouthook}
6051 {}
6052 {\let\bidi@clearpage\clearpage
6053 \def\clearpage{%
6054 \bidi@clearpage
6055 \let\bidi@AfterLastShipout\@firstofone
6056 \bidi@afterlastshipouthook}}
6057

```





```

6058 %\bidi@newrobustcmd*{\bidi@AfterEndDocument}{\bidi@gappto\bidi@afterendddocumenthook}
6059 %\newcommand*{\bidi@afterendddocumenthook}{%
6060
6061 \bidi@newrobustcmd*{\bidi@AfterEndDocument}{\AddToHook{endddocument/end}}}%
6062
6063 %\bidi@patchcmd\endddocument
6064 % {\deadcycles}
6065 % {\let\bidi@AfterEndDocument\@firstofone
6066 % \bidi@afterendddocumenthook
6067 % \deadcycles}
6068 % {}
6069 % {\let\bidi@@end\@@end
6070 % \def\@@end{%
6071 % \let\bidi@AfterEndDocument\@firstofone
6072 % \bidi@afterendddocumenthook
6073 % \bidi@@end}}
6074
6075 \bidi@newrobustcmd{\bidi@AtBeginEnvironment}[1]{%
6076 \bidi@csgappto{\bidi@begin@#1@hook}}
6077
6078 % Patch \begin<space> and \end<space> in newer LaTeX releases
6079 % \begin and \end in older ones.
6080 \expandafter\bidi@patchcmd\csname begin\ifcsname begin \endcsname\space\fi\endcsname
6081 {\csname #1\endcsname}
6082 {\bidi@csuse{\bidi@begin@#1@hook}%
6083 \csname #1\endcsname}
6084 {}
6085 {\bidi@warning{%
6086 Patching '\string\begin' failed!\MessageBreak
6087 '\string\bidi@AtBeginEnvironment' will not work\@gobble}}
6088
6089
6090
6091 \bidi@newrobustcmd{\bidi@AtEndEnvironment}[1]{%
6092 \bidi@csgappto{\bidi@end@#1@hook}}
6093
6094 \expandafter\bidi@patchcmd\csname end\ifcsname end \endcsname\space\fi\endcsname
6095 {\csname end#1\endcsname}
6096 {\bidi@csuse{\bidi@end@#1@hook}%
6097 \csname end#1\endcsname}
6098 {}
6099 {\bidi@warning{%
6100 Patching '\string\end' failed!\MessageBreak
6101 '\string\bidi@AtEndEnvironment' will not work\@gobble}}
6102
6103
6104
6105 \bidi@newrobustcmd{\bidi@BeforeBeginEnvironment}[1]{%
6106 \bidi@csgappto{\bidi@beforebegin@#1@hook}}
6107
6108 \expandafter\bidi@pretocmd\csname begin\ifcsname begin \endcsname\space\fi\endcsname
6109 {\bidi@csuse{\bidi@beforebegin@#1@hook}}
6110 {}
6111 {\bidi@warning{%

```



```

6112     Patching '\string\begin' failed!\MessageBreak
6113     '\string\bidibeforebeginenvironment' will not work\@gobble}}
6114
6115 \bidinewrobustcmd{\bidi@afterendenvironment}[1]{%
6116   \bidi@csgappto{\bidi@afterend@#1@hook}}
6117
6118 \expandafter\bidi@patchcmd\csname end\ifcsname end \endcsname\space\fi\endcsname
6119   {\if@ignore}
6120   {\bidi@csuse{\bidi@afterend@#1@hook}}%
6121   \if@ignore}
6122 {}
6123 {\bidi@warning{%
6124   Patching '\string\end' failed!\MessageBreak
6125   '\string\bidiafterendenvironment' will not work\@gobble}}
6126
6127 \def\bidi@namedef#1{\expandafter\def\csname #1\endcsname}
6128 \def\bidi@namegdef#1{\expandafter\gdef\csname #1\endcsname}
6129 \def\bidi@nameedef#1{\expandafter\edef\csname #1\endcsname}
6130 \def\bidi@namexdef#1{\expandafter\xdef\csname #1\endcsname}
6131
6132 % From David Carlisle:
6133 % The \@stpelt redefinition below belongs to Heiko Oberdiek
6134 % See also https://github.com/ho-tex/oberdiek/issues/26
6135
6136 \let\@bidi@stepcounter\stepcounter
6137 \let\@bidi@@stpelt\@stpelt
6138
6139 \def\@stpelt#1{%
6140   \ifcsname bidi@reset@#1@perpage\endcsname
6141     \begingroup
6142       \let\stepcounter\@bidi@stepcounter
6143       \@bidi@@stpelt{#1}%
6144     \endgroup
6145     \expandafter\@gobbletwo
6146   \fi
6147   \@bidi@@stpelt{#1}%
6148 }
6149
6150 \bidi@pretocmd\stepcounter
6151   {%
6152     \if@bidi@csundef{\bidi@stepcounterhook@#1}{%
6153       \csname bidi@stepcounterhook@#1\endcsname
6154     }%
6155   }%
6156   {\PackageWarning{biditools}{Patching '\string\stepcounter' failed}}
6157
6158 \chardef\bidi@backslash`\\
6159 \def\bidics#1{\texttt{\char\bidi@backslash#1}}
6160
6161 % anonymous control sequences
6162 \newcount\bidi@tempcountb
6163 \newtoks\bidi@temptoksa
6164 \newtoks\bidi@temptoksb
6165

```



```

6166 % Catcode (re)storing
6167 %
6168 \def\bidi@storecatcode#1%
6169   {\escapechar\m@ne
6170    \bidi@csarg\edef\bidi@restorecatcode\string#1}%
6171    {\catcode`\string#1=
6172     \the\catcode\expandafter`\string#1}%
6173    \catcode\expandafter`\string#1=12\relax
6174    \escapechar`\\relax}
6175 \def\bidi@restorecatcode#1%
6176   {\escapechar\m@ne
6177    \csname bidi@restorecatcode\string#1\endcsname
6178    \escapechar`\\relax}
6179
6180 % Construct a control sequence inside \edef
6181 %
6182 \def\bidi@csname#1{\expandafter\noexpand\csname#1\endcsname}
6183
6184 % Construct a control sequence out of #2, and give it to #1
6185 %
6186 \def\bidi@csarg#1#2{\expandafter#1\csname#2\endcsname}
6187
6188 % Pick an escapecharacter
6189 % this presumes that its argument is a character.
6190 %
6191 \def\bidi@pickescape#1{\ifnum`#1=\escapechar\else#1\fi}
6192
6193 % Equality of strings.
6194 % the fast approach: does not work in expansion-only environment.
6195 %
6196 \def\bidi@EqualString#1#2{00\fi\def\bidi@eqs@a{#1}\def\bidi@eqs@b{#2}%
6197   \ifx\bidi@eqs@a\bidi@eqs@b}
6198
6199 % Test by expansion only
6200 %
6201 \def\bidi@EqualStringX#1#2{00\fi
6202   \csname if\@bidi@EqualStringX#1&#2&\endcsname}
6203 \def\@bidi@EqualStringX#1#2$#3#4${\ifx#1#3%
6204   \ifx#1&true\else\bidi@hop@ES\@bidi@EqualStringX#2$#4$\fi
6205   \else false\fi}
6206 \def\bidi@hop@ES#1\fi#2\fi{\fi\fi#1}
6207
6208 % Lexicographic ordering
6209 % note the use of \def
6210 % also note the characters 0,127,255 that are used,
6211 % these are not supposed to appear in the strings
6212 %
6213 {\catcode0=12 \catcode255=12 \catcode127=12
6214 \gdef\bidi@StringBeforeNC#1#2{00\fi
6215   \bidi@CharsBefore#1^^@^^?#2^^ff^^?}
6216 \gdef\bidi@CharsBeforeNC#1#2^^?#3#4^^?{%
6217   \ifcat#1\relax\def\bidi@next{\bidi@CharsBefore#2^^@^^?#3#4^^ff^^?}%
6218   \else\ifcat#3\relax\def\bidi@next{\bidi@CharsBefore#1#2^^@^^?#4^^ff^^?}%
6219   \else\ifnum\lccode`#1<\lccode`#3

```



```

6220         \def\bidinext{\csname iftrue\endcsname}%
6221         \else\ifnum\lccode`#1>\lccode`#3
6222             \def\bidinext{\csname iffalse\endcsname}%
6223             \else\def\bidinext{\bidicharsbefore#2^^?#4^^?}%
6224     \fi \fi \fi \fi
6225     \bidinext}
6226 \gdef\bidistringbefore#1#2{00\fi
6227     \bidicharsbefore#1^^?#2^^ff^^?}
6228 \gdef\bidicharsbefore#1#2^^?#3#4^^?{%
6229     \ifnum`#1<`#3
6230         \def\bidinext{\csname iftrue\endcsname}%
6231     \else\ifnum`#1>`#3
6232         \def\bidinext{\csname iffalse\endcsname}%
6233     \else\def\bidinext{\bidicharsbefore#2^^?#4^^?}%
6234     \fi\fi
6235     \bidinext}
6236 }
6237
6238 % Null argument test
6239 %
6240 \def\bidiempty{}
6241 \def\bidiiempty#1{00\fi\expandafter\ifx\csname bidi@#1\endcsname\bidii@null}
6242 \def\bidiiemptyX#1{\expandafter\ifx\csname bidi@#1\endcsname\bidii@null}
6243 %\def\bidiiempty#1{\def\bidicsa{#1}\ifx\bidicsa\bidiempty}
6244 \def\bidiiemptylist#1{00\fi\def\bidicsa{#1}\ifx\csa\bidiempty}
6245
6246 % Next character test
6247 %
6248 \def\bidinextchar#1#2#3{00\fi
6249     \let\bidinxt@ch#1\def\bidinxt@a{#2}\def\bidinxt@b{#3}%
6250     \futurelet\bidinxt@c\@bidiiifnxtc}
6251 \def\bidiiifnextchar#1#2#3{%
6252     \let\bidinxt@ch#1\def\bidinxt@a{#2}\def\bidinxt@b{#3}%
6253     \futurelet\bidinxt@c\@bidiiifnxtc}
6254 \def\@bidiiifnxtc{\ifx\bidinxt@ch\bidinxt@c \expandafter\bidinxt@a
6255     \else \expandafter\bidinxt@b \fi}
6256
6257 % Test for defined-ness of string as control sequence.
6258 % works inside \edef
6259 %
6260 \def\bidiiundefinedcs#1{00\fi\bidicsarg\ifx{#1}\relax}
6261
6262 % Define uniquely defined dummy macros,
6263 % usually to serve as bumper blocks at the end of a list
6264 %
6265 \newcount\bididummies
6266 \def\DefNewDummy#1{
6267     \if\bidiiundefinedcs{#1}\bidicsarg\edef{#1}{\bididum\the\bididummies}
6268     \advance\bididummies\@ne
6269     \else
6270         \bidiierror{Attempt at second definition of `#1'}
6271     \fi}
6272
6273 % string case statement

```



```

6274 % use: \bidi@switch \iftest{...} in:
6275 %     item1 action1
6276 %     ...
6277 %     itemn actionn
6278 %     default defaultaction [optional]
6279 %     \endbidi@switch
6280 % inspired by Jonathan Fine: Some Basic Control Macros
6281 % Tugboat 12 #4
6282 %
6283 \let\@bidi@fi\fi \let\endbidi@switch\relax \DefNewDummy{bidi@default}
6284 \def\bidi@switch@exit #1 \@bidi@fi #2 \endbidi@switch {\fi #1}
6285 \def\bidi@switch #1#2#3{\bidi@csarg\ifx{#2}\bidi@default\bidi@switch@exit #3 \@bidi@fi
6286   #1{#2}\bidi@switch@exit #3 \@bidi@fi
6287   \bidi@switch {#1}
6288 }
6289 % this version puts the test object in {}
6290 \def\bidi@oswitch #1 in: #2 #3; {\bidi@csarg\ifx{#2}\bidi@default\bidi@switch@exit #3 \@bidi@fi
6291   #1{#2}\bidi@switch@exit #3 \@bidi@fi
6292   \bidi@switch #1 in:
6293 }
6294 % this version assumes that the test object is just one character
6295 \def\bidi@cswitch #1 in: #2 #3; {\bidi@csarg\ifx{#2}\bidi@default\bidi@switch@exit #3 \@bidi@fi
6296   #1#2\bidi@switch@exit #3 \@bidi@fi
6297   \bidi@cswitch #1 in:
6298 }
6299 % this version assumes that the test object can have an optional space
6300 \def\bidi@bswitch #1 in: #2 #3; {\bidi@csarg\ifx{#2}\bidi@default\bidi@switch@exit #3 \@bidi@fi
6301   #1#2 \bidi@switch@exit #3 \@bidi@fi
6302   \bidi@bswitch #1 in:
6303 }
6304 % this version can cope with significant spaces at the start of #3;
6305 % #2 is macro argument
6306 \def\bidi@mswitch #1 in: #2:#3; {\bidi@csarg\ifx{#2}\bidi@default\bidi@switch@exit #3 \@bidi@fi
6307   #1{#2}\bidi@switch@exit #3 \@bidi@fi
6308   \bidi@mswitch #1 in:
6309 }
6310 % idem; #2 does not have to be enclosed in braces
6311 \def\bidi@fswitch #1 in: #2:#3; {\bidi@csarg\ifx{#2}\bidi@default\bidi@switch@exit #3 \@bidi@fi
6312   #1#2 \bidi@switch@exit #3 \@bidi@fi
6313   \bidi@fswitch #1 in:
6314 }
6315
6316 % Routines for taking the value of a string:
6317 % if the string is defined as control sequence
6318 % take the value of that, otherwise take the string itself
6319
6320 % String or value of control sequence
6321 %
6322 \def\bidi@ww#1{\if\bidi@undefinedcs{#1}#1\else \the\csname#1\endcsname\fi}
6323
6324 % String or control sequence
6325 %
6326 \def\@bidi@ww#1{\if\bidi@undefinedcs{#1}#1\else \csname#1\endcsname \fi}
6327

```



```

6328 % String or \noexpand-ed control sequence;
6329 % for use in \edef
6330 %
6331 \newif\ifbidi@in@label
6332 \def\@bidi@w@w#1{\if\@bidi@undefinedcs{#1}#1\else
6333     \ifbidi@in@label\noexpand\protect\fi \bidi@csname{#1}\fi}
6334 \newtoks\bidi@are@these@correct
6335 \def\bidi@t@w@w#1{%
6336     \if\@bidi@undefinedcs{#1}#1%
6337     \ifdefining\bidi@append@to@list\bidi@are@these@correct{#1 }\fi
6338     \else
6339     \ifin@label\noexpand\protect\fi \bidi@csname{#1}\fi}
6340
6341 % List Manipulation .....
6342 % this assumes that #1 is a list of tokens, #2 is the name of a list
6343 %
6344 % Names of lists (and of items to pop into) are given as strings;
6345 % not as control sequences.
6346 %
6347 \newtoks\bidi@toks@lista \newtoks\bidi@toks@listb
6348 % basic append/prepend macro
6349 \long\def\@bidi@append@to@csl#1#2#3{\begingroup\bidi@toks@lista=#2{#3}%
6350 \global#1=\expandafter\expandafter\expandafter{\expandafter\the\expandafter#1\the\bidi@toks@lista}
6351 \long\def\@bidi@prepend@to@csl#1#2#3{\begingroup\bidi@toks@lista=#2{#3}%
6352 \global#1=\expandafter\expandafter\expandafter{\expandafter\the\expandafter\bidi@toks@lista}
6353 \def\@bidi@append@to@list{\bidi@csarg\@bidi@append@to@csl}
6354 \def\@bidi@prepend@to@list{\bidi@csarg\@bidi@prepend@to@csl}
6355 % variations:
6356 \long\def\bidi@append@to@list#1#2{\@bidi@append@to@csl{#1}{#2}}
6357 \long\def\bidi@prepend@to@list#1#2{\@bidi@prepend@to@csl{#1}{#2}}
6358 \def\bidi@append@list@to@list#1#2{%
6359     \@bidi@append@to@csl{#1}{\expandafter\expandafter\expandafter{\expandafter\the\csname#2\endcsname}}
6360 \def\bidi@prepend@list@to@list#1#2{%
6361     \@bidi@prepend@to@csl{#1}{\expandafter\expandafter\expandafter{\expandafter\the\csname#2\endcsname}}
6362 \def\bidi@append@csl@to@csl#1#2{%
6363     \@bidi@append@to@csl{#1}\expandafter{\the#2}}
6364 \def\bidi@prepend@csl@to@csl#1#2{%
6365     \@bidi@prepend@to@csl{#1}\expandafter{\the#2}}
6366 \def\bidi@append@toks@cs@to@list#1#2{\@bidi@append@to@csl{#1}\expandafter{\the#2}}
6367 \def\bidi@prepend@toks@cs@to@list#1#2{\@bidi@prepend@to@csl{#1}\expandafter{\the#2}}
6368
6369 \let\bidi@willbeunhskip\unhskip
6370
6371 % A few list macros for the user
6372 \def\NewTokenList:#1 {\bidi@csarg\newtoks{#1}\global\csname#1\endcsname{}}
6373 \def\EmptyTokenList:#1 {\global\csname#1\endcsname{}}
6374 \long\def\AppendToTokenList:#1=#2 {\@bidi@append@to@list{#1}{#2}}
6375 \long\def\PrependToTokenList:#1=#2 {\@bidi@prepend@to@list{#1}{#2}}
6376 \def\TheTokenList:#1 {\let\bidi@oldwbuskip\bidi@willbeunhskip \let\bidi@willbeunhskip\empty
6377     \if\@bidi@undefinedcs{#1}\bidi@error{Token List <#1> undefined}
6378     \else\bidi@csarg\the{#1}\fi
6379     \let\bidi@willbeunhskip\bidi@oldwbuskip}
6380
6381 \def\bidi@del@tok@from@list#1#2{\begingroup

```



```

6382 \long\def\bidics@liste##1#2##2\biditok@SM
6383 {\biditoks@lista{##1}\biditoks@listb{##2}%
6384 \edef\bidics@listb{\global\bidicsname{#1}=
6385 {\the\biditoks@lista\the\biditoks@listb}}%
6386 \bidics@listb}%
6387 \edef\bidics@lista{\noexpand\bidics@liste}\expandafter\the\csname#1\endcsname\noexpand
6388 \bidics@lista \endgroup}
6389 \def\bidicin@front@of@list#1{\bidicsarg{\let\expandafter\bidics@lista}{#1}%
6390 \bidicin@front@of@cslist\bidics@lista}
6391 \long\def\bidicin@front@of@cslist#1#2{\begingroup\biditoks@lista={#2}%
6392 \global#1=\expandafter\expandafter\expandafter{\expandafter\the\expandafter\biditoks@list
6393 \endgroup}
6394 \long\def\bidilocal@in@front@of@list#1#2{\biditoks@lista={#2}%
6395 \csname#1\endcsname\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter
6396 {\expandafter\expandafter\expandafter\the\expandafter\expandafter\expandafter
6397 \expandafter\the\csname#1\endcsname}%
6398 }
6399 \def\bidiset@list#1{\bidicsarg{\let\expandafter\bidics@lista}{#1}%
6400 \bidiset@cslist\bidics@lista}
6401 \long\def\bidiset@cslist#1#2{\begingroup\biditoks@lista={#2}%
6402 \global#1=\expandafter{\the\biditoks@lista}\endgroup}
6403
6404 %%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%% Stack macros
6405 %
6406 % push in terms of prepending of lists
6407 \def\bidipush@cs@onto@cs#1#2{\@bidiprep@to@cslist#1\expandafter{\expandafter\bidipush@cs@onto@cs#1}}
6408 \def\bidipush@onto#1{\bidicsarg\bidipush@onto@cs{#1}}
6409 \def\bidipush@onto@cs#1#2{\@bidiprep@to@cslist#1}{\{#2}}
6410 \def\bidilocal@push@onto#1#2{\let\relax
6411 \bidilocal@in@front@of@list{#1}{\{#2}}
6412 % pop via auxiliary macro: #1 is result, #2 is stack
6413 % two cs arguments
6414 \def\bidipop@cs@into#1#2{\edef\bidics@e
6415 {\noexpand\@bidipopinto\noexpand#1\noexpand#2\the#2\noexpand\@bidipop}\bidics@e}
6416 % two string arguments
6417 \def\bidipop@into#1#2{\edef\bidics@e
6418 {\noexpand\@bidipopinto\bidicsname{#1}\bidicsname{#2}\bidicsarg\the{#2}\noexpand\@bidipop}
6419 \long\def\@bidipopinto#1#2\#3#4{\@bidipop{#1}{#3}{#2}{#4}}
6420 \def\bidicopy@stacktop#1#2{%
6421 \edef\bidics@e{\noexpand\@bidicopy@stacktop
6422 {#1}\bidicsarg\the{#2}\noexpand\@bidipop}%
6423 \bidics@e}
6424 \def\@bidicopy@stacktop#1\#2#3\@bidipop{\csname#1\endcsname#2\relax}
6425 \newcount\bidistack@length \newtoks\bidiempty@stack \bidiempty@stack{\{\}}
6426 \def\bidilength@of@stack#1{\bidicsarg\bidilength@of@cstack{#1}}
6427 \def\bidilength@of@cstack#1{\def\advance\bidistack@length\m@ne}%
6428 \bidistack@length\m@ne \the#1}
6429 % turn a stack upside down
6430 \def\bidinvert@cstack#1{\bidilength@of@cstack{#1}%
6431 \biditempcountb\z@ \biditemptoksa\bidiempty@stack
6432 \loop\ifnum\biditempcountb<\bidistack@length
6433 \bidipop@cs@into\biditemptoksb#1\advance\bidistack@length\m@ne
6434 \bidipush@cs@onto@cs\biditemptoksa\biditemptoksb
6435 % \bidicopy@stacktop\biditemptoksb\biditemptoksa% append a to b

```



```

6436% \bidi@temptoksa\bidi@temptoksb
6437 \repeat% copy b to a
6438 #1\bidi@temptoksa \bidi@temptoksa\bidi@empty@toks}
6439% invert a stack into a list
6440 \def\bidi@x@stack@to@list#1{\bidi@length@of@stack{#1}%
6441 \bidi@tempcountb\z@ \bidi@temptoksa\bidi@empty@toks
6442 \loop\ifnum\bidi@tempcountb<\bidi@stack@length
6443 \bidi@pop@into{\bidi@temptoksb}{#1}\advance\bidi@stack@length\m@ne
6444 \bidi@append@list@to@list{\bidi@temptoksb}{\bidi@temptoksa}\repeat
6445 \csname#1\endcsname\bidi@temptoksa \bidi@temptoksa\bidi@empty@toks}
6446
6447
6448% General loop macro:
6449% \looprepeat
6450% \forvariable{<var>} \fromvalue{<start>} \bystep{<step>} \tovalue{<end>} \downtovalue{<end>}
6451% \untilcondition{<cond>} \whilecondition{<cond>}
6452% \doloopbody { <loop body> }
6453% where all control sequences in between \looprepeat and \doloopbody are optional.
6454%
6455% var: characters to form a control sequence;
6456% after \forvariable{index} you can access the loop counter as \index.
6457% This is a count register; to print it use \number\index.
6458% start,step,end: integers with obvious relations to the loop counter;
6459% start and step have a default value of 1
6460% cond: (sequence of commands ending in) any TeX \if... test.
6461%
6462% Count down instead of up with \downtovalue; the increment given in \bystep
6463% is always positive, and is added or subtracted accordingly.
6464%
6465% Tests: \untilcondition is evaluated at the end of the loop body; \whilecondition
6466% at the beginning of the loop body.
6467%
6468% Exit from middle of loop: \breaklooprepeat
6469% use this at any place in the loop; in case of a conditional use
6470% \ifsomething ... \expandafter \breaklooprepeat \fi
6471%
6472% Note that the line ends do not cause spaces in the output.
6473%
6474% Technical details:
6475% The loop body is not executed in a group: the braces are those
6476% of a token list.
6477% The 'forvariable' variable is \let to a \count register.
6478
6479
6480
6481% Auxiliary stuff
6482 \def\bidi@looprepeat@csarg#1#2{\expandafter#1\csname#2\endcsname}
6483 \def\bidi@looprepeat@csromannumeral#1{\csname #1\romannumeral\bidi@looprepeat@depth\endcsname}
6484 \def\bidi@looprepeat@csargromannumeral#1#2{\expandafter#1\csname#2\romannumeral\bidi@looprepeat@depth\endcsname}
6485
6486 \newcount\bidi@looprepeat@depth
6487 \let\endlooprepeat\relax \def\bidi@csprotect{}
6488% Trace switches may later be defined by PAC_utils
6489 \let\bidi@looprepeat@traceinit\relax \let\bidi@looprepeat@traceexit\relax

```





```

6490
6491 % Main repeatloop macro
6492 % - go to next level and allocate unique counter/toks if this is the
6493 %   first time we visit this level
6494 % - setup: gather bounds and termination conditions
6495 % - scoop up body in token list; after the assignment define and
6496 %   execute body
6497 \def\looprepeat#1\doloopbody{\bidi@looprepeat@traceinit % exit in \breakrepeatloop
6498   \advance\bidi@looprepeat@depth\@ne\relax
6499   \bidi@looprepeat@csargromannumeral\ifx\bidi@looprepeat@count\relax
6500     \bidi@looprepeat@csargromannumeral{\csname newcount\expandafter\endcsname}{\bidi@looprepe
6501     \bidi@looprepeat@csargromannumeral{\csname newtoks\expandafter\endcsname}{\bidi@looprepea
6502     \bidi@looprepeat@csargromannumeral{\csname newtoks\expandafter\endcsname}{\bidi@looprepea
6503     \bidi@looprepeat@csargromannumeral{\csname newtoks\expandafter\endcsname}{\bidi@looprepea
6504   \fi \bidi@looprepeat@zero \def\bidi@looprepeat@sign{}\def\bidi@looprepeat@comp{>}\bidi@loo
6505   \edef\bidi@looprepeat@tmp
6506     {\def\bidi@looprepeat@csargromannumeral\noexpand{\bidi@looprepeat@looprepeat}{\bidi@loop
6507   \afterassignment\bidi@looprepeat@dxbbody\bidi@looprepeat@csromannumeral{\bidi@looprepeat@tok
6508
6509 % Define and execute loop body
6510 % This is done with an \edef to construct the actual sequence
6511 \def\bidi@looprepeat@dxbbody{\bidi@looprepeat@csargromannumeral\edef{\bidi@looprepeat@body}{%
6512   \bidi@looprepeat@csargromannumeral\the{\bidi@looprepeat@wtest}%
6513   \noexpand\the\bidi@looprepeat@csargromannumeral\noexpand{\bidi@looprepeat@toks}%
6514   \bidi@looprepeat@csargromannumeral\the{\bidi@looprepeat@utest}%
6515   \global\bidi@looprepeat@csargromannumeral\advance{\bidi@looprepeat@count} by \bidi@loopre
6516   \noexpand\endlooprepeat
6517   \bidi@looprepeat@csargromannumeral\noexpand{\bidi@looprepeat@looprepeat}}}%
6518 \bidi@looprepeat@csromannumeral{\bidi@looprepeat@body}\ignorespaces}
6519
6520 % Stop test
6521 %% In order to stop, issue a
6522 % \breaklooprepeat which scoops up the rest of the body and exits
6523 \def\breaklooprepeat#1\endlooprepeat{\bidi@looprepeat@zero\bidi@looprepeat@csargromannumeral
6524   \advance\bidi@looprepeat@depth\m@ne \bidi@looprepeat@traceexit
6525 }
6526
6527
6528 % Setup
6529 % gather bounds and termination conditions
6530 \def\bidi@looprepeat@setup#1{%
6531   \begingroup
6532     \def\forvariable##1{%
6533       \edef\bidi@looprepeat@tmp{%
6534         \global\let\bidi@looprepeat@csarg\noexpand{##1}\bidi@looprepeat@csromannumeral{\bidi@
6535         \bidi@looprepeat@tmp}%
6536       \def\fromvalue##1{\bidi@looprepeat@csargromannumeral\global{\bidi@looprepeat@count}##1\ig
6537       \def\tovalue##1{%
6538         \edef\bidi@looprepeat@tmp{\global\bidi@looprepeat@csargromannumeral\noexpand{\bidi@loop
6539         {\bidi@looprepeat@csargromannumeral\the{\bidi@looprepeat@wtest}%
6540         \noexpand\ifnum\bidi@looprepeat@csargromannumeral\noexpand{\bidi@looprepeat@count}\bi
6541         \noexpand\expandafter \noexpand\breaklooprepeat
6542         \noexpand\fi}\ignorespaces}%
6543       \bidi@looprepeat@tmp}%

```



```

6544 \def\downtovalue##1{%
6545 \gdef\bidi@looprepeat@sign{-}\gdef\bidi@looprepeat@comp{<}\tovalue{##1}\ignorespaces}%
6546 \def\bystep##1{\ifnum##1<0 \bidi@error{LOOPREPEAT: increment has to be a positive value}
6547 \bidi@looprepeat@csargromannumeral\gdef\bidi@looprepeat@inc}{-##1}\else
6548 \bidi@looprepeat@csargromannumeral\gdef\bidi@looprepeat@inc}{##1}\fi\ignorespaces}%
6549 \def\untilcondition##1{%
6550 \edef\bidi@looprepeat@tmp{\global\bidi@looprepeat@csargromannumeral\noexpand\bidi@looprepeat@
6551 {noexpand##1\relax
6552 \noexpand\expandafter \noexpand\breaklooprepeat \noexpand\fi}\ignorespaces}%
6553 \bidi@looprepeat@tmp}%
6554 \def\whilecondition##1{%
6555 \edef\bidi@looprepeat@tmp{\global\bidi@looprepeat@csargromannumeral\noexpand\bidi@looprepeat@
6556 {noexpand##1\relax \noexpand\else
6557 \noexpand\expandafter \noexpand\breaklooprepeat \noexpand\fi}\ignorespaces}%
6558 \bidi@looprepeat@tmp}%
6559 \fromvalue{\@ne}\bystep{\@ne}#1%
6560 \endgroup}
6561 \def\bidi@looprepeat@zero
6562 {\bidi@looprepeat@csromannumeral\bidi@looprepeat@toks}{\bidi@looprepeat@csromannumeral\bidi@looprepeat@csargromannumeral\def\bidi@looprepeat@body}{}}
6563 \bidi@looprepeat@csargromannumeral\def\bidi@looprepeat@body}{}}
6564
6565 %\tracingmacros2
6566 %\newcount\tmpcount % used in some examples below
6567
6568 %\looprepeat \forvariable{i}
6569 % \bystep{2}
6570 % \doloopbody {%
6571 % \ifnum i=13 \expandafter\breaklooprepeat \fi
6572 % \number{i} } %
6573 %}%
6574
6575 %\looprepeat \forvariable{iii}
6576 % \tovalue{8}
6577 % \doloopbody {}
6578 %After loop: \number{iii}%
6579
6580 %\looprepeat \forvariable{i}
6581 % \fromvalue{10}
6582 % \bystep{2}
6583 % \downtovalue{0}
6584 % \doloopbody {\number{i} }
6585
6586 %\looprepeat \forvariable{x} \whilecondition{\ifnum x<7}
6587 % \doloopbody {\number{x} }
6588
6589 %\looprepeat \tovalue{3} \doloopbody {Hello world! }
6590
6591 %\looprepeat \forvariable{j}
6592 % \untilcondition{\tmpcount=j \divide\tmpcount by 37 \noexpand\ifnum\tmpcount=1}
6593 % \doloopbody {\number{j} }
6594
6595 %\looprepeat \forvariable{i} \bystep{2} \tovalue{10} \doloopbody
6596 % {\looprepeat \forvariable{j} \fromvalue{i} \bystep{3} \tovalue{18}
6597 % \doloopbody {(\number{i}.\number{j}) }

```



```

6598% }
6599
6600% infinite loop
6601%\looprepeat \doloopbody {}
6602
6603 \renewcommand{\InputIfFileExists}[2]{%
6604   \begingroup\expandafter\expandafter\expandafter\endgroup
6605   \expandafter\ifx\csname #1-@bidi@alias\endcsname\relax
6606     \expandafter\@secondoftwo
6607   \else
6608     \bidi@replacefile@msg{\csname #1-@bidi@alias\endcsname}{#1}%
6609     \expandafter\@firstoftwo
6610   \fi
6611   {%
6612     \expandafter\InputIfFileExists\expandafter{\csname
6613       #1-@bidi@alias\endcsname}{#2}%
6614   }%
6615   {\IfFileExists{#1}{%
6616     \bidi@load@hook{before}{#1}%
6617     #2\@addtofilelist{#1}%
6618     \@input \@filef@und
6619     \bidi@load@hook{after}{#1}%
6620   }%
6621 }
6622
6623 \newcommand*{\bidi@loadwithoptions}{%
6624 \newcommand*{\bidi@loadwithoptions}{%
6625 \let\bidi@loadwithoptions\@loadwithoptions
6626
6627 \renewcommand*{\@loadwithoptions}[3]{%
6628   \begingroup\expandafter\expandafter\expandafter\endgroup
6629   \expandafter\ifx\csname #3.#1-@bidi@aliasname\endcsname\relax
6630     \def\bidi@loadwithoptions{\bidi@loadwithoptions{#1}{#2}{#3}}%
6631   \else
6632     \bidi@replacefile@msg{\csname #3.#1-@bidi@aliasname\endcsname.#1}{#3.#1}%
6633     \def\bidi@loadwithoptions{%
6634       \loadwithoptions{#1}{#2}{\csname #3.#1-@bidi@aliasname\endcsname}%
6635     }%
6636   \fi
6637   \bidi@loadwithoptions
6638 }
6639
6640 \newcommand*{\bidi@onefilewithoptions}{%
6641 \let\bidi@onefilewithoptions\@onefilewithoptions
6642 \def\@onefilewithoptions#1[#2][#3]#4{%
6643   \begingroup\expandafter\expandafter\expandafter\endgroup
6644   \expandafter\ifx\csname #1.#4-@bidi@aliasname\endcsname\relax
6645     \def\bidi@onefilewithoptions{\bidi@onefilewithoptions{#1}}%
6646   \else
6647     \bidi@replacefile@msg{\csname #1.#4-@bidi@aliasname\endcsname.#4}{#1.#4}%
6648     \edef\bidi@onefilewithoptions{%
6649       \noexpand\@onefilewithoptions{\csname #1.#4-@bidi@aliasname\endcsname}}%
6650   \fi
6651   \bidi@onefilewithoptions[#{#2}][#{#3}]{#4}%

```



```

6652 \bidi@load@hook{lateafter}{#1.#4}%
6653 }
6654
6655 \newcommand*{\bidi@ReplaceInput}[2]{%
6656 \expandafter\edef\csname #1-@bidi@alias\endcsname{#2}%
6657 }
6658
6659 \newcommand*{\bidi@UnReplaceInput}[1]{%
6660 \ifcsname #1-@bidi@alias\endcsname
6661 \expandafter\let\csname #1-@bidi@alias\endcsname\relax
6662 \fi
6663 }
6664
6665 \newcommand*{\@bidi@replacefilewithext}[3]{%
6666 \expandafter\edef\csname #1.#3-@bidi@aliasname\endcsname{#2}%
6667 }
6668 \newcommand*{\bidi@ReplacePackage}[2]{%
6669 \@bidi@replacefilewithext{#1}{#2}\@pkgextension
6670 }
6671 \newcommand*{\bidi@ReplaceClass}[2]{%
6672 \@bidi@replacefilewithext{#1}{#2}\@clsextension
6673 }
6674 \newcommand*{\@bidi@unreplacefilewithext}[2]{%
6675 \ifcsname #1.#2-@bidi@aliasname\endcsname
6676 \expandafter\let\csname #1.#2-@bidi@aliasname\endcsname\relax
6677 \fi
6678 }
6679 \newcommand*{\bidi@UnReplacePackage}[1]{%
6680 \@bidi@unreplacefilewithext{#1}\@pkgextension
6681 }
6682 \newcommand*{\bidi@UnReplaceClass}[1]{%
6683 \@bidi@unreplacefilewithext{#1}\@clsextension
6684 }
6685 \newcommand*{\bidi@replacefile@msg}[2]{%
6686 \PackageInfo{biditools}{inputing `#1' instead of `#2'}%
6687 }
6688
6689 \newcommand*{\bidi@load@hook}[2]{%
6690 \@ifundefined{#2-@#1}{%
6691 \nameuse{#2-@#1}%
6692 \expandafter\let\csname #2-@#1\endcsname=\relax}}
6693 \newcommand*{\bidi@set@load@hook}[2]{%
6694 \@ifundefined{#2-@#1}{\@namedef{#2-@#1}{}}{%
6695 \expandafter\g@addto@macro\csname #2-@#1\endcsname}
6696 \newcommand*{\bidi@BeforeFile}{\bidi@set@load@hook{before}}
6697 \newcommand*{\bidi@AfterFile}{\bidi@set@load@hook{after}}
6698 \newcommand*{\bidi@BeforeClass}[1]{%
6699 \bidi@set@load@hook{before}{#1.\@clsextension}}
6700 \newcommand*{\bidi@AfterClass}{%
6701 \@ifstar {\@s@bidi@AfterClass}{%
6702 \@ifnextchar +\@@bidi@AfterClass{%
6703 \@ifnextchar !\@@@bidi@AfterClass\bidi@AfterClass
6704 }%
6705 }%

```



```

6706 }
6707
6708 \newcommand*{\@@@bidi@AfterClass}[2]{%
6709   \begingroup\ifx\csname #2.\@clsextension-h@@k\endcsname\relax
6710     \aftergroup\@s@bidi@AfterClass
6711   \else
6712     \aftergroup\bidi@AfterAtEndOfClass
6713   \fi
6714   \endgroup{#2}%
6715 }
6716
6717 \newcommand*{\bidi@AfterAtEndOfClass}[1]{%
6718   \bidi@set@load@hook{lateafter}{#1.\@clsextension}}
6719 \newcommand*{\@@@bidi@AfterClass}[2]{%
6720   \begingroup
6721     \expandafter\ifx\csname #2.\@clsextension-h@@k\endcsname\relax
6722       \aftergroup\@s@bidi@AfterClass
6723     \else
6724       \aftergroup\bidi@AfterClass
6725     \fi
6726     \endgroup{#2}%
6727 }
6728
6729 \newcommand*{\@bidi@AfterClass}[1]{%
6730   \bidi@set@load@hook{after}{#1.\@clsextension}}
6731 \newcommand*{\@s@bidi@AfterClass}[1]{%
6732   \begingroup
6733     \@ifclassloaded{#1}{%
6734       \aftergroup\@secondoftwo
6735     }{%
6736       \aftergroup\@bidi@AfterClass
6737     }%
6738   \endgroup
6739   {#1}%
6740 }
6741
6742
6743 \newcommand*{\bidi@BeforePackage}[1]{%
6744   \bidi@set@load@hook{before}{#1.\@pkgextension}}
6745 \newcommand*{\bidi@AfterPackage}{%
6746   \ifstar {\@s@bidi@AfterPackage}{%
6747     \ifnextchar +\@@@bidi@AfterPackage{%
6748       \ifnextchar !\@@@bidi@AfterPackage\@bidi@AfterPackage
6749     }%
6750   }%
6751 }
6752 \newcommand*{\@@@bidi@AfterPackage}[2]{%
6753   \begingroup\ifx\csname #2.\@pkgextension-h@@k\endcsname\relax
6754     \aftergroup\@s@bidi@AfterPackage
6755   \else
6756     \aftergroup\bidi@AfterAtEndOfPackage
6757   \fi
6758   \endgroup{#2}%
6759 }

```



```

6760 \newcommand*{\bidi@AfterAtEndOfPackage}[1]{%
6761   \bidi@set@load@hook{lateafter}{#1.\@pkgextension}}
6762 \newcommand*{\@bidi@AfterPackage}[2]{%
6763   \beginingroup
6764     \expandafter\ifx\csname #2.\@pkgextension-h@@k\endcsname\relax
6765       \aftergroup\@s@bidi@AfterPackage
6766     \else
6767       \aftergroup\@bidi@AfterPackage
6768     \fi
6769   \endgroup{#2}}%
6770 }
6771 \newcommand*{\@bidi@AfterPackage}[1]{%
6772   \bidi@set@load@hook{after}{#1.\@pkgextension}}
6773 \newcommand*{\@s@bidi@AfterPackage}[1]{%
6774   \beginingroup
6775     \@ifpackageloaded{#1}{%
6776       \aftergroup\@secondoftwo
6777     }{%
6778       \aftergroup\@bidi@AfterPackage
6779     }%
6780   \endgroup
6781   {#1}}%
6782 }
6783
6784 \newcommand*{\bidi@excludedpackages}{}
6785 \let\bidi@excludedpackages\@empty
6786 \newcommand*{\bidi@saved@RequirePackage}{}
6787 \newcommand*{\bidi@PreventPackageFromLoading}{%
6788   \@ifstar{\@bidi@PreventPackageFromLoading\PackageInfo}%
6789   {\@bidi@PreventPackageFromLoading\PackageWarning}%
6790 }
6791 \newcommand*{\@bidi@PreventPackageFromLoading}[1]{%
6792   \@ifnextchar [%]
6793   {\@bidi@PreventPackageFromLoading#1}{\@bidi@PreventPackageFromLoading#1 []}%
6794 }
6795 \newcommand*{\@bidi@PreventPackageFromLoading}{}
6796
6797 \def\@bidi@PreventPackageFromLoading#1[#2]#3{%
6798   \edef\reserved@b{\zap@space#3 \@empty}%
6799   \ifx \reserved@b\@empty
6800     #1{\biditytools}{%
6801       \string\bidi@PreventPackageFromLoading\space with empty packages\MessageBreak
6802       argument ignored%
6803     }%
6804   \else
6805     \ifx\bidi@excludedpackages\@empty
6806       \let\bidi@saved@RequirePackage\RequirePackage
6807       \let\RequirePackage\bidi@RequirePackage
6808       \def\reserved@a##1##{%
6809         \@latex@error
6810         {\noexpand \usepackage before \string\documentclass}%
6811         {\noexpand \usepackage may only appear in the document
6812          preamble, i.e.,\MessageBreak
6813          between \noexpand\documentclass and

```



```

6814         \string\begin{document}.}%
6815         \@gobble}%
6816     \ifx\reserved@a\usepackage\else
6817         \ifx\usepackage\bid@saved@RequirePackage\else
6818             \PackageWarning{biditools}{%
6819                 Maybe serious problem: unexpected definition of\MessageBreak
6820                 \string\usepackage
6821             }%
6822         \fi
6823         \let\usepackage\RequirePackage
6824     \fi
6825 \fi
6826 \expandafter\@for \expandafter\reserved@a\expandafter:\expandafter=%
6827 \reserved@b\do {%
6828     \ifx\reserved@a\@empty
6829         #1{biditools}{%
6830             empty package argument for
6831             \string\bid@PreventPackageFromLoading\MessageBreak
6832             ignored%
6833         }%
6834     \else
6835         \expandafter\@ifpackageloaded\expandafter{\reserved@a}{%
6836             #1{biditools}{%
6837                 package `\'reserved@a' already loaded.\MessageBreak
6838                 Cannot prevent it from being loaded%
6839             }%
6840         }{%
6841             \edef\bid@excludedpackages{\bid@excludedpackages,%
6842                 \reserved@a}%
6843             \if\relax\detokenize{#2}\relax\else
6844                 \@ifundefined{bid@exclude@package@\reserved@a @do}{%
6845                     \@namedef{bid@exclude@package@\reserved@a @do}{}%
6846                 }{%
6847                     \expandafter\def
6848                     \csname bid@exclude@package@\reserved@a
6849                         @do\expandafter\expandafter\expandafter\endcsname
6850                     \expandafter\expandafter\expandafter{%
6851                         \csname bid@exclude@package@\reserved@a @do\endcsname
6852                         #2%
6853                     }%
6854                 \fi
6855             }%
6856         \fi
6857     }%
6858     \ifx\bid@excludedpackages\@empty
6859         \bid@ResetPreventPackageFromLoading
6860     \fi
6861 \fi
6862 }
6863
6864 \@onlypreamble\bid@PreventPackageFromLoading
6865 \newcommand*{\bid@ResetPreventPackageFromLoading}{%
6866     \let\bid@excludedpackages\@empty
6867     \ifx\RequirePackage\bid@RequirePackage

```



```

6868 \ifx\usepackage\RequirePackage
6869 \let\usepackage\bidid@saved@RequirePackage
6870 \fi
6871 \let\RequirePackage\bidid@saved@RequirePackage
6872 \fi
6873 }
6874 \@onlypreamble\bidid@ResetPreventPackageFromLoading
6875 \newcommand*{\bidid@storePreventPackageFromLoading}[1]{%
6876 \let#1\bidid@excludedpackages
6877 }
6878 \@onlypreamble\bidid@storePreventPackageFromLoading
6879 \newcommand*{\bidid@unPreventPackageFromLoading}{%
6880 \@ifstar {\@tempswatrue\@bidid@unPreventPackageFromLoading}%
6881 {\@tempswafalse\@bidid@unPreventPackageFromLoading}%
6882 }
6883
6884 \newcommand*{\@bidid@unPreventPackageFromLoading}[1]{%
6885 \edef\reserved@b{\zap@space#1 \@empty}%
6886 \if@tempswa
6887 \@for\reserved@a=\reserved@b\do {%
6888 \ifx\reserved@a\@empty \else
6889 \ifcsname bidid@exclude@package@\reserved@a @do\endcsname
6890 \expandafter\let
6891 \csname bidid@exclude@package@\reserved@a @do\endcsname
6892 \undefined
6893 \fi
6894 \fi
6895 }%
6896 \fi
6897 \ifcsname bidid@excludedpackages\endcsname
6898 \let\reserved@a\bidid@excludedpackages
6899 \let\bidid@excludedpackages\@empty
6900 \expandafter\@for\expandafter\reserved@c
6901 \expandafter:\expandafter=\reserved@a
6902 \do{%
6903 \ifx\reserved@c\@empty\else
6904 \@expandtwoargs\in@{\,\reserved@c,}{\,\reserved@b,}%
6905 \ifin@
6906 \else
6907 \edef\bidid@excludedpackages{%
6908 \bidid@excludedpackages,\reserved@c
6909 }%
6910 \fi
6911 \fi
6912 }%
6913 \ifx\bidid@excludedpackages\@empty\bidid@ResetPreventPackageFromLoading\fi
6914 \fi
6915 }
6916
6917
6918 \newcommand*{\bidid@RequirePackage}[2][ ]{%
6919 \let\reserved@c\@empty
6920 \let\reserved@d\@empty
6921 \edef\reserved@b{\zap@space#2 \@empty}%

```





```

6922 \expandafter\@for\expandafter\reserved@b\expandafter:\expandafter=\reserved@b
6923 \do {%
6924   \begingroup
6925     \@tempswatrue
6926     \@for\reserved@a:=\bidi@excludedpackages\do {%
6927       \ifx\reserved@a\reserved@b
6928         \@tempswafalse
6929       \fi
6930     }%
6931   \if@tempswa
6932     \xdef\reserved@c{\reserved@c,\reserved@b}%
6933   \else
6934     \ifx\reserved@b\@empty\else
6935       \PackageInfo{biditools}{Excluding package `\'reserved@b\'MessageBreak
6936         from loading}%
6937       \@ifundefined{bidi@exclude@package@\reserved@b @do}{%
6938         }{%
6939           \expandafter\g@addto@macro\expandafter\reserved@d
6940           \csname bidi@exclude@package@\reserved@b @do\endcsname
6941         }%
6942       \fi
6943     \fi
6944   \endgroup
6945 }%
6946 \ifx\reserved@c\@empty
6947   \let\reserved@a\bidi@gobbleopt
6948 \else
6949   \edef\reserved@a{\noexpand\bidi@saved@RequirePackage[#1]{%
6950     \expandafter\@gobble\reserved@c\@empty}}%
6951 \fi
6952 \expandafter\reserved@d
6953 \reserved@a
6954 }
6955
6956 \newcommand{\bidi@gobbleopt}[1][{}]{%
6957 \AtEndDocument{%
6958   \let\bidi@saved@checkend=\@checkend
6959   \renewcommand*{\@checkend}[1]{%
6960     \def\reserved@a{#1}\def\reserved@b{document}%
6961     \bidi@saved@checkend{#1}%
6962     \ifx\reserved@a\reserved@b
6963       \let\bidi@saved@clearpage=\clearpage
6964       \renewcommand*{\clearpage}{\bidi@saved@clearpage
6965         \bidi@hook@bcma
6966         \bidi@restore@newpage
6967         \let\clearpage=\bidi@saved@clearpage}%
6968     \fi%
6969     \let\bidi@saved@dofilelist\@dofilelist
6970     \def\@dofilelist{%
6971       \bidi@hook@acma
6972       \let\@dofilelist\bidi@saved@dofilelist
6973       \bidi@saved@dofilelist
6974     }%
6975   }%

```



```

6976 }
6977
6978
6979 \newcommand*{\bidi@saved@checkend}{%
6980 \newcommand*{\bidi@saved@dofilelist}{%
6981 \newcommand*{\bidi@redefine@newpage}{%
6982   \let\bidi@saved@newpage\newpage
6983   \def\bidi@restore@newpage{%
6984     \renewcommand*{\newpage}{%
6985       \PackageWarningNoLine{%
6986         biditools%
6987       }{%
6988         \string\newpage\space at main aux file!\MessageBreak
6989         You have output material at the main aux file.\MessageBreak
6990         Note, that the \string\bidi@BeforeClosingMainAux\space commands\MessageBreak
6991         are processed before the output from aux file%
6992       }%
6993       \let\newpage\bidi@saved@newpage
6994       \newpage
6995     }%
6996   }%
6997   \renewcommand*{\newpage}{%
6998     \PackageError{%
6999       biditools%
7000     }{%
7001       \string\newpage\space at \string\bidi@BeforeClosingMainAux
7002     }{%
7003       You should never use \string\newpage\space or
7004       \string\clear(double)page or other output material at the\MessageBreak
7005       argument of \string\bidi@BeforeClosingMainAux!\MessageBreak
7006       If you'll continue, the \string\newpage\space will be ignored to
7007       avoid corruption of\MessageBreak
7008       every prior use of \string\bidi@BeforeClosingMainAux.
7009     }%
7010   }%
7011 }
7012
7013 \newcommand*{\bidi@restore@newpage}{%
7014 \newcommand*{\bidi@hook@bcma}{%
7015 \newcommand*{\bidi@hook@acma}{%
7016 \newcommand*{\bidi@BeforeClosingMainAux}{%
7017   \ifx\bidi@hook@bcma\@empty
7018     \gdef\bidi@hook@bcma{%
7019       \renewcommand*{\bidi@BeforeClosingMainAux}[1]{###1}%
7020       \let\protected@write\bidi@protected@immediate@write
7021       \bidi@redefine@newpage
7022     }%
7023   \fi
7024   \g@addto@macro\bidi@hook@bcma%
7025 }
7026
7027 \newcommand*{\bidi@AfterReadingMainAux}{%
7028   \ifx\bidi@hook@acma\@empty
7029     \gdef\bidi@hook@acma{%

```



```

7030     \renewcommand*{\bidi@AfterReadingMainAux}[1]{####1}%
7031     \let\protected@write\bidi@protected@immediate@write
7032   }%
7033   \fi
7034   \g@addto@macro\bidi@hook@acma%
7035 }
7036
7037 \long\def\bidi@protected@immediate@write#1#2#3{%
7038   \begingroup
7039     #2%
7040     \let\protect\@unexpandable@protect
7041     \edef\reserved@a{\immediate\write#1{#3}}%
7042     \reserved@a
7043   \endgroup
7044   \if@nobreak\ifvmode\nobreak\fi\fi
7045 }
7046
7047 \def\bidi@patch@counter{0}%
7048 \if@bidi@csundef{numexpr}{%
7049   \def\bidi@patch@stepcounter{%
7050     \begingroup
7051       \count@\bidi@patch@counter\relax
7052       \advance\count@\@ne\relax
7053     \edef\x{\endgroup
7054       \noexpand\def\noexpand\bidi@patch@counter{\the\count@}%
7055     }%
7056     \x
7057   }%
7058 }{%
7059   \def\bidi@patch@stepcounter{%
7060     \edef\bidi@patch@counter{%
7061       \the\numexpr\bidi@patch@counter+\@ne\relax
7062     }%
7063   }%
7064 }
7065 \def\bidi@patch@list{}
7066 \def\bidi@patch@Add{%
7067   \bidi@appto\bidi@patch@list
7068 }
7069 \def\bidi@patch@AfterPackage#1{%
7070   \@ifpackageloaded{#1}{%
7071     \@firstofone
7072   }{%
7073     \@bidi@patch@AfterPackage{#1}%
7074   }%
7075 }
7076 \def\@bidi@patch@AfterPackage#1{%
7077   \edef\bidi@patch@temp{#1}%
7078   \bidi@patch@stepcounter
7079   \expandafter\bidi@patch@@AfterPackage
7080   \csname @bidi@patch@\bidi@patch@counter\expandafter\endcsname{%
7081     \bidi@patch@temp
7082   }%
7083 }

```



```

7084 \def\bidipatch@@AfterPackage#1#2#3{%
7085   \begingroup
7086     \toks@{#3}%
7087     \xdef\bidipatch@gtemp{%
7088       \noexpand\@ifpackageloaded{#2}{%
7089         \noexpand\let\noexpand#1\noexpand\relax
7090         \the\toks@
7091       }{}%
7092     }%
7093   \endgroup
7094   \let#1\bidipatch@gtemp
7095   \bidipatch@Add#1%
7096   \bidipatch@try{\bidipatch@AfterPackage}{#2}#1%
7097 }
7098
7099 \def\bidipatch@try#1#2#3{%
7100   \if@bidi@csundef{#1}{}{%
7101     \csname #1\endcsname{#2}{#3}%
7102   }%
7103 }
7104
7105 \AtBeginDocument{\bidipatch@list}
7106
7107 \bidi@AtEndPreamble{\bidipatch@list}%
7108
7109 \bidi@AfterEndPreamble{%
7110   \let\bidipatch@OrgIfPackageLoaded\@ifpackageloaded
7111   \let\bidipatch@OrgIfPackageLater\@ifpackagelater
7112   \let\bidipatch@OrgIfClassLoaded\@ifclassloaded
7113   \let\bidipatch@OrgIfClassLater\@ifclasslater
7114   \bidipatch@list
7115   \let\@ifpackageloaded\bidipatch@OrgIfPackageLoaded
7116   \let\@ifpackagelater\bidipatch@OrgIfPackageLater
7117   \let\@ifclassloaded\bidipatch@OrgIfClassLoaded
7118   \let\@ifclasslater\bidipatch@OrgIfClassLater
7119 }%

```

## 53 File `bidituftefloat.sty`

```

7120 \NeedsTeXFormat{LaTeX2e}
7121 \ProvidesPackage{bidituftefloat}[2017/05/19 v0.2
7122 bidi implementation of tufte float]
7123 \RequirePackage{xifthen}
7124 \newcommand{\@bidituftefloat@pkgname}{bidituftefloat}
7125 \newcommand{\bidituftefloatError}[2]{\PackageError{\@bidituftefloat@pkgname}{#1}{#2}}
7126 \newcommand{\bidituftefloatDebugInfoNL}[1]{\ifthenelse{\boolean{@bidituftefloat@debug}}{\bid
7127 \newcommand{\bidituftefloatInfoNL}[1]{\PackageInfo{\@bidituftefloat@pkgname}{#1\@gobble}}
7128 \newboolean{@bidituftefloat@reversegeometry}
7129 \setboolean{@bidituftefloat@reversegeometry}{false}
7130 \DeclareOption{reversegeometry}{\setboolean{@bidituftefloat@reversegeometry}{true}}
7131 \newboolean{@bidituftefloat@afourpaper}
7132 \DeclareOption{a4paper}{\setboolean{@bidituftefloat@afourpaper}{true}}
7133 \newboolean{@bidituftefloat@bfivepaper}
7134 \DeclareOption{b5paper}{\setboolean{@bidituftefloat@bfivepaper}{true}}

```



```

7135 \newboolean{@bidituftefloat@symmetric}
7136 \newboolean{@bidituftefloat@twoside}
7137 \DeclareOption{twoside}{%
7138 \@twoside>true \mparswitchtrue%
7139 \setboolean{@bidituftefloat@twoside}{true}%
7140 \setboolean{@bidituftefloat@symmetric}{true}%
7141 }
7142 \DeclareOption{oneside}{%
7143 \@twoside>false \mparswitchfalse%
7144 \setboolean{@bidituftefloat@twoside}{false}%
7145 \setboolean{@bidituftefloat@symmetric}{false}%
7146 }
7147 \ifclassloaded{book}{\ExecuteOptions{twoside}}{}
7148 \newboolean{@bidituftefloat@debug}
7149 \newcommand*{\@bidituftefloat@caption@justification}{\@bidituftefloat@justification@autodetect}
7150 \ProcessOptions
7151 %% Globally sets the length
7152 \newcommand*{\gsetlength}[2]{%
7153 \setlength{#1}{#2}%
7154 \global#1=#1\relax%
7155 }
7156
7157 %% Set the font sizes and baselines to match bidituftefloat's books
7158 \renewcommand\normalsize{%
7159 \setfontsize\normalsize\@xpt{14}%
7160 \abovedisplayskip 10\p@ \@plus2\p@ \@minus5\p@
7161 \abovedisplayshortskip \z@ \@plus3\p@
7162 \belowdisplayshortskip 6\p@ \@plus3\p@ \@minus3\p@
7163 \belowdisplayskip \abovedisplayskip
7164 \let\@listi\@listI}
7165 \normalbaselineskip=14pt
7166 \normalsize
7167 \renewcommand\footnotesize{%
7168 \setfontsize\footnotesize\@viipt{10}%
7169 \abovedisplayskip 6\p@ \@plus2\p@ \@minus4\p@
7170 \abovedisplayshortskip \z@ \@plus\p@
7171 \belowdisplayshortskip 3\p@ \@plus\p@ \@minus2\p@
7172 \def\@listi{\leftmargin\leftmarginI
7173 \topsep 3\p@ \@plus\p@ \@minus\p@
7174 \parsep 2\p@ \@plus\p@ \@minus\p@
7175 \itemsep \parsep}%
7176 \belowdisplayskip \abovedisplayskip
7177 }
7178 %% Paragraph indentation and separation for marginal text
7179 \newcommand{\@bidituftefloat@margin@par}{%
7180 \setlength{\RaggedRightParindent}{0.5pc}%
7181 \setlength{\JustifyingParindent}{0.5pc}%
7182 \setlength{\parindent}{0.5pc}%
7183 \setlength{\parskip}{0pt}%
7184 }
7185 \RequirePackage{ragged2e}
7186 \ifthenelse{\boolean{@bidituftefloat@reversegeometry}}{%
7187 \RequirePackage[letterpaper,right=1in,top=1in,headsep=2\baselineskip,textwidth=26pc,marginpaper]{geometry}
7188 \ifthenelse{\boolean{@bidituftefloat@a4paper}}{

```



```

7189 {\geometry{a4paper,right=24.8mm,top=27.4mm,headsep=2\baselineskip,textwidth=107mm,marginpar
7190 {}
7191 \ifthenelse{\boolean{@biditytfloat@bfivepaper}}
7192 {\geometry{paperwidth=176mm,paperheight=250mm,right=14.66mm,top=13.88mm,textwidth=102.66mm
7193 {}}%
7194 \RequirePackage[letterpaper,left=1in,top=1in,headsep=2\baselineskip,textwidth=26pc,marginpar
7195 \ifthenelse{\boolean{@biditytfloat@afourpaper}}
7196 {\geometry{a4paper,left=24.8mm,top=27.4mm,headsep=2\baselineskip,textwidth=107mm,marginpar
7197 {}
7198 \ifthenelse{\boolean{@biditytfloat@bfivepaper}}
7199 {\geometry{paperwidth=176mm,paperheight=250mm,left=14.66mm,top=13.88mm,textwidth=102.66mm,
7200 {}
7201 \ifthenelse{\boolean{@biditytfloat@symmetric}}
7202 {}
7203 {\geometry{asymmetric}}}% forces internal LaTeX `twoside'
7204 \setlength\marginparpush{10pt}
7205 %% Font for margin items
7206 \newcommand{\@biditytfloat@marginfont}{\normalfont\footnotesize}
7207 \newcommand*{\@biditytfloat@caption@font}{\@biditytfloat@marginfont}
7208 \newcommand*{\setcaptionfont}[1]{\renewcommand*{\@biditytfloat@caption@font}{#1}}
7209 \newcommand{\@biditytfloat@justification}{\justifying}%
7210 \setlength\abovedisplayskip{6pt plus 2pt minus 4pt}
7211 \setlength\belowdisplayskip{6pt plus 2pt minus 4pt}
7212 \newboolean{@biditytfloat@changepage}
7213 \IfFileExists{changepage.sty}{%
7214 \biditytfloatDebugInfoNL{Found changepage.sty}
7215 \RequirePackage[strict]{changepage}
7216 \setboolean{@biditytfloat@changepage}{true}
7217 }{%
7218 \biditytfloatDebugInfoNL{Found chngpage.sty}
7219 \RequirePackage[strict]{chngpage}
7220 \setboolean{@biditytfloat@changepage}{false}
7221 }
7222 \newboolean{@biditytfloat@odd@page}
7223 \setboolean{@biditytfloat@odd@page}{true}
7224 \newcommand*{\@biditytfloat@checkoddpage}{%
7225 \checkoddpage%
7226 \ifthenelse{\boolean{@biditytfloat@changepage}}{%
7227 \ifoddpage%
7228 \setboolean{@biditytfloat@odd@page}{true}%
7229 \else%
7230 \setboolean{@biditytfloat@odd@page}{false}%
7231 \fi%
7232 }{%
7233 \ifcpoddpage%
7234 \setboolean{@biditytfloat@odd@page}{true}%
7235 \else%
7236 \setboolean{@biditytfloat@odd@page}{false}%
7237 \fi%
7238 }%
7239 }
7240 \newlength{\@biditytfloat@overhang}% used by the fullwidth environment and the running head
7241 \newlength{\@biditytfloat@fullwidth}
7242 \newlength{\@biditytfloat@caption@fill}

```



```

7243 \newcommand{\biditytfloatRecalculate}{%
7244   \setlength{\@biditytfloat@overhang}{\marginparwidth}
7245   \addtolength{\@biditytfloat@overhang}{\marginparsep}
7246
7247   \setlength{\@biditytfloat@fullwidth}{\textwidth}
7248   \addtolength{\@biditytfloat@fullwidth}{\marginparsep}
7249   \addtolength{\@biditytfloat@fullwidth}{\marginparwidth}
7250
7251   \setlength{\@biditytfloat@caption@fill}{\textwidth}
7252   \addtolength{\@biditytfloat@caption@fill}{\marginparsep}
7253 }
7254 \AtBeginDocument{\biditytfloatRecalculate}
7255 \RequirePackage{optparams}% provides multiple optional arguments for commands
7256 \RequirePackage{placeins}
7257 \newsavebox{\@biditytfloat@margin@floatbox}
7258 \newenvironment{@biditytfloat@margin@float}[2][-1.2ex]%
7259 {\FloatBarrier% process all floats before this point so the figure/table numbers stay in o
7260 \begin{lrbox}{\@biditytfloat@margin@floatbox}%
7261 \begin{minipage}{\marginparwidth}%
7262   \@biditytfloat@caption@font%
7263   \def\@capttype{#2}%
7264   \hbox{\vspace*{#1}%
7265     \@biditytfloat@caption@justification%
7266     \@biditytfloat@margin@par%
7267     \noindent%
7268   }
7269   \end{minipage}%
7270 \end{lrbox}%
7271 \marginpar{\usebox{\@biditytfloat@margin@floatbox}}%
7272 }
7273 \newenvironment{marginfigure}[1][-1.2ex]%
7274 {\begin{@biditytfloat@margin@float}[#1]{figure}}
7275 {\end{@biditytfloat@margin@float}}
7276 \newenvironment{margintable}[1][-1.2ex]%
7277 {\begin{@biditytfloat@margin@float}[#1]{table}}
7278 {\end{@biditytfloat@margin@float}}
7279 \newcommand*{@biditytfloat@justification@autodetect}{\justifying}%
7280
7281 \newcommand{\@biditytfloat@float@debug@info}{}% contains debug info generated as the float
7282 \newcommand{\@biditytfloat@float@debug}[1]{% adds debug info to the queue for output
7283   \ifthenelse{\equal{\@biditytfloat@float@debug@info}{}}{%
7284     {\def\@biditytfloat@float@debug@info{#1}}%
7285     {\gaddto@macro{\@biditytfloat@float@debug@info{\MessageBreak#1}}%
7286   }
7287 \newcommand{\floatalignment}{x}% holds the current float alignment (t, b, h, p)
7288 \newcommand{\setfloatalignment}[1]{\global\def\floatalignment{#1}\@biditytfloat@float@debug
7289 \newboolean{@biditytfloat@float@recto}
7290 \newcommand{\forcerectofloat}{\GlobalSetBoolean{@biditytfloat@float@recto}{true}\@bidityt
7291 \newcommand{\forceversofloat}{\GlobalSetBoolean{@biditytfloat@float@recto}{false}\@bidityt
7292 \newsavebox{\@biditytfloat@figure@box}
7293 \newsavebox{\@biditytfloat@caption@box}
7294 \let\@biditytfloat@orig@float\@float
7295 \let\@biditytfloat@orig@endfloat\endfloat
7296 \newlength{\@biditytfloat@caption@vertical@offset}

```



```

7297 \setlength{\@biditytfloat@caption@vertical@offset}{0pt}
7298 \newcommand{\@biditytfloat@stored@shortcaption}{}
7299 \newcommand{\@biditytfloat@stored@caption}{}
7300 \newcommand{\@biditytfloat@stored@label}{}
7301 \long\def\@biditytfloat@caption[#1][#2]#3{%
7302   \ifthenelse{\isempty{#1}}%
7303     {\gdef\@biditytfloat@stored@shortcaption{#3}}%
7304     {\gdef\@biditytfloat@stored@shortcaption{#1}}%
7305   \gsetlength{\@biditytfloat@caption@vertical@offset}{-#2}% we want a positive offset to 1
7306   \gdef\@biditytfloat@stored@caption{#3}%
7307 }
7308 \newcommand{\@biditytfloat@label}[1]{%
7309   \gdef\@biditytfloat@stored@label{#1}%
7310 }
7311 \newcommand{\@biditytfloat@fps}{}
7312 \newboolean{\@biditytfloat@float@star}
7313 \newlength{\@biditytfloat@float@contents@width}
7314 \newenvironment{\@biditytfloat@float}[3][htbp]%
7315   {% begin \@biditytfloat@float
7316     % Should this float be full-width or just text-width?
7317     \ifthenelse{\equal{#3}{star}}%
7318       {\GlobalSetBoolean{\@biditytfloat@float@star}{true}}%
7319       {\GlobalSetBoolean{\@biditytfloat@float@star}{false}}%
7320     % Check page side (recto/verso) and store detected value -- can be overridden in environm
7321     \@biditytfloat@checkoddpage%
7322     \ifthenelse{\boolean{\@biditytfloat@odd@page}}%
7323       {\GlobalSetBoolean{\@biditytfloat@float@recto}{true}}\@biditytfloat@float@debug{Dete
7324       {\GlobalSetBoolean{\@biditytfloat@float@recto}{false}}\@biditytfloat@float@debug{Det
7325     % If the float placement specifier is 'b' and only 'b', then bottom-align the mini-pages
7326     \renewcommand{\@biditytfloat@fps}{#1}%
7327     \@biditytfloat@float@debug{Allowed positions: [ #1 ]}%
7328     \ifthenelse{\equal{#1}{b}\OR\equal{#1}{B}}%
7329       {\renewcommand{\floatalignment}{b}\@biditytfloat@float@debug{Presumed position: [bot
7330       {\renewcommand{\floatalignment}{t}\@biditytfloat@float@debug{Presumed position: [top
7331     % Capture the contents of the \caption and \label commands to use later
7332     \global\let\@biditytfloat@orig@caption\caption%
7333     \global\let\@biditytfloat@orig@label\label%
7334     \renewcommand{\caption}{\optparams{\@biditytfloat@caption}{[ ] [Opt]}}%
7335     \renewcommand{\label}[1]{\@biditytfloat@label{##1}}%
7336     % Handle subfigure package compatibility
7337     \ifthenelse{\boolean{\@biditytfloat@packages@subfigure}}{%
7338       \bidi@patchcmd{\subfigure}{%
7339         \let\subfig@oldlabel=\label
7340       }{%
7341         \let\subfig@oldlabel=\@biditytfloat@orig@label
7342       }
7343     }
7344     {}
7345     \let\subtable=\subfigure
7346   }{% subfigure package is not loaded
7347     \@biditytfloat@orig@float{#2}[#1]%
7348     \ifthenelse{\boolean{\@biditytfloat@float@star}}%
7349       {\setlength{\@biditytfloat@float@contents@width}{\@biditytfloat@fullwidth}}%
7350       {\setlength{\@biditytfloat@float@contents@width}{\textwidth}}%

```





```

7351 \begin{lrbox}{\@bittuftefloat@figure@box}%
7352 \begin{minipage}[\floatalignment]{\@bittuftefloat@float@contents@width}\hbox{%
7353 }{% end @bittuftefloat@float
7354 \par\hbox{}\vspace{-\baselineskip}\ifthenelse{\prevdepth>0}{\vspace{-\prevdepth}}{}% a
7355 \end{minipage}%
7356 \end{lrbox}%
7357 % build the caption box
7358 \begin{lrbox}{\@bittuftefloat@caption@box}%
7359 \begin{minipage}[\floatalignment]{\marginparwidth}\hbox{%
7360 \ifthenelse{\NOT\equal{\@bittuftefloat@stored@caption}}{\@bittuftefloat@orig@cap
7361 \ifthenelse{\NOT\equal{\@bittuftefloat@stored@label}}{\@bittuftefloat@orig@label
7362 \par\vspace{-\prevdepth}}% TODO: DOUBLE-CHECK FOR SAFETY
7363 \end{minipage}%
7364 \end{lrbox}%
7365 % now typeset the stored boxes
7366 \begin{fullwidth}%
7367 \begin{minipage}[\floatalignment]{\linewidth}%
7368 \ifthenelse{\boolean{@bittuftefloat@float@star}}%
7369 {\@bittuftefloat@float@fullwidth[\@bittuftefloat@caption@vertical@offset]{\@bidi
7370 {\@bittuftefloat@float@textwidth[\@bittuftefloat@caption@vertical@offset]{\@bidi
7371 \end{minipage}%
7372 \end{fullwidth}%
7373 \@bittuftefloat@orig@endfloat% end original LaTeX float environment
7374 % output debug info
7375 \ifthenelse{\boolean{@bittuftefloat@debug}}{%
7376 \typeout{^^J^^J----- bittuftefloat package float information -----}%
7377 \ifthenelse{\equal{\@bittuftefloat@stored@label}}{}%
7378 {\typeout{Warning: Float unlabeled!}}%
7379 {\typeout{Float label: [\@bittuftefloat@stored@label]}}%
7380 \typeout{Page number: [\thepage]}%
7381 \def\MessageBreak{^^J}%
7382 \typeout{\@bittuftefloat@float@debug@info}%
7383 \ifthenelse{\boolean{@bittuftefloat@symmetric}}%
7384 {\typeout{Symmetric: [true]}}%
7385 {\typeout{Symmetric: [false]}}%
7386 \typeout{-----^^J^^J}%
7387 }{}%
7388 % reset commands and temp boxes and captions
7389 \gdef\@bittuftefloat@float@debug@info{}%
7390 \let\caption\@bittuftefloat@orig@caption%
7391 \let\label\@bittuftefloat@orig@label%
7392 \begin{lrbox}{\@bittuftefloat@figure@box}\hbox{}\end{lrbox}%
7393 \begin{lrbox}{\@bittuftefloat@caption@box}\hbox{}\end{lrbox}%
7394 \gdef\@bittuftefloat@stored@shortcaption{}%
7395 \gdef\@bittuftefloat@stored@caption{}%
7396 \gdef\@bittuftefloat@stored@label{}%
7397 \gsetlength{\@bittuftefloat@caption@vertical@offset}{0pt}% reset caption offset
7398 }
7399 \newcommand{\@bittuftefloat@float@textwidth}[3][Opt]{%
7400 \ifthenelse{\NOT\boolean{@bittuftefloat@symmetric}}\OR\boolean{@bittuftefloat@float@recto
7401 % asymmetric or page is odd, so caption is on the right
7402 \hbox{%
7403 \usebox{#2}%
7404 \hspace{\marginparsep}%

```



```

7405     \smash{\raisebox{#1}{\usebox{#3}}}%
7406   }
7407   \@bituftefloat@float@debug{Caption position: [right]]}%
7408 }{% symmetric pages and page is even, so caption is on the left
7409   \hbox{%
7410     \smash{\raisebox{#1}{\usebox{#3}}}%
7411     \hspace{\marginparsep}%
7412     \usebox{#2}%
7413   }
7414   \@bituftefloat@float@debug{Caption position: [left]]}%
7415 }%
7416 }
7417 \newcommand{\@bituftefloat@float@fullwidth}[3][Opt]{%
7418   \ifthenelse{\equal{\floatalignment}{b}}{%
7419     {% place caption above figure
7420       \ifthenelse{\NOT\boolean{@bituftefloat@symmetric}}\OR\boolean{@bituftefloat@float@cr}
7421       {\hfill\smash{\raisebox{#1}{\usebox{#3}}}\par\usebox{#2}\@bituftefloat@float@debug}
7422       {\smash{\raisebox{#1}{\usebox{#3}}}\hfill\par\usebox{#2}\@bituftefloat@float@debug}
7423     }{% place caption below figure
7424       \ifthenelse{\NOT\boolean{@bituftefloat@symmetric}}\OR\boolean{@bituftefloat@float@cr}
7425       {\usebox{#2}\par\hfill\smash{\raisebox{#1}{\usebox{#3}}}\@bituftefloat@float@debug}
7426       {\usebox{#2}\par\smash{\raisebox{#1}{\usebox{#3}}}\hfill\@bituftefloat@float@debug}
7427     }%
7428 }
7429 \renewenvironment{figure}[1][htbp]%
7430   {\ifvmode\else\unskip\fi\begin{@bituftefloat@float}[#1]{figure}{}}
7431   {\end{@bituftefloat@float}}
7432 \renewenvironment{table}[1][htbp]
7433   {\ifvmode\else\unskip\fi\begin{@bituftefloat@float}[#1]{table}{}}
7434   {\end{@bituftefloat@float}}
7435 \renewenvironment{figure*}[1][htbp]%
7436   {\ifvmode\else\unskip\fi\begin{@bituftefloat@float}[#1]{figure}{star}}
7437   {\end{@bituftefloat@float}}
7438 \renewenvironment{table*}[1][htbp]%
7439   {\ifvmode\else\unskip\fi\begin{@bituftefloat@float}[#1]{table}{star}}
7440   {\end{@bituftefloat@float}}
7441 \newenvironment{fullwidth}
7442   {\ifthenelse{\boolean{@bituftefloat@symmetric}}%
7443     {\ifthenelse{\boolean{@bituftefloat@changepage}}{\begin{adjustwidth*}}{-\@bituftefloat@float@overhang}}%
7444     {\begin{adjustwidth}}{-\@bituftefloat@overhang}}%
7445   }%
7446   {\ifthenelse{\boolean{@bituftefloat@symmetric}}%
7447     {\ifthenelse{\boolean{@bituftefloat@changepage}}{\end{adjustwidth*}}{\end{adjustwidth}}}%
7448     {\end{adjustwidth}}}%
7449   }
7450 \long\def\@caption#1[#2]#3{%
7451   \par%
7452   \addcontentsline{\csname ext@#1\endcsname}{#1}%
7453     {\protect\numberline{\csname the#1\endcsname}{\ignorespaces #2}}%
7454   \begingroup%
7455     \@parboxrestore%
7456     \if@minipage%
7457       \@setminipage%
7458     \fi%

```



```

7459 \@biditytfloat@caption@font\@biditytfloat@caption@justification%
7460 \noindent\csname fnum@#1\endcsname: \ignorespaces#3\par%
7461 %\@makecaption{\csname fnum@#1\endcsname}{\ignorespaces #3}\par
7462 \endgroup}
7463 %%
7464 % Turns newlines into spaces. Based on code from the 'titlesec' package.
7465 \DeclareRobustCommand{\@biditytfloat@newlinetospace}{%
7466 \ifstar{\@biditytfloat@newlinetospace@i}{\@biditytfloat@newlinetospace@i}%
7467 }
7468 \def\@biditytfloat@newlinetospace@i{%
7469 \ifdim\lastskip>\z@\else\space\fi
7470 \ignorespaces%
7471 }
7472 \DeclareRobustCommand{\newlinetospace}[1]{%
7473 \let\@biditytfloat@orig@cr\\% save the original meaning of \\
7474 \def\\{\@biditytfloat@newlinetospace}% turn \\ and \* into \space
7475 \let\newline\\% turn \newline into \space
7476 #1%
7477 \let\\ \@biditytfloat@orig@cr% revert to original meaning of \\
7478 }
7479 \RequirePackage{fancyhdr}
7480 \pagestyle{fancy}
7481 \AtBeginDocument{%
7482 \ifthenelse{\boolean{@biditytfloat@symmetric}}{
7483 {\fancyhfoffset[LE,RO]{\@biditytfloat@overhang}}{
7484 {\fancyhfoffset[RE,RO]{\@biditytfloat@overhang}}
7485 }
7486 % The running heads/feet don't have rules
7487 \renewcommand{\headrulewidth}{0pt}
7488 \renewcommand{\footrulewidth}{0pt}
7489 % The 'fancy' page style is the default style for all pages.
7490 \fancyhf{} % clear header and footer fields
7491 \ifthenelse{\boolean{@biditytfloat@symmetric}}{
7492 {\fancyhead[LE]{\thepage\quad\textsl{\newlinetospace{\plainauthor}}}%
7493 \fancyhead[RO]{\textsl{\newlinetospace{\plaintitle}}\quad\thepage}}%
7494 {\fancyhead[RE,RO]{\textsl{\newlinetospace{\plaintitle}}\quad\thepage}}%
7495 % The 'plain' page style is used on chapter opening pages.
7496 % In Tufte's /Beautiful Evidence/ he never puts page numbers at the
7497 % bottom of pages -- the folios are unexpressed.
7498 \fancypagestyle{plain}{
7499 \fancyhf{} % clear header and footer fields
7500 % Uncomment the following five lines of code if you want the opening page
7501 % of the chapter to express the folio in the lower outside corner.
7502 % \ifthenelse{\boolean{@biditytfloat@symmetric}}{
7503 % {\fancyfoot[LE,RO]{\thepage}}
7504 % {\fancyfoot[RE,RO]{\thepage}}
7505 }
7506 % The 'empty' page style suppresses all headers and footers.
7507 % It's used on title pages and 'intentionally blank' pages.
7508 \fancypagestyle{empty}{
7509 \fancyhf{} % clear header and footer fields
7510 }
7511 \def\morefloats{% provides a total of 52 floats
7512 \ifthenelse{\isundefined{\bx@S}}{%

```



```

7513 \bidituftefloatDebugInfoNL{Adding 34 more float slots.}
7514 \newinsert\bx@S
7515 \newinsert\bx@T
7516 \newinsert\bx@U
7517 \newinsert\bx@V
7518 \newinsert\bx@W
7519 \newinsert\bx@X
7520 \newinsert\bx@Y
7521 \newinsert\bx@Z
7522 \newinsert\bx@a
7523 \newinsert\bx@b
7524 \newinsert\bx@c
7525 \newinsert\bx@d
7526 \newinsert\bx@e
7527 \newinsert\bx@f
7528 \newinsert\bx@g
7529 \newinsert\bx@h
7530 \newinsert\bx@i
7531 \newinsert\bx@j
7532 \newinsert\bx@k
7533 \newinsert\bx@l
7534 \newinsert\bx@m
7535 \newinsert\bx@n
7536 \newinsert\bx@o
7537 \newinsert\bx@p
7538 \newinsert\bx@q
7539 \newinsert\bx@r
7540 \newinsert\bx@s
7541 \newinsert\bx@t
7542 \newinsert\bx@u
7543 \newinsert\bx@v
7544 \newinsert\bx@w
7545 \newinsert\bx@x
7546 \newinsert\bx@y
7547 \newinsert\bx@z
7548 \gdef\@freelist{\@elt\bx@A\@elt\bx@B\@elt\bx@C\@elt\bx@D\@elt\bx@E
7549 \@elt\bx@F\@elt\bx@G\@elt\bx@H\@elt\bx@I\@elt\bx@J
7550 \@elt\bx@K\@elt\bx@L\@elt\bx@M\@elt\bx@N
7551 \@elt\bx@O\@elt\bx@P\@elt\bx@Q\@elt\bx@R
7552 \@elt\bx@S\@elt\bx@T\@elt\bx@U\@elt\bx@V
7553 \@elt\bx@W\@elt\bx@X\@elt\bx@Y\@elt\bx@Z
7554 \@elt\bx@a\@elt\bx@b\@elt\bx@c\@elt\bx@d\@elt\bx@e
7555 \@elt\bx@f\@elt\bx@g\@elt\bx@h\@elt\bx@i\@elt\bx@j
7556 \@elt\bx@k\@elt\bx@l\@elt\bx@m\@elt\bx@n
7557 \@elt\bx@o\@elt\bx@p\@elt\bx@q\@elt\bx@r
7558 \@elt\bx@s\@elt\bx@t\@elt\bx@u\@elt\bx@v
7559 \@elt\bx@w\@elt\bx@x\@elt\bx@y\@elt\bx@z}%
7560 }{% we've already added another 34 floats, so we'll add 26 more, but that's it!
7561 \ifthenelse{\isundefined{\bx@AA}}{%
7562 \bidituftefloatDebugInfoNL{Adding 26 more float slots.}
7563 \newinsert\bx@AA
7564 \newinsert\bx@BB
7565 \newinsert\bx@CC
7566 \newinsert\bx@DD

```



```

7567 \newinsert\bx@EE
7568 \newinsert\bx@FF
7569 \newinsert\bx@GG
7570 \newinsert\bx@HH
7571 \newinsert\bx@II
7572 \newinsert\bx@JJ
7573 \newinsert\bx@KK
7574 \newinsert\bx@LL
7575 \newinsert\bx@MM
7576 \newinsert\bx@NN
7577 \newinsert\bx@OO
7578 \newinsert\bx@PP
7579 \newinsert\bx@QQ
7580 \newinsert\bx@RR
7581 \newinsert\bx@SS
7582 \newinsert\bx@TT
7583 \newinsert\bx@UU
7584 \newinsert\bx@VV
7585 \newinsert\bx@WW
7586 \newinsert\bx@XX
7587 \newinsert\bx@YY
7588 \newinsert\bx@ZZ
7589 \gdef\@freelist{\@elt\bx@A\@elt\bx@B\@elt\bx@C\@elt\bx@D\@elt\bx@E
7590 \@elt\bx@F\@elt\bx@G\@elt\bx@H\@elt\bx@I\@elt\bx@J
7591 \@elt\bx@K\@elt\bx@L\@elt\bx@M\@elt\bx@N
7592 \@elt\bx@O\@elt\bx@P\@elt\bx@Q\@elt\bx@R
7593 \@elt\bx@S\@elt\bx@T\@elt\bx@U\@elt\bx@V
7594 \@elt\bx@W\@elt\bx@X\@elt\bx@Y\@elt\bx@Z
7595 \@elt\bx@a\@elt\bx@b\@elt\bx@c\@elt\bx@d\@elt\bx@e
7596 \@elt\bx@f\@elt\bx@g\@elt\bx@h\@elt\bx@i\@elt\bx@j
7597 \@elt\bx@k\@elt\bx@l\@elt\bx@m\@elt\bx@n
7598 \@elt\bx@o\@elt\bx@p\@elt\bx@q\@elt\bx@r
7599 \@elt\bx@s\@elt\bx@t\@elt\bx@u\@elt\bx@v
7600 \@elt\bx@w\@elt\bx@x\@elt\bx@y\@elt\bx@z
7601 \@elt\bx@AA\@elt\bx@BB\@elt\bx@CC\@elt\bx@DD\@elt\bx@EE
7602 \@elt\bx@FF\@elt\bx@GG\@elt\bx@HH\@elt\bx@II\@elt\bx@JJ
7603 \@elt\bx@KK\@elt\bx@LL\@elt\bx@MM\@elt\bx@NN
7604 \@elt\bx@OO\@elt\bx@PP\@elt\bx@QQ\@elt\bx@RR
7605 \@elt\bx@SS\@elt\bx@TT\@elt\bx@UU\@elt\bx@VV
7606 \@elt\bx@WW\@elt\bx@XX\@elt\bx@YY\@elt\bx@ZZ}%
7607 }{%
7608 \biditytfloatError{You may only call \string\morefloats\space twice. See the\Message
7609 {There are already 78 float slots allocated. Try using \string\FloatBarrier\space on
7610 }%
7611 }%
7612 }
7613 \newboolean{@biditytfloat@packages@subfigure}
7614 \setboolean{@biditytfloat@packages@subfigure}{false}
7615 \AtBeginDocument{%
7616 \ifpackageloaded{subfigure}
7617 {\GlobalSetBoolean{@biditytfloat@packages@subfigure}{true}}
7618 {\GlobalSetBoolean{@biditytfloat@packages@subfigure}{false}}%
7619 }
7620 \AtBeginDocument{%

```



```

7621 \@ifpackageloaded{float}{%
7622   % Save the redefined float environment (instead of the LaTeX float environment)
7623   \let\@biditytfloat@orig@float\@float
7624   \let\@biditytfloat@orig@endfloat\endfloat
7625
7626   % Define Tufte float styles (with the caption in the margin)
7627   \newcommand{\floatc@biditytfloatplain}[2]{%
7628     \begin{lrbox}{\@biditytfloat@caption@box}%
7629     \begin{minipage}[\floatalignment]{\marginparwidth}\hbox{%
7630       \@biditytfloat@caption@font{\@fs@cfont #1:} #2\par%
7631     }\end{minipage}%
7632     \end{lrbox}%
7633     \smash{\hspace{\@biditytfloat@caption@fill}}\usebox{\@biditytfloat@caption@box}}%
7634   }
7635   \newcommand{\fs@biditytfloatplain}{%
7636     \def\@fs@cfont{\@biditytfloat@caption@font}%
7637     \let\@fs@capt\floatc@biditytfloatplain%
7638     \def\@fs@pre{}%
7639     \def\@fs@post{}%
7640     \def\@fs@mid{}%
7641     \let\@fs@iftopcapt\iftrue%
7642   }
7643   \let\fs@biditytfloatplaintop=\fs@biditytfloatplain
7644   \let\floatc@biditytfloatplaintop=\floatc@biditytfloatplain
7645   \newcommand\floatc@biditytfloattruled[2]{%
7646     {\@fs@cfont #1} #2\par%
7647   }
7648   \newcommand\fs@biditytfloattruled{%
7649     \def\@fs@cfont{\@biditytfloat@caption@font}%
7650     \let\@fs@capt\floatc@biditytfloatplain%
7651     \def\@fs@pre{\hrule height.8pt depth0pt width\textwidth \kern2pt}%
7652     \def\@fs@post{\kern2pt\hrule width\textwidth\relax}%
7653     \def\@fs@mid{}%
7654     \let\@fs@iftopcapt\iftrue%
7655   }
7656   \newcommand\fs@biditytfloatboxed{%
7657     \def\@fs@cfont{}%
7658     \let\@fs@capt\floatc@biditytfloatplain%
7659     \def\@fs@pre{%
7660       \setbox\@currbox\vbox{\hbadness10000
7661       \moveleft3.4pt\vbox{\advance\hsize by6.8pt
7662       \hrule \hbox to\hsize{\vrule\kern3pt
7663       \vbox{\kern3pt\box\@currbox\kern3pt}\kern3pt\vrule}\hrule}}
7664     }%
7665     \def\@fs@mid{\kern2pt}%
7666     \def\@fs@post{}%
7667     \let\@fs@iftopcapt\iftrue%
7668   }
7669 }{%
7670   % Nothing to do
7671 }
7672 }
7673 \AtBeginDocument{%
7674   \@ifpackageloaded{algorithm}{%

```



```

7675 % Set the float style to the Tufatian version
7676 \ifthenelse{\equal{\ALG@floatstyle}{plain}}\OR\equal{\ALG@floatstyle}{ruled}\OR\equal{\AL
7677 \bidituftefloatInfoNL{Switching algorithm float style from \ALG@floatstyle\MessageBrea
7678 \floatstyle{\bidituftefloat\ALG@floatstyle}%
7679 \restylefloat{algorithm}%
7680 }{}%
7681 }{%
7682 % Nothing to do
7683 }
7684 }
7685 \PassOptionsToPackage{caption=false}{subfig}

```

## 54 File `bidituftesidenote.sty`

```

7686 \NeedsTeXFormat{LaTeX2e}
7687 \ProvidesPackage{bidituftesidenote}[2017/08/09 v0.4
7688 bidi implementation of tufte sidenote]
7689 \RequirePackage{xifthen}
7690 \RequirePackage{ragged2e}
7691 \RequirePackage{setspace}
7692 \RequirePackage{biditools}
7693 \def\bidituftesidenotemarginpar{%
7694 \ifhmode
7695 \@bsphack
7696 \@floatpenalty -\@Mii
7697 \else
7698 \@floatpenalty -\@Miii
7699 \fi
7700 \ifinner
7701 \@parmoderr
7702 \@floatpenalty\z@
7703 \else
7704 \@next\@currbox\@freelist{}{}%
7705 \@next\@marbox\@freelist{\global\count\@marbox\m@ne}%
7706 {\@floatpenalty\z@
7707 \fltovf\def\@currbox{\@tempboxa}\def\@marbox{\@tempboxa}}%
7708 \fi
7709 \ifnextchar [\@bidituftesidenotexmpar\@bidituftesidenoteympar}
7710 \long\def\@bidituftesidenotexmpar[#1]#2{%
7711 \@bidituftesidenotesavemarbox\@marbox{#1}%
7712 \@bidituftesidenotesavemarbox\@currbox{#2}%
7713 \@xympar}
7714 \long\def\@bidituftesidenoteympar#1{%
7715 \@bidituftesidenotesavemarbox\@marbox{#1}%
7716 \global\setbox\@currbox\copy\@marbox
7717 \@xympar}
7718 \long\def \@bidituftesidenotesavemarbox #1#2{%
7719 \global\setbox #1%
7720 \color@vbox
7721 \vtop{%
7722 \hsize\marginparwidth
7723 \@parboxrestore
7724 \@bidituftesidenotemarginparreset
7725 #2%

```



```

7726         \@minipagefalse
7727         \outer@nobreak
7728     }%
7729     \color@endbox
7730 }
7731 \def \@bidityftesidenotemarginparreset {%
7732     \reset@font
7733     \normalsize
7734     \@minipagetrue
7735     \everypar{\@minipagefalse\everypar{}}\if@RTL@footnote\beginR\else\beginL\fi}%
7736 }
7737 \def\LTRbidityftesidenotemarginpar{%
7738     \ifhmode
7739         \@bsphack
7740         \@floatpenalty -\@Mii
7741     \else
7742         \@floatpenalty-\@Miii
7743     \fi
7744     \ifinner
7745         \@parmoderr
7746         \@floatpenalty\z@
7747     \else
7748         \@next\@currbox\@freelist{}\}%
7749         \@next\@marbox\@freelist{\global\count\@marbox\m@ne}%
7750         {\@floatpenalty\z@
7751         \@fltovf\def\@currbox{\@tempboxa}\def\@marbox{\@tempboxa}}}%
7752     \fi
7753     \ifnextchar [\@LTRbidityftesidenotexmpar\@LTRbidityftesidenoteympar}
7754 \long\def\@LTRbidityftesidenotexmpar[#1]#2{%
7755     \@LTRbidityftesidenotesavemarbox\@marbox{#1}%
7756     \@LTRbidityftesidenotesavemarbox\@currbox{#2}%
7757     \@xympar}
7758 \long\def\@LTRbidityftesidenoteympar#1{%
7759     \@LTRbidityftesidenotesavemarbox\@marbox{#1}%
7760     \global\setbox\@currbox\copy\@marbox
7761     \@xympar}
7762 \long\def \@LTRbidityftesidenotesavemarbox #1#2{%
7763     \global\setbox #1%
7764         \color@vbox
7765         \vtop{%
7766             \hsize\marginparwidth
7767             \@parboxrestore
7768             \@LTRbidityftesidenotemarginparreset
7769             #2%
7770             \@minipagefalse
7771             \outer@nobreak
7772         }%
7773     \color@endbox
7774 }
7775 \def \@LTRbidityftesidenotemarginparreset {%
7776     \reset@font
7777     \normalsize
7778     \@minipagetrue
7779     \everypar{\@minipagefalse\everypar{}}\beginL}%

```





```

7780 }
7781 \def\RTLbidityftesidenotemarginpar{%
7782   \ifhmode
7783     \@bsphack
7784     \@floatpenalty -\@Mii
7785   \else
7786     \@floatpenalty-\@Miii
7787   \fi
7788   \ifinner
7789     \@parmoderr
7790     \@floatpenalty\z@
7791   \else
7792     \@next\@currbox\@freelist{}\{}%
7793     \@next\@marbox\@freelist{\global\count\@marbox\m@ne}%
7794     {\@floatpenalty\z@
7795       \@fltovf\def\@currbox{\@tempboxa}\def\@marbox{\@tempboxa}}%
7796   \fi
7797   \@ifnextchar [\@RTLbidityftesidenotexmpar\@RTLbidityftesidenoteympar}
7798 \long\def\@RTLbidityftesidenotexmpar[#1]#2{%
7799   \@RTLbidityftesidenotesavemarbox\@marbox{#1}%
7800   \@RTLbidityftesidenotesavemarbox\@currbox{#2}%
7801   \@xympar}
7802 \long\def\@RTLbidityftesidenoteympar#1{%
7803   \@RTLbidityftesidenotesavemarbox\@marbox{#1}%
7804   \global\setbox\@currbox\copy\@marbox
7805   \@xympar}
7806 \long\def \@RTLbidityftesidenotesavemarbox #1#2{%
7807   \global\setbox #1%
7808     \color@vbox
7809     \vtop{%
7810       \hsize\marginparwidth
7811       \@parboxrestore
7812       \@RTLbidityftesidenotemarginparreset
7813       #2%
7814       \@minipagefalse
7815       \outer@nobreak
7816     }%
7817   \color@endbox
7818 }
7819 \def \@RTLbidityftesidenotemarginparreset {%
7820   \reset@font
7821   \normalsize
7822   \@minipagetrue
7823   \everypar{\@minipagefalse\everypar{}\beginR}%
7824 }
7825 \newcommand*{\@bidityftesidenote@marginfont}{\normalfont\footnotesize}
7826 \newcommand*{\@bidityftesidenote@LTRmarginfont}{\normalfont\footnotesize}
7827 \newcommand*{\@bidityftesidenote@RTLmarginfont}{\normalfont\footnotesize}
7828 \newcommand*{\@bidityftesidenote@RTLmarginfont}{\@bidityftesidenote@marginfont}
7829 \newcommand*{\@bidityftesidenote@LTRsidenote@font}{\@bidityftesidenote@LTRmarginfont}
7830 \newcommand*{\@bidityftesidenote@RTLSidenote@font}{\@bidityftesidenote@RTLmarginfont}
7831 \newcommand*{\@bidityftesidenote@marginnote@font}{\@bidityftesidenote@marginfont}
7832 \newcommand*{\@bidityftesidenote@LTRmarginnote@font}{\@bidityftesidenote@LTRmarginfont}
7833 \newcommand*{\@bidityftesidenote@RTLmarginnote@font}{\@bidityftesidenote@RTLmarginfont}

```



```

7834 \newcommand*{\@bidityftesidenote@citation@font}{\@bidityftesidenote@marginfont}
7835 \newcommand*{\@bidityftesidenote@LTRcitation@font}{\@bidityftesidenote@LTRmarginfont}
7836 \newcommand*{\@bidityftesidenote@RTLcitation@font}{\@bidityftesidenote@RTLmarginfont}
7837 \newcommand*{\setsidenote@font}[1]{\renewcommand*{\@bidityftesidenote@sidenote@font}{#1}}
7838 \newcommand*{\setLTRsidenote@font}[1]{\renewcommand*{\@bidityftesidenote@LTRsidenote@font}{#1}}
7839 \newcommand*{\setRTLSidenote@font}[1]{\renewcommand*{\@bidityftesidenote@RTLSidenote@font}{#1}}
7840 \newcommand*{\setmarginnote@font}[1]{\renewcommand*{\@bidityftesidenote@marginnote@font}{#1}}
7841 \newcommand*{\setLTRmarginnote@font}[1]{\renewcommand*{\@bidityftesidenote@LTRmarginnote@font}{#1}}
7842 \newcommand*{\setRTLmarginnote@font}[1]{\renewcommand*{\@bidityftesidenote@RTLmarginnote@font}{#1}}
7843 \newcommand*{\setcitation@font}[1]{\renewcommand*{\@bidityftesidenote@citation@font}{#1}}
7844 \newcommand*{\setLTRcitation@font}[1]{\renewcommand*{\@bidityftesidenote@LTRcitation@font}{#1}}
7845 \newcommand*{\setRTLcitation@font}[1]{\renewcommand*{\@bidityftesidenote@RTLcitation@font}{#1}}
7846 \newcommand*{\@bidityftesidenote@sidenote@justification}{\@bidityftesidenote@justification@auto}
7847 \newcommand*{\@bidityftesidenote@marginnote@justification}{\@bidityftesidenote@justification@auto}
7848 \newcommand*{\@bidityftesidenote@citation@justification}{\@bidityftesidenote@justification@auto}
7849 \newcommand*{\@bidityftesidenote@justification@autodetect}{\justifying}%
7850 \newcommand{\@bidityftesidenote@margin@par}{%
7851   \setlength{\RaggedRightParindent}{0.5pc}%
7852   \setlength{\JustifyingParindent}{0.5pc}%
7853   \setlength{\parindent}{0.5pc}%
7854   \setlength{\parskip}{Opt}}%
7855 }
7856 %%
7857 % Globally sets the length
7858 \@ifundefined{gsetlength}{%
7859 \newcommand*{gsetlength}[2]{%
7860   \setlength{#1}{#2}%
7861   \global#1=#1\relax%
7862 }%
7863 }{}
7864
7865 %%
7866 % A function that removes leading and trailing spaces from the supplied macro.
7867 % Based on code written by Michael Downes (See ``Around the Bend'', #15.)
7868 % Executing \@bidityftesidenote@trim@spaces\xyzzy will result in the contents of \xyzzy
7869 % being trimmed of leading and trailing white space.
7870 \catcode\Q=3
7871 \def\@bidityftesidenote@trim@spaces#1{%
7872   % Use grouping to emulate a multi-token afterassignment queue
7873   \begingroup%
7874   % Put \toks 0 {' into the afterassignment queue
7875   \aftergroup\toks\aftergroup0\aftergroup{%
7876   % Apply \trimb to the replacement text of #1, adding a leading
7877   % \noexpand to prevent brace stripping and to serve another purpose
7878   % later.
7879   \expandafter\@bidityftesidenote@trim@b\expandafter\noexpand#1Q Q}%
7880   % Transfer the trimmed text back into #1.
7881   \edef#1{\the\toks0}%
7882 }
7883 % \trimb removes a trailing space if present, then calls \@bidityftesidenote@trim@c to
7884 % clean up any leftover bizarre Qs, and trim a leading space. In
7885 % order for \trimc to work properly we need to put back a Q first.
7886 \def\@bidityftesidenote@trim@b#1 Q{\@bidityftesidenote@trim@c#1Q}
7887 % Execute \vfuzz assignment to remove leading space; the \noexpand

```



```

7888% will now prevent unwanted expansion of a macro or other expandable
7889% token at the beginning of the trimmed text. The \endgroup will feed
7890% in the \aftergroup tokens after the \vfuzz assignment is completed.
7891\def\@bidityftesidenote@trim@c#1Q#2{\afterassignment\endgroup \vfuzz\the\vfuzz#1}
7892\catcode\Q=11
7893%%
7894% Citations should go in the margin as sidenotes
7895
7896\RequirePackage{natbib}
7897\RequirePackage{bibentry} % allows bibitems to be typeset outside thebibliography env
7898% Redefine the \BR@b@bibitem command to fix a bug with bibentry+chicago style
7899\renewcommand\BR@b@bibitem[2][{}]{%
7900  \ifthenelse{\isempty{#1}}{%
7901    {\BR@bibitem{#2}}%
7902    {\BR@bibitem[#1]{#2}}%
7903  \BR@c@bibitem{#2}%
7904}
7905\@bidityftesidenote@AtEndPreamble{\nobibliography*} % pre-loads the bibliography keys
7906%%
7907% Normal \cite behavior
7908\newcounter{@bidityftesidenote@num@bibkeys}%
7909\newcommand{\@bidityftesidenote@normal@cite}[2][0pt]{%
7910  % Snag the last bibentry in the list for later comparison
7911  \let\@temp@last@bibkey\@empty%
7912  \@for\@temp@bibkey:=#2\do{\let\@temp@last@bibkey\@temp@bibkey}%
7913  \sidenote[][#1]{%
7914    % Loop through all the bibentries, separating them with semicolons and spaces
7915    \normalsize\normalfont\@bidityftesidenote@citation@font%
7916    \setcounter{@bidityftesidenote@num@bibkeys}{0}%
7917    \@for\@temp@bibkeyx:=#2\do{%
7918      \ifthenelse{\equal{\@temp@last@bibkey}{\@temp@bibkeyx}}{%
7919        {\ifthenelse{\equal{value{@bidityftesidenote@num@bibkeys}}{0}}{\{and\ }%
7920          \@bidityftesidenote@trim@spaces\@temp@bibkeyx% trim spaces around bibkey
7921          \bibentry{\@temp@bibkeyx}}%
7922        {\@bidityftesidenote@trim@spaces\@temp@bibkeyx% trim spaces around bibkey
7923          \bibentry{\@temp@bibkeyx};\ }%
7924      \stepcounter{@bidityftesidenote@num@bibkeys}%
7925    }%
7926  }%
7927}
7928\newcommand{\@bidityftesidenote@LTrsidenote@normal@cite}[2][0pt]{%
7929  % Snag the last bibentry in the list for later comparison
7930  \let\@temp@last@bibkey\@empty%
7931  \@for\@temp@bibkey:=#2\do{\let\@temp@last@bibkey\@temp@bibkey}%
7932  \LTRsidenote[][#1]{%
7933    % Loop through all the bibentries, separating them with semicolons and spaces
7934    \normalsize\normalfont\@bidityftesidenote@LTrcitation@font%
7935    \setcounter{@bidityftesidenote@num@bibkeys}{0}%
7936    \@for\@temp@bibkeyx:=#2\do{%
7937      \ifthenelse{\equal{\@temp@last@bibkey}{\@temp@bibkeyx}}{%
7938        {\ifthenelse{\equal{value{@bidityftesidenote@num@bibkeys}}{0}}{\{and\ }%
7939          \@bidityftesidenote@trim@spaces\@temp@bibkeyx% trim spaces around bibkey
7940          \bibentry{\@temp@bibkeyx}}%
7941        {\@bidityftesidenote@trim@spaces\@temp@bibkeyx% trim spaces around bibkey

```



```

7942         \bibentry{\@temp@bibkeyx};\ }%
7943         \stepcounter{@bidityftesidenote@num@bibkeys}%
7944     }%
7945 }%
7946 }
7947 \newcommand{\@bidityfteRTLsidenote@normal@cite}[2][Opt]{%
7948 % Snag the last bibentry in the list for later comparison
7949 \let\@temp@last@bibkey\empty%
7950 \@for\@temp@bibkey:=#2\do{\let\@temp@last@bibkey\@temp@bibkey}%
7951 \RTLsidenote[] [#1]{%
7952 % Loop through all the bibentries, separating them with semicolons and spaces
7953 \normalsize\normalfont\@bidityftesidenote@citation@font%
7954 \setcounter{@bidityftesidenote@num@bibkeys}{0}%
7955 \@for\@temp@bibkeyx:=#2\do{%
7956 \ifthenelse{equal{\@temp@last@bibkey}{\@temp@bibkeyx}}{%
7957     {\ifthenelse{equal{value{@bidityftesidenote@num@bibkeys}}{0}}{and\ }%
7958     \@bidityftesidenote@trim@spaces\@temp@bibkeyx% trim spaces around bibkey
7959     \bibentry{\@temp@bibkeyx}}%
7960     {\@bidityftesidenote@trim@spaces\@temp@bibkeyx% trim spaces around bibkey
7961     \bibentry{\@temp@bibkeyx};\ }%
7962     \stepcounter{@bidityftesidenote@num@bibkeys}%
7963     }%
7964 }%
7965 }
7966 %%
7967 % Macros for holding the list of cite keys until after the \sidenote
7968 \gdef\@bidityftesidenote@citations{}% list of cite keys
7969 \newcommand\@bidityftesidenote@add@citation[1]{\relax% adds a new bibkey to the list of cite
7970 \ifx\@bidityftesidenote@citations\empty\else
7971     \g@addto@macro\@bidityftesidenote@citations{,}% separate by commas
7972 \fi
7973 \g@addto@macro\@bidityftesidenote@citations{#1}
7974 }
7975 \newcommand{\@bidityftesidenote@print@citations}[1][Opt]{% puts the citations in a margin no
7976 % Snag the last bibentry in the list for later comparison
7977 \let\@temp@last@bibkey\empty%
7978 \@for\@temp@bibkey:=\@bidityftesidenote@citations\do{\let\@temp@last@bibkey\@temp@bibkey}%
7979 \marginpar{%
7980     \hbox{} \vspace*{#1}%
7981     \@bidityftesidenote@citation@font%
7982     \@bidityftesidenote@citation@justification%
7983     \@bidityftesidenote@margin@par% use parindent and parskip settings for marginal text
7984     \vspace*{-1\baselineskip}%
7985 % Loop through all the bibentries, separating them with semicolons and spaces
7986 \setcounter{@bidityftesidenote@num@bibkeys}{0}%
7987 \@for\@temp@bibkeyx:=\@bidityftesidenote@citations\do{%
7988     \ifthenelse{equal{\@temp@last@bibkey}{\@temp@bibkeyx}}{%
7989         {\ifthenelse{equal{value{@bidityftesidenote@num@bibkeys}}{0}}{and\ }%
7990         \@bidityftesidenote@trim@spaces\@temp@bibkeyx% trim spaces around bibkey
7991         \bibentry{\@temp@bibkeyx}}%
7992         {\@bidityftesidenote@trim@spaces\@temp@bibkeyx% trim spaces around bibkey
7993         \bibentry{\@temp@bibkeyx};\ }%
7994         \stepcounter{@bidityftesidenote@num@bibkeys}%
7995     }%

```



```

7996 }%
7997 }
7998 %%
7999 % \cite behavior when executed within a sidenote
8000 \newcommand{\@bidityftesidenote@sidenote@citations}{}% contains list of \cites in sidenote
8001 \newcommand{\@bidityftesidenote@infootnote@cite}[1]{%
8002   \@bidityftesidenote@add@citation{#1}
8003 }
8004 %%
8005 % Set the default \cite style. This is set and reset by the \sidenote command.
8006 \let\cite\@bidityftesidenote@normal@cite
8007 \let\LTRcite\@bidityftelTRsidenote@normal@cite
8008 \let\RTLcite\@bidityfteRTLsidenote@normal@cite
8009 %%
8010 % Transform existing \footnotes into \sidenotes
8011 % Sidenote: ``Where God meant footnotes to go.''' ---bidityftesidenote
8012 \RequirePackage{optparams}% for our new sidenote commands -- provides multiple optional argu
8013 \providecommand{\footnotelayout}{\@bidityftesidenote@sidenote@font\@bidityftesidenote@sidenote
8014 \renewcommand{\footnotelayout}{\@bidityftesidenote@sidenote@font\@bidityftesidenote@sidenote
8015 % Override footmisc's definition to set the sidenote marks (numbers) inside the
8016 % sidenote's text block.
8017 \bidi@patch@AfterPackage{bidi}{\long\def\@makefnmark{\@textsuperscript{\@bidityftesidenote
8018 % Set the in-text footnote mark in the same typeface as the body text itself.
8019 \bidi@patch@AfterPackage{bidi}{\def\@makefnmark{\hbox{\@textsuperscript{\normalfont\footnote
8020 \providecommand*\@multiplefootnotemark}{3sp}
8021 \providecommand*\@multfootsep}{,}
8022 \bidi@patch@AfterPackage{bidi}{%
8023 \renewcommand{\@footnotemark}{%
8024   \leavevmode%
8025   \ifhmode%
8026     \edef\@x@sf{\the\spacefactor}%
8027     \@bidityftesidenote@check@multiple@sidenotes%
8028     \nobreak%
8029     \fi%
8030     \@makefnmark%
8031     \ifhmode\spacefactor\@x@sf\fi%
8032     \relax%
8033 }%
8034 }
8035 \newcommand{\@bidityftesidenote@check@multiple@sidenotes}{%
8036   \ifdim\lastkern=\@multiplefootnotemark\relax%
8037     \edef\@x@sf{\the\spacefactor}%
8038     \unkern%
8039     \textsuperscript{\multfootsep}%
8040     \spacefactor\@x@sf\relax%
8041   \fi
8042 }
8043 \bidi@patch@AfterPackage{bidi}{%
8044 \renewcommand\@footnotetext[2][0pt]{%
8045   \bidityftesidenotemarginpar{%
8046     \hbox{}}\vspace*{#1}%
8047     \def\baselinestretch {\set@space@singlespace}%
8048     \reset@font%
8049     \bidi@@footnotetext@font% \reset@font\footnotesize%

```



```

8050 \@bidityftesidenote@margin@par% use parindent and parskip settings for marginal text
8051 \vspace*{-1\baselineskip}\noindent%
8052 \protected@edef\@currentlabel{%
8053     \csname p@footnote\endcsname\@thefnmark%
8054 }%
8055 \color@begingroup%
8056     \@makefnstext{%
8057         \ignorespaces#2%
8058     }%
8059 \color@endgroup%
8060 }%
8061 }%
8062 \renewcommand\@LTRfootnotetext[2][Opt]{%
8063     \LTRbidityftesidenotemarginpar{%
8064         \hbox{ }\vspace*{#1}%
8065         \def\baselinestretch {\setspace@singlespace}%
8066         \reset@font%
8067         \bidi@%LTRfootnotetext@font% \reset@font\footnotesize%
8068         \@bidityftesidenote@margin@par% use parindent and parskip settings for marginal text
8069         \vspace*{-1\baselineskip}\noindent%
8070         \protected@edef\@currentlabel{%
8071             \csname p@footnote\endcsname\@thefnmark%
8072         }%
8073         \color@begingroup%
8074             \@makefnstext{%
8075                 \ignorespaces#2%
8076             }%
8077         \color@endgroup%
8078     }%
8079 }%
8080 \renewcommand\@RTLfootnotetext[2][Opt]{%
8081     \RTLbidityftesidenotemarginpar{%
8082         \hbox{ }\vspace*{#1}%
8083         \def\baselinestretch {\setspace@singlespace}%
8084         \reset@font%
8085         \bidi@%RTLfootnotetext@font% \reset@font\footnotesize%
8086         \@bidityftesidenote@margin@par% use parindent and parskip settings for marginal text
8087         \vspace*{-1\baselineskip}\noindent%
8088         \protected@edef\@currentlabel{%
8089             \csname p@footnote\endcsname\@thefnmark%
8090         }%
8091         \color@begingroup%
8092             \@makefnstext{%
8093                 \ignorespaces#2%
8094             }%
8095         \color@endgroup%
8096     }%
8097 }%
8098 }
8099 %
8100 % Define \sidenote command. Can handle \cite.
8101 \newlength{\@bidityftesidenote@sidenote@vertical@offset}
8102 \setlength{\@bidityftesidenote@sidenote@vertical@offset}{0pt}
8103 % #1 = footnote num, #2 = vertical offset, #3 = footnote text

```



```

8104 \long\def\@bidityftesidenote@sidenote[#1][#2]#3{%
8105 \let\cite\@bidityftesidenote@infootnote@cite% use the in-sidenote \cite command
8106 \gdef\@bidityftesidenote@citations{}% clear out any old citations
8107 \ifthenelse{\NOT\isempty{#2}}{%
8108 \gsetlength{\@bidityftesidenote@sidenote@vertical@offset}{#2}%
8109 }{%
8110 \gsetlength{\@bidityftesidenote@sidenote@vertical@offset}{0pt}%
8111 }%
8112 \ifthenelse{\isempty{#1}}{%
8113 % no specific footnote number provided
8114 \stepcounter\@mpfn%
8115 \protected@xdef\@thefnmark{\thempfn}%
8116 \@footnotemark\@footnotetext[\@bidityftesidenote@sidenote@vertical@offset]{#3}%
8117 }{%
8118 % specific footnote number provided
8119 \begingroup%
8120 \csname c@\@mpfn\endcsname #1\relax%
8121 \unrestored@protected@xdef\@thefnmark{\thempfn}%
8122 \endgroup%
8123 \@footnotemark\@footnotetext[\@bidityftesidenote@sidenote@vertical@offset]{#3}%
8124 }%
8125 \@bidityftesidenote@print@citations% print any citations
8126 \let\cite\@bidityftesidenote@normal@cite% go back to using normal in-text \cite comm
8127 \let\LTRcite\@bidityfteLTRsidenote@normal@cite% go back to using normal in-text \LTR
8128 \let\RTLcite\@bidityfteRTLsidenote@normal@cite% go back to using normal in-text \RTL
8129 \unskip\ignorespaces% remove extra white space
8130 \kern-\multiplefootnotemarker% remove \kern left behind by sidenote
8131 \kern\multiplefootnotemarker\relax% add new \kern here to replace the one we yanked
8132 }
8133 \long\def\@LTRbidityftesidenote@sidenote[#1][#2]#3{%
8134 \let\cite\@bidityftesidenote@infootnote@cite% use the in-sidenote \cite command
8135 \gdef\@bidityftesidenote@citations{}% clear out any old citations
8136 \ifthenelse{\NOT\isempty{#2}}{%
8137 \gsetlength{\@bidityftesidenote@sidenote@vertical@offset}{#2}%
8138 }{%
8139 \gsetlength{\@bidityftesidenote@sidenote@vertical@offset}{0pt}%
8140 }%
8141 \ifthenelse{\isempty{#1}}{%
8142 % no specific footnote number provided
8143 \stepcounter\@mpfn%
8144 \protected@xdef\@thefnmark{\thempfn}%
8145 \@footnotemark\@LTRfootnotetext[\@bidityftesidenote@sidenote@vertical@offset]{#3}%
8146 }{%
8147 % specific footnote number provided
8148 \begingroup%
8149 \csname c@\@mpfn\endcsname #1\relax%
8150 \unrestored@protected@xdef\@thefnmark{\thempfn}%
8151 \endgroup%
8152 \@footnotemark\@LTRfootnotetext[\@bidityftesidenote@sidenote@vertical@offset]{#3}%
8153 }%
8154 \@bidityftesidenote@print@citations% print any citations
8155 \let\cite\@bidityftesidenote@normal@cite% go back to using normal in-text \cite comm
8156 \let\LTRcite\@bidityfteLTRsidenote@normal@cite% go back to using normal in-text \LTR
8157 \let\RTLcite\@bidityfteRTLsidenote@normal@cite% go back to using normal in-text \RTL

```





```

8158 \unskip\ignorespaces%           remove extra white space
8159 \kern-\multiplefootnotemarker%   remove \kern left behind by sidenote
8160 \kern\multiplefootnotemarker\relax% add new \kern here to replace the one we yanked
8161 }
8162 \long\def\@RTLbidityftesidenote@sidenote[#1][#2]#3{%
8163 \let\cite\@bidityftesidenote@infootnote@cite%   use the in-sidenote \cite command
8164 \gdef\@bidityftesidenote@citations{%           clear out any old citations
8165 \ifthenelse{\NOT\isempty{#2}}{%
8166 \gsetlength{\@bidityftesidenote@sidenote@vertical@offset}{#2}%
8167 }{%
8168 \gsetlength{\@bidityftesidenote@sidenote@vertical@offset}{0pt}%
8169 }%
8170 \ifthenelse{\isempty{#1}}{%
8171 % no specific footnote number provided
8172 \stepcounter\@mpfn%
8173 \protected@xdef\@thefnmark{\thempfn}%
8174 \@footnotemark\@RTLfootnotetext[\@bidityftesidenote@sidenote@vertical@offset]{#3}%
8175 }{%
8176 % specific footnote number provided
8177 \begingroup%
8178 \csname c@\@mpfn\endcsname #1\relax%
8179 \unrestored@protected@xdef\@thefnmark{\thempfn}%
8180 \endgroup%
8181 \@footnotemark\@RTLfootnotetext[\@bidityftesidenote@sidenote@vertical@offset]{#3}%
8182 }%
8183 \@bidityftesidenote@print@citations%           print any citations
8184 \let\cite\@bidityftesidenote@normal@cite%       go back to using normal in-text \cite comm
8185 \let\LTRcite\@bidityfteLTRsidenote@normal@cite% go back to using normal in-text \LTR
8186 \let\RTLcite\@bidityfteRTLsidenote@normal@cite% go back to using normal in-text \RTL
8187 \unskip\ignorespaces%           remove extra white space
8188 \kern-\multiplefootnotemarker%   remove \kern left behind by sidenote
8189 \kern\multiplefootnotemarker\relax% add new \kern here to replace the one we yanked
8190 }
8191 \newcommand{\sidenote}{\@optparams{\@bidityftesidenote@sidenote}{[ ] [Opt]}}
8192 \newcommand{\LTRsidenote}{\@optparams{\@LTRbidityftesidenote@sidenote}{[ ] [Opt]}}
8193 \newcommand{\RTLsidenote}{\@optparams{\@RTLbidityftesidenote@sidenote}{[ ] [Opt]}}
8194 \bidi@patch@AfterPackage{bidi}{%
8195 \renewcommand{\footnote}{\@optparams{\@bidityftesidenote@sidenote}{[ ] [Opt]}}%
8196 \renewcommand{\LTRfootnote}{\@optparams{\@LTRbidityftesidenote@sidenote}{[ ] [Opt]}}%
8197 \renewcommand{\RTLfootnote}{\@optparams{\@RTLbidityftesidenote@sidenote}{[ ] [Opt]}}%
8198 }
8199 %%
8200 % Sidenote without the footnote mark
8201 \newcommand\marginnote[2] [Opt]{%
8202 \let\cite\@bidityftesidenote@infootnote@cite%   use the in-sidenote \cite command
8203 \gdef\@bidityftesidenote@citations{%           clear out any old citations
8204 \bidityftesidenotemarginpar{\hbox{} \vspace*{#1}}\@bidityftesidenote@marginnote@font\@bidity
8205 \@bidityftesidenote@print@citations%           print any citations
8206 \let\cite\@bidityftesidenote@normal@cite%       go back to using normal in-text \cite comm
8207 \let\LTRcite\@bidityfteLTRsidenote@normal@cite% go back to using normal in-text \LTR
8208 \let\RTLcite\@bidityfteRTLsidenote@normal@cite% go back to using normal in-text \RTL
8209 }
8210 \newcommand\LTRmarginnote[2] [Opt]{%
8211 \let\cite\@bidityftesidenote@infootnote@cite%   use the in-sidenote \cite command

```





```

8212 \gdef\@bidityftesidenote@citations{%          clear out any old citations
8213 \LTRbidityftesidenotemarginpar{\hbox{} \vspace*{#1}\@bidityftesidenote@LTRmarginnote@font\@
8214 \@bidityftesidenote@print@citations%          print any citations
8215 \let\cite\@bidityftesidenote@normal@cite%      go back to using normal in-text \cite comm
8216 \let\LTRcite\@bidityfteLTRsidenote@normal@cite% go back to using normal in-text \LTR
8217 \let\RTLcite\@bidityfteRTLSidenote@normal@cite% go back to using normal in-text \RTL
8218 }
8219 \newcommand\RTLmarginnote[2][Opt]{%
8220 \let\cite\@bidityftesidenote@infootnote@cite% use the in-sidenote \cite command
8221 \gdef\@bidityftesidenote@citations{%          clear out any old citations
8222 \RTLbidityftesidenotemarginpar{\hbox{} \vspace*{#1}\@bidityftesidenote@RTLmarginnote@font\@
8223 \@bidityftesidenote@print@citations%          print any citations
8224 \let\cite\@bidityftesidenote@normal@cite%      go back to using normal in-text \cite comm
8225 \let\LTRcite\@bidityfteLTRsidenote@normal@cite% go back to using normal in-text \LTR
8226 \let\RTLcite\@bidityfteRTLSidenote@normal@cite% go back to using normal in-text \RTL
8227 }

```

## 55 File bidityftetoc.sty

```

8228 \NeedsTeXFormat{LaTeX2e}
8229 \ProvidesPackage{bidityftetoc}[2011/06/17 v0.1
8230 bidi implementation of tuftes toc]
8231 \RequirePackage{titlesec,titletoc,xifthen,biditytools}
8232 \newcommand{\@bidityftetoc@pkgname}{bidityftetoc}
8233 \newcommand{\@bidityftetocError}[2]{\PackageError{\@bidityftetoc@pkgname}{#1}{#2}}
8234 %%
8235 % Turn off section numbering
8236 \setcounter{secnumdepth}{-1}
8237 \newboolean{\@bidityftetoc@toc}
8238 \setboolean{\@bidityftetoc@toc}{true}
8239 \DeclareOption{notoc}{\setboolean{\@bidityftetoc@toc}{false}}
8240 \DeclareOption{toc}{\setboolean{\@bidityftetoc@toc}{true}}
8241 \ProcessOptions
8242 %%
8243 % Make Tuftian-style section headings and TOC formatting
8244 \bidi@patch@AfterPackage{bidi}{%
8245 \titleformat{\chapter}%
8246 [display]% shape
8247 {\relax\ifthenelse{\NOT\boolean{\@bidityftefloat@symmetric}}{\begin{fullwidth}}{}}% format
8248 {\itshape\huge\thechapter}% label
8249 {Opt}% horizontal separation between label and title body
8250 {\huge\rmfamily\itshape}% before the title body
8251 [\ifthenelse{\NOT\boolean{\@bidityftefloat@symmetric}}{\end{fullwidth}}{}}% after the title
8252 \titleformat{\section}%
8253 [hang]% shape
8254 {\normalfont\Large\itshape}% format applied to label+text
8255 {\thesection}% label
8256 {1em}% horizontal separation between label and title body
8257 {}% before the title body
8258 []% after the title body
8259 \titleformat{\subsection}%
8260 [hang]% shape
8261 {\normalfont\large\itshape}% format applied to label+text
8262 {\thesubsection}% label

```



```

8263 {1em}% horizontal separation between label and title body
8264 {}% before the title body
8265 []% after the title body
8266 \titleformat{\paragraph}%
8267 [runin]% shape
8268 {\normalfont\itshape}% format applied to label+text
8269 {\theparagraph}% label
8270 {1em}% horizontal separation between label and title body
8271 {}% before the title body
8272 []% after the title body
8273 \titlespacing*{\chapter}{0pt}{50pt}{40pt}
8274 \titlespacing*{\section}{0pt}{3.5ex plus 1ex minus .2ex}{2.3ex plus .2ex}
8275 \titlespacing*{\subsection}{0pt}{3.25ex plus 1ex minus .2ex}{1.5ex plus.2ex}
8276 }
8277 % Subsubsection and following section headings shouldn't be used.
8278 % See Bringhurst's _The Elements of Typography_, section 4.2.2.
8279 \renewcommand\subsubsection{%
8280 \bidityftetocError{\noexpand\subsubsection is undefined by this class.%
8281 \MessageBreak See Robert Bringhurst's _The Elements of
8282 \MessageBreak Typographic Style_, section 4.2.2.
8283 \MessageBreak \noexpand\subsubsection was used}
8284 {From Bringhurst's _The Elements of Typographic Style_, section 4.2.2: Use as
8285 \MessageBreak many levels of headings as you need, no more and no fewer. Also see the m
8286 \MessageBreak related threads on Ask E.T. at http://www.edwardbidityftetoc.com/.}
8287 }
8288 \renewcommand\subparagraph{%
8289 \bidityftetocError{\noexpand\subparagraph is undefined by this class.%
8290 \MessageBreak See Robert Bringhurst's _The Elements of
8291 \MessageBreak Typographic Style_, section 4.2.2.
8292 \MessageBreak \noexpand\subparagraph was used}
8293 {From Bringhurst's _The Elements of Typographic Style_, section 4.2.2: Use as
8294 \MessageBreak many levels of headings as you need, no more and no fewer. Also see the m
8295 \MessageBreak related threads on Ask E.T. at http://www.edwardbidityftetoc.com/.}
8296 }
8297 % Formatting for main TOC (printed in front matter)
8298 % {section} [left] {above} {before w/label} {before w/o label} {filler + page} [after]
8299 \ifthenelse{\boolean{@bidityftetoc@toc}}{%
8300 \bidi@patch@AfterPackage{bidi}{%
8301 \titlecontents{part}% FIXME
8302 [0em] % distance from left margin
8303 {\vspace{1.5\baselineskip}\begin{fullwidth}\LARGE\rmfamily\itshape} % above (global form
8304 {\contentslabel{2em}} % before w/label (label = ``II'')
8305 {} % before w/o label
8306 {\rmfamily\upshape\qqquad\thecontentspage} % filler + page (leaders and page num)
8307 [\end{fullwidth}] % after
8308 \titlecontents{chapter}%
8309 [0em] % distance from left margin
8310 {\vspace{1.5\baselineskip}\begin{fullwidth}\LARGE\rmfamily\itshape} % above (global form
8311 {\hspace*{0em}\contentslabel{2em}} % before w/label (label = ``2'')
8312 {\hspace*{0em}} % before w/o label
8313 {\rmfamily\upshape\qqquad\thecontentspage} % filler + page (leaders and page num)
8314 [\end{fullwidth}] % after
8315 \titlecontents{section}% FIXME
8316 [0em] % distance from left margin

```



```

8317 {\vspace{0\baselineskip}\begin{fullwidth}\Large\rmfamily\itshape} % above (global format
8318 {\hspace*{2em}\contentslabel{2em}} % before w/label (label = ``2.6'')
8319 {\hspace*{2em}} % before w/o label
8320 {\rmfamily\upshape\qquad\thecontentspage} % filler + page (leaders and page num)
8321 [\end{fullwidth}] % after
8322 \titlecontents{subsection}% FIXME
8323 [0em] % distance from left margin
8324 {\vspace{0\baselineskip}\begin{fullwidth}\large\rmfamily\itshape} % above (global format
8325 {\hspace*{4em}\contentslabel{4em}} % before w/label (label = ``2.6.1'')
8326 {\hspace*{4em}} % before w/o label
8327 {\rmfamily\upshape\qquad\thecontentspage} % filler + page (leaders and page num)
8328 [\end{fullwidth}] % after
8329 \titlecontents{paragraph}% FIXME
8330 [0em] % distance from left margin
8331 {\vspace{0\baselineskip}\begin{fullwidth}\normalsize\rmfamily\itshape} % above (global f
8332 {\hspace*{6em}\contentslabel{2em}} % before w/label (label = ``2.6.0.0.1'')
8333 {\hspace*{6em}} % before w/o label
8334 {\rmfamily\upshape\qquad\thecontentspage} % filler + page (leaders and page num)
8335 [\end{fullwidth}] % after
8336 }%
8337 {}
8338 %%
8339 % Format lists of figures/tables
8340 \renewcommand\listoffigures{%
8341 \ifundefined{chapter}%
8342 {\section*{\listfigurename}}%
8343 {\chapter*{\listfigurename}}%
8344 % \begin{fullwidth}%
8345 % \@starttoc{lof}%
8346 % \end{fullwidth}%
8347 }
8348 \renewcommand\listoftables{%
8349 \ifundefined{chapter}%
8350 {\section*{\listtablename}}%
8351 {\chapter*{\listtablename}}%
8352 % \begin{fullwidth}%
8353 % \@starttoc{lot}%
8354 % \end{fullwidth}%
8355 }
8356 \newcommand{\@biditytetoc@lof@line}[2]{%
8357 % #1 is the figure/table number and its caption text
8358 % #2 is the page number on which the figure/table appears
8359 \leftskip 0.0em
8360 \rightskip 0em
8361 \parfillskip 0em plus 1fil
8362 \parindent 0.0em
8363 \@afterindenttrue
8364 \interlinepenalty\@M
8365 \leavevmode
8366 \@tempdima 2.0em
8367 \if@RTL\advance\rightskip\@tempdima\else\advance\leftskip\@tempdima\fi
8368 \null\nobreak\hskip -\if@RTL\rightskip\else\leftskip\fi
8369 {#1}\nobreak\qquad\nobreak#2%
8370 \par%

```



```

8371 }
8372 \renewcommand*\l@figure{\@bidityfttoc\lof@line}
8373 \let\l@table\l@figure

```

## 56 File bidityftegeneralstructure.sty

```

8374 \NeedsTeXFormat{LaTeX2e}
8375 \ProvidesPackage{bidityftegeneralstructure}[2011/06/18 v0.1
8376 bidi implementation of tufte general structure]
8377 \renewcommand\small{%
8378   \@setfontsize\small\@ixpt{12}%
8379   \abovedisplayskip 8.5\p@ \@plus3\p@ \@minus4\p@
8380   \abovedisplayshortskip \z@ \@plus2\p@
8381   \belowdisplayshortskip 4\p@ \@plus2\p@ \@minus2\p@
8382   \def\@listi{\leftmargin\leftmargini
8383     \topsep 4\p@ \@plus2\p@ \@minus2\p@
8384     \parsep 2\p@ \@plus\p@ \@minus\p@
8385     \itemsep \parsep}%
8386   \belowdisplayskip \abovedisplayskip
8387 }
8388 \renewcommand\scriptsize{\@setfontsize\scriptsize\@viipt\@viiipt}
8389 \renewcommand\tiny{\@setfontsize\tiny\@vpt\@vpt}
8390 \renewcommand\large{\@setfontsize\large\@xipt{15}}
8391 \renewcommand\Large{\@setfontsize\Large\@xiipt{16}}
8392 \renewcommand\LARGE{\@setfontsize\LARGE\@xivpt{18}}
8393 \renewcommand\huge{\@setfontsize\huge\@xxpt{30}}
8394 \renewcommand\Huge{\@setfontsize\Huge{24}{36}}
8395 \setlength\leftmargini {1pc}
8396 \setlength\leftmarginii {1pc}
8397 \setlength\leftmarginiii {1pc}
8398 \setlength\leftmarginiv {1pc}
8399 \setlength\leftmarginv {1pc}
8400 \setlength\leftmarginvi {1pc}
8401 \setlength\labelsep {.5pc}
8402 \setlength\labelwidth {\leftmargini}
8403 \addtolength\labelwidth{-\labelsep}
8404 \setlength{\parindent}{1.0pc}%
8405 \setlength{\parskip}{0pt}%
8406 \RequirePackage{ragged2e}
8407 \setlength{\RaggedRightRightskip}{\z@ plus 0.08\hsize}
8408 % Paragraph indentation and separation for normal text
8409 \newcommand{\@bidityftegeneralstructure@reset@par}{%
8410   \setlength{\RaggedRightParindent}{1.0pc}%
8411   \setlength{\JustifyingParindent}{1.0pc}%
8412   \setlength{\parindent}{1pc}%
8413   \setlength{\parskip}{0pt}%
8414 }
8415 \@bidityftegeneralstructure@reset@par
8416 % Require paralist package for tighter lists
8417 \RequirePackage{paralist}
8418 % Add rightmargin to compactenum
8419 \def\@compactenum@{%
8420   \expandafter\list\csname label\@enumctr\endcsname{%
8421     \usecounter{\@enumctr}%

```



```

8422 \rightmargin=2em% added this
8423 \parsep\plparsep
8424 \itemsep\plitemsep
8425 \topsep\pltopsep
8426 \partopsep\plpartopsep
8427 \def\makelabel##1{\hss\llap{##1}}
8428 %%
8429 % An environment for paragraph-style section
8430 \providecommand\newthought[1]{%
8431 \addvspace{1.0\baselineskip plus 0.5ex minus 0.2ex}%
8432 \noindent\textbf{#1}%
8433 }
8434 %%
8435 % Redefine the display environments (quote, quotation, etc.)
8436 \renewenvironment{verse}
8437 {\let\\@centercr
8438 \list{}\itemsep \z@
8439 \itemindent -1pc%
8440 \listparindent\itemindent
8441 \rightmargin \leftmargin
8442 \advance\leftmargin 1pc}%
8443 \small%
8444 \item\relax}
8445 {\endlist}
8446 \renewenvironment{quotation}
8447 {\list{}\listparindent 1pc%
8448 \itemindent \listparindent
8449 \rightmargin \leftmargin
8450 \parsep \z@ \@plus\p@}%
8451 \small%
8452 \item\relax\noindent\ignorespaces}
8453 {\endlist}
8454 \renewenvironment{quote}
8455 {\list{}\listparindent\rightmargin\leftmargin}%
8456 \small%
8457 \item\relax}
8458 {\endlist}
8459 % Italicize description run-in headings (instead of the default bold)
8460 \renewcommand*{descriptionlabel}[1]{\hspace\labelsep\normalfont\em #1}
8461 %%
8462 % Redefine \bibsection to not mark the running heads.
8463 % (Code modified from natbib.sty.)
8464 \@ifundefined{chapter}%
8465 {\renewcommand\bibsection{\section*{\refname}}}
8466 {\@ifundefined{NAT@sectionbib}%
8467 {\renewcommand\bibsection{\chapter{\bibname}}}
8468 {\renewcommand\bibsection{\section*{\bibname}}}}
8469 \RequirePackage{multicol}
8470 \renewenvironment{theindex}{%
8471 \@ifundefined{chapter}%
8472 {\section*{\indexname}}%
8473 {\chapter{\indexname}}%
8474 \begin{fullwidth}%
8475 \small%

```



```

8476 \parskip0pt%
8477 \parindent0pt%
8478 \let\item\@idxitem%
8479 \begin{multicols}{3}%
8480 }{%
8481 \end{multicols}%
8482 \end{fullwidth}%
8483 }
8484 \AtBeginDocument{%
8485 \renewcommand\@idxitem{\par\hangindent \if@RTL-\fi2em}%
8486 \renewcommand\subitem{\par\hangindent \if@RTL-\fi3em\hspace*{1em}}%
8487 \renewcommand\subsubitem{\par\hangindent \if@RTL-\fi4em\hspace*{2em}}%
8488 \renewcommand\indexspace{\par\addvspace{1.0\baselineskip plus 0.5ex minus 0.2ex}\relax}%
8489 \newcommand{\lettergroup}[1]{}% swallow the letter heading in the index

```

## 57 File `bidituftehyperref.sty`

```

8490 \NeedsTeXFormat{LaTeX2e}
8491 \ProvidesPackage{bidituftehyperref}[2011/06/18 v0.1
8492 bidi implementation of tufte hyperref]
8493 %%
8494 % Color
8495 \RequirePackage[usenames,dvipsnames,svgnames]{xcolor}%
8496 \newboolean{@bidituftehyperref@loadhyper}
8497 \setboolean{@bidituftehyperref@loadhyper}{true}
8498 \DeclareOption{hyper}{\setboolean{@bidituftehyperref@loadhyper}{true}}
8499 \DeclareOption{nohyper}{\setboolean{@bidituftehyperref@loadhyper}{false}}
8500 \ProcessOptions
8501 %% Loads the hyperref package and sets some default options.
8502 \newcommand{\bidituftehyperrefLoadHyperref}{%
8503 \RequirePackage[hyperfootnotes=false,colorlinks=true]{hyperref}
8504 \hypersetup{%
8505     bookmarksdepth = section,
8506     citecolor = DarkGreen,
8507     linkcolor = DarkBlue,
8508     pagecolor = DarkBlue,
8509     urlcolor = DarkGreen,
8510 }%
8511 }
8512 \ifthenelse{\boolean{@bidituftehyperref@loadhyper}}{%
8513 \bidituftehyperrefLoadHyperref%
8514 }{% hyperfootnotes override our modifications to the \footnote* and \@footnote* commands.
8515 \PassOptionsToPackage{hyperfootnotes=false}{hyperref}
8516 }

```

## 58 File `bidituftetitle.sty`

```

8517 \NeedsTeXFormat{LaTeX2e}
8518 \ProvidesPackage{bidituftetitle}[2011/06/18 v0.1
8519 bidi implementation of tufte title]
8520 \RequirePackage{biditools}
8521 %%
8522 % 'titlepage' option -- creates a full title page with \maketitle
8523 \newboolean{@bidituftetitle@titlepage}

```



```

8524 \DeclareOption{titlepage}{\setboolean{@bidityttitle@titlepage}{true}}
8525 \DeclareOption{notitlepage}{\setboolean{@bidityttitle@titlepage}{false}}
8526 % Default 'book' and 'handout' options
8527 \@ifclassloaded{book}{%
8528 \ExecuteOptions{titlepage}}{%
8529 \@ifclassloaded{article}{%
8530 \ExecuteOptions{notitlepage}}%
8531 {}}
8532 \ProcessOptions
8533 %%
8534 % Modified \title, \author, and \date commands. These store the
8535 % (footnote-less) values in \plaintitle, \plainauthor, and \thedata, respectively.
8536 \newcommand{\plaintitle}{}% plain-text-only title
8537 \newcommand{\plainauthor}{}% plain-text-only author
8538 \newcommand{\plainpublisher}{}% plain-text-only publisher
8539 \newcommand{\thanklesstitle}{}% full title text minus \thanks{}
8540 \newcommand{\thanklessauthor}{}% full author text minus \thanks{}
8541 \newcommand{\thanklesspublisher}{}% full publisher minus \thanks{}
8542 \newcommand{\@publisher}{}% full publisher with \thanks{}
8543 \newcommand{\thedata}{\today}
8544 \bidi@patch@AfterPackage{bidi}{%
8545 \renewcommand{\thanks}[1]{\footnote{#1}}
8546 \renewcommand{\LTRthanks}[1]{\LTRfootnote{#1}}
8547 \renewcommand{\RTLthanks}[1]{\RTLfootnote{#1}}
8548 }
8549 \renewcommand{\title}[2][]{%
8550 \gdef\@title{#2}%
8551 \begingroup%
8552 % TODO store contents of \thanks command
8553 \renewcommand{\thanks}[1]{}% swallow \thanks contents
8554 \renewcommand{\LTRthanks}[1]{}% swallow \LTRthanks contents
8555 \renewcommand{\RTLthanks}[1]{}% swallow \RTLthanks contents
8556 \protected@xdef\thanklesstitle{#2}%
8557 \endgroup%
8558 \ifthenelse{\isempty{#1}}%
8559 {\renewcommand{\plaintitle}{\thanklesstitle}}% use thankless title
8560 {\renewcommand{\plaintitle}{#1}}% use provided plain-text title
8561 \@ifundefined{hypersetup}%
8562 {}% hyperref is not loaded; do nothing
8563 {\hypersetup{pdftitle={\plaintitle}}}% set the PDF metadata title
8564 }
8565 \let\@author\@empty% suppress default latex.ltx ``no author'' warning
8566 \renewcommand{\author}[2][]{%
8567 \ifthenelse{\isempty{#2}}{\gdef\@author{#2}}%
8568 \begingroup%
8569 % TODO store contents of \thanks command
8570 \renewcommand{\thanks}[1]{}% swallow \thanks contents
8571 \renewcommand{\LTRthanks}[1]{}% swallow \LTRthanks contents
8572 \renewcommand{\RTLthanks}[1]{}% swallow \RTLthanks contents
8573 \protected@xdef\thanklessauthor{#2}%
8574 \endgroup%
8575 \ifthenelse{\isempty{#1}}%
8576 {\renewcommand{\plainauthor}{\thanklessauthor}}% use thankless author
8577 {\renewcommand{\plainauthor}{#1}}% use provided plain-text author

```



```

8578 \@ifundefined{hypersetup}%
8579 {}% hyperref is not loaded; do nothing
8580 {\hypersetup{pdfauthor={\plainauthor}}}% set the PDF metadata author
8581 }
8582 \renewcommand{\date}[1]{%
8583 \gdef\@date{#1}%
8584 \begingroup%
8585 % TODO store contents of \thanks command
8586 \renewcommand{\thanks}[1]{}% swallow \thanks contents
8587 \renewcommand{\LTRthanks}[1]{}% swallow \LTRthanks contents
8588 \renewcommand{\RTLthanks}[1]{}% swallow \RTLthanks contents
8589 \protected@xdef\thedata{#1}%
8590 \endgroup%
8591 }
8592 %%
8593 % Provides a \publisher command to set the publisher
8594 \newcommand{\publisher}[2][]{%
8595 \gdef\@publisher{#2}%
8596 \begingroup%
8597 \renewcommand{\thanks}[1]{}% swallow \thanks contents
8598 \renewcommand{\LTRthanks}[1]{}% swallow \LTRthanks contents
8599 \renewcommand{\RTLthanks}[1]{}% swallow \RTLthanks contents
8600 \protected@xdef\thanklesspublisher{#2}%
8601 \endgroup%
8602 \ifthenelse{\isempty{#1}}
8603 {\renewcommand{\plainpublisher}{\thanklesspublisher}}% use thankless publisher
8604 {\renewcommand{\plainpublisher}{#1}}% use provided plain-text publisher
8605 }
8606 %%
8607 % Produces a full title page
8608 \newcommand{\maketitlepage}[0]{%
8609 \cleardoublepage%
8610 {%
8611 \bfseries%
8612 \begin{fullwidth}%
8613 \fontsize{18}{20}\selectfont\par\noindent\thanklessauthor%
8614 \vspace{11.5pc}%
8615 \fontsize{36}{40}\selectfont\par\noindent\thanklesstitle%
8616 \vfill%
8617 \fontsize{14}{16}\selectfont\par\noindent\thanklesspublisher%
8618 \end{fullwidth}%
8619 }
8620 \thispagestyle{empty}%
8621 \clearpage%
8622 }
8623 %%
8624 % Title block
8625 \bidi@AfterEndPreamble{%
8626 \renewcommand{\maketitle}{%
8627 \newpage%
8628 \global\@topnum\z@% prevent floats from being placed at the top of the page
8629 \begingroup%
8630 \setlength{\parindent}{0pt}%
8631 \setlength{\parskip}{4pt}%

```





```

8632 \let\@title\@empty%
8633 \let\@author\@empty%
8634 \let\@date\@empty%
8635 \gdef\@title{\LARGE\itshape\@title\par}%
8636 \gdef\@author{\Large\itshape\@author\par}%
8637 \gdef\@date{\Large\itshape\@date\par}%
8638 \@title%
8639 \@author%
8640 \@date%
8641 \endgroup%
8642 \thispagestyle{plain}% suppress the running head
8643 }%
8644 }
8645 %%
8646 % Title page (if the `titlepage' option was passed to the bidentufte-handout
8647 % class.)
8648 \bidi@AfterEndPreamble{%
8649 \ifthenelse{\boolean{@bidentufte@titlepage}}{
8650 {\renewcommand{\maketitle}{\maketitlepage}}
8651 {}
8652 }
8653 %%
8654 % When \cleardoublepage is called, produce a blank (empty) page -- i.e.,
8655 % without headers and footers
8656 \def\cleardoublepage{\clearpage\if@twoside\ifodd\c@page\else
8657 \hbox{}
8658 %\vspace*{\fill}
8659 %\begin{center}
8660 % This page intentionally contains only this sentence.
8661 %\end{center}
8662 %\vspace{\fill}
8663 \thispagestyle{empty}
8664 \newpage
8665 \if@twocolumn\hbox{}\newpage\fi\fi\fi}

```

## 59 File bidentufte-handout.cls

```

8666 \NeedsTeXFormat{LaTeX2e}[1994/06/01]
8667 \ProvidesClass{bidentufte-handout}[2011/06/18 v0.1 bidentufte-handout class]
8668 \DeclareOption*{\PassOptionsToClass{\CurrentOption}{article}}
8669 \DeclareOption*{\PassOptionsToClass{\CurrentOption}{bidentuftefloat}}
8670 \DeclareOption*{\PassOptionsToClass{\CurrentOption}{bidentuftetoc}}
8671 \DeclareOption*{\PassOptionsToClass{\CurrentOption}{bidentuftehyperref}}
8672 \DeclareOption*{\PassOptionsToClass{\CurrentOption}{bidentuftetitle}}
8673 \ProcessOptions\relax
8674 \LoadClass{article}
8675 \RequirePackage{bidentuftefloat}
8676 \RequirePackage{bidentuftesidenote}
8677 \RequirePackage{bidentuftetoc}
8678 \RequirePackage{bidentuftegeneralstructure}
8679 \RequirePackage{bidentuftehyperref}
8680 \RequirePackage{bidentuftetitle}
8681 \renewenvironment{abstract}
8682 {\begin{quotation}}

```



```

8683   {\end{quotation}}
8684 \AtBeginDocument{%
8685   \IfFileExists{biditytfe-handout.cfg}
8686     {\input{biditytfe-handout.cfg}
8687      \ClassInfo{biditytfe-handout}{Loading biditytfe-handout configuration file \@gobble}}
8688   }%
8689 }

```

## 60 File biditytfe-book.cls

```

8690 \NeedsTeXFormat{LaTeX2e}[1994/06/01]
8691 \ProvidesClass{biditytfe-book}[2011/06/18 v0.1 biditytfe-book class]
8692 \DeclareOption*{\PassOptionsToClass{\CurrentOption}{book}}
8693 \DeclareOption*{\PassOptionsToClass{\CurrentOption}{biditytfefloat}}
8694 \DeclareOption*{\PassOptionsToClass{\CurrentOption}{biditytftetoc}}
8695 \DeclareOption*{\PassOptionsToClass{\CurrentOption}{biditytfehyperref}}
8696 \DeclareOption*{\PassOptionsToClass{\CurrentOption}{biditytftetitle}}
8697 \ProcessOptions\relax
8698 \LoadClass{book}
8699 \RequirePackage{biditytfefloat}
8700 \RequirePackage{biditytfesidenote}
8701 \RequirePackage{biditytftetoc}
8702 \RequirePackage{biditytfegeneralstructure}
8703 \RequirePackage{biditytfehyperref}
8704 \RequirePackage{biditytftetitle}
8705 %%
8706 % Set up any book-specific stuff now
8707 %%
8708 % The front matter in Tufte's /Beautiful Evidence/ contains everything up
8709 % to the opening page of Chapter 1. The running heads, when they appear,
8710 % contain only the (arabic) page number in the outside corner.
8711 %\newif\if@mainmatter \@mainmattertrue
8712 \renewcommand\frontmatter{%
8713   \cleardoublepage%
8714   \@mainmatterfalse%
8715   \pagenumbering{arabic}%
8716   %\pagestyle{plain}%
8717   \fancyhf{}%
8718   \ifthenelse{\boolean{@biditytfefloat@twoside}}{%
8719     {\fancyhead[LE,RO]{\thepage}}%
8720     {\fancyhead[RE,RO]{\thepage}}%
8721   }
8722 %%
8723 % The main matter in Tufte's /Beautiful Evidence/ doesn't restart the page
8724 % numbering---it continues where it left off in the front matter.
8725 \renewcommand\mainmatter{%
8726   \cleardoublepage%
8727   \@mainmattertrue%
8728   \fancyhf{}%
8729   \ifthenelse{\boolean{@biditytfefloat@twoside}}{%
8730     {\renewcommand{\chaptermark}[1]{\markboth{##1}{}}}%
8731     {\fancyhead[LE]{\thepage\quad\smallcaps{\newlinetospace{\plaintitle}}}% book title
8732     {\fancyhead[RO]{\smallcaps{\newlinetospace{\leftmark}}\quad\thepage}}% chapter title
8733     {\fancyhead[RE,RO]{\smallcaps{\newlinetospace{\plaintitle}}\quad\thepage}}% book title

```



```

8734 }
8735 %%
8736 % The back matter contains appendices, indices, glossaries, endnotes,
8737 % bibliographies, list of contributors, illustration credits, etc.
8738 \renewcommand\backmatter{%
8739   \if@openright%
8740     \cleardoublepage%
8741   \else%
8742     \clearpage%
8743   \fi%
8744   \@mainmatterfalse%
8745 }
8746 %%
8747 % Only show the chapter titles in the table of contents
8748 \setcounter{tocdepth}{0}
8749 \AtBeginDocument{%
8750 \IfFileExists{biditufte-book.cfg}
8751   {\input{biditufte-book.cfg}
8752     \ClassInfo{biditufte-book}{Loading biditufte-book configuration file \@gobble}}
8753   {}%
8754 }

```

## 61 File bidipoem.sty

```

8755 \NeedsTeXFormat{LaTeX2e}
8756 \ProvidesPackage{bidipoem}%
8757 [2019/03/03 v1.0 Environments for typesetting Persian traditional and modern poems]
8758
8759 % Usage:
8760 %
8761 % \Setversedim #1#2 % define the layout (within a group):
8762 % #1 = length of both half-verses
8763 % #2 = separation distance = length of a connection, if present
8764 % Variant:
8765 % \Setversedim #1[#2]#3 % for half-verses of unequal length
8766 % #1 = length of first (=right) half-verse
8767 % #2 = length of second (=left) half-verse
8768 % #3 = separation distance = length of a connection, if present
8769 %
8770 % \traditionalhalfverses #1#2 % typeset two separated half-verses
8771 % #1 = text of first (=right) half-verse
8772 % #2 = text of second (=left) half-verse
8773 % Variant:
8774 % \traditionalhalfverses #1[#2]#3 % typeset two connected half-verses
8775 % #1 = text of first (=right) half-verse
8776 % #2 = text of connection
8777 % #3 = text of second (=left) half-verse
8778 %
8779 % Alternative (if preferred):
8780 %
8781 % \traditionalconnverses #1#2#3 % = \traditionalhalfverses #1[#2]#3
8782
8783
8784 \newcommand*{\bidipoem@spreadbox}[2]{\hbox to #1{#2}}

```



```

8785
8786% define the layout, verses will be centered
8787
8788\newdimen \bidipoem@hvlen \newdimen \bidipoem@hvsep
8789\newdimen \bidipoem@hvind \newdimen \bidipoem@@hvlen
8790
8791\newcommand*{\Setversedim}[2]{% set lengths of half-verse, [separation]
8792\bidipoem@hvind \textwidth
8793\bidipoem@hvlen #1\relax \advance \bidipoem@hvind -\bidipoem@hvlen
8794\ifx [#2\def \bidipoem@next {\bidipoem@set@verseI []}\else
8795\bidipoem@@hvlen \bidipoem@hvlen \def \bidipoem@next {\bidipoem@set@@verse {#2}}\fi \bidipoem
8796
8797\def \bidipoem@set@verseI [#1]{% optional parameter
8798\bidipoem@@hvlen #1\relax \bidipoem@set@@verse }
8799
8800\newcommand*{\bidipoem@set@@verse}[1]{% separation
8801\advance \bidipoem@hvind -\bidipoem@@hvlen \bidipoem@hvsep #1\relax
8802\advance \bidipoem@hvind -\bidipoem@hvsep \divide \bidipoem@hvind 2 }
8803
8804\newcommand*{\traditionalconnverses}[3]{% first half-verse, connection, second half-verse
8805\ifdim Opt > \bidipoem@hvind %
8806\bidipoem@spreadbox \bidipoem@hvlen {#1}\\ \hfill % first block
8807\else
8808\noindent \hskip \bidipoem@hvind \relax \bidipoem@spreadbox \bidipoem@hvlen {#1}\fi
8809\bidipoem@spreadbox \bidipoem@hvsep {#2}% separator
8810\bidipoem@spreadbox \bidipoem@@hvlen {#3}% second block
8811\par }
8812
8813% macro for two half verses
8814\newcommand*{\traditionalhalfverses}[2]{% optional parameter?
8815\ifx [#2\def\bidipoem@half@verses@next{\bidipoem@half@verses {#1}[]}%
8816\else\def\bidipoem@half@verses@next{\bidipoem@half@verses {#1}[\hfill]{#2}}\fi%
8817\bidipoem@half@verses@next}
8818
8819\def \bidipoem@half@verses #1[#2]#3{% first[mid]second
8820\traditionalconnverses {#1}{#2}{#3}}
8821
8822
8823{\catcode\^^M=\active % these lines must end with %
8824 \gdef\traditionalpoem@obeylines{\catcode\^^M\active \let^^M\traditionalpoem@par}%
8825 \global\let^^M\traditionalpoem@par} % this is in case ^^M appears in a \write
8826{\catcode\^^M=\active % these lines must end with %
8827 \gdef\modernpoem@obeylines{\catcode\^^M\active \let^^M\modernpoem@par}%
8828 \global\let^^M\modernpoem@par} % this is in case ^^M appears in a \write
8829\def\poemcolsepskip{.1\versewidth plus .1\versewidth minus .05\versewidth}
8830\def\poemmarginskip{1em plus 1fil minus 1em}
8831\def\poemextrabaseskip{0\baselineskip}
8832\def\poemskip{\medskip}
8833\newcommand{\bidipoem@openbox}{\leavevmode
8834 \hbox to.77778em{%
8835 \hfil\vrule
8836 \vbox to.675em{\hrule width.6em\vfil\hrule}%
8837 \vrule\hfil}}
8838\def\poemblocksep{\quad\hbox{\bidipoem@openbox}}

```



```

8839 \newdimen\versewidth
8840 \newtoks\bidipoem@p@ftn
8841 \def\poem@verse#1{%
8842 \ifdim\wd#1>\new@poem@width
8843 \xdef\new@poem@width{\the\wd#1}%
8844 \ifdim\new@poem@width>\poem@width
8845 \xdef\poem@width{\new@poem@width}%
8846 \global\let\poem@needrun\relax
8847 \fi
8848 \fi
8849 \hbox to\poem@width{\unhbox#1}%
8850 \global\bidipoem@p@ftn\expandafter{\expandafter}\the\bidipoem@p@ftn%
8851 }
8852 \def\poem@linebegin{\vadjust{\hskip\@flushglue\hskip\poemmargin\skip\relax}
8853 \def\poem@lineend{\nobreak\hskip\poemmargin\skip\hskip\@flushglue\vadjust{}}
8854 \def\poem@lineversesep{%
8855 \nobreak
8856 \hskip\z@ plus 1filll%
8857 \penalty600%
8858 \hskip\poemcolsepskip
8859 \hskip\z@ plus -2filll%
8860 \vadjust{}}%
8861 \nobreak
8862 \hskip\z@ plus 1filll%
8863 }
8864 \def\poem@lineparsebegin{%
8865 \halign\bgroup
8866 \global\setbox\verse@i=\hbox{%
8867 \let\@footnotetext\bidipoem@p@ftntext%
8868 \let\@LTRfootnotetext\bidipoem@p@LTRftntext%
8869 \let\@RTLfootnotetext\bidipoem@p@RTLftntext%
8870 \let\@xfootnotenext\bidipoem@p@xftntext%
8871 \let\@xfootnote\bidipoem@p@xfootnote%
8872 \let\@xLTRfootnotenext\bidipoem@p@xLTRftntext%
8873 \let\@xLTRfootnote\bidipoem@p@xLTRfootnote%
8874 \let\@xRTLfootnotenext\bidipoem@p@xRTLftntext%
8875 \let\@xRTLfootnote\bidipoem@p@xRTLfootnote%
8876 \ignorespaces##\unskip}&&
8877 \global\setbox\verse@ii=\hbox{%
8878 \let\@footnotetext\bidipoem@p@ftntext%
8879 \let\@LTRfootnotetext\bidipoem@p@LTRftntext%
8880 \let\@RTLfootnotetext\bidipoem@p@RTLftntext%
8881 \let\@xfootnotenext\bidipoem@p@xftntext%
8882 \let\@xfootnote\bidipoem@p@xfootnote%
8883 \let\@xLTRfootnotenext\bidipoem@p@xLTRftntext%
8884 \let\@xLTRfootnote\bidipoem@p@xLTRfootnote%
8885 \let\@xRTLfootnotenext\bidipoem@p@xRTLftntext%
8886 \let\@xRTLfootnote\bidipoem@p@xRTLfootnote%
8887 \ignorespaces##\unskip}
8888 \cr
8889 }
8890 \def\poem@lineparseend{%
8891 \crcr\egroup
8892 \vskip-\baselineskip

```



```

8893 }
8894 \def\traditionalpoem@cr{%
8895   \cr\poem@line
8896 }
8897 \newbox\verse@i
8898 \newbox\verse@ii
8899 \newif\ifpoem@started
8900
8901 \def\poem@line{%
8902 \poem@lineparseend
8903 \ifdim\wd\verse@i>\z@\global\poem@startedtrue\fi
8904 \ifdim\wd\verse@ii>\z@\global\poem@startedtrue\fi
8905 \ifpoem@started
8906   \ifdim\wd\verse@ii>\z@\else
8907     \nopagebreak[3]
8908   \fi
8909   \leavevmode
8910   \poem@linebegin
8911   \poem@verse\verse@i
8912   \ifdim\wd\verse@ii>\z@
8913     \poem@lineversesep
8914     \poem@verse\verse@ii
8915   \fi
8916   \poem@lineend
8917 %   \nopagebreak
8918   \par
8919   \vskip\poemextrabaseskip
8920 \fi
8921 \poem@lineparsebegin
8922 }
8923 \def\@traditionalpoem{%
8924 \stepcounter{poem@no}
8925   \ifnum\max@poem@no<\number\c@poem@no%
8926 \xdef\poem@width{\z@}%
8927   \else
8928 \xdef\poem@width{\poem@prop{poem@width}}%
8929 \fi
8930 \xdef\new@poem@width{\z@}%
8931 \global\versewidth=\poem@width
8932 \poemskip\par
8933 \begingroup
8934 \tabskip=\z@
8935 \parskip=\z@
8936 \parindent=\z@
8937 \parfillskip=\z@
8938 \rightskip=\z@
8939 \leftskip=\z@
8940 \widowpenalty=10000% No break between verses of the same line.
8941 \clubpenalty=10000% Same as above. Not really needed.
8942 \def\newblock{\hfil\poemblocksep\hfil\null}%
8943 \def\traditionalpoem@par{\traditionalpoem@cr}% Redefine \par for possible \obeylines
8944 \def\{\{\global\poem@startedtrue\traditionalpoem@cr\}%
8945 \global\poem@startedfalse
8946 \csname poem@obeylines\endcsname

```



```

8947 \let\poem@obeylines\relax
8948 \poem@lineparsebegin
8949 }
8950 \def\@endtraditionalpoem{%
8951 \cr
8952 \ifdim\wd\verse@i>\z@\poem@line\else\ifdim\wd\verse@ii>\z@\poem@line\else
8953 \noalign{%
8954 \skip0=\poemextrabaseskip
8955 \vskip-\skip0
8956 \vskip-\baseskip
8957 }%
8958 \fi\fi
8959 \poem@lineparseend
8960 \endgroup
8961 \par
8962 \vskip\baseskip
8963 \poemskip
8964 \ifdim\new@poem@width<\poem@width
8965 \global\let\poem@needrun\relax
8966 \fi
8967 \poem@write@aux{\poem@width\romannumeral\c@poem@no}{\new@poem@width}%
8968 \ifx\AtEndDocument\undefined\poem@finish\fi
8969 \@endparenv
8970 }
8971
8972
8973 \long\def\bidipoem@p@ftntext#1{%
8974 \edef\@temp{x{\the\bidipoem@p@ftn\noexpand\footnotetext[\the\csname c@\mpfn\endcsname]}}%
8975 \global\bidipoem@p@ftn\expandafter{\@temp{x{#1}}}%
8976 \long\def\bidipoem@p@LTRftntext#1{%
8977 \edef\@tempxi{\the\bidipoem@p@ftn\noexpand\LTRfootnotetext[\the\csname c@\mpfn\endcsname]}}%
8978 \global\bidipoem@p@ftn\expandafter{\@tempxi{#1}}}%
8979 \long\def\bidipoem@p@RTLftntext#1{%
8980 \edef\@tempxii{\the\bidipoem@p@ftn\noexpand\RTLfootnotetext[\the\csname c@\mpfn\endcsname]}}%
8981 \global\bidipoem@p@ftn\expandafter{\@tempxii{#1}}}%
8982
8983 \long\def\bidipoem@p@xftntext[#1]#2{%
8984 \global\bidipoem@p@ftn\expandafter{\the\bidipoem@p@ftn\footnotetext[#1]{#2}}}
8985
8986 \long\def\bidipoem@p@xLTRftntext[#1]#2{%
8987 \global\bidipoem@p@ftn\expandafter{\the\bidipoem@p@ftn\LTRfootnotetext[#1]{#2}}}
8988
8989 \long\def\bidipoem@p@xRTLftntext[#1]#2{%
8990 \global\bidipoem@p@ftn\expandafter{\the\bidipoem@p@ftn\RTLfootnotetext[#1]{#2}}}
8991
8992 \def\bidipoem@p@xfootnote[#1]{%
8993 \begingroup
8994 \csname c@\mpfn\endcsname #1\relax
8995 \unrestored@protected@xdef\@thefnmark{\thempfn}%
8996 \endgroup
8997 \@footnotemark\bidipoem@p@xftntext[#1]}
8998
8999 \def\bidipoem@p@xLTRfootnote[#1]{%
9000 \begingroup

```



```

9001      \csname c@\@mpfn\endcsname #1\relax
9002      \unrestored@protected@xdef\@thefnmark{\thempfn}%
9003      \endgroup
9004      \@footnotemark\bidipoem@p@xLTRftntext[#1]}
9005
9006 \def\bidipoem@p@xRTLfootnote[#1]{%
9007     \begingroup
9008       \csname c@\@mpfn\endcsname #1\relax
9009       \unrestored@protected@xdef\@thefnmark{\thempfn}%
9010       \endgroup
9011       \@footnotemark\bidipoem@p@xRTLftntext[#1]}
9012
9013
9014
9015 \newenvironment{traditionalpoem}{\@traditionalpoem}{\@endtraditionalpoem}
9016 \expandafter\def\csname traditionalpoem*\endcsname{\let\poem@obeylines=\traditionalpoem@obey
9017 \expandafter\def\csname endtraditionalpoem*\endcsname{\endtraditionalpoem}
9018 \def\poem@finish{%
9019 \poem@write@aux{max@poem@no}{\number\c@poem@no}%
9020 \ifx\poem@needrun\relax
9021 \PackageWarning{bidipoem}{Unjustified poem.  Rerun XeLaTeX to get poem right}%
9022 \global\let\poem@needrun\undefined
9023 \fi
9024 }
9025 \ifx\AtEndDocument\undefined\else\AtEndDocument\poem@finish\fi
9026 \newcounter{poem@no}\setcounter{poem@no}{\z@}
9027 \ifx\max@poem@no\undefined
9028     \def\max@poem@no{0}%
9029 \fi
9030 \newcommand{\poem@prop}[1]{\@nameuse{#1@\romannumeral\c@poem@no}}
9031 \newcommand{\poem@write@aux}[2]{%
9032     \def\@x{\immediate\write\@auxout{\global\noexpand\@namedef{#1}{#2}}}%
9033     \@x
9034 }
9035 \def\@modernpoem{%
9036 \par
9037 \begingroup
9038 \parskip=\z@
9039 \parindent=\z@
9040 \def\[{ \@settab\@tabplus\ignorespaces}%
9041 \def\]\@tabminus\ignorespaces}%
9042 \def\newblock{\poemblocksep}%
9043 \let\newpoem@tabcr\@tabcr
9044 \def\modernpoem@par{% Redefine \par for possible \obeylines
9045     \ifpoem@started\else
9046         \ifdim\wd\@curline>\z@\global\poem@startedtrue\else
9047             \@stopfield
9048             \ifdim\wd\@curfield>\z@\global\poem@startedtrue\fi
9049             \@contfield
9050         \fi
9051     \fi
9052     \ifpoem@started\newpoem@tabcr\fi}%
9053 \def\@tabcr{\global\poem@startedtrue\newpoem@tabcr}%
9054 \global\poem@startedfalse

```





```

9055 \csname poem@obeylines\endcsname
9056 \let\poem@obeylines\relax
9057 \begin{tabbing}%
9058 }
9059 \def\@endmodernpoem{%
9060 \global\poem@startedfalse
9061 \ifdim\wd\@curline>\z@\global\poem@startedtrue\else
9062   \@stopfield
9063   \ifdim\wd\@curfield>\z@\global\poem@startedtrue\fi
9064   \@contfield
9065 \fi
9066 \ifpoem@started\else\let\@stopline\@stopfield\fi
9067 \end{tabbing}%
9068 \endgroup
9069 \par
9070 \if@nparlist \else
9071   \ifdim\lastskip >\z@
9072     \@tempskipa\lastskip \vskip -\lastskip
9073     \advance\@tempskipa\parskip \advance\@tempskipa -\@outerparskip
9074     \vskip\@tempskipa
9075   \fi
9076   \@endparenv
9077 \fi
9078 }
9079 \newenvironment{modernpoem}{\@modernpoem}{\@endmodernpoem}
9080 \expandafter\def\csname modernpoem*\endcsname{\let\poem@obeylines=\modernpoem@obeylines\mode
9081 \expandafter\def\csname endmodernpoem*\endcsname{\endmodernpoem}
9082 \gdef\@startfield{%
9083 \global\setbox\@curfield\hbox\bgroup%
9084 \let\@footnotetext\bidipoem@p@ftntext%
9085 \let\@LTRfootnotetext\bidipoem@p@LTRftntext%
9086 \let\@RTLfootnotetext\bidipoem@p@RTLftntext%
9087 \let\@xfootnotenext\bidipoem@p@xftntext%
9088 \let\@xfootnote\bidipoem@p@xfootnote%
9089 \let\@xLTRfootnotenext\bidipoem@p@xLTRftntext%
9090 \let\@xLTRfootnote\bidipoem@p@xLTRfootnote%
9091 \let\@xRTLfootnotenext\bidipoem@p@xRTLftntext%
9092 \let\@xRTLfootnote\bidipoem@p@xRTLfootnote%
9093 \color@begingroup}
9094 \gdef\@stopfield{%
9095 \color@endgroup\egroup\global\bidipoem@p@ftn\expandafter{\expandafter}\the\bidipoem@p@ftn}
9096 \gdef\@contfield{%
9097 \global\setbox\@curfield\hbox\bgroup%
9098 \let\@footnotetext\bidipoem@p@ftntext%
9099 \let\@LTRfootnotetext\bidipoem@p@LTRftntext%
9100 \let\@RTLfootnotetext\bidipoem@p@RTLftntext%
9101 \let\@xfootnotenext\bidipoem@p@xftntext%
9102 \let\@xfootnote\bidipoem@p@xfootnote%
9103 \let\@xLTRfootnotenext\bidipoem@p@xLTRftntext%
9104 \let\@xLTRfootnote\bidipoem@p@xLTRfootnote%
9105 \let\@xRTLfootnotenext\bidipoem@p@xRTLftntext%
9106 \let\@xRTLfootnote\bidipoem@p@xRTLfootnote%
9107 \color@begingroup\unhbox\@curfield}

```



## 62 File boek3-xetex-bidi.def

```

9108 \ProvidesFile{boek3-xetex-bidi.def}[2017/06/09 v0.4 bidi adaptations for boek3 class for XeT
9109 \renewenvironment{theindex}{%
9110   \if@twocolumn
9111     \@restonecolfalse
9112   \else
9113     \@restonecoltrue
9114   \fi
9115   \columnseprule \z@
9116   \columnsep 35\p@
9117   \twocolumn[\@makeschapterhead{\indexname}]%
9118   \@mkboth{\MakeUppercase{\indexname}}{\MakeUppercase{\indexname}}}%
9119   \thispagestyle{plain}\parindent\z@
9120   \parskip\z@ \@plus .3\p@\relax
9121   \let\item\@idxitem
9122 }{%
9123   \if@restonecol\onecolumn\else\clearpage\fi}
9124 \renewcommand*\head@style{%
9125   \interlinepenalty \@M
9126   \hyphenpenalty=\@M \exhyphenpenalty=\@M
9127   \if@RTL\leftskip\else\rightskip\fi=0cm plus .7\hsize\relax}
9128 \renewcommand*\@regtocline[3]{%
9129   \ifnum #1>\c@tocdepth
9130   \else
9131     \vskip\z@ \@plus .2\p@
9132     {\hangindent\z@ \@afterindenttrue \interlinepenalty\@M
9133     \if@RTL\rightskip\else\leftskip\fi\unitindent
9134     \if@RTL\leftskip\else\rightskip\fi\unitindent \@plus 1fil
9135     \parfillskip\z@
9136     \@tempdima\unitindent
9137     \parindent\z@
9138     \leavevmode
9139     \hbox{}\hskip -\if@RTL\rightskip\else\leftskip\fi\relax#2\nobreak
9140     \hskip 1em \nobreak{\slshape #3}\par
9141     }%
9142   \fi}
9143 \if@oldtoc
9144 \renewcommand*\l@part[2]{%
9145   \ifnum \c@tocdepth >-2\relax
9146     \addpenalty{-\@highpenalty}%
9147     \addvspace{2.25em \@plus\p@}%
9148     \begingroup
9149       \setlength\@tempdima{3em}%
9150       \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
9151       \parfillskip -\@pnumwidth
9152       {\leavevmode
9153         \large \bfseries #1\hfil \hb@xt@\@pnumwidth{\hss #2}}\par
9154       \nobreak
9155       \global\@nobreaktrue
9156       \everypar{\global\@nobreakfalse\everypar{}}%
9157     \endgroup
9158   \fi}
9159 \else

```



```

9160 \renewcommand*\l@part{%
9161 \ifnum \c@tocdepth >-2\relax
9162 \addpenalty{-\@highpenalty}%
9163 \addvspace{2.25em \@plus \p@}%
9164 \@regtocline{0}%
9165 \fi}
9166 \fi
9167 \if@oldtoc
9168 \renewcommand*\l@chapter[2]{%
9169 \addpenalty{-\@highpenalty}%
9170 \vskip 1.0em \@plus \p@
9171 \setlength\@tempdima{1.5em}%
9172 \begingroup
9173 \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
9174 \parfillskip -\@pnumwidth
9175 \leavevmode \bfseries
9176 \advance\if@RTL\rightskip\else\leftskip\fi \@tempdima
9177 \hskip -\if@RTL\rightskip\else\leftskip\fi
9178 #1\nobreak\hfil \nobreak\hb@xt@\@pnumwidth{\hss #2}\par
9179 \penalty\@highpenalty
9180 \endgroup}
9181 \else
9182 \renewcommand*\l@chapter{\@regtocline{0}}
9183 \fi
9184 \renewenvironment{abstract}{%
9185 \titlepage
9186 \null\vfil
9187 \section*{\SectFont \abstractname}
9188 \noindent\ignorespaces}
9189 {\par\vfil\null\endtitlepage}
9190 \renewenvironment{thebibliography}[1]
9191 {\chapter*{\bibname}%
9192 \mkboth{\MakeUppercase\bibname}{\MakeUppercase\bibname}%
9193 \if@RTL\if@LTRbibitems\@RTLfalse\else\fi\else\if@RTLbibitems\@RTLtrue\else\fi\fi
9194 \bidi@thebibliography@font@hook%
9195 \list{\@biblabel{\@arabic\c@enumiv}}%
9196 {\settowidth\labelwidth{\@biblabel{#1}}%
9197 \leftmargin\labelwidth
9198 \advance\leftmargin\labelsep
9199 \@openbib@code
9200 \usecounter{enumiv}%
9201 \let\p@enumiv\@empty
9202 \renewcommand*\theenumiv{\@arabic\c@enumiv}}%
9203 \sloppy\clubpenalty4000\widowpenalty4000%
9204 \sfcode`. \@m}
9205 {\def\@noitemerr
9206 {\@latex@warning{Empty `thebibliography' environment}}}%
9207 \endlist}
9208 \renewcommand*\left@footnoterule{%
9209 \kern-3\p@
9210 \kern.5\baselineskip
9211 \hrule\@width\unitindent
9212 \kern.4\baselineskip
9213 }

```



```

9214 \renewcommand*\right@footnoterule{%
9215   \kern-3\p@
9216   \kern.5\baselineskip
9217   \hbox to \columnwidth{\hskip \dimexpr\columnwidth-\unitindent\relax \hrulefill }
9218   \kern.4\baselineskip}
9219 \renewcommand*\thesection{\thechapter\@SepMark\@arabic\c@section}
9220 \renewcommand*\thesubsection{\thesection\@SepMark\@arabic\c@subsection}
9221 \renewcommand*\thesubsubsection{\thesubsection\@SepMark\@arabic\c@subsubsection}
9222 \renewcommand*\theparagraph{\thesubsubsection\@SepMark\@arabic\c@paragraph}
9223 \renewcommand*\thesubparagraph{\theparagraph\@SepMark\@arabic\c@subparagraph}
9224 \renewcommand*\theequation{%
9225   \ifnum \c@chapter>\z@ \thechapter\@SepMark\fi\@arabic\c@equation}
9226 \renewcommand*\thefigure{%
9227   \ifnum \c@chapter>\z@ \thechapter\@SepMark\fi\@arabic\c@figure}
9228 \renewcommand*\thetable{%
9229   \ifnum \c@chapter>\z@ \thechapter\@SepMark\fi\@arabic\c@table}
9230 \renewcommand*\maketitle{%
9231   \begin{titlepage}%
9232     \let\footnotesize\small
9233     \let\right@footnoterule\relax
9234     \let\left@footnoterule\relax
9235     \let\textwidth\footnoterule\relax
9236     \let \footnote \thanks
9237     \long\def\@makefntext##1{\parindent\z@
9238       \def\labelitemi{\textendash}\@revlabeltrue
9239       \leavevmode\@textsuperscript{\@thefnmark}\kern1em\relax ##1}
9240     \renewcommand*\thefootnote{\@fnsymbol\c@footnote}%
9241     \if@compatibility\setcounter{page}{0}\fi
9242     \null\vfil
9243     \vskip 60\p@
9244     \begin{center}%
9245       \TitleFont
9246       {\LARGE \def\\{\penalty -\@M}
9247         \if@allcaps
9248           \expandafter\uc@nothanks\@title\thanks\relax
9249         \else
9250           \@title
9251         \fi\par}%
9252     \vskip 3em%
9253     {\large
9254       \lineskip .75em \parindent\z@
9255       \begin{tabular}[t]{c}%
9256         \if@allcaps
9257           \expandafter\uc@authornothanks\@author\and\relax
9258         \else
9259           \@author
9260         \fi
9261       \end{tabular}\par}%
9262     \vskip 1.5em%
9263     {\large
9264       \if@allcaps
9265         \uppercase\expandafter{\@date}%
9266       \else
9267         \@date

```



```

9268         \fi\par}%
9269     \end{center}\par
9270     \@thanks
9271     \vfil\null
9272 \end{titlepage}%
9273 \setcounter{footnote}{0}%
9274 \global\let\thanks\relax
9275 \global\let\maketitle\relax
9276 \global\let\@thanks\@empty
9277 \global\let\@author\@empty
9278 \global\let\@title\@empty
9279 \global\let\@date\@empty
9280 \global\let\title\relax
9281 \global\let\author\relax
9282 \global\let\date\relax
9283 \global\let\and\relax
9284 }

```

## 63 File boek-xetex-bidi.def

```

9285 \ProvidesFile{boek-xetex-bidi.def}[2017/06/09 v0.4 bidi adaptations for boek class for XeTeX]
9286 \renewenvironment{theindex}{%
9287     \if@twocolumn
9288         \@restonecolfalse
9289     \else
9290         \@restonecoltrue
9291     \fi
9292     \columnseprule \z@
9293     \columnsep 35\p@
9294     \twocolumn[\@makeschapterhead{\indexname}]%
9295     \mkboth{\MakeUppercase{\indexname}}{\MakeUppercase{\indexname}}%
9296     \thispagestyle{plain}\parindent\z@
9297     \parskip\z@ \@plus .3\p@\relax
9298     \let\item\@idxitem
9299 }{%
9300     \if@restonecol\onecolumn\else\clearpage\fi}
9301 \renewcommand*{\head@style}{%
9302     \interlinepenalty \@M
9303     \hyphenpenalty=\@M \exhyphenpenalty=\@M
9304     \if@RTL\leftskip\else\rightskip\fi=0cm plus .7\hsize\relax}
9305 \renewcommand*{\regtocline}[3]{%
9306     \ifnum #1>\c@tocdepth
9307     \else
9308         \vskip\z@\@plus.2\p@
9309         {\hangindent\z@ \@afterindenttrue \interlinepenalty\@M
9310         \if@RTL\rightskip\else\leftskip\fi\unitindent
9311         \if@RTL\leftskip\else\rightskip\fi\unitindent\@plus 1fil
9312         \parfillskip\z@
9313         \@tempdima\unitindent
9314         \parindent\z@
9315         \leavevmode
9316         \hbox{} \hskip -\if@RTL\rightskip\else\leftskip\fi\relax#2\nobreak
9317         \hskip 1em \nobreak{\slshape #3}\par
9318     }%

```



```

9319 \fi}
9320 \if@oldtoc
9321 \renewcommand*\l@part[2]{%
9322 \ifnum \c@tocdepth >-2\relax
9323 \addpenalty{-\@highpenalty}%
9324 \addvspace{2.25em \@plus\p@}%
9325 \begingroup
9326 \setlength\@tempdima{3em}%
9327 \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
9328 \parfillskip -\@pnumwidth
9329 {\leavevmode
9330 \large \bfseries #1\hfil \hb@xt@\@pnumwidth{\hss #2}}\par
9331 \nobreak
9332 \global\@nobreaktrue
9333 \everypar{\global\@nobreakfalse\everypar{}}%
9334 \endgroup
9335 \fi}
9336 \else
9337 \renewcommand*\l@part{%
9338 \ifnum \c@tocdepth >-2\relax
9339 \addpenalty{-\@highpenalty}%
9340 \addvspace{2.25em \@plus \p@}%
9341 \@regtocline{0}%
9342 \fi}
9343 \fi
9344 \if@oldtoc
9345 \renewcommand*\l@chapter[2]{%
9346 \addpenalty{-\@highpenalty}%
9347 \vskip 1.0em \@plus\p@
9348 \setlength\@tempdima{1.5em}%
9349 \begingroup
9350 \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
9351 \parfillskip -\@pnumwidth
9352 \leavevmode \bfseries
9353 \advance\if@RTL\rightskip\else\leftskip\fi\@tempdima
9354 \hskip -\if@RTL\rightskip\else\leftskip\fi
9355 #1\nobreak\hfil \nobreak\hb@xt@\@pnumwidth{\hss #2}\par
9356 \penalty\@highpenalty
9357 \endgroup}
9358 \else
9359 \renewcommand*\l@chapter{\@regtocline{0}}
9360 \fi
9361 \renewcommand*\left@footnoterule{%
9362 \kern-3\p@
9363 \kern.5\baselineskip
9364 \hrule\@width\unitindent
9365 \kern.4\baselineskip
9366 }
9367 \renewcommand*\right@footnoterule{%
9368 \kern-3\p@
9369 \kern.5\baselineskip
9370 \hbox to \columnwidth{\hskip \dimexpr\columnwidth-\unitindent\relax \hrulefill }
9371 \kern.4\baselineskip}
9372 \renewenvironment{abstract}{%

```



```

9373 \titlepage
9374 \null\vfil
9375 \section*{\SectFont \abstractname}
9376 \noindent\ignorespaces}
9377 {\par\vfil\null\endtitlepage}
9378 \renewenvironment{thebibliography}[1]
9379 {\chapter*{\bibname}%
9380 \mkboth{\MakeUppercase\bibname}{\MakeUppercase\bibname}%
9381 \ifRTL\ifLTRbibitems\RTLfalse\else\fi\else\ifRTLbibitems\RTLtrue\else\fi\fi
9382 \bidi@thebibliography@font@hook%
9383 \list{\@biblabel{\@arabic\c@enumiv}}%
9384 {\settowidth\labelwidth{\@biblabel{#1}}%
9385 \leftmargin\labelwidth
9386 \advance\leftmargin\labelsep
9387 \@openbib@code
9388 \usecounter{enumiv}%
9389 \let\p@enumiv\@empty
9390 \renewcommand*\theenumiv{\@arabic\c@enumiv}}%
9391 \sloppy\clubpenalty4000\widowpenalty4000%
9392 \sfcode`. \@m}
9393 {\def\@noitemerr
9394 {\@latex@warning{Empty `thebibliography' environment}}}%
9395 \endlist}
9396 \renewcommand*\thesection{\thechapter\@SepMark\@arabic\c@section}
9397 \renewcommand*\thesubsection{\thesection\@SepMark\@arabic\c@subsection}
9398 \renewcommand*\thesubsubsection{\thesubsection\@SepMark\@arabic\c@subsubsection}
9399 \renewcommand*\theparagraph{\thesubsubsection\@SepMark\@arabic\c@paragraph}
9400 \renewcommand*\thesubparagraph{\theparagraph\@SepMark\@arabic\c@subparagraph}
9401 \renewcommand*\theequation{%
9402 \ifnum \c@chapter>\z@ \thechapter\@SepMark\fi\@arabic\c@equation}
9403 \renewcommand*\thefigure{%
9404 \ifnum \c@chapter>\z@ \thechapter\@SepMark\fi\@arabic\c@figure}
9405 \renewcommand*\thetable{%
9406 \ifnum \c@chapter>\z@ \thechapter\@SepMark\fi\@arabic\c@table}
9407 \renewcommand*\maketitle{%
9408 \begin{titlepage}%
9409 \let\footnotesize\small
9410 \let\right@footnoterule\relax
9411 \let\left@footnoterule\relax
9412 \let\textwidth\footnoterule\relax
9413 \let \footnote \thanks
9414 \long\def\@makefnmark{\parindent\z@
9415 \def\labelitemi{\textendash}\@revlabeltrue
9416 \leavevmode\@textsuperscript{\@thefnmark}\kern1em\relax ##1}
9417 \renewcommand*\thefootnote{\@fnsymbol\c@footnote}%
9418 \ifcompatibility\setcounter{page}{0}\fi
9419 \null\vfil
9420 \vskip 60\p@
9421 \begin{center}%
9422 \TitleFont
9423 {\LARGE \def\\{\penalty -\@M}
9424 \if@allcaps
9425 \expandafter\uc@nothanks\@title\thanks\relax
9426 \else

```



```

9427         \@title
9428         \fi\par}%
9429     \vskip 3em%
9430     {\large
9431         \lineskip .75em \parindent\z@
9432         \begin{tabular}[t]{c}%
9433             \if@allcaps
9434                 \expandafter\uc@authornothanks\@author\and\relax
9435             \else
9436                 \@author
9437             \fi
9438         \end{tabular}\par}%
9439     \vskip 1.5em%
9440     {\large
9441         \if@allcaps
9442             \uppercase\expandafter{\@date}%
9443         \else
9444             \@date
9445         \fi\par}%
9446     \end{center}\par
9447     \@thanks
9448     \vfil\null
9449 \end{titlepage}%
9450 \setcounter{footnote}{0}%
9451 \global\let\thanks\relax
9452 \global\let\maketitle\relax
9453 \global\let\@thanks\@empty
9454 \global\let\@author\@empty
9455 \global\let\@title\@empty
9456 \global\let\@date\@empty
9457 \global\let\title\relax
9458 \global\let\author\relax
9459 \global\let\date\relax
9460 \global\let\and\relax
9461 }

```

## 64 File `bookest-xetex-bidi.def`

```

9462 \ProvidesFile{bookest-xetex-bidi.def}[2010/07/25 v0.4 bidi adaptations for bookest class for
9463 \def\makechapterhead#1{%
9464     \vspace*{20\p@}
9465     {\parindent \z@ \if@RTL\raggedleft\else\raggedright\fi \normalfont
9466         \ifnum \c@secnumdepth >\m@ne
9467             \if@mainmatter
9468                 {\colorA\huge\scshape \@chapapp\space \thechapter}
9469                 \par\nobreak
9470                 \vskip 10\p@
9471             \fi
9472         \fi
9473         \interlinepenalty\@M
9474     {\colorB\hrule}
9475     \vskip 15\p@
9476     \if@RTL\begin{flushleft}\else\begin{flushright}\fi
9477         {\colorA\Huge \bfseries #1}\par\nobreak

```





```

9478 \if@RTL\end{flushleft}\else\end{flushright}\fi
9479 \vskip 5\p@
9480 {\colorB\hrule}
9481 \vskip 30\p@
9482 }}
9483 \def\@makeschapterhead#1{%
9484 \vspace*{20\p@}
9485 {\parindent \z@ \raggedright \normalfont
9486 {\colorB\hrule}
9487 \vskip 15\p@
9488 \begin{center}
9489 {\colorA\Huge \bfseries #1}\par\nobreak
9490 \end{center}
9491 \vskip 5\p@
9492 {\colorB\hrule}
9493 \vskip 30\p@
9494 }}

```

## 65 File book-xetex-bidi.def

```

9495 \ProvidesFile{book-xetex-bidi.def}[2017/06/09 v1.0 bidi adaptations for standard book class]
9496 \renewenvironment{theindex}
9497     {\if@twocolumn
9498         \@restonecolfalse
9499     \else
9500         \@restonecoltrue
9501     \fi
9502     \columnseprule \z@
9503     \columnsep 35\p@
9504     \twocolumn[\@makeschapterhead{\indexname}]%
9505     \@mkboth{\MakeUppercase\indexname}%
9506             {\MakeUppercase\indexname}%
9507     \thispagestyle{plain}\parindent\z@
9508     \parskip\z@ \@plus .3\p@\relax
9509     \let\item\@idxitem}
9510     {\if@restonecol\onecolumn\else\clearpage\fi}
9511 \ifclassloaded{bookest}{\fi}%
9512 \if@titlepage
9513 \renewcommand\maketitle{\begin{titlepage}%
9514 \let\footnotesize\small
9515 \let\right@footnoterule\relax
9516 \let\left@footnoterule\relax
9517 \let\textwidth@footnoterule\relax
9518 \let \footnote \thanks
9519 \let \LTRfootnote \LTRthanks
9520 \let \RTLfootnote \RTLthanks
9521 \null\vfil
9522 \vskip 60\p@
9523 \begin{center}%
9524 {\LARGE \@title \par}%
9525 \vskip 3em%
9526 {\large
9527 \lineskip .75em%
9528 \begin{tabular}[t]{c}%

```



```

9529         \@author
9530     \end{tabular}\par}%
9531     \vskip 1.5em%
9532     {\large \@date \par}%           % Set date in \large size.
9533 \end{center}\par
9534 \@thanks
9535 \vfil\null
9536 \end{titlepage}%
9537 \setcounter{footnote}{0}%
9538 \global\let\thanks\relax
9539 \global\let\LTRthanks\relax
9540 \global\let\RTLthanks\relax
9541 \global\let\maketitle\relax
9542 \global\let\@thanks\@empty
9543 \global\let\@author\@empty
9544 \global\let\@date\@empty
9545 \global\let\@title\@empty
9546 \global\let\title\relax
9547 \global\let\author\relax
9548 \global\let\date\relax
9549 \global\let\and\relax
9550 }
9551 \else
9552 \renewcommand\maketitle{\par
9553     \begingroup
9554         \renewcommand\thefootnote{\@fnsymbol\c@footnote}%
9555         \def\@makefnmark{\rlap{\@textsuperscript{\normalfont\@thefnmark}}}%
9556         \long\def\@makefntext##1{\parindent 1em\noindent
9557             \hb@xt@1.8em{%
9558                 \hss\@textsuperscript{\normalfont\@thefnmark}}##1}%
9559         \if@twocolumn
9560             \ifnum \col@number=\@one
9561                 \@maketitle
9562             \else
9563                 \twocolumn[\@maketitle]%
9564             \fi
9565         \else
9566             \newpage
9567             \global\@topnum\z@ % Prevents figures from going at top of page.
9568             \@maketitle
9569         \fi
9570         \thispagestyle{plain}\@thanks
9571     \endgroup
9572     \setcounter{footnote}{0}%
9573     \global\let\thanks\relax
9574     \global\let\LTRthanks\relax
9575     \global\let\RTLthanks\relax
9576     \global\let\maketitle\relax
9577     \global\let\@maketitle\relax
9578     \global\let\@thanks\@empty
9579     \global\let\@author\@empty
9580     \global\let\@date\@empty
9581     \global\let\@title\@empty
9582     \global\let\title\relax

```



```

9583 \global\let\author\relax
9584 \global\let\date\relax
9585 \global\let\and\relax
9586 }
9587 \def\@maketitle{%
9588 \newpage
9589 \null
9590 \vskip 2em%
9591 \begin{center}%
9592 \let \footnote \thanks
9593 \let \LTRfootnote \LTRthanks
9594 \let \RTLfootnote \RTLthanks
9595 {\LARGE \@title \par}%
9596 \vskip 1.5em%
9597 {\large
9598 \lineskip .5em%
9599 \begin{tabular}[t]{c}%
9600 \@author
9601 \end{tabular}\par}%
9602 \vskip 1em%
9603 {\large \@date}%
9604 \end{center}%
9605 \par
9606 \vskip 1.5em}
9607 \fi}
9608 \renewcommand*\l@part[2]{%
9609 \ifnum \c@tocdepth >-2\relax
9610 \addpenalty{-\@highpenalty}%
9611 \addvspace{2.25em \@plus\p}%
9612 \setlength\@tempdima{3em}%
9613 \begingroup
9614 \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
9615 \parfillskip -\@pnumwidth
9616 {\leavevmode
9617 \large \bfseries #1\hfil \hb@xt@\@pnumwidth{\hss #2}}\par
9618 \nobreak
9619 \global\@nobreaktrue
9620 \everypar{\global\@nobreakfalse\everypar{}}%
9621 \endgroup
9622 \fi}
9623 \renewcommand*\l@chapter[2]{%
9624 \ifnum \c@tocdepth >\m@ne
9625 \addpenalty{-\@highpenalty}%
9626 \vskip 1.0em \@plus\p@
9627 \setlength\@tempdima{1.5em}%
9628 \begingroup
9629 \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
9630 \parfillskip -\@pnumwidth
9631 \leavevmode \bfseries
9632 \advance\if@RTL\rightskip\else\leftskip\fi\@tempdima
9633 \hskip -\if@RTL\rightskip\else\leftskip\fi
9634 #1\nobreak\hfil \nobreak\hb@xt@\@pnumwidth{\hss #2}\par
9635 \penalty\@highpenalty
9636 \endgroup

```



```

9637 \fi}
9638 \renewcommand\left@footnoterule{%
9639 \kern-3\p@
9640 \hrule\@width.4\columnwidth
9641 \kern2.6\p@}
9642 \renewcommand\right@footnoterule{%
9643 \kern-3\p@
9644 \hbox to \columnwidth{\hskip .6\columnwidth \hrulefill }
9645 \kern2.6\p@}
9646 \renewcommand\theequation
9647 {\ifnum \c@chapter>\z@ \thechapter\@SepMark\fi \@arabic\c@equation}
9648 \renewcommand \thefigure
9649 {\ifnum \c@chapter>\z@ \thechapter\@SepMark\fi \@arabic\c@figure}
9650 \renewcommand \thetable
9651 {\ifnum \c@chapter>\z@ \thechapter\@SepMark\fi \@arabic\c@table}
9652 \renewcommand \thechapter {\@arabic\c@chapter}
9653 \renewcommand \thesection {\thechapter\@SepMark\@arabic\c@section}
9654 \renewcommand \thesubsection {\thesection\@SepMark\@arabic\c@subsection}
9655 \renewcommand \thesubsubsection{\thesubsection \@SepMark\@arabic\c@subsubsection}
9656 \renewcommand \theparagraph {\thesubsubsection\@SepMark\@arabic\c@paragraph}
9657 \renewcommand \thesubparagraph {\theparagraph\@SepMark\@arabic\c@subparagraph}
9658 \def\@makechapterhead#1{%
9659 \vspace*{50\p@}%
9660 {\parindent \z@ \if@RTL\raggedleft\else\raggedright\fi \normalfont
9661 \ifnum \c@secnumdepth >\m@ne
9662 \if@mainmatter
9663 \huge\bfseries \@chapapp\space \thechapter
9664 \par\nobreak
9665 \vskip 20\p@
9666 \fi
9667 \fi
9668 \interlinepenalty\@M
9669 \Huge \bfseries #1\par\nobreak
9670 \vskip 40\p@
9671 }}
9672 \def\@makeschapterhead#1{%
9673 \vspace*{50\p@}%
9674 {\parindent \z@ \if@RTL\raggedleft\else\raggedright\fi
9675 \normalfont
9676 \interlinepenalty\@M
9677 \Huge \bfseries #1\par\nobreak
9678 \vskip 40\p@
9679 }}
9680 \renewcommand\backmatter{%
9681 \if@openright
9682 \cleardoublepage
9683 \else
9684 \clearpage
9685 \fi
9686 \@mainmatterfalse}
9687 \renewenvironment{thebibliography}[1]
9688 {\chapter*{\bibname}%
9689 \@mkboth{\MakeUppercase\bibname}{\MakeUppercase\bibname}%
9690 \if@RTL\if@LTRbibitems\@RTLfalse\else\fi\else\if@RTLbibitems\@RTLtrue\else\fi\fi

```



```

9691 \bidi@thebibliography@font@hook%
9692 \list{\@biblabel{\@arabic\c@enumiv}}%
9693     {\settowidth\labelwidth{\@biblabel{#1}}%
9694      \leftmargin\labelwidth
9695      \advance\leftmargin\labelsep
9696      \@openbib@code
9697      \usecounter{enumiv}}%
9698      \let\p@enumiv\@empty
9699      \renewcommand\theenumiv{\@arabic\c@enumiv}}%
9700 \sloppy
9701 \clubpenalty4000
9702 \@clubpenalty \clubpenalty
9703 \widowpenalty4000%
9704 \sfcode\.\@m}
9705 {\def\@noitemerr
9706   {\@latex@warning{Empty `thebibliography' environment}}}%
9707 \endlist}

```

## 66 File breqn-xetex-bidi.def

```

9708 \ProvidesFile{breqn-xetex-bidi.def}[2016/09/12 v0.2 bidi adaptations for breqn package for X
9709 \def\@dmath[#1]{\ifRTL\@RTLfalse\fi%
9710 \everydisplay\expandafter{\the\everydisplay \display@setup}%
9711 \ifnoskipsec \leavevmode \fi
9712 \ifinlabel \leavevmode \global\@inlabelfalse \fi
9713 \if\eq@group\else\eq@prelim\fi
9714 \setkeys{breqn}{#1}%
9715 \the\eqstyle
9716 \eq@setnumber
9717 \begingroup
9718 \eq@setup@a
9719 \eq@startup
9720 }
9721 \def\@dgroup[#1]{\ifRTL\@RTLfalse\fi%
9722 \let\eq@group\@True \global\let\eq@GRP@first@dmath\@True
9723 \global\GRP@queue\@emptytoks \global\setbox\GRP@box\box\voidb@x
9724 \global\let\GRP@label\@empty
9725 \global\grp@wdL\z@\global\grp@wdR\z@\global\grp@wdT\z@
9726 \global\grp@linewidth\z@\global\grp@wdNum\z@
9727 \global\let\grp@eqs@numbered\@False
9728 \global\let\grp@aligned\@True
9729 \global\let\grp@shiftnumber\@False
9730 \eq@prelim
9731 \setkeys{breqn}{#1}%
9732 \if\grp@hasNumber \grp@setnumber \fi
9733 }
9734 \def\@dseries[#1]{\ifRTL\@RTLfalse\fi%
9735 \let\display@setup\dseries@display@setup
9736 % Question: should this be the default for dseries???
9737 \global\eq@wdCond\z@
9738 \@dmath[layout={M},#1]%
9739 \mathsurround\z@\@math \penalty\@Mi
9740 \let\endmath\ends@math
9741 \def\premath{%

```



```

9742 \ifdim\lastskip<.3em \unskip
9743 \else\ifnum\lastpenalty<\@M \dquad\fi\fi
9744 }%
9745 \def\postmath{\unpenalty\eq@addpunct \penalty\intermath@penalty \dquad \@ignoretrue}%
9746 \ignorespaces
9747 }
9748 \def\eqnumform#1{\if@nonlatin\beginR\@RTLtrue\fi(#1\@@italiccorr)\if@nonlatin\endR\fi}
9749 \renewenvironment{dsuspend}{}%
9750 \global\setbox\EQ@box\vbox\bgroup\if@nonlatin\@RTLtrue\fi \@parboxrestore
9751 \parshape 1 \displayindent \displaywidth\relax
9752 \hsize=\columnwidth \noindent\ignorespaces
9753 }{%
9754 \par\egroup
9755 \global\setbox\GRP@box\vbox{%
9756 \hbox{\copy\EQ@box\vtop{\unvbox\EQ@box}}%
9757 \unvbox\GRP@box
9758 }%
9759 \global\GRP@queue\@xp{\the\GRP@queue
9760 \@elt{\let\eq@isIntertext\@True}}%
9761 }%
9762 }

```

## 67 File cals-xetex-bidi.def

```

9763 \ProvidesFile{cals-xetex-bidi.def}[2016/11/30 v0.4 bidi adaptations for cals package for XeT
9764 \renewcommand\cals@setup@alignment[1]{%
9765 \if c#1\relax \cals@vfillAdd \leftskip \cals@vfillAdd \rightskip \fi
9766 \if l#1\relax \cals@vfillDrop\leftskip \cals@vfillDrop\rightskip \fi
9767 \if r#1\relax \cals@vfillAdd \leftskip \cals@vfillDrop\rightskip \fi
9768 }
9769 \renewcommand\cals@table@alignment{\if@RTLtab r\else l\fi}
9770 \renewenvironment{calstable}[1][\cals@table@alignment]{%
9771 \if@RTLtab\cals@activate@rtl\fi
9772 \let\cals@thead@tokens=\relax
9773 \let\cals@tfoot@tokens=\relax
9774 \let\cals@tbody@tokens=\relax
9775 \cals@tfoot@height=0pt \relax
9776 \let\cals@last@context=n%
9777 \let\cals@current@context=b%
9778 \parindent=0pt \relax%
9779 \cals@setup@alignment{#1}%
9780 \cals@setpadding{Ag}\cals@setcellprevdepth{Al}\cals@set@tohsize%
9781 %% Alignment inside is independent on center/flushright outside
9782 \parfillskip=0pt plus1fil\relax
9783 \let\cals@borderL=\relax
9784 \let\cals@borderR=\relax
9785 \let\cals@borderT=\relax
9786 \let\cals@borderB=\relax
9787 \setbox\cals@backup@row=\box\voidb@x\relax
9788 \cals@AtBeginTable
9789 }{% End of the table
9790 \cals@tfoot@tokens\lastrule\cals@AtEndTable}
9791 \renewcommand\alignL{%
9792 \if@RTLtab

```



```

9793 \cals@vfillAdd\cals@paddingL
9794 \else
9795 \cals@vfillDrop\cals@paddingL
9796 \fi
9797 \cals@vfillDrop\cals@paddingR}
9798 \renewcommand\alignR{%
9799 \if@RTLtab
9800 \cals@vfillDrop\cals@paddingL
9801 \else
9802 \cals@vfillAdd\cals@paddingL
9803 \fi
9804 \cals@vfillDrop\cals@paddingR}

```

## 68 File caption-xetex-bidi.def

```

9805 \ProvidesFile{caption-xetex-bidi.def}[2010/07/25 v0.1 bidi adaptations for caption package f
9806 \let\makecaption\caption@makecaption

```

## 69 File caption3-xetex-bidi.def

```

9807 \ProvidesFile{caption3-xetex-bidi.def}[2013/04/01 v0.1 bidi adaptations for caption3 package
9808 \renewcommand*\caption@par{%
9809 \parindent\caption@parindent\hangindent\if@RTL-\fi\caption@hangindent}%

```

## 70 File colortbl-xetex-bidi.def

```

9810 \ProvidesFile{colortbl-xetex-bidi.def}[2012/06/10 v0.2 bidi adaptations for colortbl package
9811 \def\CT@setup{%
9812 \@tempdimb\col@sep
9813 \@tempdimc\col@sep
9814 \def\CT@color{%
9815 \global\let\CT@do@color\CT@@do@color
9816 \bidicolor}}
9817 \def\@classz{\@classx
9818 \@tempcnta \count@
9819 \prepnext@tok
9820 \expandafter\CT@extract\the\toks\@tempcnta\columncolor!\@nil
9821 \@addtopreamble{\if@RTLtab\beginL\fi%
9822 \setbox\z@\hbox\bgroup\bgroup\if@RTLtab\beginR\fi
9823 \ifcase \@chnum
9824 \hskip\stretch{.5}\kern\z@
9825 \d@llarbegin
9826 \insert@column
9827 \d@llarend\hskip\stretch{.5}\or
9828 \d@llarbegin \insert@column \d@llarend \hfill \or
9829 \hfill\kern\z@ \d@llarbegin \insert@column \d@llarend \or
9830 $\vcenter
9831 \@startpbox{\@nextchar}\insert@column \@endpbox $\or
9832 \vtop \@startpbox{\@nextchar}\insert@column \@endpbox \or
9833 \vbox \@startpbox{\@nextchar}\insert@column \@endpbox
9834 \fi
9835 \if@RTLtab\endR\fi\egroup\egroup
9836 \begingroup
9837 \CT@setup

```



```

9838 \CT@column@color
9839 \CT@row@color
9840 \CT@cell@color
9841 \CT@do@color
9842 \endgroup
9843 \@tempdima\ht\z@
9844 \advance\@tempdima\minrowclearance
9845 \vrule\@height\@tempdima\@width\z@
9846 \unhbox\z@\if@RTLtab\endL\fi}%
9847 \prepnext@tok}

```

## 71 File color-xetex-bidi.def

```

9848 \ProvidesFile{color-xetex-bidi.def}[2013/04/08 v0.2 bidi adaptations for color package for Xe
9849 \long\def\color@box#1#2#3{%
9850 \leavevmode\ifmmode\else\if@RTL\beginL\fi\fi
9851 \setbox\z@\hbox{\kern\fbboxsep\set@color\if@RTL\beginR\fi#3\if@RTL\endR\fi}\kern\fbboxsep}%
9852 \dimen@ \ht\z@\advance\dimen@\fbboxsep\ht\z@\dimen@
9853 \dimen@ \dp\z@\advance\dimen@\fbboxsep\dp\z@\dimen@
9854 {#1{#2\color@block{\wd\z@}{\ht\z@}{\dp\z@}%
9855 \box\z@}}\ifmmode\else\if@RTL\endL\fi\fi}
9856 \def\normalcolor{\let\current@color\default@color\ifhmode\if@RTL\beginL\aftergroup\endR\fi\fi}
9857 \DeclareRobustCommand\color{%
9858 \ifhmode\if@RTL\beginL\aftergroup\endR\fi\fi@ifnextchar[\@undeclaredcolor\@declaredcolor}%
9859 \def\@declaredcolor#1{%
9860 \@ifundefined{\string\color @#1}%
9861 {\c@lor@error{`#1'}}%
9862 {\expandafter\let\expandafter\current@color
9863 \csname\string\color @#1\endcsname
9864 \set@color}%
9865 \ifhmode\if@RTL\beginR\aftergroup\endL\fi\fi\ignorespaces}
9866 \def\@undeclaredcolor[#1]#2{%
9867 \@ifundefined{color@#1}%
9868 {\c@lor@error{model `#1'}}%
9869 {\csname color@#1\endcsname\current@color{#2}%
9870 \set@color}%
9871 \ifhmode\if@RTL\beginR\aftergroup\endL\fi\fi\ignorespaces}
9872 \DeclareRobustCommand\bidicolor{%
9873 \@ifnextchar[\@bidiundeclaredcolor\@bidideclaredcolor}%
9874 \def\@bidiundeclaredcolor[#1]#2{%
9875 \@ifundefined{color@#1}%
9876 {\c@lor@error{model `#1'}}%
9877 {\csname color@#1\endcsname\current@color{#2}%
9878 \set@color}%
9879 \ignorespaces}
9880 \def\@bidideclaredcolor#1{%
9881 \@ifundefined{\string\color @#1}%
9882 {\c@lor@error{`#1'}}%
9883 {\expandafter\let\expandafter\current@color
9884 \csname\string\color @#1\endcsname
9885 \set@color}%
9886 \ignorespaces}
9887 \def\color@box#1#2{\color@box\relax{\bidicolor#1{#2}}}
9888 \def\color@fbbox#1#2#3{%

```





```

9889 \color@b@x{\fboxsep\z@\bidicolor#1{#2}\fbox}{\bidicolor#1{#3}}
9890 \def\color@setgroup{\begingroup\ifhmode\if@RTL\beginL\aftergroup\endR\fi\fi\set@color\ifhmode

```

## 72 File combine-xetex-bidi.def

```

9891 \ProvidesFile{combine-xetex-bidi.def}[2011/09/23 v0.1 bidi adaptations for combine class for
9892 \renewcommand{\c@ll@chapsecii}[2]{%
9893 \if@RTL\advance\rightskip\@tempdima\else\advance\leftskip\@tempdima\fi
9894 \if@RTL\hskip -\rightskip\else\hskip -\leftskip\fi
9895 #1\nobreak\hfil \nobreak\hb@xt@\@pnumwidth{\hss #2}\par
9896 }
9897 \renewcommand{\c@ll@chapseci}{%
9898 \setlength\@tempdima{0em}%
9899 \begingroup
9900 \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
9901 \parfillskip -\@pnumwidth
9902 \leavevmode
9903 }
9904 \renewenvironment{tocindent}[1]{%
9905 \hangindent \if@RTL-\fi#1 \hangafter -100\relax}{%

```

## 73 File crop-xetex-bidi.def

```

9906 \ProvidesFile{crop-xetex-bidi.def}[2013/04/10 v0.2 bidi adaptations for crop package for XeT
9907 \renewcommand*\CROP@ulc{%
9908 \if@RTLmain%
9909 \begin{picture}(0,0)
9910 \unitlength\p@\thinline
9911 \put(-40,0){\circle{10}}
9912 \put(-30,-5){\line(0,1){10}}
9913 \put(-35,0){\line(1,0){30}}
9914 \put(-10,30){\circle{10}}
9915 \put(-5,30){\line(1,0){10}}
9916 \put(0,35){\line(0,-1){30}}
9917 \end{picture}%
9918 \else%
9919 \begin{picture}(0,0)
9920 \unitlength\p@\thinline
9921 \put(-30,0){\circle{10}}
9922 \put(-30,-5){\line(0,1){10}}
9923 \put(-35,0){\line(1,0){30}}
9924 \put(0,30){\circle{10}}
9925 \put(-5,30){\line(1,0){10}}
9926 \put(0,35){\line(0,-1){30}}
9927 \end{picture}%
9928 \fi%
9929 }
9930 \renewcommand*\CROP@urc{%
9931 \if@RTLmain%
9932 \begin{picture}(0,0)
9933 \unitlength\p@\thinline
9934 \put(20,0){\circle{10}}
9935 \put(30,-5){\line(0,1){10}}
9936 \put(35,0){\line(-1,0){30}}

```



```

9937         \put(-10,30){\circle{10}}
9938         \put(-5,30){\line(1,0){10}}
9939         \put(0,35){\line(0,-1){30}}
9940     \end{picture}%
9941 \else%
9942     \begin{picture}(0,0)
9943         \unitlength\p@\thinline
9944         \put(30,0){\circle{10}}
9945         \put(30,-5){\line(0,1){10}}
9946         \put(35,0){\line(-1,0){30}}
9947         \put(0,30){\circle{10}}
9948         \put(-5,30){\line(1,0){10}}
9949         \put(0,35){\line(0,-1){30}}
9950     \end{picture}%
9951 \fi%
9952 }
9953 \renewcommand*\CROP@llc{%
9954     \if@RTLmain%
9955         \begin{picture}(0,0)
9956             \unitlength\p@\thinline
9957             \put(-40,0){\circle{10}}
9958             \put(-30,-5){\line(0,1){10}}
9959             \put(-35,0){\line(1,0){30}}
9960             \put(-10,-30){\circle{10}}
9961             \put(-5,-30){\line(1,0){10}}
9962             \put(0,-35){\line(0,1){30}}
9963         \end{picture}%
9964     \else%
9965         \begin{picture}(0,0)
9966             \unitlength\p@\thinline
9967             \put(-30,0){\circle{10}}
9968             \put(-30,-5){\line(0,1){10}}
9969             \put(-35,0){\line(1,0){30}}
9970             \put(0,-30){\circle{10}}
9971             \put(-5,-30){\line(1,0){10}}
9972             \put(0,-35){\line(0,1){30}}
9973         \end{picture}%
9974     \fi%
9975 }
9976 \renewcommand*\CROP@lrc{%
9977     \if@RTLmain%
9978         \begin{picture}(0,0)
9979             \unitlength\p@\thinline
9980             \put(20,0){\circle{10}}
9981             \put(30,-5){\line(0,1){10}}
9982             \put(35,0){\line(-1,0){30}}
9983             \put(-10,-30){\circle{10}}
9984             \put(-5,-30){\line(1,0){10}}
9985             \put(0,-35){\line(0,1){30}}
9986         \end{picture}%
9987     \else%
9988         \begin{picture}(0,0)
9989             \unitlength\p@\thinline
9990             \put(30,0){\circle{10}}

```



```

9991      \put(30,-5){\line(0,1){10}}
9992      \put(35,0){\line(-1,0){30}}
9993      \put(0,-30){\circle{10}}
9994      \put(-5,-30){\line(1,0){10}}
9995      \put(0,-35){\line(0,1){30}}
9996  \end{picture}%
9997  \fi%
9998 }
9999 \@ifpackagewith{crop}{cam}{%
10000 \CROP@execopt{cam}%
10001 }{}

```

## 74 File cutwin-xetex-bidi.def

```

10002 \ProvidesFile{cutwin-xetex-bidi.def}[2011/11/12 v0.1 bidi adaptations for cutwin package for
10003 \renewcommand*{\c@twcompctr}[2]{%
10004   \def\c@twfirst{1}
10005   \loop\advance\c@twwinlines\m@ne
10006   \setbox\c@twslicea=\vsplit#1 to\baselineskip
10007   \setbox\c@twsliceb=\vsplit#1 to\baselineskip
10008   \c@twprune{\c@twslicea}{\c@twlftside}%
10009   \c@twprune{\c@twsliceb}{\c@twrtside}%
10010   \ifnum\c@twfirst=\@ne
10011     \setbox#2=\vbox{\unvbox#2\hbox
10012       to\hsize{\if@RTL\box\c@twsliceb\else\box\c@twslicea\fi\pageinwindow\hfil\if@RTL\box\c@tw
10013     \else
10014       \setbox#2=\vbox{\unvbox#2\hbox
10015       to\hsize{\if@RTL\box\c@twsliceb\else\box\c@twslicea\fi\hfil\if@RTL\box\c@twslicea\else\box\c@tw
10016     \fi
10017   \def\c@twfirst{2}
10018   \ifnum\c@twwinlines>\z@\repeat}
10019 \renewcommand*{\c@twcompodctr}[2]{%
10020   \def\c@twrounds{1}
10021   \def\c@twfirst{1}
10022   \@for\c@twlspec:=\c@twb\do{%
10023     \ifnum\c@twrounds=1
10024       \setbox\c@twslicea=\vsplit#1 to\baselineskip % first of pair
10025       \c@twprune{\c@twslicea}{\c@twlspec}%
10026       \def\c@twrounds{2}
10027     \else
10028       \setbox\c@twsliceb=\vsplit#1 to\baselineskip % second of pair
10029       \c@twprune{\c@twsliceb}{\c@twlspec}%
10030       \ifnum\c@twfirst=1
10031         \setbox#2=\vbox{\unvbox#2\hbox
10032           to\hsize{\if@RTL\box\c@twsliceb\else\box\c@twslicea\fi\hfil\picinwindow\hfil\if@RTL\box\c@tw
10033         \def\c@twfirst{2}
10034       \else
10035         \setbox#2=\vbox{\unvbox#2\hbox
10036           to\hsize{\if@RTL\box\c@twsliceb\else\box\c@twslicea\fi\hfil\if@RTL\box\c@twslicea\else\box\c@tw
10037       \fi
10038       \def\c@twrounds{1}
10039     \fi}}

```



## 75 File cuted-xetex-bidi.def

```

10040 \ProvidesFile{cuted-xetex-bidi.def}[2022/02/18 v0.7 bidi adaptations for cuted package for X
10041
10042 \def\RTL@outputdblcol{%
10043   \if@firstcolumn
10044     \global\@firstcolumnfalse
10045     \global\setbox\@leftcolumn\copy\@outputbox
10046     \splitmaxdepth\maxdimen
10047     \vbadness\maxdimen
10048     \setbox\@outputbox\vbox{\unvbox\@outputbox\unskip}%
10049     \setbox\@outputbox\vsplit\@outputbox to\maxdimen
10050     \toks@{\expandafter{\topmark}}%
10051     \xdef\@firstcoltopmark{\the\toks@}%
10052     \toks@\expandafter{\splitfirstmark}%
10053     \xdef\@firstcolfirstmark{\the\toks@}%
10054     \ifx\@firstcolfirstmark\@empty
10055       \global\let\@setmarks\relax
10056     \else
10057       \gdef\@setmarks{%
10058         \let\firstmark\@firstcolfirstmark
10059         \let\topmark\@firstcoltopmark}%
10060     \fi
10061   \else
10062     \global\@firstcolumntrue
10063     \setbox\@outputbox\vbox{%
10064       \hb@xt@\textwidth{%
10065         \hskip \columnwidth
10066         \hfil
10067         {\normalcolor\vrule \@width\columnseprule}%
10068         \hfil
10069         \hb@xt@\columnwidth{%
10070           \bidi@firstcolumn@status@write%
10071           \box\@leftcolumn \hss}%
10072         \hskip -\textwidth
10073         \hb@xt@\columnwidth{%
10074           \bidi@lastcolumn@status@write%
10075           \box\@outputbox \hss}%
10076         \hskip \columnsep
10077         \hskip \columnwidth }}%
10078     \ifvoid\hold@viper
10079     \else
10080       \setbox\@outputbox \vbox to\textheight{%
10081         \box\hold@viper
10082         \box\@outputbox
10083         \vss
10084       }%
10085     \fi
10086   \@combinedblfloats
10087   \@setmarks
10088   \@outputpage
10089   \begingroup
10090   \@dblfloatplacement
10091   \@startdblcolumn

```



```

10092     \@whilesw\if@fcolmade \fi{\@outputpage
10093     \@startdblcolumn}%
10094     \ifvoid\@viper
10095     \else
10096         \global\setbox\@viper\vbox{%
10097             \vskip-\stripsep
10098             \unvbox\@viper
10099             }%
10100         \@viperoutput
10101     \fi
10102     \endgroup
10103 \fi}%
10104
10105 \def\LTR@outputdblcol{%
10106     \if@firstcolumn
10107         \global\@firstcolumnfalse
10108         \global\setbox\@leftcolumn\copy\@outputbox
10109         \splitmaxdepth\maxdimen
10110         \vbadness\maxdimen
10111         \setbox\@outputbox\vbox{\unvbox\@outputbox\unskip}%
10112         \setbox\@outputbox\vsplit\@outputbox to\maxdimen
10113         \toks@\expandafter{\topmark}%
10114         \xdef\@firstcoltopmark{\the\toks@}%
10115         \toks@\expandafter{\splitfirstmark}%
10116         \xdef\@firstcolfirstmark{\the\toks@}%
10117         \ifx\@firstcolfirstmark\@empty
10118             \global\let\@setmarks\relax
10119         \else
10120             \gdef\@setmarks{%
10121                 \let\firstmark\@firstcolfirstmark
10122                 \let\topmark\@firstcoltopmark}%
10123         \fi
10124     \else
10125         \global\@firstcolumntrue
10126         \setbox\@outputbox\vbox{%
10127             \hb@xt@\textwidth{%
10128                 \hb@xt@\columnwidth{%
10129                     \bidi@firstcolumn@status@write%
10130                     \box\@leftcolumn \hss}%
10131                 \hfil
10132                 {\normalcolor\vrule \@width\columnseprule}%
10133                 \hfil
10134                 \hb@xt@\columnwidth{%
10135                     \bidi@lastcolumn@status@write%
10136                     \box\@outputbox \hss}}}%
10137         \ifvoid\hold@viper
10138         \else
10139             \setbox\@outputbox \vbox to\textheight{%
10140                 \box\hold@viper
10141                 \box\@outputbox
10142                 \vss
10143                 }%
10144         \fi
10145     \@combinedblfloats

```



```

10146 \setmarks
10147 \@outputpage
10148 \beginingroup
10149 \@dblfloatplacement
10150 \startdblcolumn
10151 \@whiles\if@fcolmade \fi{\@outputpage
10152 \startdblcolumn}%
10153 \ifvoid\@viper
10154 \else
10155 \global\setbox\@viper\vbox{%
10156 \vskip-\stripsep
10157 \unvbox\@viper
10158 }%
10159 \@viperoutput
10160 \fi
10161 \endgroup
10162 \fi}%
10163
10164 \def\@addviper{%
10165 \insertfalse
10166 \def\var@thecol@num{2}%
10167 \if@firstcolumn
10168 \def\var@thecol@num{1}%
10169 \@reqcolroom=.5\@pageht
10170 \ht@viper=\@reqcolroom
10171 \advance\@reqcolroom by\ht\@viper
10172 \advance\@reqcolroom by\stripsep
10173 \else
10174 \@reqcolroom=\@colht
10175 \advance\@reqcolroom by\@pageht
10176 \ht@viper.5\@reqcolroom
10177 \@reqcolroom=\ht@viper
10178 \advance\@reqcolroom by\ht\@viper
10179 \advance\@reqcolroom by\stripsep
10180 \global\setbox\@holdpg\vbox{%
10181 \setbox\cuted@tempbox@a\vbox{%
10182 \aftergroup\unvbox
10183 \unvcopy\@leftcolumn
10184 \unskip\unkern\unpenalty
10185 \setbox\@tempbox@a\lastbox
10186 \ifdim\dimexpr\ht\@tempbox+a\wd\@tempbox+a\dp\@tempbox>\z@
10187 %% keeps lastbox
10188 \aftergroup\@leftcolumn
10189 \else
10190 %% removes lastbox
10191 \aftergroup\cuted@tempbox@a
10192 \fi
10193 }%
10194 \unskip\unkern\unpenalty
10195 \on@stripcols@break
10196 \the\At@ViperColsBreak
10197 \unvbox\@holdpg
10198 }%
10199 \global\At@ViperColsBreak{}}%

```



```

10200      \ht@viper=.5\ht\@holdpg
10201      \ifdim\ht@viper>\@colht
10202          \ht@viper=\@colht
10203      \fi
10204  \fi
10205  %%
10206  %% calculations for breaking
10207  %%
10208  \ifvoid\hold@viper
10209      \ht@hold@viper=\z@
10210  \else
10211      \ht@hold@viper=\ht\hold@viper
10212  \fi
10213  \cuted@@tempdim@b\ht@viper
10214  \set@split@topskip@to\topskip
10215  \loop
10216      \xdef\saved@tempdimb{\the\cuted@@tempdim@b}%
10217      \setbox\cuted@@varbox@a\copy\@holdpg
10218      \setbox\cuted@@tempbox@a\vsplit\cuted@@varbox@a to\cuted@@tempdim@b
10219      %% set leftcolumn boxes
10220      \setbox\cuted@@tempbox@c\vbox{\unvbox\cuted@@tempbox@a}%
10221      \setbox\cuted@@tempbox@a\vbox to\cuted@@tempdim@b{\unvcopy\cuted@@tempbox@c}%
10222      \xdef\var@@leftcolumn@badness{\the\badness}%
10223      %% set rightcolumn boxes
10224      \setbox\cuted@@varbox@c\vbox{\unvbox\cuted@@varbox@a}%
10225      \setbox\cuted@@varbox@a\vbox to\cuted@@tempdim@b{\unvcopy\cuted@@varbox@c}%
10226      \xdef\var@@rightcolumn@badness{\the\badness}%
10227      %% analyzing split goodness
10228      \cuted@@tempdim@spread=\ht\cuted@@tempbox@c
10229      \advance\cuted@@tempdim@spread by\dp\cuted@@tempbox@c
10230      \advance\cuted@@tempdim@spread by-\ht\cuted@@varbox@c
10231      \advance\cuted@@tempdim@spread by-\dp\cuted@@varbox@c
10232      \cuted@@wlog@debug{CUTED [----]}%
10233      ^^JLeft: \the\ht\cuted@@tempbox@c
10234      +\the\dp\cuted@@tempbox@c\space/\var@@leftcolumn@badness
10235      ^^JRight: \the\ht\cuted@@varbox@c
10236      +\the\dp\cuted@@varbox@c\space/\var@@rightcolumn@badness
10237      ^^JSplit: \the\cuted@@tempdim@b
10238      ^^JExtra height: \the\cuted@@tempdim@spread
10239      }%
10240      \ifnum\var@@leftcolumn@badness<\cuted@@column@badness
10241          \ifnum\var@@rightcolumn@badness<\cuted@@column@badness
10242              \cuted@@tempdim@spread=\z@
10243          \fi
10244      \fi
10245      \ifdim\cuted@@tempdim@spread<\z@
10246          \if@leftcolumn@spread
10247              \if@rightcolumn@shrink
10248                  \ifdim\dimexpr\cuted@@tempdim@spread+\pageshrink>\z@
10249                      \cuted@@tempdim@a=\dimexpr\ht\cuted@@tempbox@c-0.5\cuted@@tempdim@spread+\pageshrink>\z@
10250                  \else
10251                      \cuted@@tempdim@a=-\dimexpr\cuted@@tempdim@spread+.5\pageshrink\relax
10252                  \fi
10253              \setbox\cuted@@varbox@a\vbox to\cuted@@tempdim@a{\unvcopy\cuted@@tempbox@c}

```



```

10254         \ifnum\badness<\cuted@@column@badness
10255             \cuted@@tempdim@b=\cuted@@tempdim@a
10256             \cuted@@tempdim@spread=\z@
10257         \fi
10258         \cuted@@wlog@debug{CUTED [leftcolumn badness]: \number\badness\space on
10259         \setbox\cuted@@varbox@a\vbox to\cuted@@tempdim@a{\unvcopy\cuted@@varbox@c
10260         \cuted@@wlog@debug{CUTED [rightcolumn badness]: \number\badness\space on
10261     \else
10262         \setbox\cuted@@varbox@a\vbox to\ht\cuted@@varbox@c{%
10263             \unvcopy\cuted@@tempbox@c
10264         }%
10265         \ifnum\badness<\cuted@@column@badness
10266             \@tempdimb=\ht\cuted@@varbox@c
10267             \cuted@@tempdim@spread=\z@
10268         \fi
10269         \cuted@@wlog@debug{CUTED [leftcolumn badness]: \number\badness on \the\h
10270         \setbox\cuted@@varbox@a\vbox to\ht\cuted@@varbox@c{%
10271             \unvcopy\cuted@@varbox@c
10272         }%
10273         \cuted@@wlog@debug{CUTED [rightcolumn badness]: \number\badness on \the\
10274     \fi
10275     \else
10276         \if@right@column@shrink
10277             \ifdim\dimexpr\cuted@@tempdim@spread+\pageshrink<\z@
10278             \else
10279                 \cuted@@tempdim@b=\ht\cuted@@tempbox@c
10280                 \cuted@@tempdim@spread=\z@
10281             \fi
10282         \fi
10283     \fi
10284     \else
10285         \ifdim\cuted@@tempdim@spread>\z@
10286             \ifdim\dimexpr\@tempdimb+\p@>\relax>\@colht
10287                 \cuted@@tempdim@b=\@colht
10288                 \cuted@@tempdim@spread=\z@
10289             \fi
10290         \fi
10291     \fi
10292     \ifdim\cuted@@tempdim@spread<\z@
10293         \advance\cuted@@tempdim@b 1\p@
10294     \repeat
10295     \wlog{CUTED [- LAST -]}%
10296     ^^JExtra skip:\the\cuted@@tempdim@spread
10297     ^^JLeft:\the\ht\cuted@@tempbox@c/\the\dp\cuted@@tempbox@c
10298     ^^JRight:\the\ht\cuted@@varbox@c/\the\dp\cuted@@varbox@c
10299     ^^JSplit: \saved@tempdimb
10300     ^^JOutput:\the\cuted@@tempdim@b
10301     ^^JPageshrink: \the\pageshrink
10302     ^^JPagestretch: \the\pagestretch
10303     ^^J@colht:\the\@colht
10304     }%
10305 %%
10306 %% final construction of the cuted page above strip
10307 %%

```





```

10308 \setbox\cuted@@tempbox@c\vsplit\@holdpg to\saved@tempdimb
10309 \setbox\cuted@@tempbox@a\vbox to\cuted@@tempdim@b{%
10310   \cuted@@tempdim@a=\dimexpr
10311     \cuted@@tempdim@b-\ht\cuted@@tempbox@c
10312   \relax
10313   \cuted@@tempdim@spread=\dp\cuted@@tempbox@c
10314   \unvbox\cuted@@tempbox@c
10315   \ifdim\cuted@@tempdim@spread>\dp\strutbox
10316   \else
10317     \vskip-\cuted@@tempdim@spread
10318   \fi
10319   \prevdepth\z@
10320   \hrule\@height\cuted@@page@rule width\textwidth
10321   \vskip-\cuted@@page@rule
10322   \ifdim\cuted@@tempdim@a>\z@
10323     \if@left@column@spread
10324     \else
10325       \vss
10326     \fi
10327   \else
10328     \ifdim\cuted@@tempdim@a<\z@
10329       \if@left@column@shrink
10330       \else
10331         \vss
10332       \fi
10333     \fi
10334   \fi
10335 }%
10336 \wlog{CUTED [output]: \the\cuted@@tempdim@b
10337   ^^JCUTED [leftcolumn badness]: \number\badness
10338 }%
10339 \setbox\cuted@@varbox@a\vbox to\cuted@@tempdim@b{%
10340   \cuted@@tempdim@a=\dimexpr
10341     \cuted@@tempdim@b-\ht\@holdpg
10342   \relax
10343   \unvbox\@holdpg
10344   \ifdim\cuted@@tempdim@a>\z@
10345     \if@right@column@spread
10346     \else
10347       \vss
10348     \fi
10349   \else
10350     \ifdim\cuted@@tempdim@a<\z@
10351       \if@right@column@shrink
10352       \else
10353         \vss
10354       \fi
10355     \fi
10356   \fi
10357 }%
10358 \wlog{CUTED [rightcolumn badness]: \number\badness}%
10359 \setbox\cuted@@tempbox@var\vbox{%
10360   \hb@xt@\textwidth{%
10361     \if@RTLmain

```



```

10362         \hskip \columnwidth
10363         \hfil
10364         {\normalcolor\vrule \@width\columnseprule}%
10365         \hfil
10366         \hb@xt@\columnwidth{%
10367             \vbox to\ht@viper{\box\cuted@@tempbox@a\vss}%
10368             \hss
10369         }%
10370         \hskip -\textwidth
10371         \hb@xt@\columnwidth{%
10372             \vbox to\ht@viper{\box\cuted@@varbox@a\vss}%
10373             \hss
10374         }%
10375         \hskip \columnsep
10376         \hskip \columnwidth
10377     \else
10378         \hb@xt@\columnwidth{%
10379             \vbox to\ht@viper{\box\cuted@@tempbox@a\vss}%
10380             \hss
10381         }%
10382         \hfil
10383         {\normalcolor\vrule \@width\columnseprule}%
10384         \hfil
10385         \hb@xt@\columnwidth{%
10386             \vbox to\ht@viper{\box\cuted@@varbox@a\vss}%
10387             \hss
10388         }%
10389     \fi
10390     }%
10391 }%
10392 %%
10393 %% finalize cuted page
10394 %%
10395 \ifvoid\hold@viper
10396     \global\setbox\hold@viper\vbox{%
10397         \unvbox\cuted@@tempbox@var
10398         \penalty\interlinepenalty
10399         \vskip\stripsep
10400         \the\preCutedStrip
10401         \ifnum\outputpenalty<-\@Mii
10402             \vskip -\parskip
10403         \fi
10404         \outputpenalty\z@
10405     }%
10406 \else
10407     \global\setbox\hold@viper\vbox{%
10408         \unvbox\hold@viper
10409         \cuted@@tempbox@var
10410         \penalty\interlinepenalty
10411         \vskip\stripsep
10412         \the\preCutedStrip
10413         \ifnum\outputpenalty<-\@Mii
10414             \vskip -\parskip
10415         \fi

```



```

10416         \outputpenalty\z@
10417     }%
10418 \fi
10419 \ifdim\@colht>\@reqcolroom
10420     \global\setbox\hold@viper\vbox{%
10421         \unvbox\hold@viper
10422         \box\@viper
10423         \penalty\interlinepenalty
10424         \the\postCutedStrip
10425         \vskip\stripsep
10426         \ifnum\outputpenalty<-\@Mii
10427             \vskip -\parskip
10428         \fi
10429         \outputpenalty\z@
10430     }%
10431 \inserttrue
10432 \global\@firstcolumntrue
10433 \advance\ht@hold@viper by-\ht\hold@viper
10434 \global\advance\@colht by\ht@hold@viper
10435 \ifdim\@colht<2.5\baselineskip
10436     \@latex@warning@no@line {Optional argument of \noexpand\twocolumn
10437                             too tall on page \thepage (\var@@thecol@num column)}}%
10438     \@emptycol
10439     \if@firstcolumn
10440     \else
10441         \@emptycol
10442     \fi
10443     \global\@lastvipertrue
10444 \else
10445     \global\ysize\@colht
10446     \global\@colroom\@colht
10447     \check@floats@cuted@@tempdim@a
10448     \ifdim\cuted@@tempdim@a>\z@
10449         \global\advance\@colroom by-\cuted@@tempdim@a
10450     \fi
10451     \ifdim\@colroom<\z@
10452         \global\@colroom1p@
10453         \ifdim\cuted@@tempdim@a>\@colht
10454             \@latex@warning@no@line{TOP and/or BOT FLOAT's
10455                                     to large on \thepage (\var@@thecol@num column)}}%
10456         \fi
10457         \@emptycol
10458         \if@firstcolumn
10459         \else
10460             \@emptycol
10461         \fi
10462         \global\@lastvipertrue
10463     \fi
10464 \fi
10465 \fi
10466 \if@insert
10467 \else
10468     \advance\ht@hold@viper by-\ht\hold@viper
10469     \global\advance\@colht by\ht@hold@viper

```



```

10470      \global\setbox\hold@viper\vbox{%
10471          \unvbox\hold@viper
10472          \set@split@topskip@to{\z@ plus2\p@}%
10473          \vsplit\@viper to\@colht
10474          \vss
10475      }%
10476      \vbox{%
10477          \global\@firstcolumnfalse
10478          \newpage
10479      \fi
10480      }

```

## 76 File cvthemebidicasual.sty

```

10481 \NeedsTeXFormat{LaTeX2e}
10482 \ProvidesPackage{cvthemebidicasual}
10483 \DeclareOption{blue}{}
10484 \newif\if@colourorange\@colourorangefalse
10485 \DeclareOption{orange}{\@colourorange true}
10486 \newif\if@colourgreen\@colourgreenfalse
10487 \DeclareOption{green}{\@colourgreen true}
10488 \newif\if@coloured\@colouredfalse
10489 \DeclareOption{red}{\@coloured true}
10490 \newif\if@colourgrey\@colourgreyfalse
10491 \DeclareOption{grey}{\@colourgrey true}
10492 \DeclareOption*{
10493     \PackageWarning{cvthemebidicasual}{Unknown option ‘\CurrentOption’}}
10494 \ExecuteOptions{colour}
10495 \ProcessOptions\relax
10496 \renewcommand*{\listitemsymbol}{\textbullet}
10497 \definecolor{firstnamecolor}{rgb}{0.65,0.65,0.65}
10498 \familynamecolour{808080}
10499 \firstnamecolour{A9A9A9}
10500 \quotecolour{696969}
10501 \addresscolour{696969}
10502 \definecolor{sectionrectanglecolor}{rgb}{0.25,0.50,0.75}
10503 \sectiontitlecolour{1E90FF}
10504 \subsectioncolour{4682B4}
10505 \definecolor{rulecolour}{gray}{0.6}
10506 \definecolor{footersymbolcolour}{rgb}{0.25,0.50,0.75}
10507 \definecolor{footersymbolcolor}{rgb}{0.25,0.50,0.75}
10508 \if@colourorange
10509     \definecolor{sectionrectanglecolor}{rgb}{1.00,0.65,0.20}
10510     \definecolor{sectionrectanglecolor}{rgb}{1.00,0.65,0.20}
10511     \sectiontitlecolour{FF8C00}
10512     \subsectioncolour{FF8C00}
10513     \definecolor{footersymbolcolour}{rgb}{0.95,0.55,0.15}
10514     \definecolor{footersymbolcolor}{rgb}{0.95,0.55,0.15}\fi
10515 \if@colourgreen
10516     \definecolor{sectionrectanglecolor}{rgb}{0.55,0.85,0.35}
10517     \definecolor{sectionrectanglecolour}{rgb}{0.55,0.85,0.35}
10518     \sectiontitlecolour{008000}
10519     \subsectioncolour{008000}
10520     \definecolor{footersymbolcolour}{rgb}{0.30,0.65,0.15}

```



```

10521 \definecolor{footersymbolcolor}{rgb}{0.30,0.65,0.15}\fi
10522 \if@coloured
10523 \definecolor{sectionrectanglecolor}{rgb}{1.00,0.30,0.30}
10524 \definecolor{sectionrectanglecolour}{rgb}{1.00,0.30,0.30}
10525 \sectiontitlecolour{FF0000}
10526 \subsectioncolour{FF0000}
10527 \definecolor{footersymbolcolour}{rgb}{0.95,0.20,0.20}
10528 \definecolor{footersymbolcolor}{rgb}{0.95,0.20,0.20}\fi
10529 \if@colourgrey
10530 \definecolor{sectionrectanglecolor}{rgb}{0.75,0.75,0.75}
10531 \definecolor{sectionrectanglecolour}{rgb}{0.75,0.75,0.75}
10532 \sectiontitlecolour{808080}
10533 \subsectioncolour{808080}
10534 \definecolor{footersymbolcolour}{rgb}{0.35,0.35,0.35}
10535 \definecolor{footersymbolcolor}{rgb}{0.35,0.35,0.35}\fi
10536 \renewcommand*{\ttdefault}{pcr}
10537 \renewcommand*{\firstnamefont}{\fontsize{38}{40}\mdseries\upshape}
10538 \renewcommand*{\familynamefont}{\firstnamefont}
10539 \renewcommand*{\addressfont}{\normalsize\mdseries\slshape}
10540 \renewcommand*{\quoteontext}{\large\slshape}
10541 \renewcommand*{\sectionfont}{\Large\mdseries\upshape}
10542 \renewcommand*{\subsectionfont}{\large\mdseries\upshape}
10543 \renewcommand*{\maketitle}{%
10544   {%
10545     \ifthenelse{\isundefined{\@photo}}{%
10546       {}%
10547       {\color{firstnamecolor}\framebox{\includegraphics[width=\@photowidth]{\@photo}}}%
10548       \hfill%
10549       \bidi@raggedleft{\firstnamestyle{\@firstname}~\familynamestyle{\@familyname}}\[-.35em]}%
10550     {\color{firstnamecolor}\rule{\textwidth}{.25ex}\[2.5em]}%
10551     \ifthenelse{\isundefined{\@quote}}{%
10552       {}%
10553       {\centering{\begin{minipage}{\quotewidth}\centering\quotestyle{\@quote}\end{minipage}}\%
10554     }%
10555 \newif\if@firstfooterelement\@firstfooterelementtrue
10556 \providecommand*{\footersymbol}{%
10557 \renewcommand*{\footersymbol}{%
10558 \if@firstfooterelement%
10559 \else%
10560 { ~\color{footersymbolcolor}\textbullet~~}\fi}
10561 \providecommand*{\makefooter}{%
10562 \renewcommand*{\makefooter}{%
10563 \fancypagestyle{plain}{%
10564 \fancyfoot[c]{%
10565 \parbox{0.8\textwidth}{%
10566 \centering%
10567 \addressfont\@addresscolour%
10568 \ifthenelse{\isundefined{\@address}}{\@address}{%
10569 \addresssymbol~\@address}%
10570 \@firstfooterelementfalse}%
10571 \ifthenelse{\isundefined{\@mobile}}{\@mobile}{\mobilesymbol~\@mobile\@firstfooterelementfalse}%
10572 \ifthenelse{\isundefined{\@phone}}{\@phone}{\footersymbol\phonesymbol~\@phone\@firstfooterelementfalse}%
10573 \ifthenelse{\isundefined{\@fax}}{\@fax}{\footersymbol\xfaxsymbol~\@fax\@firstfooterelementfalse}%
10574 \ifthenelse{\isundefined{\@email}}{\@email}{\footersymbol\emailsymbol~\@email\@firstfooterelementfalse}%

```



```

10575         \ifthenelse{\isundefined{\@extrainfo}}{\footersymbol\@extrainfo\@firstfooterelementf
10576     }%
10577     \pagestyle{plain}}
10578 \AtBeginDocument{\makefooter}

```

## 77 File cvthemebidiclassic.sty

```

10579 \NeedsTeXFormat{LaTeX2e}
10580 \ProvidesPackage{cvthemebidiclassic}
10581 \DeclareOption{blue}{}
10582 \newif\if@colourorange\@colourorangefalse
10583 \DeclareOption{orange}{\@colourorangetrue}
10584 \newif\if@colourgreen\@colourgreenfalse
10585 \DeclareOption{green}{\@colourgreentrue}
10586 \newif\if@colourred\@colourredfalse
10587 \DeclareOption{red}{\@colourredtrue}
10588 \newif\if@colourgrey\@colourgreyfalse
10589 \DeclareOption{grey}{\@colourgreytrue}
10590 \DeclareOption*{
10591     \PackageWarning{cvthemebidiclassic}{Unknown option ‘\CurrentOption’}}
10592 \ExecuteOptions{colour}
10593 \ProcessOptions\relax
10594 \renewcommand*{\listitemsymbol}{\textbullet}
10595 \firstnamecolour{}
10596 \familynamecolour{}
10597 \titlecolour{808080}
10598 \quotecolour{696969}
10599 \addresscolour{696969}
10600 \definecolor{sectionrectanglecolour}{rgb}{0.25,0.50,0.75}
10601 \definecolor{sectionrectanglecolor}{rgb}{0.25,0.5,0.75}
10602 \sectiontitlecolour{1E90FF}
10603 \subsectioncolour{4682B4}
10604 \if@colourorange
10605     \addresscolour{FF8C00}
10606     \definecolor{sectionrectanglecolour}{rgb}{1.00,0.65,0.20}
10607     \definecolor{sectionrectanglecolor}{rgb}{1,0.65,0.20}
10608     \sectiontitlecolour{FF8C00}
10609     \subsectioncolour{FF8C00}\fi
10610 \if@colourgreen
10611     \addresscolour{008000}
10612     \definecolor{sectionrectanglecolour}{rgb}{0.55,0.85,0.35}
10613     \definecolor{sectionrectanglecolor}{rgb}{0.55,0.85,0.35}
10614     \sectiontitlecolour{008000}
10615     \subsectioncolour{008000}\fi
10616 \if@colourred
10617     \addresscolour{FF0000}
10618     \definecolor{sectionrectanglecolour}{rgb}{1.00,0.30,0.30}
10619     \definecolor{sectionrectanglecolor}{rgb}{1.00,0.30,0.30}
10620     \sectiontitlecolour{FF0000}
10621     \subsectioncolour{FF0000}\fi
10622 \if@colourgrey
10623     \addresscolour{808080}
10624     \definecolor{sectionrectanglecolour}{rgb}{0.75,0.75,0.75}
10625     \definecolor{sectionrectanglecolor}{rgb}{0.75,0.75,0.75}

```



```

10626 \sectiontitlecolour{808080}
10627 \subsectioncolour{808080}\fi
10628 \renewcommand*{\ttdefault}{pcr}
10629 \renewcommand*{\firstnamefont}{\fontsize{34}{36}\mdseries\upshape}
10630 \renewcommand*{\titlefont}{\LARGE\mdseries\slshape}
10631 \renewcommand*{\addressfont}{\normalsize\mdseries\slshape}
10632 \renewcommand*{\familynamefont}{\firstnamefont}
10633 \renewcommand*{\quoteont}{\large\slshape}
10634 \renewcommand*{\sectionfont}{\Large\mdseries\upshape}
10635 \renewcommand*{\subsectionfont}{\large\mdseries\upshape}
10636 \newlength{\maketitlenamemaxwidth}
10637 \setlength{\maketitlenamemaxwidth}{.525\textwidth}
10638 \newlength{\maketitlenamefullwidth}
10639 \settowidth{\maketitlenamefullwidth}{\firstnamestyle{\@firstname~}\familynamestyle{\@familyname}}
10640 \newlength{\maketitlenamewidth}
10641 \ifnum\maketitlenamemaxwidth<\maketitlenamefullwidth\setlength{\maketitlenamewidth}{\maketitlenamefullwidth}\fi
10642 \newlength{\maketitlepicturewidth}
10643 \setlength{\maketitlepicturewidth}{\@photowidth}
10644 \newlength{\maketitledetailwidth}
10645 \renewcommand*{\recomputethemelengths}{%
10646 \setlength{\maketitledetailwidth}{\textwidth}%
10647 \addtolength{\maketitledetailwidth}{-\maketitlenamewidth}%
10648 \addtolength{\maketitledetailwidth}{-\separatorcolumnwidth}%
10649 \addtolength{\maketitledetailwidth}{-\maketitlepicturewidth}}
10650 \recomputethemelengths
10651 \newif\if@firstdetailselement\@firstdetailselementtrue
10652 \newcommand*{\maketitledetailnewline}{%
10653 \if@firstdetailselement%
10654 \@firstdetailselementfalse%
10655 \else%
10656 \[\.2em]\fi}
10657 \renewcommand*{\maketitle}{%
10658 % name and title
10659 \begin{minipage}[b]{\maketitlenamewidth}%
10660 \firstnamestyle{\@firstname~}\familynamestyle{\@familyname}%
10661 \ifthenelse{equal{\@title}{}}{\[\!1.25em\titlestyle{\@title}}{}%
10662 \end{minipage}%
10663 % optional data
10664 \begin{minipage}[b]{\maketitledetailwidth}%
10665 \bidi@raggedleft\addressfont\addresscolour%
10666 \ifthenelse{\isundefined{\@address}}{\[\!1.25em\titlestyle{\@title}}{}%
10667 \maketitledetailnewline%
10668 \addresssymbol~\@address%
10669 \ifthenelse{\isundefined{\@mobile}}{\maketitledetailnewline\mobilesymbol~\@mobile}%{}%
10670 \ifthenelse{\isundefined{\@phone}}{\maketitledetailnewline\phonesymbol~\@phone}%{}%
10671 \ifthenelse{\isundefined{\@fax}}{\maketitledetailnewline\faxsymbol~\@fax}%{}%
10672 \ifthenelse{\isundefined{\@email}}{\maketitledetailnewline\emailsymbol~\emailink{\@email}}{}%
10673 \ifthenelse{\isundefined{\@extrainfo}}{\maketitledetailnewline\@extrainfo}%{}%
10674 \end{minipage}%
10675 % optional photo
10676 \ifthenelse{\isundefined{\@photo}}{\[\!1.25em\titlestyle{\@title}}{}%
10677 {}%
10678 {\hspace*{\separatorcolumnwidth}\color{firstnamecolor}\framebox{\includegraphics[width=\@photo]{\@photo}}}%
10679 % optional quote

```



```

10680 \ifthenelse{\isundefined{\@quote}}{%
10681   }%
10682   {\centering{\begin{minipage}{\quotewidth}\centering\quotestyle{\@quote}\end{minipage}}\\\
10683 }

```

## 78 File dblfnote-xetex-bidi.def

```

10684 \ProvidesFile{dblfnote-xetex-bidi.def}[2012/12/12 v0.3 bidi adaptations for dblfnote package]
10685 \let\autofootnoterule\relax
10686 \let\rightfootnoterule\relax
10687 \let\leftfootnoterule\relax
10688 \let\textwidthfootnoterule\relax
10689 \let\LRfootnoterule\relax
10690 \def\footnoterule{\kern-3\p@
10691   \hrule \@width \DFNcolumnwidth \kern 2.6\p@}%
10692 \AtBeginDocument{\let\dfn@latex@footnotetext\@footnotetext
10693 \let\@footnotetext\dfn@footnotetext}
10694 \long\def\dfn@LTRfootnotetext#1{\setbox\dfn@boxa\vbox{
10695   \let\insert\dfn@gobble
10696   \columnwidth\DFNcolumnwidth \hbadness\c@DFNsloppiness
10697   \def\@makefnmark{\smash{\dfn@makefnmark}}
10698   \dfn@latex@LTRfootnotetext{#1}\par \boxmaxdepth\dfn@fnmaxdp}%
10699   \dfn@dima\ht\dfn@boxa \advance\dfn@dima\dp\dfn@boxa
10700   \ifdim\dfn@dima>\z@else
10701     \dfn@dima1sp\relax
10702     \setbox\dfn@boxa\vbox{\vbox to1sp{\unvbox\dfn@boxa\vfil}}\fi
10703   \global\setbox\dfn@ins\vbox{\boxmaxdepth\dfn@fnmaxdp
10704     \ifvoid\dfn@ins\else
10705       \unvbox\dfn@ins \allowbreak \nointerlineskip \fi
10706     \ifdfn@allowcbreak \unvbox \else \box \fi \dfn@boxa}%
10707   \setbox\dfn@boxa\copy\dfn@ins
10708   \dfn@split{.5\ht\dfn@boxa}\dfn@boxa\dfn@boxb\dfn@fnmaxdp\footnotesep
10709   \advance\@tempdima\@tempdimb \@tempdimb\@tempdima
10710   \advance\@tempdima-\dfn@fnht \global\dfn@fnht\@tempdimb
10711   \insert\footins{\floatingpenalty\@MM \vbox to\@tempdima{}}%
10712   \xdef\dfn@list{\dfn@list\@elt{\number\dfn@dima}{\number\@tempdima}}}}
10713 \AtBeginDocument{\let\dfn@latex@LTRfootnotetext\@LTRfootnotetext
10714 \let\@LTRfootnotetext\dfn@LTRfootnotetext}
10715 \long\def\dfn@RTLfootnotetext#1{\setbox\dfn@boxa\vbox{
10716   \let\insert\dfn@gobble
10717   \columnwidth\DFNcolumnwidth \hbadness\c@DFNsloppiness
10718   \def\@makefnmark{\smash{\dfn@makefnmark}}
10719   \dfn@latex@RTLfootnotetext{#1}\par \boxmaxdepth\dfn@fnmaxdp}%
10720   \dfn@dima\ht\dfn@boxa \advance\dfn@dima\dp\dfn@boxa
10721   \ifdim\dfn@dima>\z@else
10722     \dfn@dima1sp\relax
10723     \setbox\dfn@boxa\vbox{\vbox to1sp{\unvbox\dfn@boxa\vfil}}\fi
10724   \global\setbox\dfn@ins\vbox{\boxmaxdepth\dfn@fnmaxdp
10725     \ifvoid\dfn@ins\else
10726       \unvbox\dfn@ins \allowbreak \nointerlineskip \fi
10727     \ifdfn@allowcbreak \unvbox \else \box \fi \dfn@boxa}%
10728   \setbox\dfn@boxa\copy\dfn@ins
10729   \dfn@split{.5\ht\dfn@boxa}\dfn@boxa\dfn@boxb\dfn@fnmaxdp\footnotesep
10730   \advance\@tempdima\@tempdimb \@tempdimb\@tempdima

```





```

10731      \advance\@tempdima-\dfn@fnht \global\dfn@fnht\@tempdimb
10732      \insert\footins{\floatingpenalty\@MM \vbox to\@tempdima{}}%
10733      \xdef\dfn@list{\dfn@list\@elt{\number\dfn@dima}{\number\@tempdima}}}}
10734 \AtBeginDocument{\let\dfn@latex@RTLfootnotetext\@RTLfootnotetext
10735 \let\@RTLfootnotetext\dfn@RTLfootnotetext}
10736 \def\dfn@RTLmakecol{{\ifvoid\footins\else
10737     \dfn@dima\ht\footins
10738     \@tempcnta\z@ \dfn@countins
10739     \@tempdima\z@ \let\@elt\dfn@elt\getht
10740     \dfn@list\@nil
10741     \ifdim\@tempdima=\z@\else
10742     \dfn@split\@tempdima\dfn@ins\dfn@boxa\z@\z@
10743     \global\setbox\dfn@ins\box\dfn@ins
10744     \@tempswatrue
10745     \ifdfn@trysingle
10746         \setbox\dfn@boxb\vbox{\unvcopy\@cclv}\@tempdima\@colroom
10747         \advance\@tempdima-\ht\dfn@boxb \advance\@tempdima-\dp\dfn@boxb
10748         \advance\@tempdima-\skip\footins
10749         \advance\@tempdima-\ht\dfn@boxa
10750         \ifdim\@tempdima<\z@\else \@tempswafalse
10751             \global\setbox\footins\vbox{\boxmaxdepth\dfn@fnmaxdp
10752                 \footnoterule \unvbox\dfn@boxa}\fi\fi
10753     \if@tempswa
10754     \dfn@split{\dfn@dima}\dfn@boxa\dfn@boxb\dfn@fnmaxdp\footnotesep
10755     \global\setbox\footins\vbox{\hbox{%
10756         \hskip \DFNcolumnwidth
10757         \hskip\DFNcolumnsep
10758         \hbox to\DFNcolumnwidth{\vbox to\@tempdima{\footnoterule
10759             \unvbox\dfn@boxb\vss}\hss}
10760         \hskip -\textwidth
10761         \hbox to\DFNcolumnwidth{\ifvoid\dfn@boxa\else
10762             \vbox to\@tempdima{
10763                 \setbox\@tempboxa\vbox{\footnoterule}
10764                 \ifdfn@ruleboth \unvbox\@tempboxa
10765                 \else \@tempdima\ht\@tempboxa
10766                 \advance\@tempdima\dp\@tempboxa
10767                 \vskip\@tempdima
10768                 \prevdepth\dp\@tempboxa \fi
10769                 \unvbox\dfn@boxa\vss}\fi\hss}
10770                 \hskip \DFNcolumnsep
10771                 \hskip \DFNcolumnwidth}}}\fi\fi
10772     \global\dfn@fnht\z@
10773     \ifx\dfn@list\@empty\else
10774         \let\@elt\dfn@elt\adjust \dfn@dima\z@ \dfn@dimb\z@
10775         \dfn@list \global\advance\dfn@fnht\dfn@dimb
10776         \let\@elt\relax
10777         \ifdim\dfn@dimb>\z@
10778             \xdef\dfn@list{\@elt{0}{\number\dfn@dimb}\dfn@list}%
10779             \insert\footins{\floatingpenalty\@MM
10780                 \vbox to\dfn@dimb{}}\fi
10781         \ifdim\dfn@fnht>\@tempdima
10782             \@tempdimb\@tempdima \advance\@tempdimb-\dfn@fnht
10783             \global\dfn@fnht\@tempdima
10784             \xdef\dfn@list{\dfn@list\@elt{0}{\number\@tempdimb}}}%

```



```

10785             \xdef\dfn@afteroutput{\insert\footins{
10786                 \floatingpenalty\@MM
10787                 \vbox to\number\@tempdimb sp{}}}%
10788             \global\let\noexpand\dfn@afteroutput\relax}%
10789         \fi\fi
10790     \fi}%
10791     \let\footnoterule\relax \dfn@latex@makecol
10792     \let\footnoterule\dfn@footnoterule}
10793 \def\dfn@LTRmakecol{\ifvoid\footins\else
10794     \dfn@dima\ht\footins
10795     \@tempcnta\z@ \dfn@countins
10796     \@tempdima\z@ \let\@elt\dfn@elt@getht
10797     \dfn@list\@nil
10798     \ifdim\@tempdima=\z@\else
10799     \dfn@split\@tempdima\dfn@ins\dfn@boxa\z@\z@
10800     \global\setbox\dfn@ins\box\dfn@ins
10801     \@tempswatrue
10802     \ifdfn@trysingle
10803         \setbox\dfn@boxb\vbox{\unvcopy\@cclv}\@tempdima\@colroom
10804         \advance\@tempdima-\ht\dfn@boxb \advance\@tempdima-\dp\dfn@boxb
10805         \advance\@tempdima-\skip\footins
10806         \advance\@tempdima-\ht\dfn@boxa
10807         \ifdim\@tempdima<\z@\else \@tempswafalse
10808             \global\setbox\footins\vbox{\boxmaxdepth\dfn@fnmaxdp
10809                 \footnoterule \unvbox\dfn@boxa}\fi\fi
10810     \if@tempswa
10811     \dfn@split{\dfn@dima}\dfn@boxa\dfn@boxb\dfn@fnmaxdp\footnotesep
10812     \global\setbox\footins\vbox{\hbox{%
10813         \hbox to\DFNcolumnwidth{\vbox to\@tempdima{\footnoterule
10814             \unvbox\dfn@boxb\vss}\hss}\hskip\DFNcolumnsep
10815         \hbox to\DFNcolumnwidth{\ifvoid\dfn@boxa\else
10816             \vbox to\@tempdima{
10817                 \setbox\@tempboxa\vbox{\footnoterule}
10818                 \ifdfn@ruleboth \unvbox\@tempboxa
10819                 \else \@tempdima\ht\@tempboxa
10820                 \advance\@tempdima\dp\@tempboxa
10821                 \vskip\@tempdima
10822                 \prevdepth\dp\@tempboxa \fi
10823                 \unvbox\dfn@boxa\vss}\fi\hss}}}\fi\fi
10824     \global\dfn@fnht\z@
10825     \ifx\dfn@list\@empty\else
10826         \let\@elt\dfn@elt@adjust \dfn@dima\z@ \dfn@dimb\z@
10827         \dfn@list \global\advance\dfn@fnht\dfn@dimb
10828         \let\@elt\relax
10829         \ifdim\dfn@dimb>\z@
10830             \xdef\dfn@list{\@elt{0}{\number\dfn@dimb}\dfn@list}%
10831             \insert\footins{\floatingpenalty\@MM
10832                 \vbox to\dfn@dimb{}}\fi
10833         \ifdim\dfn@fnht>\@tempdima
10834             \@tempdimb\@tempdima \advance\@tempdimb-\dfn@fnht
10835             \global\dfn@fnht\@tempdima
10836             \xdef\dfn@list{\dfn@list\@elt{0}{\number\@tempdimb}}%
10837             \xdef\dfn@afteroutput{\insert\footins{
10838                 \floatingpenalty\@MM

```



```

10839 \vbox to\number\@tempdimb sp{}}%
10840 \global\let\noexpand\dfn@afteroutput\relax}%
10841 \fi\fi
10842 \fi}%
10843 \let\footnoterule\relax \dfn@latex@makecol
10844 \let\footnoterule\dfn@footnoterule}
10845 \renewcommand{\dfn@makecol}{\if@RTLmain\dfn@RTLmakecol\else\dfn@LTRmakecol\fi}
10846 \newcommand{\RTLdfnmakecol}{\renewcommand{\dfn@makecol}{\dfn@RTLmakecol}}
10847 \newcommand{\LTRdfnmakecol}{\renewcommand{\dfn@makecol}{\dfn@LTRmakecol}}
10848 \DFNalwaysdouble

```

## 79 File diagbox-xetex-bidi.def

```

10849 \ProvidesFile{diagbox-xetex-bidi.def}[2017/12/30 v0.2 bidi adaptations for diagbox package f
10850 \bidi@patchcmd{\diagbox@double}{%
10851 \begin{tabular}{@{\hspace{\diagbox@insepr}}>\diagbox@font}l@{}}
10852 }{\bidi@@diagbox@double@ii}{}}
10853 \bidi@patchcmd{\diagbox@double}{%
10854 \begin{tabular}{@{}>\diagbox@font}r@{\hspace{\diagbox@insepr}}
10855 }{\bidi@@diagbox@double@iii}{}}
10856 \newcommand*{\bidi@@diagbox@double@ii}{%
10857 \if@RTL
10858 \begin{tabular}{@{}>\diagbox@font}r@{\hspace{\diagbox@insepr}}
10859 \else
10860 \begin{tabular}{@{\hspace{\diagbox@insepr}}>\diagbox@font}l@{}}
10861 \fi
10862 }
10863 \newcommand*{\bidi@@diagbox@double@iii}{%
10864 \if@RTL
10865 \begin{tabular}{@{\hspace{\diagbox@insepr}}>\diagbox@font}l@{}}
10866 \else
10867 \begin{tabular}{@{}>\diagbox@font}r@{\hspace{\diagbox@insepr}}
10868 \fi
10869 }
10870 \bidi@patchcmd{\diagbox@triple@setbox@NW}{%
10871 \begin{tabular}{@{\hspace{\diagbox@insepr}}>\diagbox@font}l@{}}
10872 }{\bidi@@diagbox@triple@setbox@NW@tabular@i@ii}{}}
10873 \bidi@patchcmd{\diagbox@triple@setbox@NW}{%
10874 \begin{tabular}{@{\hspace{\diagbox@insepr}}>\diagbox@font}l@{}}
10875 }{\bidi@@diagbox@triple@setbox@NW@tabular@i@ii}{}}
10876 \bidi@patchcmd{\diagbox@triple@setbox@NW}{%
10877 \begin{tabular}{@{}>\diagbox@font}r@{\hspace{\diagbox@insepr}}
10878 }{\bidi@@diagbox@triple@setbox@NW@tabular@iii}{}}
10879 \newcommand*{\bidi@@diagbox@triple@setbox@NW@tabular@i@ii}{%
10880 \if@RTL
10881 \begin{tabular}{@{}>\diagbox@font}r@{\hspace{\diagbox@insepr}}
10882 \else
10883 \begin{tabular}{@{\hspace{\diagbox@insepr}}>\diagbox@font}l@{}}
10884 \fi
10885 \newcommand*{\bidi@@diagbox@triple@setbox@NW@tabular@iii}{%
10886 \if@RTL
10887 \begin{tabular}{@{\hspace{\diagbox@insepr}}>\diagbox@font}l@{}}
10888 \else
10889 \begin{tabular}{@{}>\diagbox@font}r@{\hspace{\diagbox@insepr}}

```



```

10890 \fi}
10891 \let\diagbox@triple@setbox@SW\diagbox@triple@setbox@NW
10892 \bidi@patchcmd{\diagbox@triple@setbox@SE}{%
10893   \begin{tabular}{@{\hspace{\diagbox@insepl}}l@{}}%
10894 }{\bidi@@diagbox@triple@setbox@SE@tabular@i}{-}{-}
10895 \bidi@patchcmd{\diagbox@triple@setbox@SE}{%
10896   \begin{tabular}{@{\hspace{\diagbox@insepr}}}%
10897 }{\bidi@@diagbox@triple@setbox@SE@tabular@ii@iii}{-}{-}
10898 \bidi@patchcmd{\diagbox@triple@setbox@SE}{%
10899   \begin{tabular}{@{\hspace{\diagbox@insepr}}}%
10900 }{\bidi@@diagbox@triple@setbox@SE@tabular@ii@iii}{-}{-}
10901 \newcommand*{\bidi@@diagbox@triple@setbox@SE@tabular@i}{%
10902   \ifRTL
10903     \begin{tabular}{@{\hspace{\diagbox@insepl}}}
10904   \else
10905     \begin{tabular}{@{\hspace{\diagbox@insepl}}l@{}}
10906   \fi
10907 }
10908 \newcommand*{\bidi@@diagbox@triple@setbox@SE@tabular@ii@iii}{%
10909   \ifRTL
10910     \begin{tabular}{@{\hspace{\diagbox@insepr}}l@{}}
10911   \else
10912     \begin{tabular}{@{\hspace{\diagbox@insepr}}}
10913   \fi
10914 }
10915 \let\diagbox@triple@setbox@NE\diagbox@triple@setbox@SE
10916 \bidi@patchcmd{\diagbox@double@pict@SE}{%
10917   \diagbox@setlinecolor
10918   \Line(0,\strip@pt\diagbox@ht)(\strip@pt\diagbox@wd,0)%
10919 }{%
10920   {\diagbox@setlinecolor
10921     \Line(0,\strip@pt\diagbox@ht)(\strip@pt\diagbox@wd,0)}%
10922 }{-}{-}
10923 \let\diagbox@double@pict@NW\diagbox@double@pict@SE
10924 \bidi@patchcmd{\diagbox@double@pict@NE}{%
10925   \diagbox@setlinecolor
10926   \Line(0,0)(\strip@pt\diagbox@wd,\strip@pt\diagbox@ht)%
10927 }{%
10928   {\diagbox@setlinecolor
10929     \Line(0,0)(\strip@pt\diagbox@wd,\strip@pt\diagbox@ht)}%
10930 }{-}{-}
10931 \let\diagbox@double@pict@SW\diagbox@double@pict@NE
10932 \bidi@patchcmd{\diagbox@triple@pict@NW}{%
10933   \diagbox@setlinecolor
10934   \Line(0,\yym)(\x,0)
10935   \Line(\xm,\y)(\x,0)%
10936 }{%
10937   {\diagbox@setlinecolor
10938     \Line(0,\yym)(\x,0)
10939     \Line(\xm,\y)(\x,0)}%
10940 }{-}{-}
10941 \bidi@patchcmd{\diagbox@triple@pict@NE}{%
10942   \diagbox@setlinecolor
10943   \Line(0,0)(\xxm,\y)

```



```

10944 \Line(0,0)(\x,\ym)%
10945 }{%
10946 {\diagbox@setlinecolor
10947 \Line(0,0)(\xxm,\y)
10948 \Line(0,0)(\x,\ym)}%
10949 }{}{}
10950 \bidi@patchcmd{\diagbox@triple@pict@SW}{%
10951 \diagbox@setlinecolor
10952 \Line(0,\ym)(\x,\y)
10953 \Line(\xm,0)(\x,\y)}%
10954 }{%
10955 {\diagbox@setlinecolor
10956 \Line(0,\ym)(\x,\y)
10957 \Line(\xm,0)(\x,\y)}%
10958 }{}{}
10959 \bidi@patchcmd{\diagbox@triple@pict@SE}{%
10960 \diagbox@setlinecolor
10961 \Line(0,\y)(\xxm,0)
10962 \Line(0,\y)(\x,\ym)}%
10963 }{%
10964 {\diagbox@setlinecolor
10965 \Line(0,\y)(\xxm,0)
10966 \Line(0,\y)(\x,\ym)}%
10967 }{}{}

```

## 80 File draftwatermark-xetex-bidi.def

```

10968 \ProvidesFile{draftwatermark-xetex-bidi.def}[2010/07/25 v0.2 bidi adaptations for draftwater
10969 \renewcommand\SetWatermarkText[1]{%
10970 \def\sc@wm@text{\if@RTLmain\beginR\fi#1\if@RTLmain\endR\fi}}

```

## 81 File eso-pic-xetex-bidi.def

```

10971 \ProvidesFile{eso-pic-xetex-bidi.def}[2022/02/18 v0.4 bidi adaptations for eso-pic package f
10972 \renewcommand\AtPageLowerLeft[1]{\AtPageUpperLeft{%
10973 \put(\if@RTLmain\paperwidth\else 0\fi,-\paperheight){#1}}
10974
10975 \ESO@isMEMOIR{%
10976 \renewcommand\AtTextUpperLeft[1]{%
10977 \begingroup
10978 \ifodd\c@page
10979 \if@RTLmain
10980 \ESO@tempdima=\paperwidth
10981 \advance\ESO@tempdima-\textwidth
10982 \advance\ESO@tempdima-\spinemargin
10983 \else
10984 \ESO@tempdima=\spinemargin
10985 \fi
10986 \else
10987 \if@RTLmain
10988 \ESO@tempdima=\spinemargin
10989 \else
10990 \ESO@tempdima=\paperwidth
10991 \advance\ESO@tempdima-\textwidth

```



```

10992         \advance\ESO@tempdima-\spinemargin
10993         \fi
10994     \fi
10995     \ESO@tempdimb=-\uppermargin
10996     \AtPageUpperLeft{%
10997         \put(\if@RTLmain-\textwidth-\fi\ESO@tempdima,\ESO@tempdimb){#1}%
10998     }%
10999 \endgroup
11000 }
11001 }{%
11002 \renewcommand\AtTextUpperLeft[1]{%
11003 \begingroup
11004 \ESO@tempdima=1in\relax
11005 \if@twoside
11006     \ifodd\c@page
11007         \if@RTLmain
11008             \advance\ESO@tempdima\evensidemargin
11009         \else
11010             \advance\ESO@tempdima\oddsidemargin
11011         \fi
11012     \else
11013         \if@RTLmain
11014             \advance\ESO@tempdima\oddsidemargin
11015         \else
11016             \advance\ESO@tempdima\evensidemargin
11017         \fi
11018     \fi
11019 \else
11020     \advance\ESO@tempdima\oddsidemargin
11021 \fi
11022 \ESO@tempdimb=-1in\relax
11023 \advance\ESO@tempdimb-\topmargin
11024 \advance\ESO@tempdimb-\headheight
11025 \advance\ESO@tempdimb-\headsep
11026 \AtPageUpperLeft{%
11027     \put(\if@RTLmain-\textwidth-\fi\ESO@tempdima,\ESO@tempdimb){#1}%
11028 }%
11029 \endgroup
11030 }
11031 }

```

## 82 File empheq-xetex-bidi.def

```

11032 \ProvidesFile{empheq-xetex-bidi.def}[2018/01/08 v0.2 bidi adaptations for empheq package for
11033 \MHInternalSyntaxOn
11034 \def\EQ_tag_plus_endmark:{%
11035 \iftagsleft@
11036     \gdef\maketag@@@##1{%
11037         \hfuzz\displaywidth
11038         \if@RTL\makebox[\widthof{##1}][r]{%
11039             \hbox to \displaywidth{\m@th\normalfont##1\hss
11040                 \raisebox{-\dp\EQ_mathdisplay_box
11041                     -\depthof{\EQ_outerbox:}}{
11042                     {\PotEndMark{\hss}}}}

```



```

11043     \else\makebox[\widthof{##1}][l]{%
11044       \hbox to \displaywidth{\m@th\normalfont##1\hss
11045         \raisebox{-\dp\EQ_mathdisplay_box
11046           -\depthof{\EQ_outerbox: {}}}{
11047           {\PotEndMark{\hss}}}\fi}%
11048 \MH_else:
11049   \gdef\maketag@@@##1{%
11050     \hbox{\m@th\normalfont##1\llap{\hss\PotEndMark{%
11051       \settoheight{\@tempdima}{\@nameuse{\InTheoType Symbol}}}%
11052       \MH_addtolength:dn \@tempdima
11053       {\g_EQ_bottomtag_depth_dim+\mintagvsep}
11054       \setlength{\@tempdimb}
11055       {\g_EQ_bottomrow_depth_dim+\depthof{\EQ_outerbox: {}}
11056       +\depthof{\EQ_innerbox: {}}}}
11057     \MH_if_dim:w \@tempdima>\@tempdimb
11058     \MH_setlength:dn \@tempdima{-\dp\EQ_mathdisplay_box
11059     -\@tempdima+\g_EQ_bottomrow_depth_dim}
11060     \addtolength{\@tempdima}{\depthof{\EQ_innerbox: {}}}%
11061     \def\EQ_next:{\raisebox{\@tempdima}}}%
11062     \MH_else:
11063     \def\EQ_next:{
11064       \raisebox{-\dp\EQ_mathdisplay_box
11065       -\depthof{\EQ_outerbox: {}}}%
11066     \MH_fi:\EQ_next:}}}%
11067 \MH_fi:}
11068 \def\EQ_post_process:{%
11069   \EQ_initialize:
11070   \EQ_begin_equation:
11071   \MH_if_boolean:nT {outer_mult}{
11072     \setkeys{\MT_options_name:}{
11073       firstline-afterskip=Opt,
11074       lastline-preskip=Opt,
11075       multlined-width=Opt,
11076     }
11077     \ifodd \l_EQ_alignmentmode_int
11078     \setkeys{\MT_options_name:}{multlined-pos=b}
11079     \MH_else:
11080     \setkeys{\MT_options_name:}{multlined-pos=t}
11081     \MH_fi:
11082     \g@addto@macro\EQ_complete_mathdisplay:{
11083       \begin{MTmultlined}\relax}
11084   }
11085   \g@addto@macro\EQ_complete_mathdisplay:\EQ_mathbody:
11086   \MH_if_boolean:nT {outer_mult}{
11087     \g@addto@macro\EQ_complete_mathdisplay:{\end{MTmultlined}}
11088   }
11089   \EQ_end_equation:
11090   \edef\EQ_hyperref_link_fint{\number\Hy@linkcounter}
11091   \savecounters@
11092   \EQ_typeset_tags:
11093   \edef\l_EQ_equation_fint{\number\c@equation}
11094   \restorecounters@
11095   \Hy@linkcounter=\EQ_hyperref_link_fint
11096   \settowidth\l_EQ_totalwidth_dim{%

```



```

11097   $\EQ_left_side:\EQ_innerbox:{}\EQ_right_side:$}%
11098   \MH_if_boolean:nTF {outer_mult}
11099   { \def\EQ_next:{_mult} }
11100   { \def\EQ_next:{} }
11101   \@nameuse{EQ_modify_linewidth_
11102     \romannumeral\l_EQ_equationtype_int\EQ_next: :}%
11103   \EQ_typeset_display:
11104   \@nameuse{EQ_find_displaywidth_
11105     \romannumeral\l_EQ_equationtype_int\EQ_next: :}%
11106   \MH_addtolength:dn
11107   \l_EQ_totalwidth_dim{\l_EQ_displaywidth_dim}
11108   \savebox\EQ_mathdisplay_box[\l_EQ_totalwidth_dim][c]{%
11109     $\EQ_left_side:
11110     \EQ_innerbox:{%
11111       \MH_if_case:w \l_EQ_alignmentmode_int\MH_or:
11112       \makebox[\l_EQ_displaywidth_dim][c]
11113       {\usebox{\EQ_mathdisplay_box}}}%
11114     \MH_or:
11115     \makebox[\l_EQ_displaywidth_dim][c]
11116     {\usebox{\EQ_mathdisplay_box}}}%
11117     \MH_or:
11118     \if@RTL\makebox[\l_EQ_displaywidth_dim][r]{%
11119       \MH_if_num:w \l_EQ_equationtype_int=5 \MH_else:
11120       \MH_if_num:w \l_EQ_equationtype_int=6 \MH_else:
11121       \kern-\@mathmargin
11122       \MH_fi:
11123       \MH_fi:
11124       \usebox{\EQ_mathdisplay_box}}}%
11125     \else\makebox[\l_EQ_displaywidth_dim][l]{%
11126       \MH_if_num:w \l_EQ_equationtype_int=5 \MH_else:
11127       \MH_if_num:w \l_EQ_equationtype_int=6 \MH_else:
11128       \kern-\@mathmargin
11129       \MH_fi:
11130       \MH_fi:
11131       \usebox{\EQ_mathdisplay_box}}\fi%
11132     \MH_or:
11133     \if@RTL\makebox[\l_EQ_displaywidth_dim][r]{%
11134       \MH_if_num:w \l_EQ_equationtype_int=5 \MH_else:
11135       \MH_if_num:w \l_EQ_equationtype_int=6 \MH_else:
11136       \kern-\@mathmargin
11137       \MH_fi:
11138       \MH_fi:
11139       \usebox{\EQ_mathdisplay_box}}
11140     \else\makebox[\l_EQ_displaywidth_dim][l]{%
11141       \MH_if_num:w \l_EQ_equationtype_int=5 \MH_else:
11142       \MH_if_num:w \l_EQ_equationtype_int=6 \MH_else:
11143       \kern-\@mathmargin
11144       \MH_fi:
11145       \MH_fi:
11146       \usebox{\EQ_mathdisplay_box}}\fi%
11147     \MH_fi:}%
11148   \EQ_right_side:$}%
11149   \begin{AmSequation*}
11150   \@nameuse{EQ_place_display_

```





```

11151         \romannumeral\l_EQ_equationtype_int\EQ_next: :}
11152 \MH_if_dim:w \g_EQ_widesttag_dim>\z@
11153 \MH_set_boolean_T:n {show_manual_tags}
11154 \MH_if_case:w \l_EQ_alignmentmode_int
11155 \MH_or: \if@RTL\EQ_place_tag:N l\else\EQ_place_tag:N r\fi %#1
11156 \MH_or: \if@RTL\EQ_place_tag:N r\else\EQ_place_tag:N l\fi %#2
11157 \MH_or: \if@RTL\EQ_place_tag:N l\else\EQ_place_tag:N r\fi %#3
11158 \MH_or: \if@RTL\EQ_place_tag:N r\else\EQ_place_tag:N l\fi %#4
11159 \MH_fi:
11160 \MH_fi:
11161 \end{AmSequation*}
11162 \global\c@equation=\l_EQ_equation_fint\relax
11163 }
11164 \AtBeginDocument{%
11165 \ifpackageloaded{fancybox}{%
11166 \ifpackageloaded{color}{\definecolor{shadowcolor}{rgb}{0,0,0}}%
11167 {\renewcommand*\textcolor[2]{\normalcolor{#2}}}%
11168 \renewcommand*\shadowbox{%
11169 \ifstar{\MH_set_boolean_T:n {shadowbox_star}
11170 \VerbBox\EQ_shadowbox:n}
11171 {\MH_set_boolean_F:n {shadowbox_star}
11172 \VerbBox\EQ_shadowbox:n}}
11173 \def\EQ_shadowbox:n #1{%
11174 \sbox{\z@}{\fbox{#1}}%
11175 \MH_if_boolean:nTF {shadowbox_star}{
11176 \MH_setlength:dn \@tempdima{\z@}%
11177 }{
11178 \MH_setlength:dn \@tempdima{\dp\z@+\shadowsize}%
11179 }
11180 \raisebox{\@tempdima}{%
11181 \if@RTL\makebox[\z@][r]{%
11182 \kern\shadowsize \textcolor{shadowcolor}{%
11183 \rule[-\dp\z@-\shadowsize]{\wd\z@}{\shadowsize}}}%
11184 }%
11185 \else\makebox[\z@][l]{%
11186 \kern\shadowsize \textcolor{shadowcolor}{%
11187 \rule[-\dp\z@-\shadowsize]{\wd\z@}{\shadowsize}}}%
11188 }\fi%
11189 \usebox\z@\textcolor{shadowcolor}{%
11190 \rule[-\dp\z@-\shadowsize]{\shadowsize}{\ht\z@+\dp\z@}}}%
11191 }{}%
11192 }
11193 \MHInternalSyntaxOff

```

### 83 File extarticle-xetex-bidi.def

```

11194 \ProvidesFile{extarticle-xetex-bidi.def}[2017/06/09 v0.4 bidi adaptations for extarticle cla
11195 \renewcommand*\l@section[2]{%
11196 \ifnum \c@tocdepth >\z@
11197 \addpenalty\@secpenalty
11198 \addvspace{1.0em \@plus\p@}%
11199 \setlength\@tempdima{1.5em}%
11200 \begingroup
11201 \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth

```



```

11202     \parfillskip -\@pnumwidth
11203     \leavevmode \bfseries
11204     \advance\if@RTL\righskip\else\leftskip\fi\@tempdima
11205     \hskip -\if@RTL\righskip\else\leftskip\fi
11206     #1\nobreak\hfil \nobreak\hb@xt@\@pnumwidth{\hss #2}\par
11207   \endgroup
11208 \fi}
11209 \renewcommand*\l@part[2]{%
11210 \ifnum \c@tocdepth >-2\relax
11211   \addpenalty\@secpenalty
11212   \addvspace{2.25em \@plus\p@}%
11213   \begingroup
11214     \setlength\@tempdima{3em}%
11215     \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
11216     \parfillskip -\@pnumwidth
11217     {\leavevmode
11218       \large \bfseries #1\hfil \hb@xt@\@pnumwidth{\hss #2}}\par
11219     \nobreak
11220   \endgroup
11221 \fi}
11222 \def\@part[#1]#2{%
11223   \ifnum \c@secnumdepth >\m@ne
11224     \refstepcounter{part}%
11225     \addcontentsline{toc}{part}{\thepart\hspace{1em}#1}%
11226   \else
11227     \addcontentsline{toc}{part}{#1}%
11228   \fi
11229   {\parindent \z@ \if@RTL\raggedleft\else\raggedright\fi
11230    \interlinepenalty \@M
11231    \normalfont
11232    \ifnum \c@secnumdepth >\m@ne
11233      \Large\bfseries \partname~\thepart
11234      \par\nobreak
11235    \fi
11236    \huge \bfseries #2%
11237    \markboth{}{}\par}%
11238   \nobreak
11239   \vskip 3ex
11240   \@afterheading}
11241 \def\@spart#1{%
11242   {\parindent \z@ \if@RTL\raggedleft\else\raggedright\fi
11243    \interlinepenalty \@M
11244    \normalfont
11245    \huge \bfseries #1\par}%
11246   \nobreak
11247   \vskip 3ex
11248   \@afterheading}
11249 \renewenvironment{thebibliography}[1]
11250   {\section*{\refname
11251     \@mkboth{\MakeUppercase\refname}{\MakeUppercase\refname}}%
11252     \if@RTL\if@LTRbibitems\@RTLfalse\else\fi\else\if@RTLbibitems\@RTLtrue\else\fi\fi
11253     \bidi@thebibliography@font@hook%
11254     \list{\@biblabel{\@arabic\c@enumiv}}%
11255     {\settowidth\labelwidth{\@biblabel{#1}}%

```



```

11256         \leftmargin\labelwidth
11257         \advance\leftmargin\labelsep
11258         \@openbib@code
11259         \usecounter{enumiv}%
11260         \let\p@enumiv\@empty
11261         \renewcommand\theenumiv{\@arabic\c@enumiv}}%
11262     \sloppy\clubpenalty4000\widowpenalty4000%
11263     \sfcode`.\@m}
11264     {\def\@noitemerr
11265       {\@latex@warning{Empty `thebibliography' environment}}}%
11266     \endlist}
11267 \renewcommand\left@footnoterule{%
11268   \kern-3\p@
11269   \hrule\@width.4\columnwidth
11270   \kern2.6\p@}
11271 \renewcommand\right@footnoterule{%
11272   \kern-3\p@
11273   \hbox to \columnwidth{\hskip .6\columnwidth \hrulefill }
11274   \kern2.6\p@}
11275   \if@titlepage
11276   \renewcommand\maketitle{\begin{titlepage}%
11277     \let\footnotesize\small
11278     \let\right@footnoterule\relax
11279     \let\left@footnoterule\relax
11280     \let\textwidth\footnoterule\relax
11281     \let \footnote \thanks
11282     \null\vfil
11283     \vskip 60\p@
11284     \begin{center}%
11285       {\LARGE \@title \par}%
11286       \vskip 3em%
11287       {\large
11288         \lineskip .75em%
11289         \begin{tabular}[t]{c}%
11290           \@author
11291           \end{tabular}\par}%
11292       \vskip 1.5em%
11293       {\large \@date \par}%           % Set date in \large size.
11294     \end{center}\par
11295     \@thanks
11296     \vfil\null
11297   \end{titlepage}%
11298   \setcounter{footnote}{0}%
11299   \global\let\thanks\relax
11300   \global\let\maketitle\relax
11301   \global\let\@thanks\@empty
11302   \global\let\@author\@empty
11303   \global\let\@date\@empty
11304   \global\let\@title\@empty
11305   \global\let\title\relax
11306   \global\let\author\relax
11307   \global\let\date\relax
11308   \global\let\and\relax
11309 }

```



```

11310 \else
11311 \renewcommand\maketitle{\par
11312   \begin{group}
11313     \renewcommand\thefootnote{\@fnsymbol\c@footnote}%
11314     \def\@makefnmark{\rlap{\@textsuperscript{\normalfont\@thefnmark}}}%
11315     \long\def\@makefntext#1{\parindent 1em\noindent
11316       \hb@xt@1.8em{%
11317         \hss\@textsuperscript{\normalfont\@thefnmark}}#1}%
11318     \if@twocolumn
11319       \ifnum \col@number=\@ne
11320         \@maketitle
11321       \else
11322         \twocolumn[\@maketitle]%
11323       \fi
11324     \else
11325       \newpage
11326       \global\@topnum\z@ % Prevents figures from going at top of page.
11327       \@maketitle
11328     \fi
11329     \thispagestyle{plain}\@thanks
11330   \end{group}
11331   \setcounter{footnote}{0}%
11332   \global\let\thanks\relax
11333   \global\let\maketitle\relax
11334   \global\let\@maketitle\relax
11335   \global\let\@thanks\@empty
11336   \global\let\@author\@empty
11337   \global\let\@date\@empty
11338   \global\let\@title\@empty
11339   \global\let\title\relax
11340   \global\let\author\relax
11341   \global\let\date\relax
11342   \global\let\and\relax
11343 }
11344 \def\@maketitle{%
11345   \newpage
11346   \null
11347   \vskip 2em%
11348   \begin{center}%
11349     \let \footnote \thanks
11350     {\LARGE \@title \par}%
11351     \vskip 1.5em%
11352     {\large
11353       \lineskip .5em%
11354       \begin{tabular}[t]{c}%
11355         \@author
11356       \end{tabular}\par}%
11357     \vskip 1em%
11358     {\large \@date}%
11359   \end{center}%
11360   \par
11361   \vskip 1.5em}
11362 \fi
11363 \renewcommand\thesubsection {\thesection\@SepMark\@arabic\c@subsection}

```



```

11364 \renewcommand\thesubsubsection{\thesubsection \@SepMark\@arabic\c@subsubsection}
11365 \renewcommand\theparagraph {\thesubsubsection\@SepMark\@arabic\c@paragraph}
11366 \renewcommand\thesubparagraph {\theparagraph\@SepMark\@arabic\c@subparagraph}%%

```

## 84 File extbook-xetex-bidi.def

```

11367 \ProvidesFile{extbook-xetex-bidi.def}[2017/06/09 v0.4 bidi adaptations for extbook class for
11368 \if@titlepage
11369 \renewcommand\maketitle{\begin{titlepage}%
11370 \let\footnotesize\small
11371 \let\right@footnoterule\relax
11372 \let\left@footnoterule\relax
11373 \let\textwidth@footnoterule\relax
11374 \let \footnote \thanks
11375 \let \LTRfootnote \LTRthanks
11376 \let \RTLfootnote \RTLthanks
11377 \null\vfil
11378 \vskip 60\p@
11379 \begin{center}%
11380 {\LARGE \@title \par}%
11381 \vskip 3em%
11382 {\large
11383 \lineskip .75em%
11384 \begin{tabular}[t]{c}%
11385 \@author
11386 \end{tabular}\par}%
11387 \vskip 1.5em%
11388 {\large \@date \par}% % Set date in \large size.
11389 \end{center}\par
11390 \@thanks
11391 \vfil\null
11392 \end{titlepage}%
11393 \setcounter{footnote}{0}%
11394 \global\let\thanks\relax
11395 \global\let\LTRthanks\relax
11396 \global\let\RTLthanks\relax
11397 \global\let\maketitle\relax
11398 \global\let\@thanks\@empty
11399 \global\let\@author\@empty
11400 \global\let\@date\@empty
11401 \global\let\@title\@empty
11402 \global\let\title\relax
11403 \global\let\author\relax
11404 \global\let\date\relax
11405 \global\let\and\relax
11406 }
11407 \else
11408 \renewcommand\maketitle{\par
11409 \begin{group
11410 \renewcommand\thefootnote{\@fnsymbol\c@footnote}%
11411 \def\@makefnmark{\rlap{\@textsuperscript{\normalfont\@thefnmark}}}%
11412 \long\def\@makefntext##1{\parindent 1em\noindent
11413 \hb@xt@1.8em{%
11414 \hss\@textsuperscript{\normalfont\@thefnmark}}##1}%

```



```

11415 \if@twocolumn
11416 \ifnum \col@number=\@ne
11417 \maketitle
11418 \else
11419 \twocolumn[\maketitle]%
11420 \fi
11421 \else
11422 \newpage
11423 \global\@topnum\z@ % Prevents figures from going at top of page.
11424 \maketitle
11425 \fi
11426 \thispagestyle{plain}\@thanks
11427 \endgroup
11428 \setcounter{footnote}{0}%
11429 \global\let\thanks\relax
11430 \global\let\LTRthanks\relax
11431 \global\let\RTLthanks\relax
11432 \global\let\maketitle\relax
11433 \global\let\@maketitle\relax
11434 \global\let\@thanks\@empty
11435 \global\let\@author\@empty
11436 \global\let\@date\@empty
11437 \global\let\@title\@empty
11438 \global\let\title\relax
11439 \global\let\author\relax
11440 \global\let\date\relax
11441 \global\let\and\relax
11442 }
11443 \def\maketitle{%
11444 \newpage
11445 \null
11446 \vskip 2em%
11447 \begin{center}%
11448 \let \footnote \thanks
11449 \let \LTRfootnote \LTRthanks
11450 \let \RTLfootnote \RTLthanks
11451 {\LARGE \@title \par}%
11452 \vskip 1.5em%
11453 {\large
11454 \lineskip .5em%
11455 \begin{tabular}[t]{c}%
11456 \@author
11457 \end{tabular}\par}%
11458 \vskip 1em%
11459 {\large \@date}%
11460 \end{center}%
11461 \par
11462 \vskip 1.5em}
11463 \fi
11464 \renewcommand*\l@part[2]{%
11465 \ifnum \c@tocdepth >-2\relax
11466 \addpenalty{-\@highpenalty}%
11467 \addvspace{2.25em \@plus\p}%
11468 \begingroup

```



```

11469 \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
11470 \parfillskip -\@pnumwidth
11471 {\leavevmode
11472 \large \bfseries #1\hfil \hb@xt@\@pnumwidth{\hss #2}}\par
11473 \nobreak
11474 \global\@nobreaktrue
11475 \everypar{\global\@nobreakfalse\everypar{}}%
11476 \endgroup
11477 \fi}
11478 \renewcommand\theequation
11479 {\ifnum \c@chapter>\z@ \thechapter\@SepMark\fi \@arabic\c@equation}
11480 \renewcommand \thefigure
11481 {\ifnum \c@chapter>\z@ \thechapter\@SepMark\fi \@arabic\c@figure}
11482 \renewcommand \thetable
11483 {\ifnum \c@chapter>\z@ \thechapter\@SepMark\fi \@arabic\c@table}
11484 \renewcommand \thechapter {\@arabic\c@chapter}
11485 \renewcommand \thesection {\thechapter\@SepMark\@arabic\c@section}
11486 \renewcommand \thesubsection {\thesection\@SepMark\@arabic\c@subsection}
11487 \renewcommand \thesubsubsection {\thesubsection \@SepMark\@arabic\c@subsubsection}
11488 \renewcommand \theparagraph {\thesubsubsection \@SepMark\@arabic\c@paragraph}
11489 \renewcommand \thesubparagraph {\theparagraph \@SepMark\@arabic\c@subparagraph}
11490 \def\@makechapterhead#1{%
11491 \vspace*{50\p@}%
11492 {\parindent \z@ \if@RTL\raggedleft\else\raggedright\fi \normalfont
11493 \ifnum \c@secnumdepth >\m@ne
11494 \if@mainmatter
11495 \huge\bfseries \@chapapp\space \thechapter
11496 \par\nobreak
11497 \vskip 20\p@
11498 \fi
11499 \fi
11500 \interlinepenalty\@M
11501 \Huge \bfseries #1\par\nobreak
11502 \vskip 40\p@
11503 }}
11504
11505 \def\@makeschapterhead#1{%
11506 \vspace*{50\p@}%
11507 {\parindent \z@ \if@RTL\raggedleft\else\raggedright\fi
11508 \normalfont
11509 \interlinepenalty\@M
11510 \Huge \bfseries #1\par\nobreak
11511 \vskip 40\p@
11512 }}
11513 \renewcommand\backmatter{%
11514 \if@openright
11515 \cleardoublepage
11516 \else
11517 \clearpage
11518 \fi
11519 \@mainmatterfalse}
11520 \renewenvironment{thebibliography}[1]
11521 {\chapter*{\bibname
11522 \@mkboth{\MakeUppercase\bibname}{\MakeUppercase\bibname}}%

```



```

11523 \ifRTL\ifLTRbibitems\@RTLfalse\else\fi\else\ifRTLbibitems\@RTLtrue\else\fi\fi
11524 \bidi@thebibliography@font@hook%
11525 \list{\@biblabel{\@arabic\c@enumiv}}%
11526 {\settowidth\labelwidth{\@biblabel{#1}}%
11527 \leftmargin\labelwidth
11528 \advance\leftmargin\labelsep
11529 \@openbib@code
11530 \usecounter{enumiv}%
11531 \let\p@enumiv\@empty
11532 \renewcommand\theenumiv{\@arabic\c@enumiv}}%
11533 \sloppy
11534 \clubpenalty4000
11535 \@clubpenalty \clubpenalty
11536 \widowpenalty4000%
11537 \sfcode\.\@m}
11538 {\def\@noitemerr
11539 {\@latex@warning{Empty `thebibliography' environment}}}%
11540 \endlist}

```

## 85 File extletter-xetex-bidi.def

```

11541 \ProvidesFile{extletter-xetex-bidi.def}[2015/11/14 v0.2 bidi adaptations for extletter class]
11542 \renewcommand*{\opening}[1]{\ifx\@empty\fromaddress
11543 \thispagestyle{firstpage}%
11544 {\ifRTL\raggedright\else\raggedleft\fi\@date\par}%
11545 \else % home address
11546 \thispagestyle{empty}%
11547 {\ifRTL\raggedright\begin{tabular}{r@{}}\else\raggedleft\begin{tabular}{l@{}}\fi\ignore
11548 \fromaddress \*[2\parskip]%
11549 \@date \end{tabular}\par}%
11550 \fi
11551 \vspace{2\parskip}%
11552 {\ifRTL\raggedleft\else\raggedright\fi \toname \ \ toaddress \par}%
11553 \vspace{2\parskip}%
11554 #1\par\nobreak}
11555 \renewcommand{\closing}[1]{\par\nobreak\vspace{\parskip}%
11556 \stopbreaks
11557 \noindent
11558 \ifx\@empty\fromaddress\else
11559 \hspace*{\longindentation}\fi
11560 \parbox{\indentedwidth}{\ifRTL\raggedleft\else\raggedright\fi
11561 \ignorespaces #1\[[6\medskipamount]}%
11562 \ifx\@empty\fromsig
11563 \fromname
11564 \else \fromsig \fi\strut}%
11565 \par}
11566 \renewcommand\left@footnoterule{%
11567 \kern-\p@
11568 \hrule \@width .4\columnwidth
11569 \kern .6\p@}
11570 \renewcommand\right@footnoterule{%
11571 \kern-\p@
11572 \hbox to \columnwidth{\hskip .6\columnwidth \hrulefill }
11573 \kern .6\p@}

```





## 86 File extrafootnotefeatures-xetex-bidi.def

```

11574 \ProvidesFile{extrafootnotefeatures-xetex-bidi.def}[2022/07/14 v2.4 bidi extra footnote feat
11575 \newdimen\bidi@columnwidth
11576 \def\bidi@floathook{%
11577   \bidi@columnwidth\columnwidth
11578 }
11579 \newif\if@bidi@void@@mpfootins
11580 \newcommand*{\@bidi@before@Hy@hyperfootnotes}{%
11581 \if@bidi@csundef\ifHy@hyperfootnotes}{-}{%
11582 \if@bidi@csundef{HLTR@LTRfootnotetext}{-}{%
11583 \ifHy@hyperfootnotes
11584   \let\@H@footnotetext\@footnotetext
11585   \let\@HLTR@LTRfootnotetext\@LTRfootnotetext
11586   \let\@HRTL@RTLfootnotetext\@RTLfootnotetext
11587   \let\@H@mpfootnotetext\@mpfootnotetext
11588   \let\@HLTR@mpLTRfootnotetext\@mpLTRfootnotetext
11589   \let\@HRTL@mpRTLfootnotetext\@mpRTLfootnotetext
11590 \fi
11591 }%
11592 }%
11593 }
11594 \newcommand*{\@bidi@after@Hy@hyperfootnotes}{%
11595 \if@bidi@csundef\ifHy@hyperfootnotes}{-}{%
11596 \if@bidi@csundef{HLTR@LTRfootnotetext}{-}{%
11597 \ifHy@hyperfootnotes
11598   \let\H@footnotetext\@footnotetext
11599   \let\@footnotetext\@H@footnotetext
11600   \let\HLTR@LTRfootnotetext\@LTRfootnotetext
11601   \let\@LTRfootnotetext\@HLTR@LTRfootnotetext
11602   \let\HRTL@RTLfootnotetext\@RTLfootnotetext
11603   \let\@RTLfootnotetext\@HRTL@RTLfootnotetext
11604   \let\H@mpfootnotetext\@mpfootnotetext
11605   \let\@mpfootnotetext\@H@mpfootnotetext
11606   \let\HLTR@mpLTRfootnotetext\@mpLTRfootnotetext
11607   \let\@mpLTRfootnotetext\@HLTR@mpLTRfootnotetext
11608   \let\HRTL@mpRTLfootnotetext\@mpRTLfootnotetext
11609   \let\@mpRTLfootnotetext\@HRTL@mpRTLfootnotetext
11610 \fi
11611 }%
11612 }%
11613 }
11614 \let\autofootnoterule\relax
11615 \let\rightfootnoterule\relax
11616 \let\leftfootnoterule\relax
11617 \let\textwidthfootnoterule\relax
11618 \let\LRfootnoterule\relax
11619 \def\footnoterule{\kern-3\p@
11620   \hrule \@width \columnwidth \kern 2.6\p@}
11621 \newcommand{\@preamnormalfmt}{%
11622   \parindent 1em%
11623   \noindent
11624 }
11625 \newcommand{\@normalfootfmt}[1]{%

```



```

11626 \@preamnormalfmt
11627 \footfootmark
11628 \rule\z@\footnotesep\ignorespaces{\foottextfont #1}%
11629 \@finalstrut\strutbox
11630 }
11631 \newcommand{\@normalRTLfootfmt}[1]{%
11632 \@preamnormalfmt
11633 \RTLfootfootmark
11634 \rule\z@\footnotesep\ignorespaces{\RTLfoottextfont #1}%
11635 \@finalstrut\strutbox
11636 }
11637 \newcommand{\@normalLTRfootfmt}[1]{%
11638 \@preamnormalfmt
11639 \LTRfootfootmark
11640 \rule\z@\footnotesep\ignorespaces{\LTRfoottextfont #1}%
11641 \@finalstrut\strutbox
11642 }
11643 \renewcommand{\@footnotetext}[1]{%
11644 \insert\footins{%
11645 \if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi%
11646 \def\baselinestretch{\m@m@footnote@spacing}%
11647 \reset@font
11648 \foottextfont
11649 \@preamfntext
11650 \hsize\columnwidth
11651 \protected@edef\@currentlabel{%
11652 \csname p@footnote\endcsname\@thefnmark}%
11653 \color@begingroup
11654 \@normalfootfmt{#1}%
11655 \color@endgroup}%
11656 \m@mmf@prepare}
11657 \renewcommand{\@RTLfootnotetext}[1]{%
11658 \insert\footins{%
11659 \@RTLtrue%
11660 \def\baselinestretch{\m@m@footnote@spacing}%
11661 \reset@font
11662 \RTLfoottextfont
11663 \@preamfntext
11664 \hsize\columnwidth
11665 \protected@edef\@currentlabel{%
11666 \csname p@footnote\endcsname\@thefnmark}%
11667 \color@begingroup
11668 \@normalRTLfootfmt{#1}%
11669 \color@endgroup}%
11670 \m@mmf@prepare}
11671 \renewcommand{\@LTRfootnotetext}[1]{%
11672 \insert\footins{%
11673 \@RTLfalse%
11674 \def\baselinestretch{\m@m@footnote@spacing}%
11675 \reset@font
11676 \LTRfoottextfont
11677 \@preamfntext
11678 \hsize\columnwidth
11679 \protected@edef\@currentlabel{%

```



```

11680 \csname p@footnote\endcsname\@thefnmark}%
11681 \color@begingroup
11682 \normalLTRfootfmt{#1}%
11683 \color@endgroup}%
11684 \m@m@mmf@prepare}
11685 \renewcommand{\@mpfootnotetext}[1]{%
11686 \global\setbox\@mpfootins\vbox{\if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi%
11687 \unvbox\@mpfootins
11688 \def\baselinestretch{\m@m@footnote@spacing}%
11689 \reset@font%
11690 \foottextfont \hsize\columnwidth \@parboxrestore
11691 \protected@edef\@currentlabel{%
11692 \csname p@mpfootnote\endcsname\@thefnmark}%
11693 \color@begingroup
11694 \normalfootfmt{#1}%
11695 \color@endgroup}}
11696 \renewcommand{\@mpLTRfootnotetext}[1]{%
11697 \global\setbox\@mpfootins\vbox{\@RTLfalse%
11698 \unvbox\@mpfootins
11699 \def\baselinestretch{\m@m@footnote@spacing}%
11700 \reset@font%
11701 \LTRfoottextfont \hsize\columnwidth \@parboxrestore
11702 \protected@edef\@currentlabel{%
11703 \csname p@mpfootnote\endcsname\@thefnmark}%
11704 \color@begingroup
11705 \normalLTRfootfmt{#1}%
11706 \color@endgroup}}
11707 \renewcommand{\@mpRTLfootnotetext}[1]{%
11708 \global\setbox\@mpfootins\vbox{\@RTLtrue%
11709 \unvbox\@mpfootins
11710 \def\baselinestretch{\m@m@footnote@spacing}%
11711 \reset@font%
11712 \RTLfoottextfont \hsize\columnwidth \@parboxrestore
11713 \protected@edef\@currentlabel{%
11714 \csname p@mpfootnote\endcsname\@thefnmark}%
11715 \color@begingroup
11716 \normalRTLfootfmt{#1}%
11717 \color@endgroup}}
11718 \let\m@mold@footnotetext\@footnotetext
11719 \let\m@mold@LTRfootnotetext\@LTRfootnotetext
11720 \let\m@mold@RTLfootnotetext\@RTLfootnotetext
11721 \let\m@mold@mpfootnotetext\@mpfootnotetext
11722 \let\m@mold@mpLTRfootnotetext\@mpLTRfootnotetext
11723 \let\m@mold@mpRTLfootnotetext\@mpRTLfootnotetext
11724 \bidi@ensure@newcommand{\normalfootnotes}{%
11725 \bidi@before@Hy@hyperfootnotes
11726 \let\@footnotetext\m@mold@footnotetext
11727 \let\@LTRfootnotetext\m@mold@LTRfootnotetext
11728 \let\@RTLfootnotetext\m@mold@RTLfootnotetext
11729 \let\@mpfootnotetext\m@mold@mpfootnotetext
11730 \let\@mpLTRfootnotetext\m@mold@mpLTRfootnotetext
11731 \let\@mpRTLfootnotetext\m@mold@mpRTLfootnotetext
11732 \bidi@after@Hy@hyperfootnotes
11733 \ifstar\bidi@star@footmarkwidth\bidi@normal@footmarkwidth

```



```

11734 }
11735 \@ifclassloaded{memoir}{\let\plainfootnotes\normalfootnotes}{}
11736 \bidi@ensure@newcommand*{\setSingleSpace}[1]{%
11737   \def\m@m@singlespace{#1}%
11738   \def\m@m@footnote@spacing{#1}%
11739   \def\m@m@float@spacing{#1} %
11740 }
11741 \setSingleSpace{1}
11742 \bidi@ensure@newcommand*{\multiplefootnotemarker}{3sp}
11743 \bidi@ensure@newcommand*{\m@mmf@prepare}{%
11744   \kern-\multiplefootnotemarker
11745   \kern\multiplefootnotemarker\relax}
11746 \bidi@ensure@newlength{\footmarkwidth}
11747 \bidi@ensure@newcommand*{\footmarkstyle}[1]{\def\footscript##1{#1}}
11748 \bidi@ensure@newcommand*{\LTRfootmarkstyle}[1]{\def\LTRfootscript##1{#1}}
11749 \bidi@ensure@newcommand*{\RTLfootmarkstyle}[1]{\def\RTLfootscript##1{#1}}
11750 \bidi@ensure@newcommand{\footfootmark}{%
11751   \ifdim\footmarkwidth < \z@
11752     \llap{\hb@xt@ -\footmarkwidth{%
11753       \hss\normalfont\footscript{\@thefnmark}}}%
11754     \hspace*{-\footmarkwidth}}%
11755   \else
11756     \ifdim\footmarkwidth = \z@
11757       {\normalfont\footscript{\@thefnmark}}%
11758     \else
11759       \hb@xt@\footmarkwidth{\hss\normalfont\footscript{\@thefnmark}}%
11760     \fi
11761   \fi}
11762 \bidi@ensure@newcommand{\LTRfootfootmark}{%
11763   \ifdim\footmarkwidth < \z@
11764     \llap{\hb@xt@ -\footmarkwidth{%
11765       \hss\normalfont\LTRfootscript{\@thefnmark}}}%
11766     \hspace*{-\footmarkwidth}}%
11767   \else
11768     \ifdim\footmarkwidth = \z@
11769       {\normalfont\LTRfootscript{\@thefnmark}}%
11770     \else
11771       \hb@xt@\footmarkwidth{\hss\normalfont\LTRfootscript{\@thefnmark}}%
11772     \fi
11773   \fi}
11774 \bidi@ensure@newcommand{\RTLfootfootmark}{%
11775   \ifdim\footmarkwidth < \z@
11776     \llap{\hb@xt@ -\footmarkwidth{%
11777       \hss\normalfont\RTLfootscript{\@thefnmark}}}%
11778     \hspace*{-\footmarkwidth}}%
11779   \else
11780     \ifdim\footmarkwidth = \z@
11781       {\normalfont\RTLfootscript{\@thefnmark}}%
11782     \else
11783       \hb@xt@\footmarkwidth{\hss\normalfont\RTLfootscript{\@thefnmark}}%
11784     \fi
11785   \fi}
11786 \footmarkstyle{\textsuperscript{#1}}
11787 \LTRfootmarkstyle{\textsuperscript{#1}}

```



```

11788 \RTLfootmarkstyle{\textsuperscript{#1}}
11789 \newcommand*{\bidi@normal@footmarkwidth}{%
11790   \setlength{\footmarkwidth}{1em plus.3em minus.3em}%
11791 }
11792 \newcommand*{\bidi@star@footmarkwidth}{%
11793   \setlength{\footmarkwidth}{0em plus.3em minus.3em}%
11794 }
11795 \bidi@normal@footmarkwidth
11796 \bidi@ensure@newcommand{\m@mdoextrafeet}{\extrafeetins}
11797 \bidi@ensure@newcommand*{\extrafeetins}{%
11798   \bidi@joinfootnotes\footinsv@r\@footstartv@r\@footgroupv@r
11799   \bidi@joinfootnotes\footinsv@l\@footstartv@l\@LTRfootgroupv@l
11800   \bidi@joinfootnotes\@bidi@copyins@{\unvbox\@bidi@copyins@}%
11801   \extrafeetinshook}
11802 \bidi@ensure@newcommand{\extrafeetinshook}{%
11803   \bidi@ensure@newcommand{\foottextfont}{\footnotesize}
11804   \bidi@ensure@newcommand{\LTRfoottextfont}{\footnotesize}
11805   \bidi@ensure@newcommand{\RTLfoottextfont}{\footnotesize}
11806   \bidi@ensure@newlength{\footinsdim}
11807   \setlength{\footinsdim}{8in} % standard for \dimen\footins
11808   \bidi@ensure@newcommand{\@preamfntext}{%
11809     \interlinepenalty\interfootnotelinepenalty
11810     \floatingpenalty \@MM
11811     \splittopskip=\footnotesep
11812     \splitmaxdepth=\dp\strutbox
11813     \@parboxrestore}
11814   \def\bidi@ifmulticol#1#2{\@tempswafalse
11815     \ifnum\col@number>\@ne
11816       \ifnum\count\footins>1999 \@tempswatrue \fi
11817     \fi
11818     \if@tempswa #1\else #2\fi
11819 }
11820 \def\bidi@joinfootnotes#1#2#3{%
11821   \ifvoid#1
11822   \else
11823     \@tempskipa\skip#1%
11824     \bidi@ifmulticol{\divide\@tempskipa\col@number}{}%
11825     \edef\bidi@footskip{\vskip\the\@tempskipa\relax}%
11826     \bidi@removexfootskip
11827     \ifvoid\footins
11828       \global\setbox\footins\vbox{#2#3}%
11829     \else
11830       \global\setbox\footins\vbox{%
11831         \unvbox\footins
11832         \bidi@footskip
11833         #2#3%
11834       }%
11835     \fi
11836   \fi
11837 }
11838 \bidi@ensure@newcommand{\m@mdoextrafeetmini}{%
11839   \extrafeetminihook}
11840 \bidi@ensure@newcommand{\extrafeetendmini}{%
11841   \ifvoid\@mpfootinsv@r

```



```

11842 \ifvoid\@mpfootinsv@l
11843 \else
11844 \vskip\skip\@mpfootins
11845 \normalcolor
11846 \if@bidi@void@@mpfootins
11847 \footnoterule
11848 \fi
11849 \mp@LTRfootgroupv@l
11850 \fi
11851 \else
11852 \vskip\skip\@mpfootins
11853 \normalcolor
11854 \if@bidi@void@@mpfootins
11855 \footnoterule
11856 \fi
11857 \mp@footgroupv@r
11858 \ifvoid\@mpfootinsv@l
11859 \else
11860 \vskip\skip\@mpfootins
11861 \normalcolor\mp@LTRfootgroupv@l
11862 \fi
11863 \fi
11864 \extrafeetendminihook}
11865 \bidi@ensure@newcommand{\extrafeetendminihook}{\}
11866 \bidi@ensure@newcommand{\m@mdoextrafeetendmini}{\extrafeetendmini}
11867 \def\endminipage{%
11868 \par
11869 \unskip
11870 \ifvoid\@mpfootins
11871 \global\@bidi@void@@mpfootinstrue
11872 \else
11873 \global\@bidi@void@@mpfootinsfalse
11874 \vskip\skip\@mpfootins
11875 \normalcolor
11876 \footnoterule
11877 \unvbox\@mpfootins
11878 \fi
11879 \m@mdoextrafeetendmini
11880 \@minipagefalse
11881 \color@endgroup
11882 \egroup
11883 \expandafter\@iiiparbox\@mpargs{\unvbox\@tempboxa}}
11884 \bidi@ensure@newcommand{\m@make@footstart}[1]{%
11885 \@namedef{@footstart#1}{%
11886 \leftskip=\z@
11887 \rightskip=\z@
11888 \parindent=\z@
11889 }%
11890 }
11891 \newinsert\footinsv@r
11892 \skip\footinsv@r\skip\footins
11893 \count\footinsv@r=1000 % no magnification
11894 \dimen\footinsv@r=\footinsdim
11895 \m@make@footstart{v@r}

```



```

11896 \newinsert\footinsv@l
11897 \skip\footinsv@l\skip\footins
11898 \count\footinsv@l=1000 % no magnification
11899 \dimen\footinsv@l=\footinsdim
11900 \m@make@footstart{v@l}
11901 \bidi@ensure@newcommand{\@footgroupv@r}{%
11902 \newinsert\@mpfootinsv@r
11903 \newinsert\@mpfootinsv@l
11904 \bidi@ensure@newcommand{\mp@footgroupv@r}{%
11905 \newcount\m@m@k \newdimen\m@m@h
11906 \bidi@ensure@newcommand*{\m@mrigidbalance}[3]{\setbox0=\box#1 \m@m@k=#2 \m@m@h=#3
11907 \@@line{\beginR\splittopskip=\m@m@h \vbadness=\@M \hfilneg
11908 \valign{##\vfill\cr\m@mdosplits}\endR}}
11909 \newcommand*{\bidi@LTRrigidbalance}[3]{\setbox0=\box#1 \m@m@k=#2 \m@m@h=#3
11910 \@@line{\beginL\splittopskip=\m@m@h \vbadness=\@M \hfilneg
11911 \valign{##\vfill\cr\m@mdosplits}\endL}}
11912 \bidi@ensure@newcommand*{\m@mdosplits}{\ifnum\m@m@k>0 \noalign{\hfil}\m@msplitoff
11913 \global\advance\m@m@k-1\cr\m@mdosplits\fi}
11914 \bidi@ensure@newcommand*{\m@msplitoff}{\dimen0=\ht0
11915 \divide\dimen0 by\m@m@k \advance\dimen0 by\m@m@h
11916 \setbox2 \vsplit0 to \dimen0
11917 \unvbox2 }
11918 \bidi@ensure@newcommand{\twocolumnfootnotes}{%
11919 \@namedef{foottextfontv@r}{\foottextfont}% % [RS]
11920 \@namedef{foottextfontv@l}{\LTRfoottextfont}%
11921 \@bidi@before@Hy@hyperfootnotes
11922 \let\@footnotetext\@twocolfootnotetext
11923 \let\@LTRfootnotetext\@twocolLTRfootnotetext
11924 \let\@RTLfootnotetext\@twocolRTLfootnotetext
11925 \dimen\footinsv@r=2\footinsdim
11926 \count\footinsv@r=500\relax
11927 \m@make@twocol@footgroup{v@r}%
11928 \let\@footgroupv@r\@twocol@footgroupv@r
11929 \dimen\footinsv@l=2\footinsdim
11930 \count\footinsv@l=500\relax
11931 \bidi@make@twocol@LTRfootgroup{v@l}%
11932 \let\@LTRfootgroupv@l\@twocol@LTRfootgroupv@l
11933 \let\@mpfootnotetext\@mptwocolfootnotetext
11934 \let\@mpLTRfootnotetext\@mptwocolLTRfootnotetext
11935 \let\@mpRTLfootnotetext\@mptwocolRTLfootnotetext
11936 \@bidi@after@Hy@hyperfootnotes
11937 \m@make@mptwocol@footgroup{v@r}%
11938 \let\mp@footgroupv@r\@mptwocol@footgroupv@r
11939 \bidi@make@mptwocol@LTRfootgroup{v@l}%
11940 \let\mp@LTRfootgroupv@l\@mptwocol@LTRfootgroupv@l
11941 \@ifstar\bidi@star@footmarkwidth\bidi@normal@footmarkwidth
11942 }
11943 \bidi@ensure@newcommand{\@twocolfootnotetext}[1]{\insert
11944 \if@RTL@footnote
11945 \footinsv@r
11946 \else
11947 \footinsv@l
11948 \fi
11949 {\if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi}%

```



```

11950 \def\baselinestretch{\m@m@footnote@spacing}%
11951 \reset@font\foottextfont
11952 \@preamfntext
11953 \protected@edef\@currentlabel{%
11954   \csname p@footnote\endcsname\@thefnmark}%
11955 \color@begingroup
11956   \@twocolfootfmt{#1}%
11957 \color@endgroup}%
11958 \m@mmf@prepare}
11959 \bidi@ensure@newcommand{\@twocolLTRfootnotetext}[1]{\insert\footinsv@l{\@RTLfalse%
11960 \def\baselinestretch{\m@m@footnote@spacing}%
11961 \reset@font\LTRfoottextfont
11962 \@preamfntext
11963 \protected@edef\@currentlabel{%
11964   \csname p@footnote\endcsname\@thefnmark}%
11965 \color@begingroup
11966   \@twocolLTRfootfmt{#1}%
11967 \color@endgroup}%
11968 \m@mmf@prepare}
11969 \bidi@ensure@newcommand{\@twocolRTLfootnotetext}[1]{\insert\footinsv@r{\@RTLtrue%
11970 \def\baselinestretch{\m@m@footnote@spacing}%
11971 \reset@font\RTLfoottextfont
11972 \@preamfntext
11973 \protected@edef\@currentlabel{%
11974   \csname p@footnote\endcsname\@thefnmark}%
11975 \color@begingroup
11976   \@twocolRTLfootfmt{#1}%
11977 \color@endgroup}%
11978 \m@mmf@prepare}
11979 \bidi@ensure@newcommand{\@preamtwofmt}{%
11980 \hsize .45\hsize
11981 \parindent=\z@
11982 \tolerance=5000\relax
11983 \leavevmode}
11984 \bidi@ensure@newcommand{\@twocolfootfmt}[1]{%
11985 \@preamtwofmt
11986 {\footfootmark\strut {\foottextfont #1}\strut\par}\allowbreak}
11987 \bidi@ensure@newcommand{\@twocolLTRfootfmt}[1]{%
11988 \@preamtwofmt
11989 {\LTRfootfootmark\strut {\LTRfoottextfont #1}\strut\par}\allowbreak}
11990 \bidi@ensure@newcommand{\@twocolRTLfootfmt}[1]{%
11991 \@preamtwofmt
11992 {\RTLfootfootmark\strut {\RTLfoottextfont #1}\strut\par}\allowbreak}
11993 \bidi@ensure@newcommand{\@mptwocolfootnotetext}[1]{%
11994 \global\setbox
11995   \if@RTL@footnote
11996   \@mpfootinsv@r
11997   \else
11998   \@mpfootinsv@l
11999 \fi
12000 \vbox{\if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi%
12001   \unvbox
12002   \if@RTL@footnote
12003   \@mpfootinsv@r

```





```

12004 \else
12005   \@mpfootinsv@l
12006 \fi
12007   \def\baselinestretch{\m@m@footnote@spacing}%
12008   \reset@font\foottextfont
12009   \hsize\columnwidth \@parboxrestore
12010   \protected@edef\@currentlabel{%
12011     \csname p@mpfootnote\endcsname\@thefnmark}%
12012   \color@begingroup
12013     \@twocolfootfmt{#1}%
12014   \color@endgroup}%
12015   \m@m@mmf@prepare}
12016 \bidi@ensure@newcommand{\@mptwocolLTRfootnotetext}[1]{%
12017   \global\setbox\@mpfootinsv@l\vbox{\@RTLfalse%
12018     \unvbox\@mpfootinsv@l
12019     \def\baselinestretch{\m@m@footnote@spacing}%
12020     \reset@font\LTRfoottextfont
12021     \hsize\columnwidth \@parboxrestore
12022     \protected@edef\@currentlabel{%
12023       \csname p@mpfootnote\endcsname\@thefnmark}%
12024     \color@begingroup
12025       \@twocolLTRfootfmt{#1}%
12026     \color@endgroup}%
12027     \m@m@mmf@prepare}
12028 \bidi@ensure@newcommand{\@mptwocolRTLfootnotetext}[1]{%
12029   \global\setbox\@mpfootinsv@r\vbox{\@RTLtrue%
12030     \unvbox\@mpfootinsv@r
12031     \def\baselinestretch{\m@m@footnote@spacing}%
12032     \reset@font\RTLfoottextfont
12033     \hsize\columnwidth \@parboxrestore
12034     \protected@edef\@currentlabel{%
12035       \csname p@mpfootnote\endcsname\@thefnmark}%
12036     \color@begingroup
12037       \@twocolRTLfootfmt{#1}%
12038     \color@endgroup}%
12039     \m@m@mmf@prepare}
12040 \bidi@ensure@newcommand{\@make@twocol@footgroup}[1]{%
12041   \@namedef{@twocol@footgroup#1}{%
12042     \def\baselinestretch{\m@m@footnote@spacing}%
12043     \hsize\bidi@columnwidth
12044     \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
12045     \m@m@rigidbalance{\@nameuse{footins#1}}{\tw@}{\splittopskip}}}%
12046 \newcommand{\bidi@make@twocol@LTRfootgroup}[1]{%
12047   \@namedef{@twocol@LTRfootgroup#1}{%
12048     \def\baselinestretch{\m@m@footnote@spacing}%
12049     \hsize\bidi@columnwidth
12050     \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
12051     \bidi@LTRrigidbalance{\@nameuse{footins#1}}{\tw@}{\splittopskip}}}%
12052 \bidi@ensure@newcommand{\@make@mptwocol@footgroup}[1]{%
12053   \@namedef{@mptwocol@footgroup#1}{%
12054     \def\baselinestretch{\m@m@footnote@spacing}%
12055     \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
12056     \m@m@rigidbalance{\@nameuse{mpfootins#1}}{\tw@}{\splittopskip}}}%
12057 \newcommand{\bidi@make@mptwocol@LTRfootgroup}[1]{%

```



```

12058 \@namedef{@mptwocol@LTRfootgroup#1}{%
12059 \def\baselinestretch{\m@m@footnote@spacing}%
12060 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
12061 \bidi@LTRrigidbalance{\@nameuse{@mpfootins#1}}{\tw@}{\splittopskip}}}%
12062 \bidi@ensure@newcommand{\threecolumnfootnotes}{%
12063 \@namedef{foottextfontv@r}{\foottextfont}% % [RS]
12064 \@namedef{foottextfontv@l}{\LTRfoottextfont}%
12065 \@bidi@before@Hy@hyperfootnotes
12066 \let\@footnotetext\@threecolfootnotetext
12067 \let\@LTRfootnotetext\@threecolLTRfootnotetext
12068 \let\@RTLfootnotetext\@threecolRTLfootnotetext
12069 \dimen\footinsv@r=3\footinsdim
12070 \count\footinsv@r=333\relax
12071 \m@make@threecol@footgroup{v@r}%
12072 \let\@footgroupv@r\@threecol@footgroupv@r
12073 \dimen\footinsv@l=3\footinsdim
12074 \count\footinsv@l=333\relax
12075 \bidi@make@threecol@LTRfootgroup{v@l}%
12076 \let\@LTRfootgroupv@l\@threecol@LTRfootgroupv@l
12077 \let\@mpfootnotetext\@mpthreecolfootnotetext
12078 \let\@mpLTRfootnotetext\@mpthreecolLTRfootnotetext
12079 \let\@mpRTLfootnotetext\@mpthreecolRTLfootnotetext
12080 \@bidi@after@Hy@hyperfootnotes
12081 \m@make@mpthreecol@footgroup{v@r}%
12082 \let\mp@footgroupv@r\@mpthreecol@footgroupv@r
12083 \bidi@make@mpthreecol@LTRfootgroup{v@l}%
12084 \let\mp@LTRfootgroupv@l\@mpthreecol@LTRfootgroupv@l
12085 \ifstar\bidi@star@footmarkwidth\bidi@normal@footmarkwidth
12086 }
12087 \bidi@ensure@newcommand{\@threecolfootnotetext}[1]{\insert
12088 \if@RTL@footnote
12089 \footinsv@r
12090 \else
12091 \footinsv@l
12092 \fi
12093 {\if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi%
12094 \def\baselinestretch{\m@m@footnote@spacing}%
12095 \reset@font\foottextfont
12096 \@preamfntext
12097 \protected@edef\@currentlabel{%
12098 \csname p@footnote\endcsname\@thefnmark}%
12099 \color@begingroup
12100 \@threecolfootfmt{#1}%
12101 \color@endgroup}\m@mmf@prepare}
12102 \bidi@ensure@newcommand{\@threecolLTRfootnotetext}[1]{\insert\footinsv@l{\@RTLfalse%
12103 \def\baselinestretch{\m@m@footnote@spacing}%
12104 \reset@font\LTRfoottextfont
12105 \@preamfntext
12106 \protected@edef\@currentlabel{%
12107 \csname p@footnote\endcsname\@thefnmark}%
12108 \color@begingroup
12109 \@threecolLTRfootfmt{#1}%
12110 \color@endgroup}\m@mmf@prepare}
12111 \bidi@ensure@newcommand{\@threecolRTLfootnotetext}[1]{\insert\footinsv@r{\@RTLtrue%

```



```

12112 \def\baselinestretch{\m@m@footnote@spacing}%
12113 \reset@font\RTLfoottextfont
12114 \@preamfntext
12115 \protected@edef\@currentlabel{%
12116   \csname p@footnote\endcsname\@thefnmark}%
12117 \color@begingroup
12118   \@threecolRTLfootfmt{#1}%
12119 \color@endgroup}\m@mmf@prepare}
12120 \bidi@ensure@newcommand{\@preamthreefmt}{%
12121   \hspace{.3\hspace}
12122   \parindent=\z@
12123   \tolerance=5000\relax
12124   \leavevmode}
12125 \bidi@ensure@newcommand{\@threecolfootfmt}[1]{%
12126   \@preamthreefmt
12127   {\footfootmark\strut {\foottextfont #1}\strut\par}\allowbreak}
12128 \bidi@ensure@newcommand{\@threecolLTRfootfmt}[1]{%
12129   \@preamthreefmt
12130   {\LTRfootfootmark\strut {\LTRfoottextfont #1}\strut\par}\allowbreak}
12131 \bidi@ensure@newcommand{\@threecolRTLfootfmt}[1]{%
12132   \@preamthreefmt
12133   {\RTLfootfootmark\strut {\RTLfoottextfont #1}\strut\par}\allowbreak}
12134 \bidi@ensure@newcommand{\@mpthreecolfootnotetext}[1]{%
12135   \global\setbox
12136     \if@RTL@footnote
12137     \@mpfootinsv@r
12138   \else
12139     \@mpfootinsv@l
12140   \fi
12141   \vbox{\if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi%
12142     \unvbox
12143     \if@RTL@footnote
12144     \@mpfootinsv@r
12145   \else
12146     \@mpfootinsv@l
12147   \fi
12148   \def\baselinestretch{\m@m@footnote@spacing}%
12149   \reset@font\foottextfont
12150   \hspace\columnwidth \@parboxrestore
12151   \protected@edef\@currentlabel{%
12152     \csname p@mpfootnote\endcsname\@thefnmark}%
12153   \color@begingroup
12154     \@threecolfootfmt{#1}%
12155   \color@endgroup}\m@mmf@prepare}
12156 \bidi@ensure@newcommand{\@mpthreecolLTRfootnotetext}[1]{%
12157   \global\setbox\@mpfootinsv@l\vbox{\@RTLfalse%
12158     \unvbox\@mpfootinsv@l
12159     \def\baselinestretch{\m@m@footnote@spacing}%
12160     \reset@font\LTRfoottextfont
12161     \hspace\columnwidth \@parboxrestore
12162     \protected@edef\@currentlabel{%
12163       \csname p@mpfootnote\endcsname\@thefnmark}%
12164     \color@begingroup
12165       \@threecolLTRfootfmt{#1}%

```



```

12166 \color@endgroup}\m@mmf@prepare}
12167 \bidi@ensure@newcommand{\@mpthreecolRTLfootnotetext}[1]{%
12168 \global\setbox\@mpfootinsv@r\vbox{\@RTLtrue%
12169 \unvbox\@mpfootinsv@r
12170 \def\baselinestretch{\m@m@footnote@spacing}%
12171 \reset@font\RTLfoottextfont
12172 \hsize\columnwidth \@parboxrestore
12173 \protected@edef\@currentlabel{%
12174 \csname p@mpfootnote\endcsname\@thefnmark}%
12175 \color@begingroup
12176 \@threecolRTLfootfmt{#1}%
12177 \color@endgroup}\m@mmf@prepare}
12178 \bidi@ensure@newcommand{\m@make@threecol@footgroup}[1]{%
12179 \@namedef{@threecol@footgroup#1}{%
12180 \def\baselinestretch{\m@m@footnote@spacing}%
12181 \hsize\bidi@columnwidth
12182 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
12183 \m@mrigidbalance{\@nameuse{footins#1}}{\thr@@}{\splittopskip}}}}
12184 \newcommand{\bidi@make@threecol@LTRfootgroup}[1]{%
12185 \@namedef{@threecol@LTRfootgroup#1}{%
12186 \def\baselinestretch{\m@m@footnote@spacing}%
12187 \hsize\bidi@columnwidth
12188 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
12189 \bidi@LTRrigidbalance{\@nameuse{footins#1}}{\thr@@}{\splittopskip}}}}
12190 \bidi@ensure@newcommand{\m@make@mpthreecol@footgroup}[1]{%
12191 \@namedef{@mpthreecol@footgroup#1}{%
12192 \def\baselinestretch{\m@m@footnote@spacing}%
12193 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
12194 \m@mrigidbalance{\@nameuse{@mpfootins#1}}{\thr@@}{\splittopskip}}}}
12195 \newcommand{\bidi@make@mpthreecol@LTRfootgroup}[1]{%
12196 \@namedef{@mpthreecol@LTRfootgroup#1}{%
12197 \def\baselinestretch{\m@m@footnote@spacing}%
12198 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
12199 \bidi@LTRrigidbalance{\@nameuse{@mpfootins#1}}{\thr@@}{\splittopskip}}}}
12200 \bidi@ensure@newcommand{\fourcolumnfootnotes}{%
12201 \@namedef{foottextfontv@r}{\foottextfont}% % [RS]
12202 \@namedef{foottextfontv@l}{\LTRfoottextfont}%
12203 \@bidi@before@Hy@hyperfootnotes
12204 \let\@footnotetext\@fourcolfootnotetext
12205 \let\@LTRfootnotetext\@fourcolLTRfootnotetext
12206 \let\@RTLfootnotetext\@fourcolRTLfootnotetext
12207 \dimen\footinsv@r=4\footinsdim
12208 \count\footinsv@r=250\relax
12209 \m@make@fourcol@footgroup{v@r}%
12210 \let\@footgroupv@r\@fourcol@footgroupv@r
12211 \dimen\footinsv@l=4\footinsdim
12212 \count\footinsv@l=250\relax
12213 \bidi@make@fourcol@LTRfootgroup{v@l}%
12214 \let\@LTRfootgroupv@l\@fourcol@LTRfootgroupv@l
12215 \let\@mpfootnotetext\@mpfourcolfootnotetext
12216 \let\@mpLTRfootnotetext\@mpfourcolLTRfootnotetext
12217 \let\@mpRTLfootnotetext\@mpfourcolRTLfootnotetext
12218 \@bidi@after@Hy@hyperfootnotes
12219 \m@make@mpfourcol@footgroup{v@r}%

```



```

12220 \let\mp@footgroupv@r\@mpfourcol@footgroupv@r
12221 \bidi@make@mpfourcol@LTRfootgroup{v@1}%
12222 \let\mp@LTRfootgroupv@1\@mpfourcol@LTRfootgroupv@1
12223 \@ifstar\bidi@star@footmarkwidth\bidi@normal@footmarkwidth
12224 }
12225 \bidi@ensure@newcommand{\@fourcolfootnotetext}[1]{\insert
12226 \ifRTL@footnote
12227 \footinsv@r
12228 \else
12229 \footinsv@l
12230 \fi
12231 {\ifRTL@footnote\@RTLtrue\else\@RTLfalse\fi%
12232 \def\baselinestretch{\m@m@footnote@spacing}%
12233 \reset@font\foottextfont
12234 \@preamfntext
12235 \protected@edef\@currentlabel{%
12236 \csname p@footnote\endcsname\@thefnmark}%
12237 \color@begingroup
12238 \@fourcolfootfmt{#1}%
12239 \color@endgroup}%
12240 \m@m@mmf@prepare}
12241 \bidi@ensure@newcommand{\@fourcolLTRfootnotetext}[1]{\insert\footinsv@l{\@RTLfalse%
12242 \def\baselinestretch{\m@m@footnote@spacing}%
12243 \reset@font\LTRfoottextfont
12244 \@preamfntext
12245 \protected@edef\@currentlabel{%
12246 \csname p@footnote\endcsname\@thefnmark}%
12247 \color@begingroup
12248 \@fourcolLTRfootfmt{#1}%
12249 \color@endgroup}%
12250 \m@m@mmf@prepare}
12251 \bidi@ensure@newcommand{\@fourcolRTLfootnotetext}[1]{\insert\footinsv@r{\@RTLtrue%
12252 \def\baselinestretch{\m@m@footnote@spacing}%
12253 \reset@font\RTLfoottextfont
12254 \@preamfntext
12255 \protected@edef\@currentlabel{%
12256 \csname p@footnote\endcsname\@thefnmark}%
12257 \color@begingroup
12258 \@fourcolRTLfootfmt{#1}%
12259 \color@endgroup}%
12260 \m@m@mmf@prepare}
12261 \bidi@ensure@newcommand{\@preamfourfmt}{%
12262 \hsize .25\hsize
12263 \parindent=\z@
12264 \tolerance=5000\relax
12265 \leavevmode}
12266 \bidi@ensure@newcommand{\@fourcolfootfmt}[1]{%
12267 \@preamfourfmt
12268 {\footfootmark\strut {\foottextfont #1}\strut\par}\allowbreak}
12269 \bidi@ensure@newcommand{\@fourcolLTRfootfmt}[1]{%
12270 \@preamfourfmt
12271 {\LTRfootfootmark\strut {\LTRfoottextfont #1}\strut\par}\allowbreak}
12272 \bidi@ensure@newcommand{\@fourcolRTLfootfmt}[1]{%
12273 \@preamfourfmt

```



```

12274 {\RTLfootfootmark\strut {\RTLfoottextfont #1}\strut\par}\allowbreak}
12275 \bidi@ensure@newcommand{\@mpfourcolfootnotetext}[1]{%
12276   \global\setbox
12277     \if@RTL@footnote
12278     \@mpfootinsv@r
12279   \else
12280     \@mpfootinsv@l
12281   \fi
12282   \vbox{\if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi%
12283     \unvbox
12284     \if@RTL@footnote
12285     \@mpfootinsv@r
12286   \else
12287     \@mpfootinsv@l
12288   \fi
12289   \def\baselinestretch{\m@m@footnote@spacing}%
12290   \reset@font\foottextfont
12291   \hsize\columnwidth \@parboxrestore
12292   \protected@edef\@currentlabel{%
12293     \csname p@mpfootnote\endcsname\@thefnmark}%
12294   \color@begingroup
12295     \@fourcolfootfmt{#1}%
12296   \color@endgroup}%
12297   \m@m@mmf@prepare}
12298 \bidi@ensure@newcommand{\@mpfourcolLTRfootnotetext}[1]{%
12299   \global\setbox\@mpfootinsv@l\vbox{\@RTLfalse%
12300     \unvbox\@mpfootinsv@l
12301     \def\baselinestretch{\m@m@footnote@spacing}%
12302     \reset@font\LTRfoottextfont
12303     \hsize\columnwidth \@parboxrestore
12304     \protected@edef\@currentlabel{%
12305       \csname p@mpfootnote\endcsname\@thefnmark}%
12306     \color@begingroup
12307       \@fourcolLTRfootfmt{#1}%
12308     \color@endgroup}%
12309   \m@m@mmf@prepare}
12310 \bidi@ensure@newcommand{\@mpfourcolRTLfootnotetext}[1]{%
12311   \global\setbox\@mpfootinsv@r\vbox{\@RTLtrue%
12312     \unvbox\@mpfootinsv@r
12313     \def\baselinestretch{\m@m@footnote@spacing}%
12314     \reset@font\RTLfoottextfont
12315     \hsize\columnwidth \@parboxrestore
12316     \protected@edef\@currentlabel{%
12317       \csname p@mpfootnote\endcsname\@thefnmark}%
12318     \color@begingroup
12319       \@fourcolRTLfootfmt{#1}%
12320     \color@endgroup}%
12321   \m@m@mmf@prepare}
12322 \bidi@ensure@newcommand{\m@make@fourcol@footgroup}[1]{%
12323   \@namedef{\@fourcol@footgroup#1}{%
12324     \def\baselinestretch{\m@m@footnote@spacing}%
12325     \hsize\bidi@columnwidth
12326     \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
12327     \m@m@rigidbalance{\@nameuse{footins#1}}{4}{\splittopskip}}}}

```



```

12328 \newcommand{\bidi@make@fourcol@LTRfootgroup}[1]{%
12329   \@namedef{\fourcol@LTRfootgroup#1}{%
12330     \def\baselinestretch{\m@m@footnote@spacing}%
12331     \hsize\bidi@columnwidth
12332     \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
12333     \bidi@LTRrigidbalance{\@nameuse{footins#1}}{4}{\splittopskip}}}%
12334 \bidi@ensure@newcommand{\m@make@mpfourcol@footgroup}[1]{%
12335   \@namedef{\mpfourcol@footgroup#1}{%
12336     \def\baselinestretch{\m@m@footnote@spacing}%
12337     \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
12338     \m@mrigidbalance{\@nameuse{\mpfootins#1}}{4}{\splittopskip}}}%
12339 \newcommand{\bidi@make@mpfourcol@LTRfootgroup}[1]{%
12340   \@namedef{\mpfourcol@LTRfootgroup#1}{%
12341     \def\baselinestretch{\m@m@footnote@spacing}%
12342     \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
12343     \bidi@LTRrigidbalance{\@nameuse{\mpfootins#1}}{4}{\splittopskip}}}%
12344 \bidi@ensure@newcommand{\fivecolumnfootnotes}{%
12345   \@namedef{\foottextfontv@r}{\foottextfont}% % [RS]
12346   \@namedef{\foottextfontv@l}{\LTRfoottextfont}%
12347   \@bidi@before@Hy@hyperfootnotes
12348   \let\@footnotetext\@fivecolfootnotetext
12349   \let\@LTRfootnotetext\@fivecolLTRfootnotetext
12350   \let\@RTLfootnotetext\@fivecolRTLfootnotetext
12351   \dimen\footinsv@r=5\footinsdim
12352   \count\footinsv@r=200\relax
12353   \m@make@fivecol@footgroup{v@r}%
12354   \let\@footgroupv@r\@fivecol@footgroupv@r
12355   \dimen\footinsv@l=5\footinsdim
12356   \count\footinsv@l=200\relax
12357   \bidi@make@fivecol@LTRfootgroup{v@l}%
12358   \let\@LTRfootgroupv@l\@fivecol@LTRfootgroupv@l
12359   \let\@mpfootnotetext\@mpfivecolfootnotetext
12360   \let\@mpLTRfootnotetext\@mpfivecolLTRfootnotetext
12361   \let\@mpRTLfootnotetext\@mpfivecolRTLfootnotetext
12362   \@bidi@after@Hy@hyperfootnotes
12363   \m@make@mpfivecol@footgroup{v@r}%
12364   \let\mp@footgroupv@r\@mpfivecol@footgroupv@r
12365   \bidi@make@mpfivecol@LTRfootgroup{v@l}%
12366   \let\mp@LTRfootgroupv@l\@mpfivecol@LTRfootgroupv@l
12367   \@ifstar\bidi@star@footmarkwidth\bidi@normal@footmarkwidth
12368 }
12369 \bidi@ensure@newcommand{\@fivecolfootnotetext}[1]{\insert
12370   \if@RTL@footnote
12371     \footinsv@r
12372   \else
12373     \footinsv@l
12374   \fi
12375 {\if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi%
12376   \def\baselinestretch{\m@m@footnote@spacing}%
12377   \reset@font\foottextfont
12378   \@preamfntext
12379   \protected@edef\@currentlabel{%
12380     \csname p@footnote\endcsname\@thefnmark}%
12381   \color@begingroup

```



```

12382 \fivecolfootfmt{#1}%
12383 \color@endgroup}%
12384 \m@mmf@prepare}
12385 \bidi@ensure@newcommand{\@fivecolLTRfootnotetext}[1]{\insert\footinsv@l{\@RTLfalse%
12386 \def\baselinestretch{\m@m@footnote@spacing}%
12387 \reset@font\LTRfoottextfont
12388 \@preamfntext
12389 \protected@edef\@currentlabel{%
12390 \csname p@footnote\endcsname\@thefnmark}%
12391 \color@begingroup
12392 \@fivecolLTRfootfmt{#1}%
12393 \color@endgroup}%
12394 \m@mmf@prepare}
12395 \bidi@ensure@newcommand{\@fivecolRTLfootnotetext}[1]{\insert\footinsv@r{\@RTLtrue%
12396 \def\baselinestretch{\m@m@footnote@spacing}%
12397 \reset@font\RTLfoottextfont
12398 \@preamfntext
12399 \protected@edef\@currentlabel{%
12400 \csname p@footnote\endcsname\@thefnmark}%
12401 \color@begingroup
12402 \@fivecolRTLfootfmt{#1}%
12403 \color@endgroup}%
12404 \m@mmf@prepare}
12405 \bidi@ensure@newcommand{\@preamfivefmt}{%
12406 \hspace{.2\hspace}
12407 \parindent=\z@
12408 \tolerance=5000\relax
12409 \leavevmode}
12410 \bidi@ensure@newcommand{\@fivecolfootfmt}[1]{%
12411 \@preamfivefmt
12412 {\footfootmark\strut {\foottextfont #1}\strut\par}\allowbreak}
12413 \bidi@ensure@newcommand{\@fivecolLTRfootfmt}[1]{%
12414 \@preamfivefmt
12415 {\LTRfootfootmark\strut {\LTRfoottextfont #1}\strut\par}\allowbreak}
12416 \bidi@ensure@newcommand{\@fivecolRTLfootfmt}[1]{%
12417 \@preamfivefmt
12418 {\RTLfootfootmark\strut {\RTLfoottextfont #1}\strut\par}\allowbreak}
12419 \bidi@ensure@newcommand{\@mpfivecolfootnotetext}[1]{%
12420 \global\setbox
12421 \if@RTL@footnote
12422 \@mpfootinsv@r
12423 \else
12424 \@mpfootinsv@l
12425 \fi
12426 \vbox{\if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi%
12427 \unvbox
12428 \if@RTL@footnote
12429 \@mpfootinsv@r
12430 \else
12431 \@mpfootinsv@l
12432 \fi
12433 \def\baselinestretch{\m@m@footnote@spacing}%
12434 \reset@font\foottextfont
12435 \hspace\columnwidth \@parboxrestore

```





```

12436 \protected@edef\@currentlabel{%
12437 \csname p@mpfootnote\endcsname\@thefnmark}%
12438 \color@begingroup
12439 \@@fivecolfootfmt{#1}%
12440 \color@endgroup}%
12441 \m@mmf@prepare}
12442 \bidi@ensure@newcommand{\@mpfivecolLTRfootnotetext}[1]{%
12443 \global\setbox\@mpfootinsv@l\vbox{\@RTLfalse%
12444 \unvbox\@mpfootinsv@l
12445 \def\baselinestretch{\m@m@footnote@spacing}%
12446 \reset@font\LTRfoottextfont
12447 \hsize\columnwidth \@parboxrestore
12448 \protected@edef\@currentlabel{%
12449 \csname p@mpfootnote\endcsname\@thefnmark}%
12450 \color@begingroup
12451 \@@fivecolLTRfootfmt{#1}%
12452 \color@endgroup}%
12453 \m@mmf@prepare}
12454 \bidi@ensure@newcommand{\@mpfivecolRTLfootnotetext}[1]{%
12455 \global\setbox\@mpfootinsv@r\vbox{\@RTLtrue%
12456 \unvbox\@mpfootinsv@r
12457 \def\baselinestretch{\m@m@footnote@spacing}%
12458 \reset@font\RTLfoottextfont
12459 \hsize\columnwidth \@parboxrestore
12460 \protected@edef\@currentlabel{%
12461 \csname p@mpfootnote\endcsname\@thefnmark}%
12462 \color@begingroup
12463 \@@fivecolRTLfootfmt{#1}%
12464 \color@endgroup}%
12465 \m@mmf@prepare}
12466 \bidi@ensure@newcommand{\m@make@fivecol@footgroup}[1]{%
12467 \@namedef{@fivecol@footgroup#1}{%
12468 \def\baselinestretch{\m@m@footnote@spacing}%
12469 \hsize\bidi@columnwidth
12470 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
12471 \m@mrigidbalance{\@nameuse{footins#1}}{5}{\splittopskip}}}%
12472 \newcommand{\bidi@make@fivecol@LTRfootgroup}[1]{%
12473 \@namedef{@fivecol@LTRfootgroup#1}{%
12474 \def\baselinestretch{\m@m@footnote@spacing}%
12475 \hsize\bidi@columnwidth
12476 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
12477 \bidi@LTRrigidbalance{\@nameuse{footins#1}}{5}{\splittopskip}}}%
12478 \bidi@ensure@newcommand{\m@make@mpfivecol@footgroup}[1]{%
12479 \@namedef{@mpfivecol@footgroup#1}{%
12480 \def\baselinestretch{\m@m@footnote@spacing}%
12481 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
12482 \m@mrigidbalance{\@nameuse{mpfootins#1}}{5}{\splittopskip}}}%
12483 \newcommand{\bidi@make@mpfivecol@LTRfootgroup}[1]{%
12484 \@namedef{@mpfivecol@LTRfootgroup#1}{%
12485 \def\baselinestretch{\m@m@footnote@spacing}%
12486 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
12487 \bidi@LTRrigidbalance{\@nameuse{mpfootins#1}}{5}{\splittopskip}}}%
12488 \bidi@ensure@newcommand{\sixcolumnfootnotes}{%
12489 \@namedef{foottextfontv@r}{\foottextfont}% % [RS]

```



```

12490 \@namedef{foottextfontv@l}{\LTRfoottextfont}%
12491 \@bidi@before@Hy@hyperfootnotes
12492 \let\@footnotetext\@sixcolfootnotetext
12493 \let\@LTRfootnotetext\@sixcolLTRfootnotetext
12494 \let\@RTLfootnotetext\@sixcolRTLfootnotetext
12495 \dimen\footinsv@r=6\footinsdim
12496 \count\footinsv@r=166\relax
12497 \m@make@sixcol@footgroup{v@r}%
12498 \let\@footgroupv@r\@sixcol@footgroupv@r
12499 \dimen\footinsv@l=6\footinsdim
12500 \count\footinsv@l=166\relax
12501 \bidi@make@sixcol@LTRfootgroup{v@l}%
12502 \let\@LTRfootgroupv@l\@sixcol@LTRfootgroupv@l
12503 \let\@mpfootnotetext\@mpsixcolfootnotetext
12504 \let\@mpLTRfootnotetext\@mpsixcolLTRfootnotetext
12505 \let\@mpRTLfootnotetext\@mpsixcolRTLfootnotetext
12506 \@bidi@after@Hy@hyperfootnotes
12507 \m@make@mpsixcol@footgroup{v@r}%
12508 \let\mp@footgroupv@r\@mpsixcol@footgroupv@r
12509 \bidi@make@mpsixcol@LTRfootgroup{v@l}%
12510 \let\mp@LTRfootgroupv@l\@mpsixcol@LTRfootgroupv@l
12511 \@ifstar\bidi@star@footmarkwidth\bidi@normal@footmarkwidth
12512 }
12513 \bidi@ensure@newcommand{\@sixcolfootnotetext}[1]{\insert
12514   \if@RTL@footnote
12515     \footinsv@r
12516   \else
12517     \footinsv@l
12518   \fi
12519 {\if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi%
12520   \def\baselinestretch{\m@mm@footnote@spacing}%
12521   \reset@font\foottextfont
12522   \@preamfntext
12523   \protected@edef\@currentlabel{%
12524     \csname p@footnote\endcsname\@thefnmark}%
12525   \color@begingroup
12526     \@sixcolfootfmt{#1}%
12527   \color@endgroup}%
12528   \m@mmf@prepare}
12529 \bidi@ensure@newcommand{\@sixcolLTRfootnotetext}[1]{\insert\footinsv@l{\@RTLfalse%
12530   \def\baselinestretch{\m@mm@footnote@spacing}%
12531   \reset@font\LTRfoottextfont
12532   \@preamfntext
12533   \protected@edef\@currentlabel{%
12534     \csname p@footnote\endcsname\@thefnmark}%
12535   \color@begingroup
12536     \@sixcolLTRfootfmt{#1}%
12537   \color@endgroup}%
12538   \m@mmf@prepare}
12539 \bidi@ensure@newcommand{\@sixcolRTLfootnotetext}[1]{\insert\footinsv@r{\@RTLtrue%
12540   \def\baselinestretch{\m@mm@footnote@spacing}%
12541   \reset@font\RTLfoottextfont
12542   \@preamfntext
12543   \protected@edef\@currentlabel{%

```



```

12544 \csname p@footnote\endcsname\@thefnmark}%
12545 \color@begingroup
12546 \@sixcolRTLfootfmt{#1}%
12547 \color@endgroup}%
12548 \m@mmf@prepare}
12549 \bidi@ensure@newcommand{\@preamsixfmt}{%
12550 \hsize .16\hsize
12551 \parindent=\z@
12552 \tolerance=5000\relax
12553 \leavevmode}
12554 \bidi@ensure@newcommand{\@sixcolfootfmt}[1]{%
12555 \@preamsixfmt
12556 {\footfootmark\strut {\foottextfont #1}\strut\par}\allowbreak}
12557 \bidi@ensure@newcommand{\@sixcolLTRfootfmt}[1]{%
12558 \@preamsixfmt
12559 {\LTRfootfootmark\strut {\LTRfoottextfont #1}\strut\par}\allowbreak}
12560 \bidi@ensure@newcommand{\@sixcolRTLfootfmt}[1]{%
12561 \@preamsixfmt
12562 {\RTLfootfootmark\strut {\RTLfoottextfont #1}\strut\par}\allowbreak}
12563 \bidi@ensure@newcommand{\@mpsixcolfootnotetext}[1]{\if@RTL@footnote\@RTLtrue\else\@RTLfalse}
12564 \global\setbox
12565 \if@RTL@footnote
12566 \@mpfootinsv@r
12567 \else
12568 \@mpfootinsv@l
12569 \fi
12570 \vbox{%
12571 \unvbox
12572 \if@RTL@footnote
12573 \@mpfootinsv@r
12574 \else
12575 \@mpfootinsv@l
12576 \fi
12577 \def\baselinestretch{\m@m@footnote@spacing}%
12578 \reset@font\foottextfont
12579 \hsize\columnwidth \@parboxrestore
12580 \protected@edef\@currentlabel{%
12581 \csname p@mpfootnote\endcsname\@thefnmark}%
12582 \color@begingroup
12583 \@sixcolfootfmt{#1}%
12584 \color@endgroup}%
12585 \m@mmf@prepare}
12586 \bidi@ensure@newcommand{\@mpsixcolLTRfootnotetext}[1]{\@RTLfalse}
12587 \global\setbox\@mpfootinsv@l\vbox{%
12588 \unvbox\@mpfootinsv@l
12589 \def\baselinestretch{\m@m@footnote@spacing}%
12590 \reset@font\LTRfoottextfont
12591 \hsize\columnwidth \@parboxrestore
12592 \protected@edef\@currentlabel{%
12593 \csname p@mpfootnote\endcsname\@thefnmark}%
12594 \color@begingroup
12595 \@sixcolLTRfootfmt{#1}%
12596 \color@endgroup}%
12597 \m@mmf@prepare}

```



```

12598 \bidi@ensure@newcommand{\@mpsixcolRTLfootnotetext}[1]{\@RTLtrue%
12599 \global\setbox\@mpfootinsv@r\vbox{%
12600 \unvbox\@mpfootinsv@r
12601 \def\baselinestretch{\m@m@footnote@spacing}%
12602 \reset@font\RTLfoottextfont
12603 \hsize\columnwidth \@parboxrestore
12604 \protected@edef\@currentlabel{%
12605 \csname p@mpfootnote\endcsname\@thefnmark}%
12606 \color@begingroup
12607 \@sixcolRTLfootfmt{#1}%
12608 \color@endgroup}%
12609 \m@m@prepare}
12610 \bidi@ensure@newcommand{\m@make@sixcol@footgroup}[1]{%
12611 \@namedef{\@sixcol@footgroup#1}{%
12612 \def\baselinestretch{\m@m@footnote@spacing}%
12613 \hsize\bidi@columnwidth
12614 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
12615 \m@mrigidbalance{\@nameuse{footins#1}}{6}{\splittopskip}}}}
12616 \newcommand{\bidi@make@sixcol@LTRfootgroup}[1]{%
12617 \@namedef{\@sixcol@LTRfootgroup#1}{%
12618 \def\baselinestretch{\m@m@footnote@spacing}%
12619 \hsize\bidi@columnwidth
12620 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
12621 \bidi@LTRrigidbalance{\@nameuse{footins#1}}{6}{\splittopskip}}}}
12622 \bidi@ensure@newcommand{\m@make@mpsixcol@footgroup}[1]{%
12623 \@namedef{\@mpsixcol@footgroup#1}{%
12624 \def\baselinestretch{\m@m@footnote@spacing}%
12625 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
12626 \m@mrigidbalance{\@nameuse{mpfootins#1}}{6}{\splittopskip}}}}
12627 \newcommand{\bidi@make@mpsixcol@LTRfootgroup}[1]{%
12628 \@namedef{\@mpsixcol@LTRfootgroup#1}{%
12629 \def\baselinestretch{\m@m@footnote@spacing}%
12630 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
12631 \bidi@LTRrigidbalance{\@nameuse{mpfootins#1}}{6}{\splittopskip}}}}
12632 \bidi@ensure@newcommand{\sevendcolumnfootnotes}{%
12633 \@namedef{foottextfontv@r}{\foottextfont}% % [RS]
12634 \@namedef{foottextfontv@l}{\LTRfoottextfont}%
12635 \@bidi@before@Hy@hyperfootnotes
12636 \let\@footnotetext\@sevendcolfootnotetext
12637 \let\@LTRfootnotetext\@sevendcolLTRfootnotetext
12638 \let\@RTLfootnotetext\@sevendcolRTLfootnotetext
12639 \dimen\footinsv@r=7\footinsdim
12640 \count\footinsv@r=142\relax
12641 \m@make@sevendcol@footgroup{v@r}%
12642 \let\@footgroupv@r\@sevendcol@footgroupv@r
12643 \dimen\footinsv@l=7\footinsdim
12644 \count\footinsv@l=142\relax
12645 \bidi@make@sevendcol@LTRfootgroup{v@l}%
12646 \let\@LTRfootgroupv@l\@sevendcol@LTRfootgroupv@l
12647 \let\@mpfootnotetext\@mpsevendcolfootnotetext
12648 \let\@mpLTRfootnotetext\@mpsevendcolLTRfootnotetext
12649 \let\@mpRTLfootnotetext\@mpsevendcolRTLfootnotetext
12650 \@bidi@after@Hy@hyperfootnotes
12651 \m@make@mpsevendcol@footgroup{v@r}%

```



```

12652 \let\mp@footgroupv@r\@mpsevenscol@footgroupv@r
12653 \bidi@make@mpsevenscol@LTRfootgroup{v@1}%
12654 \let\mp@LTRfootgroupv@1\@mpsevenscol@LTRfootgroupv@1
12655 \@ifstar\bidi@star@footmarkwidth\bidi@normal@footmarkwidth
12656 }
12657 \bidi@ensure@newcommand{\@sevenscolfootnotetext}[1]{\insert
12658 \if@RTL@footnote
12659 \footinsv@r
12660 \else
12661 \footinsv@l
12662 \fi
12663 {\if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi%
12664 \def\baselinestretch{\m@m@footnote@spacing}%
12665 \reset@font\foottextfont
12666 \@preamfntext
12667 \protected@edef\@currentlabel{%
12668 \csname p@footnote\endcsname\@thefnmark}%
12669 \color@begingroup
12670 \@sevenscolfootfmt{#1}%
12671 \color@endgroup}%
12672 \m@m@mmf@prepare}
12673 \bidi@ensure@newcommand{\@sevenscolLTRfootnotetext}[1]{\insert\footinsv@l{\@RTLfalse%
12674 \def\baselinestretch{\m@m@footnote@spacing}%
12675 \reset@font\LTRfoottextfont
12676 \@preamfntext
12677 \protected@edef\@currentlabel{%
12678 \csname p@footnote\endcsname\@thefnmark}%
12679 \color@begingroup
12680 \@sevenscolLTRfootfmt{#1}%
12681 \color@endgroup}%
12682 \m@m@mmf@prepare}
12683 \bidi@ensure@newcommand{\@sevenscolRTLfootnotetext}[1]{\insert\footinsv@r{\@RTLtrue%
12684 \def\baselinestretch{\m@m@footnote@spacing}%
12685 \reset@font\RTLfoottextfont
12686 \@preamfntext
12687 \protected@edef\@currentlabel{%
12688 \csname p@footnote\endcsname\@thefnmark}%
12689 \color@begingroup
12690 \@sevenscolRTLfootfmt{#1}%
12691 \color@endgroup}%
12692 \m@m@mmf@prepare}
12693 \bidi@ensure@newcommand{\@preamsevenfmt}{%
12694 \hsize .142\hsize
12695 \parindent=\z@
12696 \tolerance=5000\relax
12697 \leavevmode}
12698 \bidi@ensure@newcommand{\@sevenscolfootfmt}[1]{%
12699 \@preamsevenfmt
12700 {\footfootmark\strut {\foottextfont #1}\strut\par}\allowbreak}
12701 \bidi@ensure@newcommand{\@sevenscolLTRfootfmt}[1]{%
12702 \@preamsevenfmt
12703 {\LTRfootfootmark\strut {\LTRfoottextfont #1}\strut\par}\allowbreak}
12704 \bidi@ensure@newcommand{\@sevenscolRTLfootfmt}[1]{%
12705 \@preamsevenfmt

```



```

12706 {\RTLfootfootmark\strut {\RTLfoottextfont #1}\strut\par}\allowbreak}
12707 \bidi@ensure@newcommand{\@mpsevendcolfootnotetext}[1]{\if@RTL@footnote\@RTLtrue\else\@RTLfalse%
12708 \global\setbox
12709 \if@RTL@footnote
12710 \@mpfootinsv@r
12711 \else
12712 \@mpfootinsv@l
12713 \fi
12714 \vbox{%
12715 \unvbox
12716 \if@RTL@footnote
12717 \@mpfootinsv@r
12718 \else
12719 \@mpfootinsv@l
12720 \fi
12721 \def\baselinestretch{\m@m@footnote@spacing}%
12722 \reset@font\foottextfont
12723 \hsize\columnwidth \@parboxrestore
12724 \protected@edef\@currentlabel{%
12725 \csname p@mpfootnote\endcsname\@thefnmark}%
12726 \color@begingroup
12727 \@sevendcolfootfmt{#1}%
12728 \color@endgroup}%
12729 \m@m@mmf@prepare}
12730 \bidi@ensure@newcommand{\@mpsevendcolLTRfootnotetext}[1]{\@RTLfalse%
12731 \global\setbox\@mpfootinsv@l\vbox{%
12732 \unvbox\@mpfootinsv@l
12733 \def\baselinestretch{\m@m@footnote@spacing}%
12734 \reset@font\LTRfoottextfont
12735 \hsize\columnwidth \@parboxrestore
12736 \protected@edef\@currentlabel{%
12737 \csname p@mpfootnote\endcsname\@thefnmark}%
12738 \color@begingroup
12739 \@sevendcolLTRfootfmt{#1}%
12740 \color@endgroup}%
12741 \m@m@mmf@prepare}
12742 \bidi@ensure@newcommand{\@mpsevendcolRTLfootnotetext}[1]{\@RTLtrue%
12743 \global\setbox\@mpfootinsv@r\vbox{%
12744 \unvbox\@mpfootinsv@r
12745 \def\baselinestretch{\m@m@footnote@spacing}%
12746 \reset@font\RTLfoottextfont
12747 \hsize\columnwidth \@parboxrestore
12748 \protected@edef\@currentlabel{%
12749 \csname p@mpfootnote\endcsname\@thefnmark}%
12750 \color@begingroup
12751 \@sevendcolRTLfootfmt{#1}%
12752 \color@endgroup}%
12753 \m@m@mmf@prepare}
12754 \bidi@ensure@newcommand{\m@make@sevendcol@footgroup}[1]{%
12755 \@namedef{\@sevendcol@footgroup#1}{%
12756 \def\baselinestretch{\m@m@footnote@spacing}%
12757 \hsize\bidi@columnwidth
12758 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
12759 \m@m@rigidbalance{\@nameuse{footins#1}}{7}{\splittopskip}}}}

```



```

12760 \newcommand{\bidi@make@sevenscol@LTRfootgroup}[1]{%
12761   \@namedef{@sevenscol@LTRfootgroup#1}{%
12762     \def\baselinestretch{\m@m@footnote@spacing}%
12763     \hsize\bidi@columnwidth
12764     \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
12765     \bidi@LTRrigidbalance{\@nameuse{footins#1}}{7}{\splittopskip}}}%
12766 \bidi@ensure@newcommand{\m@make@mpsevenscol@footgroup}[1]{%
12767   \@namedef{@mpsevenscol@footgroup#1}{%
12768     \def\baselinestretch{\m@m@footnote@spacing}%
12769     \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
12770     \m@mrigidbalance{\@nameuse{@mpfootins#1}}{7}{\splittopskip}}}%
12771 \newcommand{\bidi@make@mpsevenscol@LTRfootgroup}[1]{%
12772   \@namedef{@mpsevenscol@LTRfootgroup#1}{%
12773     \def\baselinestretch{\m@m@footnote@spacing}%
12774     \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
12775     \bidi@LTRrigidbalance{\@nameuse{@mpfootins#1}}{7}{\splittopskip}}}%
12776 \bidi@ensure@newcommand{\eightcolumnfootnotes}{%
12777   \@namedef{foottextfontv@r}{\foottextfont}% % [RS]
12778   \@namedef{foottextfontv@l}{\LTRfoottextfont}%
12779   \@bidi@before@Hy@hyperfootnotes
12780   \let\@footnotetext\@eightcolfootnotetext
12781   \let\@LTRfootnotetext\@eightcolLTRfootnotetext
12782   \let\@RTLfootnotetext\@eightcolRTLfootnotetext
12783   \dimen\footinsv@r=8\footinsdim
12784   \count\footinsv@r=125\relax
12785   \m@make@eightcol@footgroup{v@r}%
12786   \let\@footgroupv@r\@eightcol@footgroupv@r
12787   \dimen\footinsv@l=8\footinsdim
12788   \count\footinsv@l=125\relax
12789   \bidi@make@eightcol@LTRfootgroup{v@l}%
12790   \let\@LTRfootgroupv@l\@eightcol@LTRfootgroupv@l
12791   \let\@mpfootnotetext\@mpeightcolfootnotetext
12792   \let\@mpLTRfootnotetext\@mpeightcolLTRfootnotetext
12793   \let\@mpRTLfootnotetext\@mpeightcolRTLfootnotetext
12794   \@bidi@after@Hy@hyperfootnotes
12795   \m@make@mpeightcol@footgroup{v@r}%
12796   \let\mp@footgroupv@r\@mpeightcol@footgroupv@r
12797   \bidi@make@mpeightcol@LTRfootgroup{v@l}%
12798   \let\mp@LTRfootgroupv@l\@mpeightcol@LTRfootgroupv@l
12799   \@ifstar\bidi@star@footmarkwidth\bidi@normal@footmarkwidth
12800 }
12801 \bidi@ensure@newcommand{\@eightcolfootnotetext}[1]{\insert
12802   \if@RTL@footnote
12803     \footinsv@r
12804   \else
12805     \footinsv@l
12806   \fi
12807 {\if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi%
12808   \def\baselinestretch{\m@m@footnote@spacing}%
12809   \reset@font\foottextfont
12810   \@preamfntext
12811   \protected@edef\@currentlabel{%
12812     \csname p@footnote\endcsname\@thefnmark}%
12813   \color@begingroup

```



```

12814 \eightcolfootfmt{#1}%
12815 \color@endgroup}%
12816 \m@mmf@prepare}
12817 \bidi@ensure@newcommand{\@eightcolLTRfootnotetext}[1]{\insert\footinsv@l{\@RTLfalse%
12818 \def\baselinestretch{\m@m@footnote@spacing}%
12819 \reset@font\LTRfoottextfont
12820 \@preamfntext
12821 \protected@edef\@currentlabel{%
12822 \csname p@footnote\endcsname\@thefnmark}%
12823 \color@begingroup
12824 \eightcolLTRfootfmt{#1}%
12825 \color@endgroup}%
12826 \m@mmf@prepare}
12827 \bidi@ensure@newcommand{\@eightcolRTLfootnotetext}[1]{\insert\footinsv@r{\@RTLtrue%
12828 \def\baselinestretch{\m@m@footnote@spacing}%
12829 \reset@font\RTLfoottextfont
12830 \@preamfntext
12831 \protected@edef\@currentlabel{%
12832 \csname p@footnote\endcsname\@thefnmark}%
12833 \color@begingroup
12834 \eightcolRTLfootfmt{#1}%
12835 \color@endgroup}%
12836 \m@mmf@prepare}
12837 \bidi@ensure@newcommand{\@preameightfmt}{%
12838 \hspace{.125\hspace}
12839 \parindent=\z@
12840 \tolerance=5000\relax
12841 \leavevmode}
12842 \bidi@ensure@newcommand{\@eightcolfootfmt}[1]{%
12843 \@preameightfmt
12844 {\footfootmark\strut {\foottextfont #1}\strut\par}\allowbreak}
12845 \bidi@ensure@newcommand{\@eightcolLTRfootfmt}[1]{%
12846 \@preameightfmt
12847 {\LTRfootfootmark\strut {\LTRfoottextfont #1}\strut\par}\allowbreak}
12848 \bidi@ensure@newcommand{\@eightcolRTLfootfmt}[1]{%
12849 \@preameightfmt
12850 {\RTLfootfootmark\strut {\RTLfoottextfont #1}\strut\par}\allowbreak}
12851 \bidi@ensure@newcommand{\@mpeightcolfootnotetext}[1]{%
12852 \global\setbox
12853 \if@RTL@footnote
12854 \@mpfootinsv@r
12855 \else
12856 \@mpfootinsv@l
12857 \fi
12858 \vbox{\if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi%
12859 \unvbox
12860 \if@RTL@footnote
12861 \@mpfootinsv@r
12862 \else
12863 \@mpfootinsv@l
12864 \fi
12865 \def\baselinestretch{\m@m@footnote@spacing}%
12866 \reset@font\foottextfont
12867 \hspace\columnwidth \@parboxrestore

```





```

12868 \protected@edef\@currentlabel{%
12869 \csname p@mpfootnote\endcsname\@thefnmark}%
12870 \color@begingroup
12871 \@eightcolfootfmt{#1}%
12872 \color@endgroup}%
12873 \m@mmf@prepare}
12874 \bidi@ensure@newcommand{\@mpeightcolLTRfootnotetext}[1]{%
12875 \global\setbox\@mpfootinsv@l\vbox{\@RTLfalse%
12876 \unvbox\@mpfootinsv@l
12877 \def\baselinestretch{\m@m@footnote@spacing}%
12878 \reset@font\LTRfoottextfont
12879 \hsize\columnwidth \@parboxrestore
12880 \protected@edef\@currentlabel{%
12881 \csname p@mpfootnote\endcsname\@thefnmark}%
12882 \color@begingroup
12883 \@eightcolLTRfootfmt{#1}%
12884 \color@endgroup}%
12885 \m@mmf@prepare}
12886 \bidi@ensure@newcommand{\@mpeightcolRTLfootnotetext}[1]{%
12887 \global\setbox\@mpfootinsv@r\vbox{\@RTLtrue%
12888 \unvbox\@mpfootinsv@r
12889 \def\baselinestretch{\m@m@footnote@spacing}%
12890 \reset@font\RTLfoottextfont
12891 \hsize\columnwidth \@parboxrestore
12892 \protected@edef\@currentlabel{%
12893 \csname p@mpfootnote\endcsname\@thefnmark}%
12894 \color@begingroup
12895 \@eightcolRTLfootfmt{#1}%
12896 \color@endgroup}%
12897 \m@mmf@prepare}
12898 \bidi@ensure@newcommand{\m@make@eightcol@footgroup}[1]{%
12899 \@namedef{@eightcol@footgroup#1}{%
12900 \def\baselinestretch{\m@m@footnote@spacing}%
12901 \hsize\bidi@columnwidth
12902 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
12903 \m@mrigidbalance{\@nameuse{footins#1}}{8}{\splittopskip}}}%
12904 \newcommand{\bidi@make@eightcol@LTRfootgroup}[1]{%
12905 \@namedef{@eightcol@LTRfootgroup#1}{%
12906 \def\baselinestretch{\m@m@footnote@spacing}%
12907 \hsize\bidi@columnwidth
12908 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
12909 \bidi@LTRrigidbalance{\@nameuse{footins#1}}{8}{\splittopskip}}}%
12910 \bidi@ensure@newcommand{\m@make@mpeightcol@footgroup}[1]{%
12911 \@namedef{@mpeightcol@footgroup#1}{%
12912 \def\baselinestretch{\m@m@footnote@spacing}%
12913 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
12914 \m@mrigidbalance{\@nameuse{mpfootins#1}}{8}{\splittopskip}}}%
12915 \newcommand{\bidi@make@mpeightcol@LTRfootgroup}[1]{%
12916 \@namedef{@mpeightcol@LTRfootgroup#1}{%
12917 \def\baselinestretch{\m@m@footnote@spacing}%
12918 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
12919 \bidi@LTRrigidbalance{\@nameuse{mpfootins#1}}{8}{\splittopskip}}}%
12920 \bidi@ensure@newcommand{\ninecolumnfootnotes}{%
12921 \@namedef{foottextfontv@r}{\foottextfont}% % [RS]

```



```

12922 \@namedef{foottextfontv@l}{\LTRfoottextfont}%
12923 \@bidi@before@Hy@hyperfootnotes
12924 \let\@footnotetext\@ninecolfootnotetext
12925 \let\@LTRfootnotetext\@ninecollTRfootnotetext
12926 \let\@RTLfootnotetext\@ninecolRTLfootnotetext
12927 \dimen\footinsv@r=9\footinsdim
12928 \count\footinsv@r=111\relax
12929 \m@make@ninecol@footgroup{v@r}%
12930 \let\@footgroupv@r\@ninecol@footgroupv@r
12931 \dimen\footinsv@l=9\footinsdim
12932 \count\footinsv@l=111\relax
12933 \bidi@make@ninecol@LTRfootgroup{v@l}%
12934 \let\@LTRfootgroupv@l\@ninecol@LTRfootgroupv@l
12935 \let\@mpfootnotetext\@mpninecolfootnotetext
12936 \let\@mpLTRfootnotetext\@mpninecollTRfootnotetext
12937 \let\@mpRTLfootnotetext\@mpninecolRTLfootnotetext
12938 \@bidi@after@Hy@hyperfootnotes
12939 \m@make@mpninecol@footgroup{v@r}%
12940 \let\mp@footgroupv@r\@mpninecol@footgroupv@r
12941 \bidi@make@mpninecol@LTRfootgroup{v@l}%
12942 \let\mp@LTRfootgroupv@l\@mpninecol@LTRfootgroupv@l
12943 \@ifstar\bidi@star@footmarkwidth\bidi@normal@footmarkwidth
12944 }
12945 \bidi@ensure@newcommand{\@ninecolfootnotetext}[1]{\insert
12946   \if@RTL@footnote
12947     \footinsv@r
12948   \else
12949     \footinsv@l
12950   \fi
12951 {\if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi%
12952   \def\baselinestretch{\m@f@footnote@spacing}%
12953   \reset@font\foottextfont
12954   \@preamfntext
12955   \protected@edef\@currentlabel{%
12956     \csname p@footnote\endcsname\@thefnmark}%
12957   \color@begingroup
12958     \@ninecolfootfmt{#1}%
12959   \color@endgroup}%
12960   \m@mmf@prepare}
12961 \bidi@ensure@newcommand{\@ninecollTRfootnotetext}[1]{\insert\footinsv@l{\@RTLfalse%
12962   \def\baselinestretch{\m@f@footnote@spacing}%
12963   \reset@font\LTRfoottextfont
12964   \@preamfntext
12965   \protected@edef\@currentlabel{%
12966     \csname p@footnote\endcsname\@thefnmark}%
12967   \color@begingroup
12968     \@ninecollTRfootfmt{#1}%
12969   \color@endgroup}%
12970   \m@mmf@prepare}
12971 \bidi@ensure@newcommand{\@ninecolRTLfootnotetext}[1]{\insert\footinsv@r{\@RTLtrue%
12972   \def\baselinestretch{\m@f@footnote@spacing}%
12973   \reset@font\RTLfoottextfont
12974   \@preamfntext
12975   \protected@edef\@currentlabel{%

```



```

12976 \csname p@footnote\endcsname\@thefnmark}%
12977 \color@begingroup
12978 \@ninecolRTLfootfmt{#1}%
12979 \color@endgroup}%
12980 \m@mmf@prepare}
12981 \bidi@ensure@newcommand{\@preamninefmt}{%
12982 \hspace .1\hspace
12983 \parindent=\z@
12984 \tolerance=5000\relax
12985 \leavevmode}
12986 \bidi@ensure@newcommand{\@ninecolfootfmt}[1]{%
12987 \@preamninefmt
12988 {\footfootmark\strut {\foottextfont #1}\strut\par}\allowbreak}
12989 \bidi@ensure@newcommand{\@ninecolLTRfootfmt}[1]{%
12990 \@preamninefmt
12991 {\LTRfootfootmark\strut {\LTRfoottextfont #1}\strut\par}\allowbreak}
12992 \bidi@ensure@newcommand{\@ninecolRTLfootfmt}[1]{%
12993 \@preamninefmt
12994 {\RTLfootfootmark\strut {\RTLfoottextfont #1}\strut\par}\allowbreak}
12995 \bidi@ensure@newcommand{\@mpninecolfootnotetext}[1]{%
12996 \global\setbox
12997 \if@RTL@footnote
12998 \@mpfootinsv@r
12999 \else
13000 \@mpfootinsv@l
13001 \fi
13002 \vbox{\if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi%
13003 \unvbox
13004 \if@RTL@footnote
13005 \@mpfootinsv@r
13006 \else
13007 \@mpfootinsv@l
13008 \fi
13009 \def\baselinestretch{\m@m@footnote@spacing}%
13010 \reset@font\foottextfont
13011 \hspace\columnwidth \@parboxrestore
13012 \protected@edef\@currentlabel{%
13013 \csname p@mpfootnote\endcsname\@thefnmark}%
13014 \color@begingroup
13015 \@ninecolfootfmt{#1}%
13016 \color@endgroup}%
13017 \m@mmf@prepare}
13018 \bidi@ensure@newcommand{\@mpninecolLTRfootnotetext}[1]{%
13019 \global\setbox\@mpfootinsv@l\vbox{\@RTLfalse%
13020 \unvbox\@mpfootinsv@l
13021 \def\baselinestretch{\m@m@footnote@spacing}%
13022 \reset@font\LTRfoottextfont
13023 \hspace\columnwidth \@parboxrestore
13024 \protected@edef\@currentlabel{%
13025 \csname p@mpfootnote\endcsname\@thefnmark}%
13026 \color@begingroup
13027 \@ninecolLTRfootfmt{#1}%
13028 \color@endgroup}%
13029 \m@mmf@prepare}

```



```

13030 \bidi@ensure@newcommand{\@mpninecolRTLfootnotetext}[1]{%
13031   \global\setbox\@mpfootinsv@r\vbox{\@RTLtrue%
13032     \unvbox\@mpfootinsv@r
13033     \def\baselinestretch{\m@m@footnote@spacing}%
13034     \reset@font\RTLfoottextfont
13035     \hsize\columnwidth \@parboxrestore
13036     \protected@edef\@currentlabel{%
13037       \csname p@mpfootnote\endcsname\@thefnmark}%
13038     \color@begingroup
13039     \@ninecolRTLfootfmt{#1}%
13040     \color@endgroup}%
13041     \m@mmf@prepare}
13042 \bidi@ensure@newcommand{\m@make@ninecol@footgroup}[1]{%
13043   \@namedef{\@ninecol@footgroup#1}{%
13044     \def\baselinestretch{\m@m@footnote@spacing}%
13045     \hsize\bidi@columnwidth
13046     \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
13047     \m@r@rigidbalance{\@nameuse{footins#1}}{9}{\splittopskip}}}}
13048 \newcommand{\bidi@make@ninecol@LTRfootgroup}[1]{%
13049   \@namedef{\@ninecol@LTRfootgroup#1}{%
13050     \def\baselinestretch{\m@m@footnote@spacing}%
13051     \hsize\bidi@columnwidth
13052     \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
13053     \bidi@LTR@rigidbalance{\@nameuse{footins#1}}{9}{\splittopskip}}}}
13054 \bidi@ensure@newcommand{\m@make@mpninecol@footgroup}[1]{%
13055   \@namedef{\@mpninecol@footgroup#1}{%
13056     \def\baselinestretch{\m@m@footnote@spacing}%
13057     \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
13058     \m@r@rigidbalance{\@nameuse{\@mpfootins#1}}{9}{\splittopskip}}}}
13059 \newcommand{\bidi@make@mpninecol@LTRfootgroup}[1]{%
13060   \@namedef{\@mpninecol@LTRfootgroup#1}{%
13061     \def\baselinestretch{\m@m@footnote@spacing}%
13062     \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
13063     \bidi@LTR@rigidbalance{\@nameuse{\@mpfootins#1}}{9}{\splittopskip}}}}
13064 \bidi@ensure@newcommand{\tencolumnfootnotes}{%
13065   \@namedef{foottextfontv@r}{\foottextfont}% % [RS]
13066   \@namedef{foottextfontv@l}{\LTRfoottextfont}%
13067   \@bidi@before@Hy@hyperfootnotes
13068   \let\@footnotetext\@tencolfootnotetext
13069   \let\@LTRfootnotetext\@tencolLTRfootnotetext
13070   \let\@RTLfootnotetext\@tencolRTLfootnotetext
13071   \dimen\footinsv@r=10\footinsdim
13072   \count\footinsv@r=100\relax
13073   \m@make@tencol@footgroup{v@r}%
13074   \let\@footgroupv@r\@tencol@footgroupv@r
13075   \dimen\footinsv@l=10\footinsdim
13076   \count\footinsv@l=100\relax
13077   \bidi@make@tencol@LTRfootgroup{v@l}%
13078   \let\@LTRfootgroupv@l\@tencol@LTRfootgroupv@l
13079   \let\@mpfootnotetext\@mptencolfootnotetext
13080   \let\@mpLTRfootnotetext\@mptencolLTRfootnotetext
13081   \let\@mpRTLfootnotetext\@mptencolRTLfootnotetext
13082   \@bidi@after@Hy@hyperfootnotes
13083   \m@make@mptencol@footgroup{v@r}%

```



```

13084 \let\mp@footgroupv@r\@mptencol@footgroupv@r
13085 \bidi@make@mptencol@LTRfootgroup{v@1}%
13086 \let\mp@LTRfootgroupv@1\@mptencol@LTRfootgroupv@1
13087 \@ifstar\bidi@star@footmarkwidth\bidi@normal@footmarkwidth
13088 }
13089 \bidi@ensure@newcommand{\@tencolfootnotetext}[1]{\insert
13090 \if@RTL@footnote
13091 \footinsv@r
13092 \else
13093 \footinsv@l
13094 \fi
13095 {\if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi%
13096 \def\baselinestretch{\m@m@footnote@spacing}%
13097 \reset@font\foottextfont
13098 \@preamfntext
13099 \protected@edef\@currentlabel{%
13100 \csname p@footnote\endcsname\@thefnmark}%
13101 \color@begingroup
13102 \@tencolfootfmt{#1}%
13103 \color@endgroup}%
13104 \m@m@mmf@prepare}
13105 \bidi@ensure@newcommand{\@tencolLTRfootnotetext}[1]{\insert\footinsv@l{\@RTLfalse%
13106 \def\baselinestretch{\m@m@footnote@spacing}%
13107 \reset@font\LTRfoottextfont
13108 \@preamfntext
13109 \protected@edef\@currentlabel{%
13110 \csname p@footnote\endcsname\@thefnmark}%
13111 \color@begingroup
13112 \@tencolLTRfootfmt{#1}%
13113 \color@endgroup}%
13114 \m@m@mmf@prepare}
13115 \bidi@ensure@newcommand{\@tencolRTLfootnotetext}[1]{\insert\footinsv@r{\@RTLtrue%
13116 \def\baselinestretch{\m@m@footnote@spacing}%
13117 \reset@font\RTLfoottextfont
13118 \@preamfntext
13119 \protected@edef\@currentlabel{%
13120 \csname p@footnote\endcsname\@thefnmark}%
13121 \color@begingroup
13122 \@tencolRTLfootfmt{#1}%
13123 \color@endgroup}%
13124 \m@m@mmf@prepare}
13125 \bidi@ensure@newcommand{\@preamtenfmt}{%
13126 \hsize .1\hsize
13127 \parindent=\z@
13128 \tolerance=5000\relax
13129 \leavevmode}
13130 \bidi@ensure@newcommand{\@tencolfootfmt}[1]{%
13131 \@preamtenfmt
13132 {\footfootmark\strut {\foottextfont #1}\strut\par}\allowbreak}
13133 \bidi@ensure@newcommand{\@tencolLTRfootfmt}[1]{%
13134 \@preamtenfmt
13135 {\LTRfootfootmark\strut {\LTRfoottextfont #1}\strut\par}\allowbreak}
13136 \bidi@ensure@newcommand{\@tencolRTLfootfmt}[1]{%
13137 \@preamtenfmt

```



```

13138 {\RTLfootfootmark\strut {\RTLfoottextfont #1}\strut\par}\allowbreak}
13139 \bidi@ensure@newcommand{\@mptencolfootnotetext}[1]{%
13140   \global\setbox
13141     \if@RTL@footnote
13142     \@mpfootinsv@r
13143   \else
13144     \@mpfootinsv@l
13145   \fi
13146   \vbox{\if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi%
13147     \unvbox
13148     \if@RTL@footnote
13149     \@mpfootinsv@r
13150   \else
13151     \@mpfootinsv@l
13152   \fi
13153     \def\baselinestretch{\m@m@footnote@spacing}%
13154     \reset@font\foottextfont
13155     \hsize\columnwidth \@parboxrestore
13156     \protected@edef\@currentlabel{%
13157       \csname p@mpfootnote\endcsname\@thefnmark}%
13158     \color@begingroup
13159       \@tencolfootfmt{#1}%
13160     \color@endgroup}%
13161   \m@m@mmf@prepare}
13162 \bidi@ensure@newcommand{\@mptencolLTRfootnotetext}[1]{%
13163   \global\setbox\@mpfootinsv@l\vbox{\@RTLfalse%
13164     \unvbox\@mpfootinsv@l
13165     \def\baselinestretch{\m@m@footnote@spacing}%
13166     \reset@font\LTRfoottextfont
13167     \hsize\columnwidth \@parboxrestore
13168     \protected@edef\@currentlabel{%
13169       \csname p@mpfootnote\endcsname\@thefnmark}%
13170     \color@begingroup
13171       \@tencolLTRfootfmt{#1}%
13172     \color@endgroup}%
13173   \m@m@mmf@prepare}
13174 \bidi@ensure@newcommand{\@mptencolRTLfootnotetext}[1]{%
13175   \global\setbox\@mpfootinsv@r\vbox{\@RTLtrue%
13176     \unvbox\@mpfootinsv@r
13177     \def\baselinestretch{\m@m@footnote@spacing}%
13178     \reset@font\RTLfoottextfont
13179     \hsize\columnwidth \@parboxrestore
13180     \protected@edef\@currentlabel{%
13181       \csname p@mpfootnote\endcsname\@thefnmark}%
13182     \color@begingroup
13183       \@tencolRTLfootfmt{#1}%
13184     \color@endgroup}%
13185   \m@m@mmf@prepare}
13186 \bidi@ensure@newcommand{\m@make@tencol@footgroup}[1]{%
13187   \@namedef{\tencol@footgroup#1}{%
13188     \def\baselinestretch{\m@m@footnote@spacing}%
13189     \hsize\bidi@columnwidth
13190     \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
13191     \m@m@rigidbalance{\@nameuse{footins#1}}{10}{\splittopskip}}}

```



```

13192 \newcommand{\bidi@make@tencol@LTRfootgroup}[1]{%
13193   \@namedef{@tencol@LTRfootgroup#1}{%
13194     \def\baselinestretch{\m@m@footnote@spacing}%
13195     \hsize\bidi@columnwidth
13196     \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
13197     \bidi@LTRrigidbalance{\@nameuse{footins#1}}{10}{\splittopskip}}}%
13198 \bidi@ensure@newcommand{\m@make@mptencol@footgroup}[1]{%
13199   \@namedef{@mptencol@footgroup#1}{%
13200     \def\baselinestretch{\m@m@footnote@spacing}%
13201     \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
13202     \m@mrigidbalance{\@nameuse{mpfootins#1}}{10}{\splittopskip}}}%
13203 \newcommand{\bidi@make@mptencol@LTRfootgroup}[1]{%
13204   \@namedef{@mptencol@LTRfootgroup#1}{%
13205     \def\baselinestretch{\m@m@footnote@spacing}%
13206     \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
13207     \bidi@LTRrigidbalance{\@nameuse{mpfootins#1}}{10}{\splittopskip}}}%
13208 \bidi@ensure@newcommand{\m@munvxh}[1]{%
13209   \setbox0=\vbox{\unvbox#1%
13210     \global\setbox1=\lastbox}%
13211   \unhbox1
13212   \unskip
13213   \unskip
13214   \unpenalty
13215   \hskip\m@mipn@skip}
13216 \bidi@ensure@newcommand{\m@mungebox}{%
13217   \setbox0=\hbox{\m@munvxh0}%
13218   \dp0=\z@
13219   \ht0=\footfudgefactor\wd0
13220   \box0
13221   \penalty0}
13222 \newskip\m@mipn@skip
13223 \bidi@ensure@newcommand*{\m@minterparanoteglua}[1]{%
13224   {\foottextfont\global\m@mipn@skip=#1\relax}}
13225 \m@minterparanoteglua{1em plus.3em minus.3em}
13226 \bidi@ensure@newcommand*{\m@makehboxofhboxes}{%
13227   \setbox0=\hbox{}%
13228   \loop
13229     \unpenalty
13230     \setbox2=\lastbox
13231     \ifhbox2
13232       \setbox0=\hbox{\box2\unhbox0}
13233     \repeat}
13234 \bidi@ensure@newcommand*{\m@mremovehboxes}{\setbox0=\lastbox
13235   \ifhbox0{\m@mremovehboxes}\unhbox0 \fi}
13236 \newcommand*{\AddExtraParaSkip}[1]{%
13237   \def\bidi@xparaskip{\advance\@tempdima#1\relax}%
13238 }
13239 \let\bidi@xparaskip\relax
13240 \@onlypreamble\AddExtraParaSkip
13241 \@onlypreamble\bidi@xparaskip
13242 \def\bidi@startparafootskip#1{%
13243   \global\advance\skip#1\bidi@paraskip
13244 }
13245 \@onlypreamble\bidi@startparafootskip

```



```

13246 \bidi@ensure@newcommand{\paragraphfootnotes}{%
13247   \@namedef{foottextfontv@r}{\foottextfont}% % [RS]
13248   \@namedef{foottextfontv@l}{\LTRfoottextfont}%
13249   \@bidi@before@Hy@hyperfootnotes
13250   \let\@footnotetext\@parafootnotetext
13251   \let\@LTRfootnotetext\@paraLTRfootnotetext
13252   \let\@RTLfootnotetext\@paraRTLfootnotetext
13253   \dimen\footinsv@r=\footinsdim
13254   \count\footinsv@r=1000\relax
13255   \let\bidi@removexfootskip\bidi@removexparafootskip
13256   \m@make@para@footgroup{v@r}%
13257   \m@make@para@footstart{v@r}%
13258   \let\@footgroupv@r\@para@footgroupv@r
13259   \let\@footstartv@r\@para@footstartv@r
13260   \dimen\footinsv@l=\footinsdim
13261   \count\footinsv@l=1000\relax
13262   \bidi@make@para@LTRfootgroup{v@l}%
13263   \m@make@para@footstart{v@l}%
13264   \let\@LTRfootgroupv@l\@para@LTRfootgroupv@l
13265   \let\@footstartv@l\@para@footstartv@l
13266   \let\@mpfootnotetext\@mpparafootnotetext
13267   \let\@mpLTRfootnotetext\@mpparaLTRfootnotetext
13268   \let\@mpRTLfootnotetext\@mpparaRTLfootnotetext
13269   \@bidi@after@Hy@hyperfootnotes
13270   \m@make@mppara@footgroup{v@r}%
13271   \bidi@make@mppara@LTRfootgroup{v@l}%
13272   \let\mp@footgroupv@r\@mppara@footgroupv@r
13273   \let\mp@LTRfootgroupv@l\@mppara@LTRfootgroupv@l
13274   \g@addto@macro\bidi@floathook{%
13275     \begingroup
13276       \foottextfont \@tempdima\normalbaselineskip
13277       \multiply \@tempdima \@cclvi
13278       \@tempdimb \columnwidth
13279       \divide \@tempdimb \@cclvi
13280       \divide \@tempdima \@tempdimb
13281       \xdef\footfudgefactor{\strip@pt\@tempdima}%
13282     \endgroup
13283   }
13284   \AtBeginDocument{%
13285     \begingroup
13286       \foottextfont
13287       \@tempdima\footnotesep
13288       \advance\@tempdima -\ht\strutbox
13289       \ifdim\@tempdima<\z@ \@tempdima\z@ \fi
13290       \advance\@tempdima.5\normalbaselineskip
13291       \bidi@xparaskip
13292       \xdef\bidi@paraskip{\the\@tempdima\relax}%
13293     \endgroup
13294     \bidi@startparafootskip\footinsv@r
13295     \bidi@startparafootskip\footinsv@l
13296   }
13297   \@ifstar\bidi@star@footmarkwidth\bidi@normal@footmarkwidth
13298 }
13299 \newcommand{\normalRTLparaLTRfootnotes}{%

```





```

13300 \@namedef{foottextfontv@1}{\LTRfoottextfont}%
13301 \@bidi@before@Hy@hyperfootnotes
13302 \if@RTL@footnote
13303   \let\@footnotetext\m@mold@footnotetext
13304 \else
13305   \let\@footnotetext\@parafootnotetext
13306 \fi
13307 \let\@LTRfootnotetext\@paraLTRfootnotetext
13308 \let\@RTLfootnotetext\m@mold@RTLfootnotetext
13309 \dimen\footinsv@1=\footinsdim
13310 \count\footinsv@1=1000\relax
13311 \let\@bidi@removexfootskip\@bidi@removexparafootskip
13312 \bidi@make@para@LTRfootgroup{v@1}%
13313 \m@make@para@footstart{v@1}%
13314 \let\@LTRfootgroupv@1\@para@LTRfootgroupv@1
13315 \let\@footstartv@1\@para@footstartv@1
13316 \if@RTL@footnote
13317   \let\@mpfootnotetext\m@mold@mpfootnotetext
13318 \else
13319   \let\@mpfootnotetext\@mpparafootnotetext
13320 \fi
13321 \let\@mpLTRfootnotetext\@mpparaLTRfootnotetext
13322 \let\@mpRTLfootnotetext\m@mold@mpRTLfootnotetext
13323 \@bidi@after@Hy@hyperfootnotes
13324 \bidi@make@mppara@LTRfootgroup{v@1}%
13325 \let\@mp@LTRfootgroupv@1\@mppara@LTRfootgroupv@1
13326 \g@addto@macro\@bidi@floathook{%
13327   \begingroup
13328     \LTRfoottextfont \@tempdima\normalbaselineskip
13329     \multiply \@tempdima \@cclvi
13330     \@tempdimb \columnwidth
13331     \divide \@tempdimb \@cclvi
13332     \divide \@tempdima \@tempdimb
13333     \xdef\footfudgefactor{\strip@pt\@tempdima}%
13334   \endgroup
13335 }
13336 \AtBeginDocument{%
13337   \begingroup
13338     \LTRfoottextfont
13339     \@tempdima\footnotesep
13340     \advance\@tempdima -\ht\strutbox
13341     \ifdim\@tempdima<\z@ \@tempdima\z@ \fi
13342     \advance\@tempdima.5\normalbaselineskip
13343     \bidi@xparaskip
13344     \xdef\@bidi@paraskip{\the\@tempdima\relax}%
13345   \endgroup
13346   \bidi@startparafootskip\footinsv@1
13347 }
13348 \@ifstar\@bidi@star@footmarkwidth\@bidi@normal@footmarkwidth
13349 }
13350 \bidi@ensure@newcommand{\@parafootnotetext}[1]{\insert
13351   \if@RTL@footnote
13352     \footinsv@r
13353   \else

```



```

13354 \footinsv@l
13355 \fi
13356 {%
13357 \let\bid@RTL@everypar\@empty%
13358 \def\baselinestretch{\m@m@footnote@spacing}%
13359 \reset@font\foottextfont
13360 \@preamfntext
13361 \protected@edef\@currentlabel{%
13362 \csname p@footnote\endcsname\@thefnmark}%
13363 \setbox0=\vbox{\hsize=\maxdimen
13364 \color@begingroup
13365 \noindent \@parafootfmt{#1}%
13366 \color@endgroup}%
13367 \m@mungebox}\m@mmf@prepare}
13368 \bidi@ensure@newcommand{\@paraLTRfootnotetext}[1]{\insert\footinsv@l{%
13369 \let\bid@RTL@everypar\@empty%
13370 \def\baselinestretch{\m@m@footnote@spacing}%
13371 \reset@font\LTRfoottextfont
13372 \@preamfntext
13373 \protected@edef\@currentlabel{%
13374 \csname p@footnote\endcsname\@thefnmark}%
13375 \setbox0=\vbox{\hsize=\maxdimen
13376 \color@begingroup
13377 \noindent \@paraLTRfootfmt{#1}%
13378 \color@endgroup}%
13379 \m@mungebox}\m@mmf@prepare}
13380 \bidi@ensure@newcommand{\@paraRTLfootnotetext}[1]{\insert\footinsv@r{%
13381 \let\bid@RTL@everypar\@empty%
13382 \def\baselinestretch{\m@m@footnote@spacing}%
13383 \reset@font\RTLfoottextfont
13384 \@preamfntext
13385 \protected@edef\@currentlabel{%
13386 \csname p@footnote\endcsname\@thefnmark}%
13387 \setbox0=\vbox{\hsize=\maxdimen
13388 \color@begingroup
13389 \noindent \@paraRTLfootfmt{#1}%
13390 \color@endgroup}%
13391 \m@mungebox}\m@mmf@prepare}
13392 \bidi@ensure@newcommand{\@parafootfmt}[1]{%
13393 \parindent=\z@
13394 \parfillskip=0pt \@plus 1fil
13395 {\footfootmark\strut {\foottextfont #1}\penalty-10}}
13396 \bidi@ensure@newcommand{\@paraLTRfootfmt}[1]{%
13397 \parindent=\z@
13398 \parfillskip=0pt \@plus 1fil
13399 {\LTRfootfootmark\strut {\LTRfoottextfont #1}\penalty-10}}
13400 \bidi@ensure@newcommand{\@paraRTLfootfmt}[1]{%
13401 \parindent=\z@
13402 \parfillskip=0pt \@plus 1fil
13403 {\RTLfootfootmark\strut {\RTLfoottextfont #1}\penalty-10}}
13404 \bidi@ensure@newcommand{\@mpparafootnotetext}[1]{%
13405 \global\setbox
13406 \if@RTL@footnote
13407 \@mpfootinsv@r

```



```

13408 \else
13409 \mpfootinsv@l
13410 \fi
13411 \vbox{%
13412 \let\bidir@RTL@everypar\@empty%
13413 \def\baselinestretch{\m@m@footnote@spacing}%
13414 \unvbox
13415 \if@RTL@footnote
13416 \mpfootinsv@r
13417 \else
13418 \mpfootinsv@l
13419 \fi
13420 \reset@font\foottextfont
13421 \hsize\columnwidth \@parboxrestore
13422 \protected@edef\@currentlabel{%
13423 \csname p@mpfootnote\endcsname\@thefnmark}%
13424 \setbox0=\vbox{\hsize=\maxdimen
13425 \color@begingroup
13426 \noindent \@parafootfmt{#1}%
13427 \color@endgroup}%
13428 \m@mungebox}\m@mmf@prepare}
13429 \bidi@ensure@newcommand{\mpparaLTRfootnotetext}[1]{%
13430 \global\setbox\@mpfootinsv@l\vbox{%
13431 \let\bidir@RTL@everypar\@empty%
13432 \def\baselinestretch{\m@m@footnote@spacing}%
13433 \unvbox\@mpfootinsv@l
13434 \reset@font\LTRfoottextfont
13435 \hsize\columnwidth \@parboxrestore
13436 \protected@edef\@currentlabel{%
13437 \csname p@mpfootnote\endcsname\@thefnmark}%
13438 \setbox0=\vbox{\hsize=\maxdimen
13439 \color@begingroup
13440 \noindent \@paraLTRfootfmt{#1}%
13441 \color@endgroup}%
13442 \m@mungebox}\m@mmf@prepare}
13443 \bidi@ensure@newcommand{\mpparaRTLfootnotetext}[1]{%
13444 \global\setbox\@mpfootinsv@r\vbox{%
13445 \let\bidir@RTL@everypar\@empty%
13446 \def\baselinestretch{\m@m@footnote@spacing}%
13447 \unvbox\@mpfootinsv@r
13448 \reset@font\RTLfoottextfont
13449 \hsize\columnwidth \@parboxrestore
13450 \protected@edef\@currentlabel{%
13451 \csname p@mpfootnote\endcsname\@thefnmark}%
13452 \setbox0=\vbox{\hsize=\maxdimen
13453 \color@begingroup
13454 \noindent \@paraRTLfootfmt{#1}%
13455 \color@endgroup}%
13456 \m@mungebox}\m@mmf@prepare}
13457 \bidi@ensure@newcommand{\m@make@para@footgroup}[1]{%
13458 \@namedef{\@para@footgroup#1}{%
13459 \unvbox\@nameuse{footins#1}
13460 \@RTLtrue
13461 \m@mmakehboxofhboxes

```



```

13462 \setbox0=\hbox{\unhbox0 \m@mremovehboxes}%
13463 \hsize\bidicolumnwidth
13464 \@parboxrestore
13465 \def\baselinestretch{\m@m@footnote@spacing}%
13466 \@nameuse{foottextfont#1}%
13467 \noindent\unhbox0\par}}
13468 \bidi@ensure@newcommand{\bidi@make@para@LTRfootgroup}[1]{%
13469 \@namedef{@para@LTRfootgroup#1}{%
13470 \unvbox\@nameuse{footins#1}
13471 \@RTLfalse
13472 \m@mmakehboxofhboxes
13473 \setbox0=\hbox{\unhbox0 \m@mremovehboxes}%
13474 \hsize\bidicolumnwidth
13475 \@parboxrestore
13476 \def\baselinestretch{\m@m@footnote@spacing}%
13477 \@nameuse{foottextfont#1}%
13478 \noindent\unhbox0\par}}
13479 \newcommand{\bidi@removexparafootskip}{%
13480 \advance\@tempskipa -\bidi@paraskip
13481 \edef\bidi@footskip{\vskip\the\@tempskipa\relax}%
13482 }
13483 \let\bidi@removexfootskip\relax
13484 \bidi@ensure@newcommand{\m@make@mppara@footgroup}[1]{%
13485 \@namedef{@mppara@footgroup#1}{%
13486 \unvbox\@nameuse{@mpfootins#1}
13487 \@RTLtrue
13488 \m@mmakehboxofhboxes
13489 \setbox0=\hbox{\unhbox0 \m@mremovehboxes}%
13490 \def\baselinestretch{\m@m@footnote@spacing}%
13491 \@nameuse{foottextfont#1}%
13492 \noindent\unhbox0\par}}
13493 \bidi@ensure@newcommand{\bidi@make@mppara@LTRfootgroup}[1]{%
13494 \@namedef{@mppara@LTRfootgroup#1}{%
13495 \unvbox\@nameuse{@mpfootins#1}
13496 \@RTLfalse
13497 \m@mmakehboxofhboxes
13498 \setbox0=\hbox{\unhbox0 \m@mremovehboxes}%
13499 \def\baselinestretch{\m@m@footnote@spacing}%
13500 \@nameuse{foottextfont#1}%
13501 \noindent\unhbox0\par}}
13502 \bidi@ensure@newcommand{\m@make@para@footstart}[1]{%
13503 \@namedef{@para@footstart#1}{%
13504 \leftskip=\z@
13505 \rightskip=\z@
13506 \parindent=\z@
13507 }%
13508 }
13509 \bidi@ensure@newcommand*{\m@m@makecolfloats}{%
13510 \xdef\@freelist{\@freelist\@midlist}%
13511 \global\let\@midlist\@empty
13512 \@combinefloats}
13513 \bidi@ensure@newcommand*{\m@m@makecoltext}{%
13514 \ifvbox\@kludgeins
13515 \@makespecialcolbox

```



```

13516 \else
13517   \setbox\@outputbox \vbox to\@colht{%
13518     \@texttop
13519     \dimen@ \dp\@outputbox
13520     \unvbox \@outputbox
13521     \vskip -\dimen@
13522     \@textbottom}%
13523 \fi}
13524 \bidi@ensure@newcommand*{\m@m@makecolintro}{%
13525 \bidi@ensure@newcommand*{\m@mopfootnote}{\setbox\@outputbox \vbox{%
13526   \boxmaxdepth\@maxdepth
13527   \@tempdima\dp\@cclv
13528   \unvbox\@cclv
13529   \vskip-\@tempdima
13530   \bidi@mopfn@bottom
13531   \vskip \skip\footins
13532   \color@begingroup
13533     \normalcolor
13534     \footnoterule
13535     \unvbox \footins
13536   \color@endgroup
13537   }%
13538 }
13539 \newcommand*{\bidi@mopfootnotebf}{%
13540   \setbox\@outputbox \vbox{%
13541     \boxmaxdepth\@maxdepth
13542     \unvbox\@outputbox
13543     \bidi@mopfn@bottom
13544     \vskip\skip\footins
13545     \color@begingroup
13546       \normalcolor
13547       \footnoterule
13548       \unvbox \footins
13549     \color@endgroup
13550   }%
13551 }
13552 \gdef\mem@m@makecol{%
13553   \m@m@makecolintro
13554   \m@m@doextrafeet
13555   \ifvoid\footins
13556     \setbox\@outputbox \box\@cclv
13557   \else
13558     \m@mopfootnote
13559   \fi
13560   \m@m@makecolfloats
13561   \m@m@makecoltext
13562   \global \maxdepth \@maxdepth}
13563 \gdef\bidi@makecolbf{%
13564   \m@m@makecolintro
13565   \m@m@doextrafeet
13566   \setbox\@outputbox \box\@cclv
13567   \m@m@makecolfloats
13568   \ifvoid\footins
13569   \else

```



```

13570 \bidi@mopfootnotebf
13571 \fi
13572 \m@m@makecoltext
13573 \global \maxdepth \@maxdepth}
13574 \newcommand{\FeetAboveFloat}{\gdef\@makecol{\mem@makecol}}
13575 \newcommand{\FeetBelowFloat}{\gdef\@makecol{\bidi@makecolbf}}
13576 \newcommand\FeetAtBottom{\def\bidi@mopfn@bottom{\vfill\relax}}
13577 \newcommand\FeetBelowRagged{\let\bidi@mopfn@bottom\relax}
13578 \FeetAboveFloat
13579 \FeetBelowRagged
13580 \def\bidi@reinserts#1{\ifvoid#1\else
13581 \ifnum\count\@currbox>\z@
13582 \advance\@pageht \ht#1%
13583 \advance\@pageht \skip#1%
13584 \advance\@pageht \dp#1%
13585 \fi
13586 \insert#1{\unvbox#1}%
13587 \fi
13588 }
13589 \def\bidi@init@multi@footins#1{%
13590 \multiply\count#1\col@number
13591 \multiply\skip#1\col@number
13592 }
13593 \def\bidi@reinsert@footnotes#1{\ifvoid#1\else
13594 \insert#1{}\fi}
13595 \AtBeginDocument{%
13596 \bidi@preto\@doclearpage\m@m@doextrafeet
13597 \g@addto@macro\@reinserts{%
13598 \bidi@reinserts\footinsv@r
13599 \bidi@reinserts\footinsv@l
13600 }
13601 \bidi@floathook
13602 \g@addto@macro\@floatplacement{%
13603 \bidi@ifmulticol{}\bidi@floathook}%
13604 }%
13605 \if\bidi@csundef{multi@column@out}{%
13606 \onlypreamble\bidi@init@multi@footins
13607 \let\bidi@ifmulticol\@secondoftwo
13608 }{%
13609 \bidi@preto\multi@column@out\m@m@doextrafeet
13610 \g@addto@macro\init@mult@footins{%
13611 \bidi@init@multi@footins\footinsv@r
13612 \bidi@init@multi@footins\footinsv@l
13613 }%
13614 \g@addto@macro\reinsert@footnotes{%
13615 \bidi@reinsert@footnotes\footinsv@r
13616 \bidi@reinsert@footnotes\footinsv@l
13617 }%
13618 }%
13619 }

```

## 87 File extreport-xetex-bidi.def

```

13620 \ProvidesFile{extreport-xetex-bidi.def}[2017/06/09 v0.3 bidi adaptations for extreport class

```



```

13621 \renewcommand*\l@part[2]{%
13622   \ifnum \c@tocdepth >-2\relax
13623     \addpenalty{-\@highpenalty}%
13624     \addvspace{2.25em \@plus\p@}%
13625     \begingroup
13626       \setlength\@tempdima{3em}%
13627       \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
13628       \parfillskip -\@pnumwidth
13629       {\leavevmode
13630         \large \bfseries #1\hfil \hb@xt@\@pnumwidth{\hss #2}}\par
13631       \nobreak
13632       \global\@nobreaktrue
13633       \everypar{\global\@nobreakfalse\everypar{}}%
13634     \endgroup
13635   \fi}
13636 \renewcommand*\l@chapter[2]{%
13637   \ifnum \c@tocdepth >\m@ne
13638     \addpenalty{-\@highpenalty}%
13639     \vskip 1.0em \@plus\p@
13640     \setlength\@tempdima{1.5em}%
13641     \begingroup
13642       \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
13643       \parfillskip -\@pnumwidth
13644       \leavevmode \bfseries
13645       \advance\if@RTL\rightskip\else\leftskip\fi\@tempdima
13646       \hskip -\if@RTL\rightskip\else\leftskip\fi
13647       #1\nobreak\hfil \nobreak\hb@xt@\@pnumwidth{\hss #2}\par
13648       \penalty\@highpenalty
13649     \endgroup
13650   \fi}
13651 \def\@makechapterhead#1{%
13652   \vspace*{50\p@}%
13653   {\parindent \z@ \if@RTL\raggedleft\else\raggedright\fi \normalfont
13654     \ifnum \c@secnumdepth >\m@ne
13655       \huge\bfseries \@chapapp\space \thechapter
13656       \par\nobreak
13657       \vskip 20\p@
13658     \fi
13659     \interlinepenalty\@M
13660     \Huge \bfseries #1\par\nobreak
13661     \vskip 40\p@
13662   }}
13663 \def\@makeschapterhead#1{%
13664   \vspace*{50\p@}%
13665   {\parindent \z@ \if@RTL\raggedleft\else\raggedright\fi
13666     \normalfont
13667     \interlinepenalty\@M
13668     \Huge \bfseries #1\par\nobreak
13669     \vskip 40\p@
13670   }}
13671 \renewcommand\left@footnoterule{%
13672   \kern-3\p@
13673   \hrule\@width.4\columnwidth
13674   \kern2.6\p@}

```



```

13675 \renewcommand\right@footnoterule{%
13676   \kern-3\p@
13677   \hbox to \columnwidth{\hskip .6\columnwidth \hrulefill }
13678   \kern2.6\p@}
13679 \renewenvironment{thebibliography}[1]
13680   {\chapter*{\bibname
13681     \@mkboth{\MakeUppercase\bibname}{\MakeUppercase\bibname}}%
13682     \if@RTL\if@LTRbibitems\@RTLfalse\else\fi\else\if@RTLbibitems\@RTLtrue\else\fi\fi
13683     \bidi@thebibliography@font@hook%
13684     \list{\@biblabel{\@arabic\c@enumiv}}%
13685       {\settowidth\labelwidth{\@biblabel{#1}}%
13686        \leftmargin\labelwidth
13687        \advance\leftmargin\labelsep
13688        \@openbib@code
13689        \usecounter{enumiv}%
13690        \let\p@enumiv\@empty
13691        \renewcommand\theenumiv{\@arabic\c@enumiv}}%
13692     \sloppy\clubpenalty4000\widowpenalty4000%
13693     \sfcode`.\@m}
13694   {\def\@noitemerr
13695     {\@latex@warning{Empty `thebibliography' environment}}}%
13696   \endlist}
13697 \if@titlepage
13698 \renewcommand\maketitle{\begin{titlepage}%
13699 \let\footnotesize\small
13700 \let\right@footnoterule\relax
13701 \let\left@footnoterule\relax
13702 \let\textwidth@footnoterule\relax
13703 \let \footnote \thanks
13704 \null\vfil
13705 \vskip 60\p@
13706 \begin{center}%
13707   {\LARGE \@title \par}%
13708   \vskip 3em%
13709   {\large
13710     \lineskip .75em%
13711     \begin{tabular}[t]{c}%
13712       \@author
13713     \end{tabular}\par}%
13714     \vskip 1.5em%
13715     {\large \@date \par}%           % Set date in \large size.
13716 \end{center}\par
13717 \@thanks
13718 \vfil\null
13719 \end{titlepage}}%
13720 \setcounter{footnote}{0}%
13721 \global\let\thanks\relax
13722 \global\let\maketitle\relax
13723 \global\let\@thanks\@empty
13724 \global\let\@author\@empty
13725 \global\let\@date\@empty
13726 \global\let\@title\@empty
13727 \global\let\title\relax
13728 \global\let\author\relax

```





```

13729 \global\let\date\relax
13730 \global\let\and\relax
13731 }
13732 \else
13733 \renewcommand\maketitle{\par
13734 \begin{group}
13735 \renewcommand\thefootnote{\@fnsymbol\c@footnote}%
13736 \def\@makefnmark{\rlap{\@textsuperscript{\normalfont\@thefnmark}}}%
13737 \long\def\@makefntext##1{\parindent 1em\noindent
13738 \hb@xt@1.8em{\%
13739 \hss\@textsuperscript{\normalfont\@thefnmark}}##1}%
13740 \if@twocolumn
13741 \ifnum \col@number=\@ne
13742 \maketitle
13743 \else
13744 \twocolumn[\maketitle]%
13745 \fi
13746 \else
13747 \newpage
13748 \global\@topnum\z@ % Prevents figures from going at top of page.
13749 \maketitle
13750 \fi
13751 \thispagestyle{plain}\@thanks
13752 \endgroup
13753 \setcounter{footnote}{0}%
13754 \global\let\thanks\relax
13755 \global\let\maketitle\relax
13756 \global\let\@maketitle\relax
13757 \global\let\@thanks\@empty
13758 \global\let\@author\@empty
13759 \global\let\@date\@empty
13760 \global\let\@title\@empty
13761 \global\let\title\relax
13762 \global\let\author\relax
13763 \global\let\date\relax
13764 \global\let\and\relax
13765 }
13766 \def\@maketitle{%
13767 \newpage
13768 \null
13769 \vskip 2em%
13770 \begin{center}%
13771 \let \footnote \thanks
13772 {\LARGE \@title \par}%
13773 \vskip 1.5em%
13774 {\large
13775 \lineskip .5em%
13776 \begin{tabular}[t]{c}%
13777 \author
13778 \end{tabular}\par}%
13779 \vskip 1em%
13780 {\large \@date}%
13781 \end{center}%
13782 \par

```



```

13783 \vskip 1.5em}
13784 \fi
13785 \renewcommand\thesection {\thechapter\@SepMark\@arabic\c@section}
13786 \renewcommand\thesubsection {\thesection\@SepMark\@arabic\c@subsection}
13787 \renewcommand\thesubsubsection{\thesubsection \@SepMark\@arabic\c@subsubsection}
13788 \renewcommand\theparagraph {\thesubsubsection\@SepMark\@arabic\c@paragraph}
13789 \renewcommand\thesubparagraph {\theparagraph\@SepMark\@arabic\c@subparagraph}
13790 \renewcommand\theequation{%
13791 \ifnum \c@chapter>\z@ \thechapter\@SepMark\fi\@arabic\c@equation}
13792 \renewcommand\thefigure{%
13793 \ifnum \c@chapter>\z@ \thechapter\@SepMark\fi \@arabic\c@figure}
13794 \renewcommand\thetable{%
13795 \ifnum \c@chapter>\z@ \thechapter\@SepMark\fi\@arabic\c@table}

```

## 88 File fancybox-xetex-bidi.def

```

13796 \ProvidesFile{fancybox-xetex-bidi.def}[2013/05/01 v0.1 bidi adaptations for fancybox package]
13797 \def\fancy@oval#1#2#3{%
13798 \boxmaxdepth \maxdimen
13799 \@ovttrue \@ovbtrue \@ovltrue \@ovrtrue
13800 \@tfor\@tempa :=#3\do{\csname @ov\@tempa false\endcsname}%
13801 \@ovxx#1\relax
13802 \advance\@ovxx-\@wholewidth
13803 \@ovyy#2\relax
13804 \advance\@ovyy-\@wholewidth
13805 \@tempdimb \ifdim \@ovyy >\@ovxx \@ovxx \@ovxx\else \@ovyy \fi
13806 \advance\@tempdimb-2\p@
13807 \ifdim\@tempdimb>\the@cornersize\relax
13808 \@tempdimb=\the@cornersize
13809 \fi
13810 \@getcirc\@tempdimb
13811 \@ovro\ht\@tempboxa \@ovri\dp\@tempboxa
13812 \@ovdx\@ovxx \advance\@ovdx-\@tempdima \divide\@ovdx \tw@
13813 \@ovdy\@ovyy \advance\@ovdy-\@tempdima \divide\@ovdy \tw@
13814 \@circlefnt
13815 \setbox\@tempboxa\hbox{\beginL%
13816 \if@ovr \@ovvert32\kern -\@tempdima \fi
13817 \if@ovl \kern \@ovxx \@ovvert01\kern -\@tempdima \kern -\@ovxx \fi
13818 \if@ovt \@ovhorz \kern -\@ovxx \fi
13819 \if@ovb \raise \@ovyy \@ovhorz \fi\endL}%
13820 \advance\@ovdx\@ovro
13821 \advance\@ovdy\@ovro
13822 \advance\@ovxx\@wholewidth
13823 \wd\@tempboxa=\@ovxx
13824 \dp\@tempboxa=\z@}

```

## 89 File fancyhdr-xetex-bidi.def

```

13825 \ProvidesFile{fancyhdr-xetex-bidi.def}[2018/02/15 v0.7 bidi adaptations for fancyhdr package]
13826
13827 \let\f@nch@everypar\everypar
13828
13829 \def\f@nch@head#1#2#3#4#5{#1\hbox to\headwidth{\f@nch@reset
13830 \f@nch@vbox\headheight{\hbox

```



```

13831      {\rlap{\parbox[b]{\headwidth}{\bidi@raggedright#2}}\hfill
13832       \parbox[b]{\headwidth}{\centering#3}\hfill
13833       \llap{\parbox[b]{\headwidth}{\bidi@raggedleft#4}}\headrule}}#5}
13834
13835 \def\fnch@foot#1#2#3#4#5{#1\hbox to\headwidth{\fnch@reset
13836   \fnch@vbox\footskip{\footrule
13837     \hbox{\rlap{\parbox[t]{\headwidth}{\bidi@raggedright#2}}\hfill
13838      \parbox[t]{\headwidth}{\centering#3}\hfill
13839      \llap{\parbox[t]{\headwidth}{\bidi@raggedleft#4}}}}#5}
13840

```

## 90 File fix2col-xetex-bidi.def

```

13841 \ProvidesFile{fix2col-xetex-bidi.def}[2017/05/06 v0.4 bidi adaptations for fix2col package f
13842 \def\RTL@outputdblcol{%
13843   \if@firstcolumn
13844     \global\@firstcolumnfalse
13845     \global\setbox\@leftcolumn\copy\@outputbox
13846     \splitmaxdepth\maxdimen
13847     \vbadness\maxdimen
13848     \setbox\@outputbox\vsplit\@outputbox to\maxdimen
13849     \toks@\expandafter{\topmark}%
13850     \xdef\@firstcoltopmark{\the\toks@}%
13851     \toks@\expandafter{\splitfirstmark}%
13852     \xdef\@firstcolfirstmark{\the\toks@}%
13853     \ifx\@firstcolfirstmark\@empty
13854       \global\let\@setmarks\relax
13855     \else
13856       \gdef\@setmarks{%
13857         \let\firstmark\@firstcolfirstmark
13858         \let\topmark\@firstcoltopmark}%
13859     \fi
13860 \else \global\@firstcolumntrue
13861 \setbox\@outputbox \vbox {\hbox to\textwidth {%
13862   \hskip \columnwidth
13863   \hfil \vrule width\columnseprule \hfil
13864   \hbox to\columnwidth {%
13865     \bidi@firstcolumn@status@write%
13866     \box\@leftcolumn \hss}%
13867   \hskip -\textwidth
13868   \hbox to\columnwidth{%
13869     \bidi@lastcolumn@status@write%
13870     \box\@outputbox \hss}%
13871   \hskip \columnsep
13872   \hskip \columnwidth }}%
13873 \@combinedblfloats \@setmarks \@outputpage
13874 \begingroup \@dblfloatplacement \@startdblcolumn
13875 \@whiles\if@fcolmade \fi
13876 {\@outputpage \@startdblcolumn }\endgroup
13877 \fi}
13878 \def\LTR@outputdblcol{%
13879   \if@firstcolumn
13880     \global\@firstcolumnfalse
13881     \global\setbox\@leftcolumn\copy\@outputbox

```



```

13882 \splitmaxdepth\maxdimen
13883 \vbadness\maxdimen
13884 \setbox\@outputbox\vsplit\@outputbox to\maxdimen
13885 \toks@\expandafter{\topmark}%
13886 \xdef\@firstcoltopmark{\the\toks@}%
13887 \toks@\expandafter{\splitfirstmark}%
13888 \xdef\@firstcolfirstmark{\the\toks@}%
13889 \ifx\@firstcolfirstmark\empty
13890 \global\let\@setmarks\relax
13891 \else
13892 \gdef\@setmarks{%
13893 \let\firstmark\@firstcolfirstmark
13894 \let\topmark\@firstcoltopmark}%
13895 \fi
13896 \else
13897 \global\@firstcolumntrue
13898 \setbox\@outputbox\vbox{%
13899 \hb@xt@\textwidth{%
13900 \hb@xt@\columnwidth{%
13901 \bidi@firstcolumn@status@write%
13902 \box\@leftcolumn \hss}%
13903 \hfil
13904 \vrule \@width\columnseprule
13905 \hfil
13906 \hb@xt@\columnwidth{%
13907 \bidi@lastcolumn@status@write%
13908 \box\@outputbox \hss}}}%
13909 \@combinedblfloats
13910 \@setmarks
13911 \@outputpage
13912 \begingroup
13913 \@dblfloatplacement
13914 \@startdblcolumn
13915 \@whilesw\if@colmade \fi{\@outputpage\@startdblcolumn}%
13916 \endgroup
13917 \fi}

```

## 91 File fleqn-xetex-bidi.def

```

13918 \ProvidesFile{fleqn-xetex-bidi.def}[2010/03/01 v0.1 bidi adaptations for fleqn tag for XeTeX]
13919 \renewcommand\[\{\relax
13920 \ifmmode\@badmath
13921 \else
13922 \begin{trivlist}%
13923 \beginparpenalty\predisplaypenalty
13924 \endparpenalty\postdisplaypenalty
13925 \item[]\leavevmode
13926 \hb@xt@\linewidth\bgroup \beginL$\m@th\displaystyle %$
13927 \hskip\mathindent\bgroup
13928 \fi}
13929 \renewcommand\[\{\relax
13930 \ifmmode
13931 \egroup $\hfil% $
13932 \endL\egroup

```



```

13933             \end{trivlist}%
13934             \else \@badmath
13935             \fi}
13936 \renewenvironment{equation}%
13937   {\@beginparpenalty\predisplaypenalty
13938   \@endparpenalty\postdisplaypenalty
13939   \refstepcounter{equation}%
13940   \trivlist \item[]\leavevmode
13941     \hb@xt@{\linewidth\bgrouper\beginL $m@th% $
13942       \displaystyle
13943       \hskip\mathindent}%
13944     {\$ \hfil % $
13945     \displaywidth\linewidth\hbox{\@eqnnum}%
13946     \endL\egroup
13947   \endtrivlist}

```

## 92 File float-xetex-bidi.def

```

13948 \ProvidesFile{float-xetex-bidi.def}[2013/04/04 v0.2 bidi adaptations for float package for X
13949 \renewcommand\floatc@plain[2]{\setbox\@tempboxa\hbox{\@fs@cfont #1:} #2}%
13950 \ifdim\wd\@tempboxa>\hsize {\@fs@cfont #1:} #2\par
13951 \else\hbox to\hsize{\if@RTL\beginR\fi\hfil\box\@tempboxa\hfil\if@RTL\endR\fi}\fi}
13952 \def\float@newx#1[#2]{\ifundefined{c@#1}{\newcounter{#1}[#2]%
13953 \expandafter\edef\csname the#1\endcsname{%
13954 \expandafter\noexpand\csname
13955 the#2\endcsname\@SepMark\noexpand\arabic{#1}}}%
13956 {\PackageWarning{float}{Can't redefine counter variable for #1.}}}

```

## 93 File floatrow-xetex-bidi.def

```

13957 \ProvidesFile{floatrow-xetex-bidi.def}[2013/04/08 v0.1 bidi adaptations for floatrow package
13958 \renewcommand\flnew@within[1]{\@addtoreset{\FB@captype}{#1}%
13959 \expandafter\edef\csname the\FB@captype\endcsname{%
13960 \expandafter\noexpand\csname
13961 the#1\endcsname\@SepMark\noexpand\arabic{\FB@captype}}}

```

## 94 File flowfram-xetex-bidi.def

```

13962 \ProvidesFile{flowfram-xetex-bidi.def}[2018/09/29 v0.5 bidi adaptations for flowfram package
13963 \def\@outputdblcol{%
13964 \@nxtcol=\c@thisframe
13965 \c@curpg=\c@page
13966 \@g@tnextcol{\@nxtcol}%
13967 \if@ff@nwp % next flow frame starts on new page
13968 \global\@firstcolumntrue
13969 \@setcolbox\c@thisframe
13970 \if@specialpage
13971 \global\@specialpagefalse
13972 \@nameuse{ps@\@specialstyle}\relax
13973 \fi
13974 \if@twoside
13975 \ifodd\count\z@
13976 \let\@thehead\@oddhead
13977 \let\@thefoot\@oddfoot

```



```

13978 \else
13979 \let\@thehead\@evenhead
13980 \let\@thefoot\@evenfoot
13981 \fi
13982 \else
13983 \let\@thehead\@oddhead
13984 \let\@thefoot\@oddfoot
13985 \fi
13986 \@beginndvi
13987 \@dodynamicthehead\@dodynamicthefoot
13988 \vbadness=\@M
13989 \setbox\@outputbox\vbox{\hbox to \textwidth{\@ff@do@allframes}}}%
13990 \@combinedblfloats
13991 \@outputpage
13992 \advance\c@curpg by -\c@page\relax
13993 \whiledo{\c@curpg>0}{\advance\c@curpg by -1\relax
13994 \setbox\@outputbox\vbox{\hbox to \textwidth{\@ff@do@allframes}}}%
13995 \@outputpage}
13996 \begingroup
13997 \@dblfloatplacement
13998 \@startdblcolumn
13999 \@whilesw \if@fcolmade \fi
14000 {\@outputpage \@startdblcolumn }\endgroup
14001 \@resetst@tics
14002 \@resetdyn@mics
14003 \else % still on same page, save contents of box255
14004 \global\@firstcolumnfalse
14005 \@setcolbox\c@thisframe
14006 \fi
14007 \global\c@thisframe=\@nxtcol
14008 \@setcol{\c@thisframe}\relax
14009 \global\@colht\vsiz
14010 }
14011 \def\@outputpage{%
14012 \begingroup
14013 \let\protect\noexpand
14014 \@resetactivechars
14015 \global\let\@if@newlist\if@newlist
14016 \global\@newlistfalse\@parboxrestore
14017 \global\let\@bidi@BeforeOutputPageShipOut\@firstofone
14018 \bidi@beforeoutputpageshipouthook
14019 \shipout\vbox{\set@typeset@protect
14020 \aftergroup
14021 \endgroup
14022 \aftergroup
14023 \set@typeset@protect
14024 \reset@font\normalsize
14025 \bidi@font\@outputpage
14026 \normalsfcodes
14027 \let\label\@gobble
14028 \let\index\@gobble
14029 \let\glossary\@gobble
14030 \baselineskip\z@skip
14031 \lineskip\z@skip

```



```

14032 \lineskiplimit\z@
14033 \vskip\topmargin\moveright\@themargin
14034 \vbox{%
14035   \global\let\@bidi@BeforeHeader\@firstofone
14036   \bidi@beforeheaderhook
14037   \vskip\headheight
14038   \vskip\headsep
14039   \global\let\@bidi@BeforeOutputBoxOutputPage\@firstofone
14040   \bidi@beforeoutputboxoutputpagehook
14041   \box\@outputbox
14042   \global\let\@bidi@AfterOutputBoxOutputPage\@firstofone
14043   \bidi@afteroutputboxoutputpagehook
14044   }%
14045 \global\let\@bidi@AfterOutputPageShipOut\@firstofone
14046 \bidi@afteroutputpageshipouthook
14047 \global\let\@if@newlist\@if@newlist
14048 \stepcounter{page}%
14049 \setcounter{displayedframe}{0}%
14050 \let\firstmark\botmark
14051 \global\let\@bidi@AtEndOutputPage\@firstofone
14052 \bidi@atendoutputpagehook
14053 }
14054
14055
14056 \newcommand*\bidi@s@tfftextcol{\ifthenelse{\equal{\ff@txtcol}{}}{\}%
14057 \expandafter\bidicolor\ff@txtcol}}
14058
14059 \newcommand{\bidi@ff@box}[3]{\@ffbackground{\vbox to#2
14060 {\hb@xt@ #1{\hss{\bidi@s@tfftextcol #3}\hss}\vss\kern\z@}}}}
14061
14062
14063 \renewcommand*\@docolbox}[1]{%
14064 \edef\ff@frametype{%
14065 \csname @ff@frametype@\romannumeral#1\endcsname}%
14066 \edef\ff@col{\csname @ff@col@\romannumeral#1\endcsname}%
14067 \edef\ff@txtcol{\csname @ff@txtcol@\romannumeral#1\endcsname}%
14068 \edef\ff@backcol{\csname @ff@backcol@\romannumeral#1\endcsname}%
14069 \@ff@setoffset{#1}%
14070 \rotateframe{\csname @ff@angle@\romannumeral#1\endcsname}{%
14071 \ifthenelse{\boolean{columnframe\romannumeral#1}}{\}%
14072 \@ff@fbox{\csname colwidth\romannumeral#1\endcsname}%
14073 {\csname colheight\romannumeral#1\endcsname}{%
14074 \expandafter\box\csname column\romannumeral#1\endcsname}{%
14075 \csname\ff@frametype\endcsname}%
14076 }%
14077 \bidi@ff@box{\csname colwidth\romannumeral#1\endcsname}%
14078 {\csname colheight\romannumeral#1\endcsname}{%
14079 \expandafter\box\csname column\romannumeral#1\endcsname}%
14080 }}}
14081 \@ifclassloaded{book}{%
14082 \renewcommand\theequation
14083 {\ifnum \c@chapter>\z@ \thechapter\@SepMark\fi \@arabic\c@equation}
14084 \renewcommand \thefigure
14085 {\ifnum \c@chapter>\z@ \thechapter\@SepMark\fi \@arabic\c@figure}

```



```

14086 \renewcommand \thetable
14087     {\ifnum \c@chapter>\z@ \thechapter\@SepMark\fi \@arabic\c@table}
14088 \renewcommand \thechapter {\@arabic\c@chapter}
14089 \renewcommand \thesection {\thechapter\@SepMark\@arabic\c@section}
14090 \renewcommand \thesubsection {\thesection\@SepMark\@arabic\c@subsection}
14091 \renewcommand \thesubsubsection {\thesubsection \@SepMark\@arabic\c@subsubsection}
14092 \renewcommand \theparagraph {\thesubsubsection\@SepMark\@arabic\c@paragraph}
14093 \renewcommand \thesubparagraph {\theparagraph\@SepMark\@arabic\c@subparagraph}}{}
14094 \@ifclassloaded{report}{%
14095 \renewcommand \theequation
14096     {\ifnum \c@chapter>\z@ \thechapter\@SepMark\fi \@arabic\c@equation}
14097 \renewcommand \thefigure
14098     {\ifnum \c@chapter>\z@ \thechapter\@SepMark\fi \@arabic\c@figure}
14099 \renewcommand \thetable
14100     {\ifnum \c@chapter>\z@ \thechapter\@SepMark\fi \@arabic\c@table}
14101 \renewcommand \thechapter {\@arabic\c@chapter}
14102 \renewcommand \thesection {\thechapter\@SepMark\@arabic\c@section}
14103 \renewcommand \thesubsection {\thesection\@SepMark\@arabic\c@subsection}
14104 \renewcommand \thesubsubsection {\thesubsection \@SepMark\@arabic\c@subsubsection}
14105 \renewcommand \theparagraph {\thesubsubsection\@SepMark\@arabic\c@paragraph}
14106 \renewcommand \thesubparagraph {\theparagraph\@SepMark\@arabic\c@subparagraph}}{}
14107 \renewcommand \rotateframe [2] {\if@ttb@rotate
14108 \rotatebox{#1}{\if@RTL\beginL\fi#2\if@RTL\endL\fi}%
14109 \else
14110 #2\relax
14111 \fi}

```

## 95 File footnote-xetex-bidi.def

```

14112 \ProvidesFile{footnote-xetex-bidi.def}[2017/08/09 v1.1 bidi footnote macros for XeTeX engine]
14113 \if@RTLmain\@RTL@footnotetrue\else\@RTL@footnotefalse\fi
14114 \newif\ifbidi@autofooterule
14115 \def\bidi@mpfootnoterule{\footnoterule}
14116 \newcounter{footdir@label}
14117 \renewcommand*{\thefootdir@label}{footdir@the\value{footdir@label}}
14118 \newcommand*{\footdir@write}{%
14119   \stepcounter{footdir@label}%
14120   \zref@labelbyprops{\thefootdir@label}{abspage}%
14121 }
14122 \newif\iffootdir@debug
14123 \newcommand*{\debugfootnotedirection}{\footdir@debugtrue}
14124 \newtoks\footdir@toks
14125 \newcommand*{\footdir@debug}[1]{%
14126   \iffootdir@debug
14127     \typeout{[footdir] #1}%
14128   \fi
14129 }
14130 %\@ifpackagelater{zref-abspage}{2012/10/27}{%
14131 %  \newcommand*{\footdir@LeftRightElse}{%
14132 %    \ltx@ifundefined{footdir@the\value{zabspage}}{%
14133 %      \footdir@debug{abspage \the\value{zabspage}: else}%
14134 %      \ltx@thirdofthree
14135 %    }{%
14136 %      \if\csname footdir@the\value{zabspage}\endcsname L%

```





```

14137 %      \footdir@debug{abspage \the\value{zabspage}: left}%
14138 %      \expandafter\ltx@firstofthree
14139 %      \else
14140 %      \footdir@debug{abspage \the\value{zabspage}: right}%
14141 %      \expandafter\ltx@secondofthree
14142 %      \fi
14143 %    }%
14144 %  }%
14145 %}{%
14146 \providecommand*{\c@zabspage}{\c@abspage}%
14147 \newcommand*{\footdir@LeftRightElse}{%
14148   \footdir@write
14149   \zifrefundefined{\thefootdir@label}{%
14150     \footdir@debug{abspage ??: else}%
14151     \ltx@thirdofthree
14152   }{%
14153     \edef\footdir@abspage{%
14154       \zref@extractdefault{\thefootdir@label}{abspage}{0}%
14155     }%
14156     \ltx@ifundefined{footdir@\footdir@abspage}{%
14157       \footdir@debug{\footdir@abspage: else}%
14158       \ltx@thirdofthree
14159     }{%
14160       \if\csname footdir@\footdir@abspage\endcsname L%
14161         \footdir@debug{\footdir@abspage: left}%
14162         \expandafter\ltx@firstofthree
14163       \else
14164         \footdir@debug{\footdir@abspage: right}%
14165         \expandafter\ltx@secondofthree
14166       \fi
14167     }%
14168   }%
14169 }%
14170 %}
14171 \newcommand*{\footdir@fntext}[1]{%
14172   \zifrefundefined{\thefootdir@label}{%
14173     }{%
14174       \edef\footdir@name{%
14175         footdir@\zref@extractdefault{\thefootdir@label}{abspage}{0}%
14176       }%
14177       \@ifundefined{footdir@name}{%
14178         \expandafter\gdef\csname\footdir@name\endcsname{#1}%
14179       }{}%
14180     }%
14181 }
14182
14183 \newcommand*{\footdir@temp}[3]{%
14184   \@ifdefinable{#1}{%
14185     \let#1#2%
14186     \renewcommand{#2}[1]{%
14187       \footdir@write
14188       \footdir@fntext{#3}%
14189       \stepcounter{footdir@label}%
14190       \footdir@fntext{#3}%

```



```

14191 \footdir@toks{##1}%
14192 \footdir@toks\expandafter{%
14193 \the\expandafter\footdir@toks
14194 \expandafter
14195 \zref@labelbyprops\expandafter{\the\footdir@label}{abspage}%
14196 }%
14197 \expandafter#1\expandafter{\the\footdir@toks}%
14198 }%
14199 }%
14200 }
14201
14202 \def\right@footnoterule{%
14203 \kern-3\p@
14204 \hbox to \columnwidth{\hskip .6\columnwidth \hrulefill }
14205 \kern2.6\p@}
14206 \def\left@footnoterule{\kern-3\p@
14207 \hrule \@width .4\columnwidth \kern 2.6\p@}
14208 \def\textwidth@footnoterule{\kern-3\p@
14209 \hrule \@width \columnwidth \kern 2.6\p@}
14210 \def\leftfootnoterule{%
14211 \bidi@autofootnoterulefalse%
14212 \def\footnoterule{\left@footnoterule}}
14213 \let\LRfootnoterule=\leftfootnoterule
14214 \def\rightfootnoterule{%
14215 \bidi@autofootnoterulefalse%
14216 \def\footnoterule{\right@footnoterule}}
14217 \def\textwidthfootnoterule{%
14218 \bidi@autofootnoterulefalse%
14219 \def\footnoterule{\textwidth@footnoterule}}
14220
14221
14222
14223 \def\auto@footnoterule{%
14224 \footdir@LeftRightElse%
14225 \left@footnoterule%
14226 \right@footnoterule%
14227 \left@footnoterule%
14228 }
14229
14230
14231
14232 \def\autofootnoterule{%
14233 \bidi@autofootnoteruletrue%
14234 \def\footnoterule{\auto@footnoterule}%
14235 }
14236
14237 \newcommand*\SplitFootnoteRule{%
14238 \gdef\split@prev{0}
14239 \let\pagefootnoterule\footnoterule
14240 \let\mpfootnoterule\footnoterule
14241 \def\splitfootnoterule{\kern-3\p@ \hrule \kern2.6\p@}
14242 \def\footnoterule{\relax
14243 \ifx \@listdepth\@mplistdepth
14244 \mpfootnoterule

```



```

14245 \else
14246 \ifnum\split@prev=\z@
14247 \pagefootnoterule
14248 \else
14249 \splitfootnoterule
14250 \fi
14251 \xdef\split@prev{\the\insertpenalties}%
14252 \fi
14253 }%
14254 }
14255
14256
14257
14258
14259 \def\RTLfootnote{\@ifnextchar[\@xRTLfootnote{\stepcounter\@mpfn
14260 \protected@xdef\@thefnmark{\thempfn}%
14261 \@footnotemark\@RTLfootnotetext}}
14262 \def\@xRTLfootnote[#1]{%
14263 \begingroup
14264 \csname c@\@mpfn\endcsname #1\relax
14265 \unrestored@protected@xdef\@thefnmark{\thempfn}%
14266 \endgroup
14267 \@footnotemark\@RTLfootnotetext}
14268 \def\LTRfootnote{\@ifnextchar[\@xLTRfootnote{\stepcounter\@mpfn
14269 \protected@xdef\@thefnmark{\thempfn}%
14270 \@footnotemark\@LTRfootnotetext}}
14271 \def\@xLTRfootnote[#1]{%
14272 \begingroup
14273 \csname c@\@mpfn\endcsname #1\relax
14274 \unrestored@protected@xdef\@thefnmark{\thempfn}%
14275 \endgroup
14276 \@footnotemark\@LTRfootnotetext}
14277
14278
14279 \def\setfootnoteRL{\@RTL@footnotetrue}
14280 \def\unsetfootnoteRL{\@RTL@footnotefalse}
14281 \def\setfootnoteLR{\unsetfootnoteRL}
14282
14283 \newcommand*{\bidi@footnotetext@font}{\footnotesize}
14284 \newcommand*{\bidi@LTRfootnotetext@font}{\footnotesize}
14285 \newcommand*{\bidi@RTLfootnotetext@font}{\footnotesize}
14286
14287 \long\def\@footnotetext#1{\insert\footins{%
14288 \if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi%
14289 \reset@font%
14290 \bidi@footnotetext@font% \reset@font\footnotesize
14291 \interlinepenalty\interfootnotelinepenalty
14292 \splittopskip\footnotesep
14293 \splitmaxdepth \dp\strutbox \floatingpenalty \@MM
14294 \hsize\columnwidth \@parboxrestore
14295 \protected@edef\@currentlabel{%
14296 \csname p@footnote\endcsname\@thefnmark
14297 }%
14298 \color@begingroup

```



```

14299     \@makefntext{%
14300         \rule{z@\footnotesep\ignorespaces#1\@finalstrut\strutbox}%
14301     \color@endgroup}}%
14302
14303
14304 \long\def\@RTLfootnotetext#1{\insert\footins{%
14305     \RTLtrue%
14306     \reset@font%
14307     \bidi@RTLfootnotetext@font% \reset@font\footnotesize
14308     \interlinepenalty\interfootnotelinepenalty
14309     \splittopskip\footnotesep
14310     \splitmaxdepth \dp\strutbox \floatingpenalty \@MM
14311     \hsize\columnwidth \@parboxrestore
14312     \protected@edef\@currentlabel{%
14313         \csname p@footnote\endcsname\@thefnmark
14314     }%
14315     \color@begingroup
14316     \@makefntext{%
14317         \rule{z@\footnotesep\ignorespaces#1\@finalstrut\strutbox}%
14318     \color@endgroup}}%
14319
14320 \long\def\@LTRfootnotetext#1{\insert\footins{%
14321     \RTLfalse%
14322     \reset@font%
14323     \bidi@LTRfootnotetext@font% \reset@font\footnotesize
14324     \interlinepenalty\interfootnotelinepenalty
14325     \splittopskip\footnotesep
14326     \splitmaxdepth \dp\strutbox \floatingpenalty \@MM
14327     \hsize\columnwidth \@parboxrestore
14328     \protected@edef\@currentlabel{%
14329         \csname p@footnote\endcsname\@thefnmark
14330     }%
14331     \color@begingroup
14332     \@makefntext{%
14333         \rule{z@\footnotesep\ignorespaces#1\@finalstrut\strutbox}%
14334     \color@endgroup}}%
14335
14336 \AtBeginDocument{%
14337 \if@RTL@footnote
14338   \newcommand*{\bidi@footdir@footnote}{R}
14339 \else
14340   \newcommand*{\bidi@footdir@footnote}{L}
14341 \fi%
14342 }
14343
14344 \footdir@temp\footdir@ORG@bidi@footnotetext\@footnotetext{\bidi@footdir@footnote}%
14345 \footdir@temp\footdir@ORG@bidi@RTLfootnotetext\@RTLfootnotetext{R}%
14346 \footdir@temp\footdir@ORG@bidi@LTRfootnotetext\@LTRfootnotetext{L}%
14347
14348 \long\def\@mpRTLfootnotetext#1{%
14349   \ifbidi@autofootnoterule\ifnum\c@mpfootnote=\@ne\global\let\bidi@mpfootnoterule\right@foot
14350   \global\setbox\@mpfootins\vbox{\@RTLtrue%
14351     \unvbox\@mpfootins
14352     \reset@font%

```



```

14353 \bidi@RTLfootnotetext@font% \reset@font\footnotesize
14354 \hsize\columnwidth
14355 \@parboxrestore
14356 \protected@edef\@currentlabel
14357 {\csname p@mpfootnote\endcsname\@thefnmark}%
14358 \color@begingroup
14359 \@makefnintext{%
14360 \rule{z@\footnotesep\ignorespaces#1\@finalstrut\strutbox}%
14361 \color@endgroup}}
14362 \long\def\@mpLTRfootnotetext#1{%
14363 \ifbidi@autofootnoterule\ifnum\c@mpfootnote=\@ne\global\let\bidi@mpfootnoterule\left@footnoterule
14364 \global\setbox\@mpfootins\vbox{\@RTLfalse%
14365 \unvbox\@mpfootins
14366 \reset@font%
14367 \bidi@LTRfootnotetext@font% \reset@font\footnotesize
14368 \hsize\columnwidth
14369 \@parboxrestore
14370 \protected@edef\@currentlabel
14371 {\csname p@mpfootnote\endcsname\@thefnmark}%
14372 \color@begingroup
14373 \@makefnintext{%
14374 \rule{z@\footnotesep\ignorespaces#1\@finalstrut\strutbox}%
14375 \color@endgroup}}
14376 \long\def\@mpfootnotetext#1{%
14377 \ifbidi@autofootnoterule\ifnum\c@mpfootnote=\@ne\ifRTL@footnote\global\let\bidi@mpfootnoterule\left@footnoterule
14378 \global\setbox\@mpfootins\vbox{\ifRTL@footnote\@RTLtrue\else\@RTLfalse\fi%
14379 \unvbox\@mpfootins
14380 \reset@font%
14381 \bidi@footnotetext@font% \reset@font\footnotesize
14382 \hsize\columnwidth
14383 \@parboxrestore
14384 \protected@edef\@currentlabel
14385 {\csname p@mpfootnote\endcsname\@thefnmark}%
14386 \color@begingroup
14387 \@makefnintext{%
14388 \rule{z@\footnotesep\ignorespaces#1\@finalstrut\strutbox}%
14389 \color@endgroup}}
14390 \def\@iiminipage#1#2[#3]#4{%
14391 \leavevmode
14392 \@pboxswfalse
14393 \if@hboxRconstruct\@bidi@list@minipage@parbox@not@nobtrue\fi
14394 \ifRTL\if#1t\@bidi@list@minipage@parboxtrue\else\if#1b\@bidi@list@minipage@parboxtrue\fi
14395 \setlength\@tempdima{#4}%
14396 \def\@mpargs{{#1}{#2}[#3]{#4}}%
14397 \setbox\@tempboxa\vbox\bgroup
14398 \color@begingroup
14399 \hsize\@tempdima
14400 \textwidth\hsize \columnwidth\hsize
14401 \@parboxrestore
14402 \def\@mpfn{mpfootnote}\def\thempfn{\thempfootnote}\c@mpfootnote\z@
14403 \let\@footnotetext\@mpfootnotetext
14404 \let\@LTRfootnotetext\@mpLTRfootnotetext
14405 \let\@RTLfootnotetext\@mpRTLfootnotetext
14406 \let\@listdepth\@mplistdepth \@mplistdepth\z@

```



```

14407      \@minipagerestore
14408      \@setminipage}
14409 \def\endminipage{%
14410     \par
14411     \unskip
14412     \ifvoid\@mpfootins\else
14413       \vskip\skip\@mpfootins
14414       \normalcolor
14415       \bidi@mpfootnoterule
14416       \unvbox\@mpfootins
14417     \fi
14418     \@minipagefalse    %% added 24 May 89
14419 \color@endgroup
14420 \egroup
14421 \expandafter\@iiiparbox\@mpargs{\unvbox\@tempboxa}}
14422 \def\LTRthanks#1{\footnotemark
14423   \protected@xdef\@thanks{\@thanks
14424     \protect\LTRfootnotetext[\the\c@footnote]{#1}}%
14425 }
14426 \def\LTRfootnotetext{%
14427   \@ifnextchar [\@xLTRfootnotenext
14428     {\protected@xdef\@thefnmark{\thempfn}%
14429     \@LTRfootnotetext}}
14430 \def\@xLTRfootnotenext[#1]{%
14431   \begingroup
14432     \csname c@\@mpfn\endcsname #1\relax
14433     \unrestored@protected@xdef\@thefnmark{\thempfn}%
14434   \endgroup
14435   \@LTRfootnotetext}
14436 \def\RTLthanks#1{\footnotemark
14437   \protected@xdef\@thanks{\@thanks
14438     \protect\RTLfootnotetext[\the\c@footnote]{#1}}%
14439 }
14440 \let\@thanks\@empty
14441 \def\RTLfootnotetext{%
14442   \@ifnextchar [\@xRTLfootnotenext
14443     {\protected@xdef\@thefnmark{\thempfn}%
14444     \@RTLfootnotetext}}
14445 \def\@xRTLfootnotenext[#1]{%
14446   \begingroup
14447     \csname c@\@mpfn\endcsname #1\relax
14448     \unrestored@protected@xdef\@thefnmark{\thempfn}%
14449   \endgroup
14450   \@RTLfootnotetext}
14451 \leftfootnoterule

```

## 96 File footnotebackref-xetex-bidi.def

```

14452 \ProvidesFile{footnotebackref-xetex-bidi.def}[2022/02/18 v0.1 bidi adaptations for footnote]
14453 \LetLtxMacro{\BHFN@OldLTRFootnote}{\LTRfootnote}
14454 \LetLtxMacro{\BHFN@OldRTLFootnote}{\RTLfootnote}
14455
14456 \renewcommand*\LTRfootnote{%
14457   \refstepcounter{BackrefHyperFootnoteCounter}%

```



```

14458 \edef\BackrefFootnoteTag{bhfn:\theBackrefHyperFootnoteCounter}%
14459 \label{\BackrefFootnoteTag}%
14460 \@ifnextchar[\Backref@OptLTRHyperFootnote\Backref@HyperLTRFootnote}
14461
14462 \renewcommand*{\RTLfootnote}{%
14463 \refstepcounter{BackrefHyperFootnoteCounter}%
14464 \edef\BackrefFootnoteTag{bhfn:\theBackrefHyperFootnoteCounter}%
14465 \label{\BackrefFootnoteTag}%
14466 \@ifnextchar[\Backref@OptRTLHyperFootnote\Backref@HyperRTLFootnote}
14467 \newcommand\Backref@HyperLTRFootnote[1]{%
14468 \BHFN@OldLTRFootnote{\Backref@HyperSymbol#1}}
14469
14470 \newcommand\Backref@HyperRTLFootnote[1]{%
14471 \BHFN@OldRTLFootnote{\Backref@HyperSymbol#1}}
14472
14473 \newcommand\Backref@OptHyperLTRFootnote[2][\empty]{%
14474 \BHFN@OldLTRFootnote[#1]{\Backref@HyperSymbol#2}}
14475
14476 \newcommand\Backref@OptHyperRTLFootnote[2][\empty]{%
14477 \BHFN@OldRTLFootnote[#1]{\Backref@HyperSymbol#2}}
14478
14479 \bidi@AfterFile{extrafootnotefeatures-xetex-bidi.def}{%
14480 \ifFootnoteBackref@numberlinked
14481 \renewcommand{\footfootmark}{%
14482 \ifdim\footmarkwidth < \z@
14483 \llap{\hb@xt@ -\footmarkwidth{%
14484 \hss\normalfont\footscript{\hyperref[\BackrefFootnoteTag]{\@thefnmark}}}%
14485 \hspace*{-\footmarkwidth}}}%
14486 \else
14487 \ifdim\footmarkwidth = \z@
14488 {\normalfont\footscript{\hyperref[\BackrefFootnoteTag]{\@thefnmark}}}%
14489 \else
14490 \hb@xt@\footmarkwidth{\hss\normalfont\footscript{\hyperref[\BackrefFootnoteTag]{\@thefnmark}}}
14491 \fi
14492 \fi}
14493 \renewcommand{\LTRfootfootmark}{%
14494 \ifdim\footmarkwidth < \z@
14495 \llap{\hb@xt@ -\footmarkwidth{%
14496 \hss\normalfont\LTRfootscript{\hyperref[\BackrefFootnoteTag]{\@thefnmark}}}%
14497 \hspace*{-\footmarkwidth}}}%
14498 \else
14499 \ifdim\footmarkwidth = \z@
14500 {\normalfont\LTRfootscript{\hyperref[\BackrefFootnoteTag]{\@thefnmark}}}%
14501 \else
14502 \hb@xt@\footmarkwidth{\hss\normalfont\LTRfootscript{\hyperref[\BackrefFootnoteTag]{\@thefnmark}}}
14503 \fi
14504 \fi}
14505 \renewcommand{\RTLfootfootmark}{%
14506 \ifdim\footmarkwidth < \z@
14507 \llap{\hb@xt@ -\footmarkwidth{%
14508 \hss\normalfont\RTLfootscript{\hyperref[\BackrefFootnoteTag]{\@thefnmark}}}%
14509 \hspace*{-\footmarkwidth}}}%
14510 \else
14511 \ifdim\footmarkwidth = \z@

```



```

14512     {\normalfont\RTLfootscript{\hyperref[\BackrefFootnoteTag]{\@thefnmark}}}%
14513     \else
14514         \hb@xt@\footmarkwidth{\hss\normalfont\RTLfootscript{\hyperref[\BackrefFootnoteTag]{\@t
14515         \fi
14516     \fi}
14517 \fi
14518 }

```

## 97 File framed-xetex-bidi.def

```

14519 \ProvidesFile{framed-xetex-bidi.def}[2012/06/05 v0.3 bidi adaptations for framed package for
14520 \renewcommand\TitleBarFrame[3][\begingroup
14521     \ifx\delimiter#1\delimiter
14522         \let\TF@conlab\empty
14523     \else
14524         \def\TF@conlab{% continuation label
14525         \nointerlineskip
14526         \smash{\rlap{\kern\wd\@tempboxa\kern\fb@rule\kern\fb@sep #1}}}%
14527     \fi
14528     %\let\TF@savecolor\current@color
14529     \textcolor{\TF@FrameColor}{%
14530     \CustomFBox
14531         {\TF@Title{#2}}{\TF@conlab}%
14532         \fb@rule\fb@rule\fb@rule\fb@rule
14533         %{\let\current@color\TF@savecolor\set@color #3}%
14534         {\normalcolor #3}%
14535     }\endgroup
14536 }
14537 \renewenvironment{titled-frame}[1]{%
14538     \def\FrameCommand{\fb@sep8pt\fb@rule2pt
14539         \TitleBarFrame{\textbf{#1}}}%
14540     \def\FirstFrameCommand{\fb@sep8pt\fb@rule2pt
14541         \TitleBarFrame[{\if@RTL\blacktriangleleft\else\blacktriangleright\fi}]{\textbf{#1}}}%
14542     \def\MidFrameCommand{\fb@sep8pt\fb@rule2pt
14543         \TitleBarFrame[{\if@RTL\blacktriangleleft\else\blacktriangleright\fi}]{\textbf{#1\ (con
14544     \def\LastFrameCommand{\fb@sep8pt\fb@rule2pt
14545         \TitleBarFrame{\textbf{#1\ (cont)}}}%
14546     \MakeFramed{\advance\hsize-20pt \FrameRestore}}%
14547 % note: 8 + 2 + 8 + 2 = 20. Don't use \width because the frame title
14548 % could interfere with the width measurement.
14549 {\endMakeFramed}
14550 \chardef\FrameRestore=\catcode`\| % for debug
14551 \catcode`\|=\catcode`\% % (debug: insert space after backslash)
14552 \def\fb@put@frame#1#2{\relax
14553     \ifdim\pagegoal=\maxdimen \pagegoal\vspace \fi
14554     \message{===== Entering putframe =====^~J
14555     \pagegoal=\the\pagegoal, \pagetotal=\the\pagetotal.}%
14556     \ifinner
14557         \fb@putboxa#1%
14558         \fb@afterframe
14559     \else
14560         \dimen@ \pagegoal \advance\dimen@-\pagetotal % natural space left on page
14561         \ifdim\dimen@<2\baselineskip % Too little room on page
14562         \message{Page has only \the\dimen@ space room left; eject.}%

```





```

14563 \eject \fb@adjheight \fb@put@frame#1#2%
14564 \else % there's appreciable room left on the page
14565 \fb@sizeofframe#1%
14566 | \message{\string\pagetotal=\the\pagetotal,
14567 | \string\pagegoal=\the\pagegoal,
14568 | \string\pagestretch=\the\pagestretch,
14569 | \string\pageshrink=\the\pageshrink,
14570 | \string\fb@frh=\the\fb@frh. \space}
14571 | \message{^^JBox of size \the\ht\@tempboxa\space}%
14572 \begingroup % temporarily set \dimen@ to be...
14573 \advance\dimen@.8\pageshrink % maximum space available on page
14574 \advance\dimen@-\fb@frh\relax % max space available for frame's contents
14575 %%% LOOKS SUBTRACTED AND ADDED, SO DOUBLE ACCOUNTING!
14576 \expandafter\endgroup
14577 % expand \ifdim, then restore \dimen@ to real room left on page
14578 \ifdim\dimen@>\ht\@tempboxa % whole box does fit
14579 | \message{fits in \the\dimen@. }%
14580 % ToDo: Change this to use vsplit anyway to capture the marks
14581 % MERGE THIS WITH THE else CLAUSE!!!
14582 \fb@putboxa#1%
14583 \fb@afterframe
14584 \else % box must be split
14585 | \message{must be split to fit in \the\dimen@. }%
14586 % update frame measurement to use \FirstFrameCommand or \MidFrameCommand
14587 \fb@sizeofframe#2%
14588 \setbox\@tempboxa\vbox{% simulate frame and flexibility of the page:
14589 \vskip \fb@frh \@plus\pagestretch \@minus.8\pageshrink
14590 \kern137sp\kern-137sp\penalty-30
14591 \unvbox\@tempboxa}%
14592 \edef\fb@resto@set{\boxmaxdepth\the\boxmaxdepth
14593 \splittopskip\the\splittopskip}%
14594 \boxmaxdepth\z@ \splittopskip\z@
14595 | \message{^^JPadded box of size \the\ht\@tempboxa\space split to \the\dimen@}%
14596 % Split box here
14597 \setbox\tw@\vsplit\@tempboxa to\dimen@
14598 | \toks99\expandafter{\splitfirstmark}%
14599 | \toks98\expandafter{\splitbotmark}%
14600 | \message{Marks are: \the\toks99, \the\toks98. }%
14601 \setbox\tw@\vbox{\unvbox\tw@}% natural-sized
14602 | \message{Natural height of split box is \the\ht\tw@, leaving
14603 | \the\ht\@tempboxa\space remainder. }%
14604 % If the split-to size > (\vsize-\topskip), then set box to full size.
14605 \begingroup
14606 \advance\dimen@\topskip
14607 \expandafter\endgroup
14608 \ifdim\dimen@>\pagegoal
14609 | \message{Frame is big -- Use up the full column. }%
14610 \dimen@ii\pagegoal
14611 \advance\dimen@ii -\topskip
14612 \advance\dimen@ii \FrameHeightAdjust\relax
14613 \else % suspect this is implemented incorrectly:
14614 % If the split-to size > feasible room_on_page, rebox it smaller.
14615 \advance\dimen@.8\pageshrink
14616 \ifdim\ht\tw@>\dimen@

```



```

14617 |         \message{Box too tall; rebox it to \the\dimen@. }%
14618 |         \dimen@ii\dimen@
14619 |     \else % use natural size
14620 |         \dimen@ii\ht\tw@
14621 |     \fi
14622 | \fi
14623 | % Re-box contents to desired size \dimen@ii
14624 | \advance\dimen@ii -\fb@frh
14625 | \setbox\tw@\vbox to\dimen@ii \bgroup
14626 | % remove simulated frame and page flexibility:
14627 | \vskip -\fb@frh \@plus-\pagestretch \@minus-.8\pageshrink
14628 | \unvbox\tw@ \unpenalty\unpenalty
14629 | \ifdim\lastkern=-137sp % whole box went to next page
14630 |     \message{box split at beginning! }%
14631 |     % need work here???
14632 |     \egroup \fb@resto@set \eject % (\vskip for frame size was discarded)
14633 |     \fb@adjheight
14634 |     \fb@put@frame#1#2% INSERTED ???
14635 | \else % Got material split off at the head
14636 |     \egroup \fb@resto@set
14637 |     \ifvoid\@tempboxa % it all fit after all
14638 |         \message{box split at end! }%
14639 |         \setbox\@tempboxa\box\tw@
14640 |         \fb@putboxa#1%
14641 |         \fb@afterframe
14642 |     \else % it really did split
14643 |         \message{box split as expected. Its reboxed height is \the\ht\tw@. }%
14644 |         \ifdim\wd\tw@>\z@
14645 |             \wd\tw@\wd\@tempboxa
14646 |             \centerline{#2{\hboxL{\box\tw@}}}% ??? \centerline bad idea
14647 |         \else
14648 |             \message{Zero width means likely blank. Don't frame it (guess)}%
14649 |             \box\tw@
14650 |         \fi
14651 |         \hrule \@height\z@ \@width\hsize
14652 |         \eject
14653 |         \fb@adjheight
14654 |         \fb@put@frame\LastFrameCommand\MidFrameCommand
14655 |     \fi\fi\fi\fi\fi
14656 | }
14657 | \def\fb@putboxa#1{%
14658 |     \ifvoid\@tempboxa
14659 |         \PackageWarning{framed}{Boxa is void -- discard it. }%
14660 |     \else
14661 |         \message{Frame and place boxa. }%
14662 |         %{\showoutput\showbox\@tempboxa}%
14663 |         \centerline{#1{\hboxL{\box\@tempboxa}}}%
14664 |     \fi
14665 | }
14666 | \catcode`\|=\FrameRestore
14667 | \def\FrameRestore{%
14668 |     \let\if@nobreak\iffalse
14669 |     \let\if@noskipsec\iffalse
14670 |     \let\-\@dischyph

```



```

14671 \let'\@acci\let'\@accii\let\=\@acciii
14672 % \message{FrameRestore:
14673 % \totalleftmargin=\the \@totalleftmargin,
14674 % \rightmargin=\the\rightmargin,
14675 % \@listdepth=\the\@listdepth. }%
14676 % Test if we are in a list (or list-like paragraph)
14677 \ifnum \ifdim\@totalleftmargin>\z@ 1\fi
14678 \ifdim\rightmargin>\z@ 1\fi
14679 \ifnum\@listdepth>\z@ 1\fi 0>\z@
14680 % \message{In a list: \linewidth=\the\linewidth, \@totalleftmargin=\the\@totalleftmargin,
14681 % \parshape=\the\parshape, \columnwidth=\the\columnwidth, \hsize=\the\hsize,
14682 % \labelwidth=\the\labelwidth. }%
14683 \@setminipage % snug fit around the item
14684 % Now try to propagate changes of width from \hsize to list parameters.
14685 % This is deficient, but a more advanced way to indicate modification to text
14686 % dimensions is not (yet) provided; in particular, no separate left/right
14687 % adjustment.
14688 \advance\linewidth-\columnwidth \advance\linewidth\hsize
14689 \parshape\@ne \@totalleftmargin \linewidth
14690 \else % Not in list
14691 \linewidth=\hsize
14692 %\message{No list, set \string\linewidth=\the\hsize. }%
14693 \fi
14694 \sloppy
14695 }

```

## 98 File `ftnright-xetex-bidi.def`

```

14696 \ProvidesFile{ftnright-xetex-bidi.def}[2018/09/29 v0.6 bidi adaptations for ftnright package]
14697
14698 \def\prepare@bidi@copyins{%
14699 \global\@bidi@rcol@copyinsskip\skip\@bidi@copyins@
14700 \global\skip\@bidi@copyins@\z@
14701 \global\count\@bidi@copyins@\z@
14702 \global\dimen\@bidi@copyins@\textheight}
14703
14704 \newskip\@bidi@rcol@copyinsskip
14705
14706 \def\LTR@outputdblcol{%
14707 \if@firstcolumn
14708 \global\@firstcolumnfalse
14709 \global\setbox\@leftcolumn\copy\@outputbox
14710 \global\count\footins\@m
14711 \global\skip\footins\rcol@footinsskip
14712 \global\count\@bidi@copyins@\@m
14713 \global\skip\@bidi@copyins@\@bidi@rcol@copyinsskip
14714 \splitmaxdepth\maxdimen
14715 \vbadness\maxdimen
14716 \setbox\@outputbox\vbox{\unvbox\@outputbox\unskip}%
14717 \setbox\@outputbox\vsplit\@outputbox to\maxdimen
14718 \toks@\expandafter{\topmark}%
14719 \xdef\@firstcoltopmark{\the\toks@}%
14720 \toks@\expandafter{\splitfirstmark}%
14721 \xdef\@firstcolfirstmark{\the\toks@}%

```



```

14722 \ifx\@firstcolfirstmark\@empty
14723 \global\let\@setmarks\relax
14724 \else
14725 \gdef\@setmarks{%
14726 \let\firstmark\@firstcolfirstmark
14727 \let\topmark\@firstcoltopmark}%
14728 \fi
14729 \else
14730 \preparefootins
14731 \prepare@bidi@copyins
14732 \global\@firstcolumntrue
14733 \setbox\@outputbox\vbox{%
14734 \hb@xt@\textwidth{%
14735 \hb@xt@\columnwidth{%
14736 \bidi@firstcolumn@status@write%
14737 \box\@leftcolumn \hss}%
14738 \hfil
14739 {\normalcolor\vrule \@width\columnseprule}%
14740 \hfil
14741 \hb@xt@\columnwidth{%
14742 \bidi@lastcolumn@status@write%
14743 \box\@outputbox \hss}}}%
14744 \@combinedblfloats
14745 \@setmarks
14746 \@outputpage
14747 \begingroup
14748 \@dblfloatplacement
14749 \@startdblcolumn
14750 \@whiles\if@fcolmade \fi{\@outputpage
14751 \@startdblcolumn}%
14752 \endgroup
14753 \fi}%
14754
14755 \def\RTL@outputdblcol{%
14756 \if@firstcolumn
14757 \global\@firstcolumnfalse
14758 \global\setbox\@leftcolumn\copy\@outputbox
14759 \global\count\footins\@m
14760 \global\skip\footins\rcol@footinsskip
14761 \global\count\@bidi@copyins\@m
14762 \global\skip\@bidi@copyins\@bidi@rcol@copyinsskip
14763 \splitmaxdepth\maxdimen
14764 \vbadness\maxdimen
14765 \setbox\@outputbox\vbox{\unvbox\@outputbox\unskip}%
14766 \setbox\@outputbox\vsplit\@outputbox to\maxdimen
14767 \toks@\expandafter{\topmark}%
14768 \xdef\@firstcoltopmark{\the\toks@}%
14769 \toks@\expandafter{\splitfirstmark}%
14770 \xdef\@firstcolfirstmark{\the\toks@}%
14771 \ifx\@firstcolfirstmark\@empty
14772 \global\let\@setmarks\relax
14773 \else
14774 \gdef\@setmarks{%
14775 \let\firstmark\@firstcolfirstmark

```



```

14776      \let\topmark\@firstcoltopmark}%
14777      \fi
14778    \else
14779      \preparefootins
14780      \prepare@bidi@copyins
14781      \global\@firstcolumntrue
14782      \setbox\@outputbox\vbox{%
14783        \hb@xt@\textwidth{%
14784          \hskip \columnwidth
14785          \hfil
14786          {\normalcolor\vrule \@width\columnseprule}%
14787          \hfil
14788          \hb@xt@\columnwidth{%
14789            \bidi@firstcolumn@status@write%
14790            \box\@leftcolumn \hss}%
14791            \hskip -\textwidth
14792            \hb@xt@\columnwidth{%
14793              \bidi@lastcolumn@status@write%
14794              \box\@outputbox \hss}%
14795              \hskip \columnsep
14796              \hskip \columnwidth }}%
14797      \@combinedblfloats
14798      \@setmarks
14799      \@outputpage
14800      \begingroup
14801        \@dblfloatplacement
14802        \@startdblcolumn
14803        \@whilesw@if@fcolmade \fi{\@outputpage
14804          \@startdblcolumn}%
14805      \endgroup
14806    \fi}%
14807
14808  \def\@startcolumn{%
14809    \ifx\@deferlist\@empty
14810      \global\@fcolmadefalse
14811      \global\@colroom\@colht
14812    \else
14813      \ifvoid\footins\else
14814        \ftn@amount\ht\footins
14815        \advance\ftn@amount\dp\footins
14816        \advance\ftn@amount\skip\footins
14817      \fi
14818      \ifvoid\@bidi@copyins\else
14819        \bidi@copyins@amount\ht\@bidi@copyins@
14820        \advance\bidi@copyins@amount\dp\@bidi@copyins@
14821        \advance\bidi@copyins@amount\skip\@bidi@copyins@
14822      \fi
14823      \global\advance\@colht-\ftn@amount
14824      \global\advance\@colht-\bidi@copyins@amount
14825      \global\@colroom\@colht
14826      \xstartcol
14827      \global\advance\@colht\ftn@amount
14828      \global\advance\@colroom\ftn@amount
14829      \global\advance\@colht\bidi@copyins@amount

```



```

14830 \global\advance\@colroom\@bidi@copyins@amount
14831 \fi
14832 \if@fcolmade
14833 \setbox\@ccclv\box\@outputbox
14834 \@makecol
14835 \else
14836 \ifvoid\footins\else
14837 \insert\footins{\unvbox\footins}\fi
14838 \ifvoid\@bidi@copyins@\else
14839 \insert\@bidi@copyins@{\unvbox\@bidi@copyins@}\fi
14840 \fi}
14841
14842 \newdimen\@bidi@copyins@amount
14843
14844 \def\@makecol{\if@firstcolumn
14845 \setbox\@outputbox\box\@ccclv
14846 \if@twocolumn \else
14847 \ifvoid\footins \else
14848 \latexerr{ftnright package
14849 used in one-column mode}}%
14850 {The ftnright package was designed to
14851 work with LaTeX's standard^^Jtwocolumn
14852 option. It does *not* work with the
14853 multicol package.^^JSo please specify
14854 `twocolumn' in the
14855 \noexpand\documentclass command.}%
14856 \shipout\box\footins \fi
14857 \ifvoid\@bidi@copyins@ \else
14858 \latexerr{ftnright package
14859 used in one-column mode}}%
14860 {The ftnright package was designed to
14861 work with LaTeX's standard^^Jtwocolumn
14862 option. It does *not* work with the
14863 multicol package.^^JSo please specify
14864 `twocolumn' in the
14865 \noexpand\documentclass command.}%
14866 \shipout\box\@bidi@copyins@ \fi\fi
14867 \ifnum\insertpenalties>\z@
14868 \latexerr{ftnright package
14869 scrambled footnotes}}%
14870 {There is too much footnote material in
14871 the first column and ftnright^^Jis
14872 unable to cope with this.^^JYou need
14873 to reduce the amount to get a properly
14874 formatted page.}%
14875 \fi
14876 \else
14877 \ifvoid\footins
14878 \ifvoid\@bidi@copyins@
14879 \setbox\@outputbox\box\@ccclv
14880 \else
14881 \setbox\@outputbox\vbox
14882 {\ifvoid\@ccclv \else
14883 \unvbox\@ccclv

```



```

14884         \vskip \skip\@bidi@copyins@
14885     \fi
14886         \color@begingroup
14887         \normalcolor
14888         \unvbox \@bidi@copyins@
14889         \color@endgroup}%
14890 \fi
14891 \else
14892     \setbox\@outputbox\vbox
14893     {\ifvoid\@cclv \else
14894         \unvbox\@cclv
14895         \vskip\skip\footins\fi
14896         \color@begingroup
14897         \normalcolor
14898         \footnoterule\unvbox\footins
14899         \color@endgroup
14900         \ifvoid\@bidi@copyins@
14901         \else
14902             \vskip \skip\@bidi@copyins@
14903             \color@begingroup
14904             \normalcolor
14905             \unvbox \@bidi@copyins@
14906             \color@endgroup
14907         \fi
14908     }%
14909 \fi
14910 \fi
14911 \xdef\@freelist{\@freelist\@midlist}%
14912 \global \let \@midlist \@empty
14913 \@combinefloats
14914 \ifvbox\@kludgeins
14915     \@makespecialcolbox
14916 \else
14917     \setbox\@outputbox\vbox to\@colht
14918     {\boxmaxdepth\maxdepth
14919         \@texttop
14920         \@tempdima\dp\@outputbox
14921         \unvbox\@outputbox
14922         \vskip-\@tempdima
14923         \@textbottom}%
14924 \fi
14925 \global\maxdepth\@maxdepth}
14926
14927 \let\leftfootnoterule\@empty
14928 \let\rightfootnoterule\@empty
14929 \let\textwidthfootnoterule\@empty
14930 \let\autofootnoterule\@empty
14931 \let\footnoterule\@empty
14932 \long\def\@makefnmark#1{\parindent 1em
14933     \noindent\hbox to 2em{}}%
14934     \llap{\@thefnmark\hbox{.}\,\,\,}#1}
14935
14936 \setlength{\skip\@bidi@copyins@}
14937     {10pt plus 5pt minus 3pt}

```



```
14938 \AtBeginDocument{\prepare@bidi@copyins}
```

## 99 File graphicx-xetex-bidi.def

```
14939 \ProvidesFile{graphicx-xetex-bidi.def}[2017/06/17 v0.5 bidi adaptations for graphicx package]
14940 \def\Grot@box@std#1#2{\ifmmode\else\if@RTL\beginL\fi\fi%
14941   \Grot@setangle{#1}%
14942   \setbox\z@\hbox{\ifmmode\if@RTL\beginR\fi#2\if@RTL\endR\fi\else\if@RTL\beginR\fi#2\if@RTL\endR\fi}%
14943   \Grot@x\z@
14944   \Grot@y\z@
14945   \Grot@box\ifmmode\else\if@RTL\endL\fi\fi}
14946 \long\def\Grot@box@kv[#1]#2#3{\ifmmode\else\if@RTL\beginL\fi\fi%
14947   \@begin@tempboxa\hbox{\ifmmode\if@RTL\beginR\fi#3\if@RTL\endR\fi\else\if@RTL\beginR\fi#3\if@RTL\endR\fi}%
14948   \Grot@x\width \divide\Grot@x\tw@
14949   \Grot@y\height \advance\Grot@y-\depth \divide\Grot@y\tw@
14950   \setkeys{Grot}{#1}%
14951   \setbox\z@\box\@tempboxa
14952   \Grot@setangle{#2}%
14953   \Grot@box\ifmmode\else\if@RTL\endL\fi\fi
14954   \@end@tempboxa}
14955 \long\def\Gscale@box#1[#2]#3{\ifmmode\else\if@RTL\beginL\fi\fi%
14956   \leavevmode
14957   \def\Gscale@x{#1}\def\Gscale@y{#2}%
14958   \setbox\z@\hbox{#3}%
14959   \setbox\tw@\hbox{\Gscale@start\rlap{\copy\z@}\Gscale@end}%
14960   \ifdim#2\p<\z@
14961     \ht\tw@-#2\dp\z@
14962     \dp\tw@-#2\ht\z@
14963   \else
14964     \ht\tw@#2\ht\z@
14965     \dp\tw@#2\dp\z@
14966   \fi
14967   \ifdim#1\p<\z@
14968     \hb@xt@-#1\wd\z@{\kern-#1\wd\z@\box\tw@\hss}%
14969   \else
14970     \wd\tw@#1\wd\z@
14971     \box\tw@
14972   \fi\ifmmode\else\if@RTL\endL\fi\fi}
14973 \def\Gin@iii[#1,#2][#3,#4]#5{%
14974   \begingroup
14975   \ifmmode\else\if@RTL\beginL\fi\fi
14976   \Gin@bboxtrue
14977   \Gin@defaultbp\Gin@llx{#1}%
14978   \Gin@defaultbp\Gin@lly{#2}%
14979   \Gin@defaultbp\Gin@urx{#3}%
14980   \Gin@defaultbp\Gin@ury{#4}%
14981   \Gin@include@graphics{#5}%
14982   \ifmmode\else\if@RTL\endL\fi\fi
14983   \endgroup}
14984 \def\Gin@ii[#1]#2{%
14985   \def\@tempa{[]}\def\@tempb{#2}%
14986   \ifx\@tempa\@tempb
14987     \def\@tempa{\Gin@iii[#1] []}%
14988     \expandafter\@tempa
```





```

14989 \else
14990 \begingroup
14991 \ifmode\else\if@RTL\beginL\fi\fi
14992 \@tempwafalse
14993 \toks@{\Ginclude@graphics{#2}}%
14994 \setkeys{Gin}{#1}%
14995 \Gin@esetsize
14996 \the\toks@
14997 \ifmode\else\if@RTL\endL\fi\fi
14998 \endgroup
14999 \fi}
15000 \def\reflectbox{\bidiGscale@box-1[1]}
15001 \long\def\bidiGscale@box#1[#2]#3{\ifmode\else\if@RTL\beginL\fi\fi%
15002 \leavevmode
15003 \def\Gscale@x{#1}\def\Gscale@y{#2}%
15004 \setbox\z@\hbox{\ifmode\if@RTL\beginR\fi#3\if@RTL\endR\fi\else\if@RTL\beginR\fi#3\if@RTL
15005 \setbox\tw@\hbox{\Gscale@start\rlap{\copy\z@}\Gscale@end}%
15006 \ifdim#2\p@<\z@
15007 \ht\tw@-#2\dp\z@
15008 \dp\tw@-#2\ht\z@
15009 \else
15010 \ht\tw@#2\ht\z@
15011 \dp\tw@#2\dp\z@
15012 \fi
15013 \ifdim#1\p@<\z@
15014 \hb@xt@-#1\wd\z@{\kern-#1\wd\z@\box\tw@\hss}%
15015 \else
15016 \wd\tw@#1\wd\z@
15017 \box\tw@
15018 \fi\ifmode\else\if@RTL\endL\fi\fi}
15019 \def\scalebox#1{%
15020 \@ifnextchar[{\bidiGscale@box{#1}}{\bidiGscale@box{#1}[#1]}%
15021 \def\resizebox{%
15022 \leavevmode
15023 \@ifstar{\bidiGscale@@box\totalheight}{\bidiGscale@@box\height}}
15024 \def\bidiGscale@@box#1#2#3{%
15025 \let@tempa\Gin@exclamation
15026 \expandafter\def\expandafter@tempb\expandafter{\string#2}%
15027 \expandafter\def\expandafter@tempc\expandafter{\string#3}%
15028 \ifx@tempb@tempa
15029 \ifx@tempc@tempa
15030 \toks@{\mbox}%
15031 \else
15032 \toks@{\bidiGscale@box@dd{#3}#1}%
15033 \fi
15034 \else
15035 \ifx@tempc@tempa
15036 \toks@{\bidiGscale@box@dd{#2}\width}%
15037 \else
15038 \toks@{\bidiGscale@box@dddd{#2}\width{#3}#1}%
15039 \fi
15040 \fi
15041 \the\toks@}
15042 \long\def\bidiGscale@box@dd#1#2#3{%

```



```

15043 \@begin@tempboxa\hbox{\ifmmode\if@RTL\beginR\fi#3\if@RTL\endR\fi\else\if@RTL\beginR\fi#3\fi
15044 \setlength\@tempdima{#1}%
15045 \setlength\@tempdimb{#2}%
15046 \Gscale@div\@tempa\@tempdima\@tempdimb
15047 \Gscale@box\@tempa[\@tempa]{\box\@tempboxa}%
15048 \@end@tempboxa}
15049 \long\def\bidigscale@box@dddd#1#2#3#4#5{%
15050 \@begin@tempboxa\hbox{\ifmmode\if@RTL\beginR\fi#5\if@RTL\endR\fi\else\if@RTL\beginR\fi#5\fi
15051 \setlength\@tempdima{#1}%
15052 \setlength\@tempdimb{#2}%
15053 \Gscale@div\@tempa\@tempdima\@tempdimb
15054 \setlength\@tempdima{#3}%
15055 \setlength\@tempdimb{#4}%
15056 \Gscale@div\@tempb\@tempdima\@tempdimb
15057 \ifin@iso
15058 \ifdim\@tempa\p>\@tempb\p@
15059 \let\@tempa\@tempb
15060 \else
15061 \let\@tempb\@tempa
15062 \fi
15063 \fi
15064 \Gscale@box\@tempa[\@tempb]{\box\@tempboxa}%
15065 \@end@tempboxa}

```

## 100 File geometry-xetex-bidi.def

```

15066 \ProvidesFile{geometry-xetex-bidi.def}[2017/01/14 v0.2 bidi adaptations for geometry package]
15067 \renewcommand*{\Gm@vrules@mpi}{%
15068 \if@RTLmain%
15069 \hb@xt@\@tempdima{\hskip-\marginparwidth\hskip-\marginparsep
15070 \llap{\Gm@vrule}\ignorespaces
15071 \hskip \marginparwidth\rlap{\Gm@vrule}\hskip \marginparsep
15072 \llap{\Gm@vrule}\hskip\textwidth\rlap{\Gm@vrule}\hss}%
15073 \else%
15074 \hb@xt@\@tempdima{\llap{\Gm@vrule}\ignorespaces
15075 \hskip \textwidth\Gm@vrule\hskip \marginparsep
15076 \llap{\Gm@vrule}\hfil\Gm@vrule}\fi}%
15077 \renewcommand*{\Gm@vrules@mpii}{%
15078 \if@RTLmain%
15079 \hb@xt@\@tempdima{\llap{\Gm@vrule}\ignorespaces
15080 \hskip \textwidth\Gm@vrule\hskip \marginparsep
15081 \llap{\Gm@vrule}\hfil\Gm@vrule}%
15082 \else%
15083 \hb@xt@\@tempdima{\hskip-\marginparwidth\hskip-\marginparsep
15084 \llap{\Gm@vrule}\ignorespaces
15085 \hskip \marginparwidth\rlap{\Gm@vrule}\hskip \marginparsep
15086 \llap{\Gm@vrule}\hskip\textwidth\rlap{\Gm@vrule}\hss}\fi}%
15087 \bidi@patchcmd{\Gm@pageframes}{%
15088 \ifodd\count\z@
15089 \let\@themargin\oddsidemargin
15090 \else
15091 \let\@themargin\evensidemargin
15092 \fi
15093 }{%

```



```

15094 \ifodd\count\z@
15095 \if@RTLmain
15096 \let\@themargin\evensidemargin
15097 \else
15098 \let\@themargin\oddsidemargin
15099 \fi
15100 \else
15101 \if@RTLmain
15102 \let\@themargin\oddsidemargin
15103 \else
15104 \let\@themargin\evensidemargin
15105 \fi
15106 \fi
15107 }{}{}

```

## 101 File hvfloat-xetex-bidi.def

```

15108 \ProvidesFile{hvfloat-xetex-bidi.def}[2012/04/18 v0.2 bidi adaptations for hvfloat package f
15109 \def\do@hvFloat[#1]#2#3{%
15110 \def\hv@shortCap{#1}
15111 \def\hv@longCap{#2}
15112 \def\hv@label{#3}
15113 %\newcommand*{\hvFloat}[5][{}]{%
15114 % #1: keyvalues
15115 % #2: type figure | table | ...
15116 % #3: float contents
15117 % #4: short caption
15118 % #5: caption
15119 % #6: label
15120 % \setDefault%
15121 % \def\@tempa{#1}%
15122 % \ifx\@tempa\empty\else\setkeys{hvSet}{#1}\fi% set options, only when not empty
15123 \def\@tempa{90}%
15124 \ifx\hvSet@rotAngle\@tempa \setlength{\hvMaxCapWidth}{\textheight}
15125 \else \setlength{\hvMaxCapWidth}{\linewidth}
15126 \fi
15127 %
15128 % First we save the object in \hvObjectBox
15129 %
15130 \ifx\hvSet@objectAngle\hv@Zero % rotate the object?
15131 \savebox{\hvObjectBox}{\ifhv@useOBox\usebox{\hvOBox}\else\hv@floatObject\fi}
15132 \else
15133 \savebox{\hvObjectBox}{%
15134 \rotatebox{\hvSet@objectAngle}{%
15135 \ifhv@useOBox\usebox{\hvOBox}\else\hv@floatObject\fi}}
15136 \fi
15137 \setlength{\hvObjectWidth}{\wd\hvObjectBox}
15138 %
15139 % Now we save the caption with its defined \hvCapWidth
15140 %
15141 \ifx\hvSet@capWidth\hv@Width\setlength{\hvCapWidth}{\hvObjectWidth}
15142 \else
15143 \ifx\hvSet@capWidth\hv@Height\setlength{\hvCapWidth}{\ht\hvObjectBox}
15144 \else

```



```

15145     \setlength{\hvCapWidth}{\hvObjectWidth}
15146     \ifx\hvSet@capPos\hv@Left\addtolength{\hvMaxCapWidth}{-\hvObjectWidth}\fi
15147     \ifx\hvSet@capPos\hv@Right\addtolength{\hvMaxCapWidth}{-\hvObjectWidth}\fi
15148     \ifdim\hvSet@capWidth\columnwidth<\hvMaxCapWidth
15149 \setlength{\hvCapWidth}{\hvSet@capWidth\columnwidth}
15150     \else
15151 \setlength{\hvCapWidth}{\hvMaxCapWidth}
15152     \fi
15153   \fi
15154 \fi
15155 %
15156 % now we have the object and the caption with the right
15157 % rotated angles saved in boxes
15158 %
15159 \def\fps@figure{\hvSet@floatPos}
15160 \ifhv@nonFloat\beginngroup% Start the nonfloat part
15161 \else          \begin{\hv@floatType}% Start the floating environment
15162 \fi%
15163 \saveCaptionSkip% we put this space ourselves
15164 \ifx\hvSet@capAngle\hv@Width % need rotation?
15165   \sbox{\hvCaptionBox}{%
15166     \begin{minipage}[b]{\hvCapWidth}% minipage, to get hyphenation
15167       \ifhv@nonFloat%
15168 \ifhv@onlyText#2%
15169       \else%
15170 \ifx\hv@floatType\hv@figure
15171       \ifx\relax#1\relax \figcaption{#2}\else\figcaption[#1]{#2}\fi
15172       \else
15173       \ifx\relax#1\relax \tabcaption{#2}\else\tabcaption[#1]{#2}\fi%
15174       \fi
15175       \fi
15176 \else\ifx\relax\hv@shortCap\relax\caption{#2}\else\caption[#1]{#2}\fi%
15177 \fi%
15178 \label{#3}%
15179   \end{minipage}%
15180   }%
15181 \else%
15182   \sbox{\hvCaptionBox}{%
15183     \rotatebox{\hvSet@capAngle}{%
15184       \begin{minipage}[b]{\hvCapWidth}% minipage, to get hyphenation
15185 \ifhv@nonFloat%
15186       \ifhv@onlyText#2%
15187       \else%
15188 \ifx\hv@floatType\hv@figure
15189       \ifx\relax#1\relax \figcaption{#2}\else\figcaption[#1]{#2}\fi
15190       \else
15191       \ifx\relax#1\relax \tabcaption{#2}\else\tabcaption[#1]{#2}\fi%
15192       \fi
15193       \fi
15194 \else\ifx\relax\hv@shortCap\relax\caption{#2}\else\caption[#1]{#2}\fi%
15195       \fi%
15196       \label{#3}%
15197       \end{minipage}%
15198     }%

```



```

15199    }%
15200    \fi%
15201    %%
15202    \restoreCaptionSkip% save old values
15203    \ifx\hvSet@objectPos\hv@Right\@bidi@raggedleft%
15204    \else%
15205        \ifx\hvSet@objectPos\hv@Center
15206            \ifhv@nonFloat\hspace*{\fill}\else\centering\fi%
15207        \fi%
15208    \fi%
15209    %
15210    % to rotate object and caption together, we save all in another box
15211    % the caption comes first, if its on the left or the top
15212    %
15213    \savebox{\@tempboxa}{%
15214        \ifx\hvSet@capPos\hv@Left % caption on left side
15215        \if@RTL%
15216        \ifx\hvSet@capVPos\hv@Center%
15217        \ifhv@fbox
15218        \fbox{\parbox{\wd\hvObjectBox}{\usebox{\hvObjectBox}}}
15219        \else
15220        \parbox{\wd\hvObjectBox}{\usebox{\hvObjectBox}}
15221        \fi%
15222        \hspace{\hvSet@floatCapSep pt}%
15223        \ifhv@fbox
15224        \fbox{\parbox{\wd\hvCaptionBox}{\usebox{\hvCaptionBox}}}%
15225        \else
15226        \parbox{\wd\hvCaptionBox}{\usebox{\hvCaptionBox}}
15227        \fi%
15228        \else%
15229        \ifx\hvSet@capVPos\hv@Top
15230        \ifhv@fbox
15231        \fbox{\raisebox{-\height}{\usebox{\hvObjectBox}}}%
15232        \else
15233        \raisebox{-\height}{\usebox{\hvObjectBox}}%
15234        \fi%
15235        \hspace{\hvSet@floatCapSep pt}%
15236        \ifhv@fbox
15237        \fbox{\raisebox{-\height}{\usebox{\hvCaptionBox}}}%
15238        \else
15239        \raisebox{-\height}{\usebox{\hvCaptionBox}}%
15240        \fi
15241        \else
15242        \ifhv@fbox
15243        \fbox{\usebox{\hvObjectBox}}%
15244        \else
15245        \usebox{\hvObjectBox}%
15246        \fi
15247        \hspace{\hvSet@floatCapSep pt}%
15248        \ifhv@fbox
15249        \fbox{\usebox{\hvCaptionBox}}%
15250        \else
15251        \usebox{\hvCaptionBox}%
15252        \fi%

```



```

15253 \fi%
15254 \fi%
15255 \else% not RTL
15256     \ifx\hvSet@capVPos\hv@Center%
15257         \ifhv@fbox\fbbox{\parbox{\wd\hvCaptionBox}{\usebox{\hvCaptionBox}}}%
15258         \else         \parbox{\wd\hvCaptionBox}{\usebox{\hvCaptionBox}}%
15259         \fi%
15260         \hspace{\hvSet@floatCapSep pt}% capfloatsep
15261         \ifhv@fbox\fbbox{\parbox{\wd\hvObjectBox}{\usebox{\hvObjectBox}}}%
15262         \else         \parbox{\wd\hvObjectBox}{\usebox{\hvObjectBox}}
15263         \fi%
15264     \else%
15265         \ifx\hvSet@capVPos\hv@Top % caption at top
15266             \ifhv@fbox\fbbox{\raisebox{-\height}{\usebox{\hvCaptionBox}}}%
15267             \else         \raisebox{-\height}{\usebox{\hvCaptionBox}}%
15268             \fi
15269             \hspace{\hvSet@floatCapSep pt}% capfloatsep
15270             \ifhv@fbox\fbbox{\raisebox{-\height}{\usebox{\hvObjectBox}}}%
15271             \else         \raisebox{-\height}{\usebox{\hvObjectBox}}%
15272             \fi%
15273         \else% caption on bottom
15274             \ifhv@fbox\fbbox{\usebox{\hvCaptionBox}}
15275             \else\usebox{\hvCaptionBox}
15276             \fi%
15277             \hspace{\hvSet@floatCapSep pt}%
15278             \ifhv@fbox\fbbox{\usebox{\hvObjectBox}}
15279             \else         \usebox{\hvObjectBox}
15280             \fi%
15281         \fi%
15282 \fi% end of RTL
15283 \fi%
15284 \else
15285 \ifx\hvSet@capPos\hv@Top
15286 \ifdim\wd\hvCaptionBox>\wd\hvObjectBox
15287 \begin{minipage}{\wd\hvCaptionBox}
15288 \else
15289 \begin{minipage}{\wd\hvObjectBox}
15290 \fi
15291 \centering
15292 \ifhv@fbox
15293 \fbbox{\usebox{\hvCaptionBox}}\[\hvBelowCaptionSkip]
15294 \fbbox{\usebox{\hvObjectBox}}
15295 \else
15296 \usebox{\hvCaptionBox}\[\hvBelowCaptionSkip]
15297 \usebox{\hvObjectBox}
15298 \fi%
15299 \end{minipage}
15300 \else
15301 \ifx\hvSet@capPos\hv@Bottom
15302 \ifdim\wd\hvCaptionBox>\wd\hvObjectBox
15303 \begin{minipage}{\wd\hvCaptionBox}
15304 \else
15305 \begin{minipage}{\wd\hvObjectBox}
15306 \fi

```



```

15307 \centering
15308 \ifhv@fbox
15309 \fbox{\usebox{\hvObjectBox}}\[\hvAboveCaptionSkip]
15310 \fbox{\usebox{\hvCaptionBox}}
15311 \else
15312 \usebox{\hvObjectBox}\[\hvAboveCaptionSkip]
15313 \usebox{\hvCaptionBox}
15314 \fi%
15315 \end{minipage}
15316 \else% the last option: put the caption on the right
15317 \if@RTL%
15318 \ifx\hvSet@capVPos\hv@Center%
15319 \ifhv@fbox\fbox{\parbox{\wd\hvCaptionBox}{\usebox{\hvCaptionBox}}}%
15320 \else \parbox{\wd\hvCaptionBox}{\usebox{\hvCaptionBox}}%
15321 \fi%
15322 \hspace{\hvSet@floatCapSep pt}% capfloatsep
15323 \ifhv@fbox\fbox{\parbox{\wd\hvObjectBox}{\usebox{\hvObjectBox}}}%
15324 \else \parbox{\wd\hvObjectBox}{\usebox{\hvObjectBox}}
15325 \fi%
15326 \else%
15327 \ifx\hvSet@capVPos\hv@Top % caption at top
15328 \ifhv@fbox\fbox{\raisebox{-\height}{\usebox{\hvCaptionBox}}}%
15329 \else \raisebox{-\height}{\usebox{\hvCaptionBox}}%
15330 \fi
15331 \hspace{\hvSet@floatCapSep pt}% capfloatsep
15332 \ifhv@fbox\fbox{\raisebox{-\height}{\usebox{\hvObjectBox}}}%
15333 \else \raisebox{-\height}{\usebox{\hvObjectBox}}%
15334 \fi%
15335 \else% caption on bottom
15336 \ifhv@fbox\fbox{\usebox{\hvCaptionBox}}
15337 \else\usebox{\hvCaptionBox}
15338 \fi%
15339 \hspace{\hvSet@floatCapSep pt}%
15340 \ifhv@fbox\fbox{\usebox{\hvObjectBox}}
15341 \else \usebox{\hvObjectBox}
15342 \fi%
15343 \fi%
15344 \fi%
15345 \else% not RTL
15346 \ifx\hvSet@capVPos\hv@Center%
15347 \ifhv@fbox
15348 \fbox{\parbox{\wd\hvObjectBox}{\usebox{\hvObjectBox}}}
15349 \else
15350 \parbox{\wd\hvObjectBox}{\usebox{\hvObjectBox}}
15351 \fi%
15352 \hspace{\hvSet@floatCapSep pt}%
15353 \ifhv@fbox
15354 \fbox{\parbox{\wd\hvCaptionBox}{\usebox{\hvCaptionBox}}}%
15355 \else
15356 \parbox{\wd\hvCaptionBox}{\usebox{\hvCaptionBox}}
15357 \fi%
15358 \else%
15359 \ifx\hvSet@capVPos\hv@Top
15360 \ifhv@fbox

```



```

15361 \fbox{\raisebox{-\height}{\usebox{\hvObjectBox}}}%
15362 \else
15363 \raisebox{-\height}{\usebox{\hvObjectBox}}%
15364 \fi%
15365 \hspace{\hvSet@floatCapSep pt}%
15366 \ifhv@fbox
15367 \fbox{\raisebox{-\height}{\usebox{\hvCaptionBox}}}%
15368 \else
15369 \raisebox{-\height}{\usebox{\hvCaptionBox}}%
15370 \fi
15371 \else
15372 \ifhv@fbox
15373 \fbox{\usebox{\hvObjectBox}}%
15374 \else
15375 \usebox{\hvObjectBox}%
15376 \fi
15377 \hspace{\hvSet@floatCapSep pt}%
15378 \ifhv@fbox
15379 \fbox{\usebox{\hvCaptionBox}}%
15380 \else
15381 \usebox{\hvCaptionBox}%
15382 \fi%
15383 \fi%
15384 \fi
15385 \fi% end of RTL
15386 \fi
15387 \fi
15388 \fi
15389 }% End savebox Object and caption
15390 %
15391 % now we rotate the object and caption, if needed
15392 %
15393 \ifx\hvSet@rotAngle\hv@Zero
15394 \usebox{\@tempboxa}
15395 \else
15396 \rotatebox{\hvSet@rotAngle}{\usebox{\@tempboxa}}
15397 \fi
15398 \ifhv@nonFloat
15399 \ifx\hvSet@objectPos\hv@Center
15400 \ifhv@nonFloat
15401 \hspace{\filll}
15402 \fi
15403 \fi
15404 \endgroup% End the nonfloat part
15405 \else
15406 \end{\hv@floatType}% End the floating environment
15407 \fi
15408 }

```

## 102 File hyperref-xetex-bidi.def

```

15409 \ProvidesFile{hyperref-xetex-bidi.def}[2018/11/11 v1.1 bidi adaptations for hyperref package]
15410 \AtBeginDocument{%
15411 \def\contentsline#1#2#3#4{%

```





```

15412 \ifx\#4\%
15413 \csname l@#1\endcsname{#2}{#3}%
15414 \else
15415 \ifcase\Hy@linktoc % none
15416 \csname l@#1\endcsname{#2}{#3}%
15417 \or % section
15418 \csname l@#1\endcsname{
15419 \hyper@linkstart{link}{#4}{\if@RTL\beginR\fi#2\if@RTL\endR\fi}\hyper@linkend
15420 }{#3}%
15421 \or % page
15422 \csname l@#1\endcsname{#2}{%
15423 \hyper@linkstart{link}{#4}{#3}\hyper@linkend
15424 }%
15425 \else % all
15426 \csname l@#1\endcsname{
15427 \hyper@linkstart{link}{#4}{\if@RTL\beginR\fi#2\if@RTL\endR\fi}\hyper@linkend
15428 }{#3}%
15429 \hyper@linkstart{link}{#4}{#3}\hyper@linkend
15430 }%
15431 \fi
15432 \fi
15433 }
15434 \ifHy@hyperfootnotes
15435 \let\H@@footnotetext\@footnotetext
15436 \let\HRTL@RTLfootnotetext\@RTLfootnotetext
15437 \let\HLTR@LTRfootnotetext\@LTRfootnotetext
15438 \def\@xfootnotenext[#1]{%
15439 \begingroup
15440 \csname c@%mpfn\endcsname #1\relax
15441 \unrestored@protected@xdef\@thefnmark{\thempfn}%
15442 \endgroup
15443 \ifx\@footnotetext\@mpfootnotetext
15444 \expandafter\H@@mpfootnotetext
15445 \else
15446 \expandafter\H@@footnotetext
15447 \fi
15448 }%
15449 \def\@xRTLfootnotenext[#1]{%
15450 \begingroup
15451 \csname c@%mpfn\endcsname #1\relax
15452 \unrestored@protected@xdef\@thefnmark{\thempfn}%
15453 \endgroup
15454 \ifx\@RTLfootnotetext\@mpRTLfootnotetext
15455 \expandafter\HRTL@mpRTLfootnotetext
15456 \else
15457 \expandafter\HRTL@RTLfootnotetext
15458 \fi
15459 }%
15460 \def\@xLTRfootnotenext[#1]{%
15461 \begingroup
15462 \csname c@%mpfn\endcsname #1\relax
15463 \unrestored@protected@xdef\@thefnmark{\thempfn}%
15464 \endgroup
15465 \ifx\@LTRfootnotetext\@mpLTRfootnotetext

```



```

15466     \expandafter\HLTR@mpLTRfootnotetext
15467     \else
15468     \expandafter\HLTR@LTrfootnotetext
15469     \fi
15470 }%
15471 \def\xfootnotemark[#1]{%
15472 \begingroup
15473   \c@footnote #1\relax
15474   \unrestored@protected@xdef\@thefnmark{\thefootnote}%
15475 \endgroup
15476 \H@@footnotemark
15477 }%
15478 \let\H@mpfootnotetext\mpfootnotetext
15479 \let\HRTL@mpRTLfootnotetext\mpRTLfootnotetext
15480 \let\HLTR@mpLTRfootnotetext\mpLTRfootnotetext
15481 \long\def\mpfootnotetext#1{%
15482 \H@mpfootnotetext{%
15483   \ifHy@nesting
15484     \hyper@@anchor{\Hy@footnote@currentHref}{#1}%
15485   \else
15486     \Hy@raisedlink{%
15487       \hyper@@anchor{\Hy@footnote@currentHref}{\relax}%
15488     }#1%
15489   \fi
15490 }%
15491 }%
15492 \long\def\mpRTLfootnotetext#1{%
15493 \HRTL@mpRTLfootnotetext{%
15494   \ifHy@nesting
15495     \hyper@@anchor{\Hy@footnote@currentHref}{#1}%
15496   \else
15497     \Hy@raisedlink{%
15498       \hyper@@anchor{\Hy@footnote@currentHref}{\relax}%
15499     }#1%
15500   \fi
15501 }%
15502 }%
15503 \long\def\mpLTRfootnotetext#1{%
15504 \HLTR@mpLTRfootnotetext{%
15505   \ifHy@nesting
15506     \hyper@@anchor{\Hy@footnote@currentHref}{#1}%
15507   \else
15508     \Hy@raisedlink{%
15509       \hyper@@anchor{\Hy@footnote@currentHref}{\relax}%
15510     }#1%
15511   \fi
15512 }%
15513 }%
15514 \long\def\@footnotetext#1{%
15515 \H@footnotetext{%
15516   \ifHy@nesting
15517     \hyper@@anchor{\Hy@footnote@currentHref}{#1}%
15518   \else
15519     \Hy@raisedlink{%

```



```

15520         \hyper@@anchor{\Hy@footnote@currentHref}{\relax}%
15521     }%
15522     \let\@currentHlabel\Hy@footnote@currentHlabel
15523     \let\@currentHref\Hy@footnote@currentHref
15524     \let\@currentlabelname\@empty
15525     #1%
15526 \fi
15527 }%
15528 }%
15529 \long\def\@RTLfootnotetext#1{%
15530 \HRTL@@@RTLfootnotetext{%
15531     \ifHy@nesting
15532         \hyper@@anchor{\Hy@footnote@currentHref}{#1}%
15533     \else
15534         \Hy@raisedlink{%
15535             \hyper@@anchor{\Hy@footnote@currentHref}{\relax}%
15536         }%
15537         \let\@currentHlabel\Hy@footnote@currentHlabel
15538         \let\@currentHref\Hy@footnote@currentHref
15539         \let\@currentlabelname\@empty
15540         #1%
15541     \fi
15542 }%
15543 }%
15544 \long\def\@LTRfootnotetext#1{%
15545 \HLTR@@@LTRfootnotetext{%
15546     \ifHy@nesting
15547         \hyper@@anchor{\Hy@footnote@currentHref}{#1}%
15548     \else
15549         \Hy@raisedlink{%
15550             \hyper@@anchor{\Hy@footnote@currentHref}{\relax}%
15551         }%
15552         \let\@currentHlabel\Hy@footnote@currentHlabel
15553         \let\@currentHref\Hy@footnote@currentHref
15554         \let\@currentlabelname\@empty
15555         #1%
15556     \fi
15557 }%
15558 }%
15559 \@ifpackageloaded{tabularx}{%
15560 \let\HyOrg@TX@endtabularx\TX@endtabularx
15561 \def\Hy@tabularx@hook{%
15562     \let\@footnotetext\H@@footnotetext
15563     \let\@LTRfootnotetext\HLTR@@LTRfootnotetext
15564     \let\@RTLfootnotetext\HRTL@@RTLfootnotetext
15565     \let\@footnotemark\H@@footnotemark
15566     \let\@mpfootnotetext\H@@mpfootnotetext
15567     \let\@mpLTRfootnotetext\HLTR@@mpLTRfootnotetext
15568     \let\@mpRTLfootnotetext\HRTL@@mpRTLfootnotetext
15569 }%
15570 \begingroup
15571     \toks@\expandafter{\TX@endtabularx}%
15572     \xdef\Hy@gtemp{%
15573         \noexpand\Hy@tabularx@hook

```



```

15574         \the\toks@
15575     }%
15576 \endgroup
15577 \let\TX@endtabularx\Hy@gtemp
15578 }{}%
15579 \@ifpackageloaded{longtable}{%
15580 \CheckCommand*\LT@p@LTRftntext}[1]{%
15581     \edef\@tempa{%
15582         \the\LT@p@ftn
15583         \noexpand\LTRfootnotetext[\the\c@footnote]%
15584     }%
15585     \global\LT@p@ftn\expandafter{\@tempa{#1}}%
15586 }%
15587 \long\def\LT@p@LTRftntext#1{%
15588     \edef\@tempa{%
15589         \the\LT@p@ftn
15590         \begingroup
15591             \noexpand\c@footnote=\the\c@footnote\relax
15592             \noexpand\protected@xdef\noexpand\@thefnmark{%
15593                 \noexpand\thempfn
15594             }%
15595             \noexpand\Hy@LT@LTRfootnotetext{%
15596                 \Hy@footnote@currentHref
15597             }%
15598         }%
15599         \global\LT@p@ftn\expandafter{%
15600             \@tempa{#1}%
15601         }%
15602     }%
15603 }%
15604 \long\def\Hy@LT@LTRfootnotetext#1#2{%
15605     \HLTR@@LTRfootnotetext{%
15606         \ifHy@nesting
15607             \hyper@@anchor{#1}{#2}%
15608         \else
15609             \Hy@raisedlink{%
15610                 \hyper@@anchor{#1}{\relax}%
15611             }%
15612             \def\@currentHref{#1}%
15613             \let\@currentlabelname\@empty
15614             #2%
15615         \fi
15616     }%
15617 }%
15618 \CheckCommand*\LT@p@RTLftntext}[1]{%
15619     \edef\@tempa{%
15620         \the\LT@p@ftn
15621         \noexpand\RTLfootnotetext[\the\c@footnote]%
15622     }%
15623     \global\LT@p@ftn\expandafter{\@tempa{#1}}%
15624 }%
15625 \long\def\LT@p@RTLftntext#1{%
15626     \edef\@tempa{%
15627         \the\LT@p@ftn

```



```

15628     \begingroup
15629     \noexpand\c@footnote=\the\c@footnote\relax
15630     \noexpand\protected@xdef\noexpand\@thefnmark{%
15631         \noexpand\thempfn
15632     }%
15633     \noexpand\Hy@LT@RTLfootnotetext{%
15634         \Hy@footnote@currentHref
15635     }%
15636 }%
15637 \global\LT@p@ftn\expandafter{%
15638     \@tempa{#1}%
15639 }%
15640 \endgroup
15641 }%
15642 \long\def\Hy@LT@RTLfootnotetext#1#2{%
15643     \HRTL@RTLfootnotetext{%
15644         \ifHy@nesting
15645             \hyper@@anchor{#1}{#2}%
15646         \else
15647             \Hy@raisedlink{%
15648                 \hyper@@anchor{#1}{\relax}%
15649             }%
15650             \def\@currentHref{#1}%
15651             \let\@currentlabelname\@empty
15652             #2%
15653         \fi
15654     }%
15655 }%
15656 }{}%
15657 \@ifpackageloaded{bidipoem}{%
15658     \long\def\bidipoem@p@ftntext#1{%
15659         \edef\@tempx{%
15660             \the\bidipoem@p@ftn
15661         }%
15662         \begingroup
15663         \noexpand\csname c@\@mpfn\endcsname=\the\csname c@\@mpfn\endcsname\relax
15664         \noexpand\protected@xdef\noexpand\@thefnmark{%
15665             \noexpand\thempfn
15666         }%
15667         \noexpand\Hy@bidipoem@footnotetext{%
15668             \Hy@footnote@currentHref
15669         }%
15670         \global\bidipoem@p@ftn\expandafter{%
15671             \@tempx{#1}%
15672         }%
15673     }%
15674 }%
15675 \long\def\Hy@bidipoem@footnotetext#1#2{%
15676     \H@@footnotetext{%
15677         \ifHy@nesting
15678             \hyper@@anchor{#1}{#2}%
15679         \else
15680             \Hy@raisedlink{%
15681                 \hyper@@anchor{#1}{\relax}%

```



```

15682         }%
15683         \def\@currentHref{#1}%
15684         \let\@currentlabelname\@empty
15685         #2%
15686     \fi
15687 }%
15688 }%
15689     \long\def\bidipoem@p@LTRftntext#1{%
15690 \edef\@tempxi{%
15691     \the\bidipoem@p@ftn
15692     \begingroup
15693     \noexpand\csname c@\@mpfn\endcsname=\the\csname c@\@mpfn\endcsname\relax
15694     \noexpand\protected@xdef\noexpand\@thefnmark{%
15695     \noexpand\thempfn
15696     }%
15697     \noexpand\Hy@bidipoem@LTRfootnotetext{%
15698     \Hy@footnote@currentHref
15699     }%
15700     }%
15701     \global\bidipoem@p@ftn\expandafter{%
15702     \@tempxi{#1}%
15703     \endgroup
15704     }%
15705 }%
15706 \long\def\Hy@bidipoem@LTRfootnotetext#1#2{%
15707     \HLTR@LTRfootnotetext{%
15708     \ifHy@nesting
15709     \hyper@@anchor{#1}{#2}%
15710     \else
15711     \Hy@raisedlink{%
15712     \hyper@@anchor{#1}{\relax}%
15713     }%
15714     \def\@currentHref{#1}%
15715     \let\@currentlabelname\@empty
15716     #2%
15717     \fi
15718     }%
15719 }%
15720     \long\def\bidipoem@p@RTLftntext#1{%
15721 \edef\@tempxii{%
15722     \the\bidipoem@p@ftn
15723     \begingroup
15724     \noexpand\csname c@\@mpfn\endcsname=\the\csname c@\@mpfn\endcsname\relax
15725     \noexpand\protected@xdef\noexpand\@thefnmark{%
15726     \noexpand\thempfn
15727     }%
15728     \noexpand\Hy@bidipoem@RTLfootnotetext{%
15729     \Hy@footnote@currentHref
15730     }%
15731     }%
15732     \global\bidipoem@p@ftn\expandafter{%
15733     \@tempxii{#1}%
15734     \endgroup
15735     }%

```



```

15736 }%
15737 \long\def\Hy@bidipoem@RTLfootnotetext#1#2{%
15738   \HRTL@@RTLfootnotetext{%
15739     \ifHy@nesting
15740       \hyper@@anchor{#1}{#2}%
15741     \else
15742       \Hy@raisedlink{%
15743         \hyper@@anchor{#1}{\relax}%
15744       }%
15745       \def\@currentHref{#1}%
15746       \let\@currentlabelname\@empty
15747       #2%
15748     \fi
15749   }%
15750 }%
15751 }-{}%
15752 \let\HyOrg@maketitle\maketitle
15753 \def\maketitle{%
15754   \let\Hy@saved@footnotemark\@footnotemark
15755   \let\Hy@saved@footnotetext\@footnotetext
15756   \let\HyRTL@saved@RTLfootnotetext\@RTLfootnotetext
15757   \let\HyLTR@saved@LTRfootnotetext\@LTRfootnotetext
15758   \let\@footnotemark\H@@footnotemark
15759   \let\@footnotetext\H@@footnotetext
15760   \let\@RTLfootnotetext\HRTL@@RTLfootnotetext
15761   \let\@LTRfootnotetext\HLTR@@LTRfootnotetext
15762   \@ifnextchar[\Hy@maketitle@optarg{% ]
15763     \HyOrg@maketitle
15764     \Hy@maketitle@end
15765   }%
15766 }%
15767 \def\Hy@maketitle@optarg[#1]{%
15768   \HyOrg@maketitle[#{#1}]%
15769   \Hy@maketitle@end
15770 }%
15771 \def\Hy@maketitle@end{%
15772   \ifx\@footnotemark\H@@footnotemark
15773     \let\@footnotemark\Hy@saved@footnotemark
15774     \fi
15775   \ifx\@footnotetext\H@@footnotetext
15776     \let\@footnotetext\Hy@saved@footnotetext
15777     \fi
15778   \ifx\@RTLfootnotetext\HRTL@@RTLfootnotetext
15779     \let\@RTLfootnotetext\HyRTL@saved@RTLfootnotetext
15780     \fi
15781   \ifx\@LTRfootnotetext\HLTR@@LTRfootnotetext
15782     \let\@LTRfootnotetext\HyLTR@saved@LTRfootnotetext
15783     \fi
15784 }%
15785 \def\realfootnote{%
15786   \@ifnextchar[\@xfootnote{%
15787     \stepcounter{\@mpfn}%
15788     \protected@xdef\@thefnmark{\thempfn}%
15789     \H@@footnotemark\H@@footnotetext

```



```

15790     }%
15791 }%
15792 \fi
15793 \def\Hy@BeginAnnot#1{%
15794   \ifmmode\else\beginL\fi%
15795   \global\advance\c@Hy@AnnotLevel\@ne
15796   \ifnum\c@Hy@AnnotLevel=\@ne
15797     #1%
15798   \fi
15799 }
15800 \def\Hy@endAnnot{%
15801   \ifnum\c@Hy@AnnotLevel=\@ne
15802     \Hy@endcolorlink
15803     \@pdfm@mark{eann}%
15804   \fi
15805   \global\advance\c@Hy@AnnotLevel\m@ne
15806   \ifmmode\else\endL\fi%
15807 }
15808 \def\hyper@link#1#2#3{%
15809   \hyper@linkstart{#1}{#2}\ifmmode\else\if@RTL\beginR\fi\fi#3\ifmmode\else\if@RTL\endR\fi\fi
15810 }
15811 \def\hyper@linkfile#1#2#3{%
15812   \leavevmode
15813   \Hy@BeginAnnot{%
15814     \def\Hy@pstringF{#2}%
15815     \Hy@CleanupFile\Hy@pstringF
15816     \Hy@pstringdef\Hy@pstringF\Hy@pstringF
15817     \Hy@pstringdef\Hy@pstringD{#3}%
15818     \Hy@MakeRemoteAction
15819     \@pdfm@mark{%
15820       bann<<%
15821       /Type/Annot%
15822       /Subtype/Link%
15823       \ifHy@pdfa /F 4\fi
15824       \Hy@setpdfborder
15825       \ifx\@filebordercolor\relax
15826         \else
15827           /C[\@filebordercolor]%
15828         \fi
15829       /A<<%
15830       /S/GoToR%
15831       /F(\Hy@pstringF)%
15832       /D%
15833       \ifx\@#3\%
15834         [\Hy@href@page\@pdfremotestartview]%
15835       \else
15836         (\Hy@pstringD)%
15837       \fi
15838       \Hy@SetNewWindow
15839       \Hy@href@nextactionraw
15840       >>%
15841     >>%
15842   }%
15843   \Hy@colorlink\@filecolor

```





```

15844 }%
15845 \ifmmode\else\if@RTL\beginR\fi\fi#1\ifmmode\else\if@RTL\endR\fi\fi\Hy@xspace@end
15846 \Hy@endAnnot
15847 }
15848 \def\hyper@launch run:#1\#2#3{% filename, anchor text linkname
15849 \leavevmode
15850 \Hy@BeginAnnot{%
15851 \Hy@pstringdef\Hy@pstringF{#1}%
15852 \Hy@pstringdef\Hy@pstringP{#3}%
15853 \@pdfmark{%
15854 bann<<%
15855 /Type/Annot%
15856 /Subtype/Link%
15857 \ifHy@pdfa /F 4\fi
15858 \Hy@setpdfborder
15859 \ifx\@runbordercolor\relax
15860 \else
15861 /C[\@runbordercolor]%
15862 \fi
15863 /A<<%
15864 /F(\Hy@pstringF)%
15865 /S/Launch%
15866 \Hy@SetNewWindow
15867 \ifx\#3\%
15868 \else
15869 /Win<</P(\Hy@pstringP)/F(\Hy@pstringF)>>%
15870 \fi
15871 \Hy@href@nextactionraw
15872 >>%
15873 >>%
15874 }%
15875 \Hy@colorlink\@runcolor
15876 }%
15877 \ifmmode\else\if@RTL\beginR\fi\fi#2\ifmmode\else\if@RTL\endR\fi\fi\Hy@xspace@end
15878 \Hy@endAnnot
15879 }
15880 \def\hyper@linkurl#1#2{%
15881 \leavevmode
15882 \Hy@BeginAnnot{%
15883 \Hy@pstringdef\Hy@pstringURI{#2}%
15884 \@pdfmark{%
15885 bann<<%
15886 /Type/Annot%
15887 /Subtype/Link%
15888 \ifHy@pdfa /F 4\fi
15889 \Hy@setpdfborder
15890 \ifx\@urlbordercolor\relax
15891 \else
15892 /C[\@urlbordercolor]%
15893 \fi
15894 /A<<%
15895 /S/URI%
15896 /URI(\Hy@pstringURI)%
15897 \ifHy@href@ismap

```



```

15898         /IsMap true%
15899         \fi
15900         \Hy@href@nextactionraw
15901         >>%
15902     >>%
15903 }%
15904 \Hy@colorlink\@urlcolor
15905 }%
15906 \ifmmode\else\if@RTL\beginR\fi\fi#1\ifmmode\else\if@RTL\endR\fi\fi\Hy@xspace@end
15907 \Hy@endAnnot
15908 }
15909 \def\Acrobatmenu#1#2{%
15910 \Hy@Acrobatmenu{#1}{#2}{%
15911     \Hy@BeginAnnot{%
15912         \EdefEscapeName\Hy@temp@menu{#1}%
15913         \@pdfm@mark{%
15914             bann<<%
15915             /Type/Annot%
15916             /Subtype/Link%
15917             \ifHy@pdfa /F 4\fi
15918             \Hy@setpdfborder
15919             \ifx\@menubordercolor\relax
15920             \else
15921                 /C[\@menubordercolor]%
15922             \fi
15923             /A<<%
15924             /S/Named%
15925             /N/\Hy@temp@menu
15926             \Hy@href@nextactionraw
15927             >>%
15928             >>%
15929             }%
15930             \Hy@colorlink\@menucolor
15931         }%
15932         \ifmmode\else\if@RTL\beginR\fi\fi#2\ifmmode\else\if@RTL\endR\fi\fi\Hy@xspace@end
15933         \Hy@endAnnot
15934     }%
15935 }
15936 \def\hyper@natlinkstart#1{%
15937 \Hy@backout{#1}%
15938 \hyper@linkstart{cite}{cite.#1}\if@RTL\beginR\fi%
15939 \def\hyper@nat@current{#1}%
15940 }
15941 \def\hyper@natlinkend{%
15942 \if@RTL\endR\fi\hyper@linkend
15943 }
15944 \def\hyper@natlinkbreak#1#2{%
15945 \if@RTL\endR\fi\hyper@linkend#1\hyper@linkstart{cite}{cite.#2}\if@RTL\beginR\fi%
15946 }%
15947 }
15948 \pdfstringdefDisableCommands{%
15949 \let\LRE\@firstofone
15950 \let\LR\@firstofone
15951 \let\RLE\@firstofone

```



```

15952 \let\RL\@firstofone
15953 \def\XeTeX{Xe\TeX}%
15954 \def\XeLaTeX{Xe\LaTeX}%
15955 }
15956 \@ifpackageloaded{longtable}{%
15957   \begingroup
15958     \def\y{\LT@array}%
15959     \@ifundefined{scr@LT@array}{%
15960       \@ifundefined{adl@LT@array}{\def\y{\adl@LT@array}}%
15961     }\def\y{\scr@LT@array}%
15962     \long\def\x\refstepcounter#1#2\@sharp#3#4\@nil{%
15963       \expandafter\endgroup
15964       \expandafter\def\y[##1]##2{%
15965         \H@refstepcounter{#1}%
15966         \hyper@makecurrent{table}%
15967         \let\Hy@LT@currentHref\@currentHref
15968         #2\@sharp####4%
15969       }%
15970     }%
15971     \expandafter\expandafter\expandafter\x\y[#{1}]{#2}\@nil
15972     \begingroup
15973       \def\x#1\ifvoid\LT@foot#2\fi#3\@nil{%
15974         \endgroup
15975         \def\LT@start{%
15976           #1%
15977           \ifvoid\LT@foot#2\fi
15978           \let\@currentHref\Hy@LT@currentHref
15979           \Hy@raisedlink{%
15980             \hyper@anchorstart{\@currentHref}\hyper@anchorend
15981           }%
15982           #3%
15983         }%
15984       }%
15985     \expandafter\x\LT@start\@nil
15986   }{}
15987   \bidi@patchcmd\@TextField{%
15988     \@pdfm@mark
15989   }{%
15990     \if@RTL
15991       \hskip\Fld@width
15992     \fi
15993     \@pdfm@mark
15994   }{}{}
15995   \bidi@patchcmd\@TextField{%
15996     \unhbox
15997   }{%
15998     \if@RTL
15999       \hskip-\Fld@width
16000     \fi
16001     \unhbox
16002   }{}{}
16003   \bidi@patchcmd\@@Radio{%
16004     \@pdfm@mark
16005   }{%

```



```

16006 \if@RTL
16007 \hskip\Fld@width
16008 \fi
16009 \@pdfm@mark
16010 }{}{}
16011 \bidi@patchcmd\@@Radio{%
16012 \unhcopy
16013 }{%
16014 \if@RTL
16015 \hskip-\Fld@width
16016 \fi
16017 \unhcopy
16018 }{}{}
16019 \bidi@patchcmd\@Submit{%
16020 \@pdfm@mark
16021 }{%
16022 \if@RTL
16023 \null
16024 \hskip\wd\pdfm@box
16025 \fi
16026 \@pdfm@mark
16027 }{}{}
16028 \bidi@patchcmd\@Submit{%
16029 \unhbox
16030 }{%
16031 \if@RTL
16032 \hskip-\wd\pdfm@box
16033 \fi
16034 \unhbox
16035 }{}{}
16036 \bidi@patchcmd\@Reset{%
16037 \@pdfm@mark
16038 }{%
16039 \if@RTL
16040 \null
16041 \hskip\wd\pdfm@box
16042 \fi
16043 \@pdfm@mark
16044 }{}{}
16045 \bidi@patchcmd\@Reset{%
16046 \unhbox
16047 }{%
16048 \if@RTL
16049 \hskip-\wd\pdfm@box
16050 \fi
16051 \unhbox
16052 }{}{}

```

### 103 File `imsproc-xetex-bidi.def`

```

16053 \ProvidesFile{imsproc-xetex-bidi.def}[2017/06/09 v0.1 bidi adaptations for imsproc class for
16054 \newenvironment{thebibliography}[1]{%
16055 \@bibtitlestyle
16056 \normalfont\bibliofont\labelsep .5em\relax

```



```

16057 \renewcommand\theenumiv{\arabic{enumiv}}\let\p@enumiv\@empty
16058 \if@RTL\if@LTRbibitems\@RTLfalse\else\fi\else\if@RTLbibitems\@RTLtrue\else\fi\fi
16059 \bidi@thebibliography@font@hook
16060 \list{\@biblabel{\theenumiv}}{\settowidth\labelwidth{\@biblabel{#1}}%
16061 \leftmargin\labelwidth \advance\leftmargin\labelsep
16062 \usecounter{enumiv}}%
16063 \sloppy \clubpenalty\@M \widowpenalty\clubpenalty
16064 \sfcode`\.=\@m
16065 }{%
16066 \def\@noitemerr{\@latex@warning{Empty `thebibliography' environment}}%
16067 \endlist
16068 }
16069
16070 \def\theindex{\@restonecoltrue\if@twocolumn\@restonecolfalse\fi
16071 \columnseprule\z@ \columnsep 35\p@
16072 \@indextitlestyle
16073 \thispagestyle{plain}%
16074 \let\item\@idxitem
16075 \parindent\z@ \parskip\z@\@plus.3\p@\relax
16076 \if@RTL\raggedleft\else\raggedright\fi
16077 \hyphenpenalty\@M
16078 \footnotesize}
16079 \def\@idxitem{\par\hangindent \if@RTL-\fi2em}
16080 \def\subitem{\par\hangindent \if@RTL-\fi2em\hspace*{1em}}
16081 \def\subsubitem{\par\hangindent \if@RTL-\fi3em\hspace*{2em}}
16082
16083 \def\right@footnoterule{%
16084 \kern-.4\p@
16085 \hbox to \columnwidth{\hskip \dimexpr\columnwidth-5pc\relax \hrulefill }
16086 \kern11\p@\kern-\footnotesep}
16087 \def\left@footnoterule{\kern-.4\p@
16088 \hrule\@width 5pc\kern11\p@\kern-\footnotesep}
16089 \def\@makefnmark{%
16090 \leavevmode
16091 \raise.9ex\hbox{\fontsize\sf@size\z@\normalfont\@thefnmark}%
16092 }
16093
16094 \def\part{\@startsection{part}{0}%
16095 \z@{\linespacing\@plus\linespacing}{.5\linespacing}%
16096 {\normalfont\bfseries\if@RTL\raggedleft\else\raggedright\fi}}
16097 \def\@tocline#1#2#3#4#5#6#7{\relax
16098 \ifnum #1>\c@tocdepth % then omit
16099 \else
16100 \par \addpenalty\@secpenalty\addvspace{#2}%
16101 \begingroup \hyphenpenalty\@M
16102 \@ifempty{#4}{%
16103 \@tempdima\csname r@tocindent\number#1\endcsname\relax
16104 }{%
16105 \@tempdima#4\relax
16106 }%
16107 \parindent\z@ \if@RTL\righskip\else\leftskip\fi#3\relax \advance\if@RTL\righskip\else\leftskip\fi
16108 \if@RTL\leftskip\else\righskip\fi\@pnumwidth plus4em \parfillskip-\@pnumwidth
16109 #5\leavevmode\hskip-\@tempdima #6\nobreak\relax
16110 \hfil\hbox to\@pnumwidth{\@tocpagenum{#7}}\par

```



```

16111 \nobreak
16112 \endgroup
16113 \fi}
16114 \renewcommand\thesubsection {\thesection\@SepMark\arabic{subsection}}
16115 \renewcommand\thesubsubsection {\thesubsection \@SepMark\arabic{subsubsection}}
16116 \renewcommand\theparagraph {\thesubsubsection\@SepMark\arabic{paragraph}}
16117 \renewcommand\thesubparagraph {\theparagraph\@SepMark\arabic{subparagraph}}
16118 \def\maketitle{\par
16119 \@topnum\z@ % this prevents figures from falling at the top of page 1
16120 \@setcopyright
16121 \thispagestyle{firstpage}% this sets first page specifications
16122 \uppercasenonmath\shorttitle
16123 \ifx\@empty\shortauthors \let\shortauthors\shorttitle
16124 \else \andify\shortauthors
16125 \fi
16126 \@maketitle@hook
16127 \begingroup
16128 \@maketitle
16129 \toks@{\xp{\shortauthors}\@temptokena\xp{\shorttitle}}%
16130 \toks4{\def\{\ \ignorespaces}}% defend against questionable usage
16131 \edef\@tempa{%
16132 \ \nx\markboth{\the\toks4
16133 \ \nx\MakeUppercase{\the\toks@}}{\the\@temptokena}}%
16134 \@tempa
16135 \endgroup
16136 \c@footnote\z@
16137 \clearatopmattertags
16138 }

```

## 104 File leqno-xetex-bidi.def

```

16139 \ProvidesFile{leqno-xetex-bidi.def}[2018/01/07 v0.2 bidi adaptations for leqno tag for XeTeX]
16140 \renewcommand\@eqnnum{\hbxt@.01\p@{}}%
16141 \rlap{\hskip -\displaywidth
16142 \{\normalfont\normalcolor\if@RTL\beginR\fi(\theequation)\if@RTL\endR\}}

```

## 105 File letter-xetex-bidi.def

```

16143 \ProvidesFile{letter-xetex-bidi.def}[2015/11/14 v0.3 bidi adaptations for standard letter class]
16144 \renewcommand*\opening[1]{\ifx\@empty\fromaddress
16145 \thispagestyle{firstpage}%
16146 {\if@RTL\raggedright\else\raggedleft\fi\@date\par}%
16147 \else % home address
16148 \thispagestyle{empty}%
16149 {\if@RTL\raggedright\else\raggedleft\fi\if@RTL\begin{tabular}{r@{}}\else\begin{tabular}{l@{}}
16150 \fromaddress \ \*[2\parskip]%
16151 \@date \end{tabular}\par}%
16152 \fi
16153 \vspace{2\parskip}%
16154 {\if@RTL\raggedleft\else\raggedright\fi \toname \ \ \toaddress \par}%
16155 \vspace{2\parskip}%
16156 #1\par\nobreak}
16157 \renewcommand\left@footnoterule{%
16158 \kern-\p@

```



```

16159 \hrule \@width .4\columnwidth
16160 \kern .6\p@}
16161 \renewcommand\right@footnoterule{%
16162 \kern-\p@
16163 \hbox to \columnwidth{\hskip .6\columnwidth \hrulefill }
16164 \kern .6\p@}

```

## 106 File lettrine-xetex-bidi.def

```

16165 \ProvidesFile{lettrine-xetex-bidi.def}[2019/05/01 v0.7 bidi adaptations for lettrine package]
16166 \def\@lettrine[#1]#2#3{%
16167 \def\l@initial{#2}\let\l@refstring\l@initial
16168 \setcounter{L@lines}{\value{DefaultLines}}%
16169 \setcounter{L@depth}{\value{DefaultDepth}}%
16170 \renewcommand*{\L@hang}{\DefaultLhang}%
16171 \renewcommand*{\L@oversize}{\DefaultLoversize}%
16172 \renewcommand*{\L@raise}{\DefaultLraise}%
16173 \renewcommand*{\L@ante}{}%
16174 \setlength{\L@Findent}{\DefaultFindent}%
16175 \setlength{\L@Nindent}{\DefaultNindent}%
16176 \setlength{\L@slope}{\DefaultSlope}%
16177 \setlength{\L@novskip}{\DiscardVskip}%
16178 \ifLettrineImage\L@imagetrue\else\L@imagefalse\fi
16179 \ifLettrineOnGrid\L@gridtrue\else\L@gridfalse\fi
16180 \ifLettrineRealHeight\L@realhtrue\else\L@realhfalse\fi
16181 \ifLettrineSelfRef\L@selfreftrue\else\L@selfreffalse\fi
16182 \setkeys{L}{#1}%
16183 \sbox{\L@tbox}{\LettrineTextFont{\LettrineSecondString}}%
16184 \ifL@realh
16185 \def\@tempa{#3}%
16186 \ifx\@tempa\@empty
16187 \PackageWarning{lettrine.sty}%
16188 {Empty second argument,\MessageBreak
16189 ignoring option `realheight';}%
16190 \else
16191 \sbox{\L@tbox}{\LettrineTextFont{#3}}%
16192 \fi
16193 \fi
16194 \if\DefaultOptionsFile\relax
16195 \else
16196 \begingroup
16197 \InputIfFileExists{\DefaultOptionsFile}%
16198 {}%
16199 {\PackageWarning{lettrine.sty}%
16200 {File \DefaultOptionsFile\space not found}}%
16201 }%
16202 \def\color##1##{\l@color{##1}}%
16203 \let\l@color\@gobbletwo
16204 \def\textcolor##1##{\l@textcolor{##1}}%
16205 \def\l@textcolor##1##2##3{##3}%
16206 \expandafter\ifx\csname l@#2-keys\endcsname\relax
16207 \gdef\l@LOKeys{%
16208 \else
16209 \xdef\l@LOKeys{\csname l@#2-keys\endcsname}%

```



```

16210         \fi
16211     \endgroup
16212     \def\KV@prefix{KV@L@}%
16213     \let\@tempc\relax
16214     \expandafter\KV@do\l@LOKeys,\relax,
16215     \setupL@lbox
16216     \setlength{\LettrineWidth}{\wd\L@lbox}%
16217     \def\KV@prefix{KV@L@}%
16218     \let\@tempc\relax
16219     \expandafter\KV@do\l@LOKeys,\relax,
16220     \setkeys{L}{#1}%
16221 \fi
16222 \setupL@lbox
16223 \setlength{\LettrineWidth}{\wd\L@lbox}%
16224 \setlength{\LettrineHeight}{\ht\L@lbox}%
16225 \setlength{\LettrineDepth}{\dp\L@lbox}%
16226 \begingroup
16227 \def\IeC##1{##1}%
16228 \@tempdima=L@oversize pt\relax
16229 \PackageInfo{lettrine.sty}%
16230 {Targeted height = \the\L@target@tth\MessageBreak
16231 (no accent, loversize=0),\MessageBreak
16232 Lettrine height = \the\LettrineHeight\space (#2)%
16233 \ifdim\@tempdima=z@\else\space loversize=L@oversize\fi;%
16234 \MessageBreak reported}%
16235 \endgroup
16236 \sbox{\L@tbox}{\LettrineTextFont{#3}}%
16237 \setlength{\L@first}{\LettrineHeight}%
16238 \setlength{\L@lraise}{\L@raise\L@target@tth}%
16239 \addtolength{\L@first}{\L@lraise}%
16240 \ifnum\value{L@lines}=1
16241 \addtolength{\L@first}{-\ht\L@tbox}%
16242 \else
16243 \addtolength{\L@first}{-\L@target@tth}%
16244 \addtolength{\L@lraise}{-\L@target@dp}%
16245 \fi
16246 \par
16247 \ifdim\L@first>\L@novskip
16248 \ifL@grid
16249 \@tempdima=\baselineskip
16250 \@tempdimb=\@tempdima
16251 \advance\@tempdimb by \L@novskip
16252 \@tempcnta=1
16253 \loop\ifdim\L@first>\@tempdimb
16254 \advance\@tempcnta by 1
16255 \advance\L@first by -\@tempdima
16256 \repeat
16257 \L@first=\@tempcnta\baselineskip
16258 \fi
16259 \vskip\L@first
16260 \fi
16261 \setlength{\L@Pindent}{\wd\L@lbox}%
16262 \addtolength{\L@Pindent}{-\L@hang\wd\L@lbox}%
16263 \settowidth{\L@first}{\L@ante}%

```





```

16264 \addtolength{\L@Pindent}{\L@first}%
16265 \addtolength{\L@Pindent}{\L@Findent}%
16266 \setlength{\L@first}{\linewidth}%
16267 \addtolength{\L@first}{-\L@Pindent}%
16268 \addtolength{\L@Nindent}{\L@Pindent}%
16269 \setlength{\L@next}{\linewidth}%
16270 \addtolength{\L@next}{-\L@Nindent}%
16271 \addtolength{\L@Pindent}{\@totalleftmargin}%
16272 \addtolength{\L@Nindent}{\@totalleftmargin}%
16273 \addtocounter{L@lines}{1}%
16274 \addtocounter{L@lines}{\value{L@depth}}%
16275 \if@RTL
16276   \def\L@parshape{\c@L@lines \z@ \the\L@first}%
16277 \else
16278   \def\L@parshape{\c@L@lines \the\L@Pindent \the\L@first}%
16279 \fi
16280 \@tempcnta=\tw@
16281 \@whilenum \@tempcnta<\c@L@lines\do{%
16282   \if@RTL
16283     \edef\L@parshape{\L@parshape \z@ \the\L@next}%
16284   \else
16285     \edef\L@parshape{\L@parshape \the\L@Nindent \the\L@next}%
16286   \fi
16287   \addtolength{\L@Nindent}{\L@slope}%
16288   \addtolength{\L@next}{-\L@slope}%
16289   \advance\@tempcnta\@ne}%
16290 \if@RTL
16291   \edef\L@parshape{\L@parshape \z@ \the\linewidth}%
16292 \else
16293   \edef\L@parshape{\L@parshape \@totalleftmargin \the\linewidth}%
16294 \fi
16295 \noindent
16296 \parshape=\L@parshape\relax
16297 \smash{\llap{\mbox{\L@ante}\raisebox{\L@raise}{\usebox{\L@lbox}}}%
16298   \hskip \the\L@Findent}}%
16299 \usebox{\L@tbox}%
16300 \ifnum\@listdepth>0 \lreset@listparshape \fi
16301 }

```

## 107 File `lineno-xetex-bidi.def`

```

16302 \ProvidesFile{lineno-xetex-bidi.def}[2018/01/28 v0.2 bidi adaptations for lineno package for
16303 \bidi@patchcmd{\MakeLineNo}{%
16304   \hb@xt@\z@{\makeLineNumber}%
16305 }{%
16306   \hboxL to \z@{\makeLineNumber}%
16307 }{}{}
16308
16309 \bidi@patchcmd{\makeLineNumberLeft}{\LineNumber}{%
16310   \if@RTL
16311     \hb@xt@\linewidthwidth{\LineNumber\hss}%
16312   \else
16313     \LineNumber
16314   \fi

```



```

16315 }{}{}
16316
16317 \bidi@patchcmd{\makeLineNumberRight}{%
16318   \hb@xt@\linenumberwidth{\hss\LineNumber}%
16319 }{%
16320   \if@RTL
16321     \LineNumber
16322   \else
16323     \hb@xt@\linenumberwidth{\hss\LineNumber}%
16324   \fi
16325 }{}{}
16326
16327 \bidi@AfterPreamble{%
16328   \if@RTLmain
16329     \rightlinenumbers*
16330   \else
16331     \leftlinenumbers*
16332   \fi
16333   \@ifpackagewith{lineno}{left}{%
16334     \leftlinenumbers*
16335   }{}
16336   \@ifpackagewith{lineno}{right}{%
16337     \rightlinenumbers*
16338   }{}
16339 }
16340

```

## 108 File listings-xetex-bidi.def

```

16341 \ProvidesFile{listings-xetex-bidi.def}[2018/09/15 v1.5 bidi adaptations for listings package]
16342 \lst@Key{captiondirection}{textdirection}{%
16343   \lstKV@SwitchCases{#1}%
16344   {textdirection:\\%
16345     RTL:\chardef\bidi@lst@caption@direction\@ne\\%
16346     LTR:\chardef\bidi@lst@caption@direction\z@%
16347   }{\PackageError{Listings}{direction #1 unknown}\@ehc}}
16348
16349 \lst@Key{captionscript}{textscript}{%
16350   \lstKV@SwitchCases{#1}%
16351   {textscript:\\%
16352     latin:\chardef\bidi@lst@caption@script\@ne\\%
16353     nonlatin:\chardef\bidi@lst@caption@script\z@%
16354   }{\PackageError{Listings}{direction #1 unknown}\@ehc}}
16355
16356 \newcommand*{\bidi@lst@ensure@caption@direction}[2]{%
16357   \@ifundefined{bidi@lst@caption@direction}{}{%
16358     \ifnum\bidi@lst@caption@direction=\z@%
16359       #1%
16360     \else%
16361       \ifnum\bidi@lst@caption@direction=\@ne%
16362         #2%
16363       \fi%
16364     \fi%
16365 }}

```



```

16366
16367 \newcommand*{\bidi@lst@ensure@caption@script}[2]{%
16368   \@ifundefined{bidi@lst@caption@script}{}{%
16369     \ifnum\bidi@lst@caption@script=\z@%
16370       #1%
16371     \else%
16372       \ifnum\bidi@lst@caption@script=\@ne%
16373         #2%
16374       \fi%
16375     \fi%
16376 }}
16377
16378 \long\def\bidi@lst@makecaption#1#2{%
16379   \bidi@lst@ensure@caption@script{\@nonlatintrue}{\@nonlatinfalse}%
16380   \vskip\abovcaptionskip
16381   \bidi@lst@ensure@caption@direction{\@RTLfalse}{\@RTLtrue}%
16382   \sbox\@tempboxa{%
16383     \bidi@lst@ensure@caption@direction{\beginL}{\beginR}%
16384     #1: #2%
16385     \bidi@lst@ensure@caption@direction{\endL}{\endR}%
16386   }%
16387   \ifdim \wd\@tempboxa >\hsize
16388     #1: #2\par
16389   \else
16390     \global \@minipagefalse
16391     \hb@xt@\hsize{\hfil\box\@tempboxa\hfil}%
16392   \fi
16393   \vskip\belowcaptionskip}%
16394 \def\lst@makecaption{\@bidi@lst@makecaption}
16395 \def\lst@maketitle{\@bidi@lst@makecaption\lst@title@dropdelim}
16396 \bidi@AtEndPreamble{%
16397   \bidi@patchcmd{\lst@MakeCaption}{%
16398     \ifx #1t%
16399       \ifx\lst@@caption\@empty\expandafter\lst@HRefStepCounter \else
16400         \expandafter\refstepcounter
16401       \fi {lstlisting}%
16402   }{%
16403     \ifx #1t%
16404       \bidi@lst@ensure@caption@direction{\@RTLfalse}{\@RTLtrue}%
16405       \ifx\lst@@caption\@empty\expandafter\lst@HRefStepCounter \else
16406         \expandafter\refstepcounter
16407       \fi {lstlisting}%
16408       \bidi@lst@ensure@caption@direction{\@RTLfalse}{\@RTLfalse}%
16409   }}}%
16410 \bidi@patchcmd{\lst@MakeCaption}{%
16411   \addcontentsline{lol}{lstlisting}%
16412   {\protect\numberline{\thelstlisting}\lst@@caption}%
16413 }{}%
16414 \begingroup%
16415   \bidi@lst@ensure@caption@direction{\@RTLfalse}{\@RTLtrue}%
16416   \addcontentsline{lol}{lstlisting}%
16417   {\protect\numberline{\thelstlisting}\lst@@caption}%
16418 \endgroup%
16419 }{}%

```



```

16420 }
16421 \@ifpackageloaded{caption}{%
16422   \AtBeginCaption{%
16423     \bidi@lst@ensure@caption@script{\@nonlatintrue}{\@nonlatinfalse}%
16424     \bidi@lst@ensure@caption@direction{\@RTLfalse}{\@RTLtrue}%
16425   }
16426   \let\@bidi@lst@makecaption\caption@makecaption%
16427   \def\lst@makecaption{\caption@starfalse\@bidi@lst@makecaption}%
16428   \def\lst@maketitle{\caption@startrue\@bidi@lst@makecaption\@empty}%
16429 }%
16430 \AtBeginDocument{%
16431   \@ifundefined{captionlabelfalse}{\@}%
16432   \def\lst@maketitle{\captionlabelfalse\@bidi@lst@makecaption\@empty}}%
16433   \@ifundefined{caption@startrue}{\@}%
16434   \def\lst@maketitle{\caption@startrue\@bidi@lst@makecaption\@empty}}%
16435 }%
16436 }
16437 \AtBeginDocument{
16438   \@ifundefined{thechapter}{\let\lst@ifnumberbychapter\iffalse}{\@}%
16439   \lst@ifnumberbychapter
16440     \gdef\thelstlisting%
16441       {\ifnum \c@chapter>\z@ \thechapter\@SepMark\fi \@arabic\c@lstlisting}
16442   \else
16443     \gdef\thelstlisting{\@arabic\c@lstlisting}
16444   \fi}

```

## 109 File loadingorder-xetex-bidi.def

```

16445 \ProvidesFile{loadingorder-xetex-bidi.def}[2017/12/29 v0.97 making sure that bidi is the las
16446 \bidi@isloaded{amsmath}
16447 \bidi@isloaded{amstext}
16448 \bidi@isloaded{amsthm}
16449 \bidi@isloaded{animate}
16450 \bidi@isloaded{breqn}
16451 \bidi@isloaded{cals}
16452 \bidi@isloaded{caption}
16453 \bidi@isloaded{crop}
16454 \bidi@isloaded{cuted}
16455 \bidi@isloaded{cutwin}
16456 \bidi@isloaded{color}
16457 \bidi@isloaded{dblfnote}
16458 \bidi@isloaded{diagbox}
16459 \bidi@isloaded{xcolor}
16460 \bidi@isloaded{colortbl}
16461 \bidi@isloaded{float}
16462 \bidi@isloaded{floatrow}
16463 \bidi@isloaded{flowfram}
16464 \bidi@isloaded{framed}
16465 \bidi@isloaded{ftnright}
16466 \bidi@isloaded{xltextra}
16467 \bidi@isloaded{xunicode}
16468 \bidi@isloaded{wrapfig}
16469 \bidi@isloaded{graphicx}
16470 \bidi@isloaded{geometry}

```



```

16471 \bidi@isloaded{hvfloat}
16472 \bidi@isloaded{mdframed}
16473 \bidi@isloaded{midfloat}
16474 \bidi@isloaded{ntheorem}
16475 \bidi@isloaded{ntheorem-hyper}
16476 \bidi@isloaded{hyperref}
16477 \bidi@isloaded{fancybox}
16478 \bidi@isloaded{fancyhdr}
16479 \bidi@isloaded{fix2col}
16480 \bidi@isloaded{draftwatermark}
16481 \bidi@isloaded{empheq}
16482 \bidi@isloaded{overpic}
16483 \bidi@isloaded{pdfpages}
16484 \bidi@isloaded{listings}
16485 \bidi@isloaded{lettrine}
16486 \bidi@isloaded{lineno}
16487 \bidi@isloaded{media9}
16488 \bidi@isloaded{pstricks}
16489 \bidi@isloaded{pgf}
16490 \bidi@isloaded{picinpar}
16491 \bidi@isloaded{quotchap}
16492 \bidi@isloaded{tikz}
16493 \bidi@isloaded{titlesec}
16494 \bidi@isloaded{titletoc}
16495 \bidi@isloaded{array}
16496 \bidi@isloaded{soul}
16497 \bidi@isloaded{stabular}
16498 \bidi@isloaded{subfig}
16499 \bidi@isloaded{subfigure}
16500 \bidi@isloaded{supertabular}
16501 \bidi@isloaded{xtab}
16502 \bidi@isloaded{longtable}
16503 \bidi@isloaded{arydshln}
16504 \bidi@isloaded{multicol}
16505 \bidi@isloaded{multienum}
16506 \bidi@isloaded{minitoc}
16507 \bidi@isloaded{natbib}
16508 \bidi@isloaded{newfloat}
16509 \bidi@isloaded{ragged2e}
16510 \bidi@isloaded{rotating}
16511 \bidi@isloaded{tbls}
16512 \bidi@isloaded{tabulary}
16513 \bidi@isloaded{tocbasic}
16514 \bidi@isloaded{tocstyle}
16515 \bidi@isloaded{tocbibind}
16516 \bidi@isloaded{fontspec}
16517 \bidi@isloaded{arabxetex}
16518 \bidi@isloaded{polyglossia}
16519 \bidi@isloaded{fancyvrb}
16520 \AtBeginDocument{
16521   \if@bidi@amsmathloaded\else
16522     \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package amsmath after bidi pack
16523   \fi%
16524   \if@bidi@amstextloaded\else

```



```

16525 \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package amstext after bidi pack
16526 \fi%
16527 \if@bidi@amsthmloaded@else
16528 \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package amsthm after bidi packa
16529 \fi%
16530 \if@bidi@animateloaded@else
16531 \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package animate after bidi pack
16532 \fi%
16533 \if@bidi@breqnloaded@else
16534 \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package breqn after bidi packag
16535 \fi%
16536 \if@bidi@calsloaded@else
16537 \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package cals after bidi package
16538 \fi%
16539 \if@bidi@captionloaded@else
16540 \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package caption after bidi pack
16541 \fi%
16542 \if@bidi@croploaded@else
16543 \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package crop after bidi package
16544 \fi%
16545 \if@bidi@colorloaded@else
16546 \@ifpackageloaded{hyperref}{-}{%
16547 \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package color after bidi packag
16548 \fi%
16549 \if@bidi@cutwinloaded@else
16550 \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package cutwin after bidi packa
16551 \fi%
16552 \if@bidi@cutedloaded@else
16553 \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package cuted after bidi packag
16554 \fi%
16555 \if@bidi@dblfnoteloaded@else
16556 \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package dblfnote after bidi pac
16557 \fi%
16558 \if@bidi@diagboxloaded@else
16559 \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package diagbox after bidi pack
16560 \fi%
16561 \if@bidi@xcolorloaded@else
16562 \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package xcolor after bidi packa
16563 \fi%
16564 \if@bidi@colortblloaded@else
16565 \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package colortbl after bidi pac
16566 \fi%
16567 \if@bidi@floatloaded@else
16568 \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package float after bidi packag
16569 \fi%
16570 \if@bidi@floatrowloaded@else
16571 \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package floatrow after bidi pac
16572 \fi%
16573 \if@bidi@flowframloaded@else
16574 \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package flowfram after bidi pac
16575 \fi%
16576 \if@bidi@framedloaded@else
16577 \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package framed after bidi packa
16578 \fi%

```



```

16579 \if@bidi@ftnrightloaded@else
16580 \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package ftnright after bidi pac
16581 \fi%
16582 \if@bidi@xltxtraloaded@else
16583 \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package xltextra after bidi pack
16584 \fi%
16585 \if@bidi@xunicodeloaded@else
16586 \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package xunicode after bidi pac
16587 \fi%
16588 \if@bidi@wrapfigloaded@else
16589 \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package wrapfig after bidi pack
16590 \fi%
16591 \if@bidi@graphicxloaded@else
16592 \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package graphicx after bidi pac
16593 \fi%
16594 \if@bidi@geometryloaded@else
16595 \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package geometry after bidi pac
16596 \fi%
16597 \if@bidi@hvfloatloaded@else
16598 \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package hvfloat after bidi pack
16599 \fi%
16600 \if@bidi@mdframedloaded@else
16601 \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package mdframed after bidi pac
16602 \fi%
16603 \if@bidi@midfloatloaded@else
16604 \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package midfloat after bidi pac
16605 \fi%
16606 \if@bidi@ntheoremloaded@else
16607 \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package ntheorem after bidi pac
16608 \fi%
16609 \if@bidi@hyperrefloaded@else
16610 \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package hyperref after bidi pac
16611 \fi%
16612 \if@bidi@fancyboxloaded@else
16613 \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package fancybox after bidi pac
16614 \fi%
16615 \if@bidi@fancyhdrloaded@else
16616 \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package fancyhdr after bidi pac
16617 \fi%
16618 \if@bidi@draftwatermarkloaded@else
16619 \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package draftwatermark after bi
16620 \fi%
16621 \if@bidi@empheqloaded@else
16622 \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package empheq after bidi packa
16623 \fi%
16624 \if@bidi@overpicloaded@else
16625 \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package overpic after bidi pack
16626 \fi%
16627 \if@bidi@pdfpagesloaded@else
16628 \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package pdfpages after bidi pac
16629 \fi%
16630 \if@bidi@lettrineloaded@else
16631 \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package lettrine after bidi pac
16632 \fi%

```



```

16633 \if@bidi@linenoloaded@else
16634   \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package lineno after bidi packa
16635 \fi%
16636 \if@bidi@listingsloaded@else
16637   \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package listings after bidi pac
16638 \fi%
16639 \csname if@bidi@media9loaded@endcsname\else
16640   \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package media9 after bidi packa
16641 \fi%
16642 \if@bidi@pstricksloaded@else
16643   \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package pstricks after bidi pac
16644 \fi%
16645 \if@bidi@pgfloaded@else
16646   \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package pgf after bidi package.
16647 \fi%
16648 \if@bidi@picinparloaded@else
16649   \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package picinpar after bidi pac
16650 \fi%
16651 \if@bidi@quotchaploaded@else
16652   \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package quotchap after bidi pac
16653 \fi%
16654 \if@bidi@tikzloaded@else
16655   \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package tikz after bidi package
16656 \fi%
16657 \if@bidi@titlesecloaded@else
16658   \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package titlesec after bidi pac
16659 \fi%
16660 \if@bidi@titletocloaded@else
16661   \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package titletoc after bidi pac
16662 \fi%
16663 \if@bidi@arrayloaded@else
16664   \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package array after bidi packag
16665 \fi%
16666 \if@bidi@stabularloaded@else
16667   \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package stabular after bidi pac
16668 \fi%
16669 \if@bidi@soulloaded@else
16670   \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package soul after bidi package
16671 \fi%
16672 \if@bidi@subfigloaded@else
16673   \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package subfig after bidi packa
16674 \fi%
16675 \if@bidi@subfigureloaded@else
16676   \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package subfigure after bidi pa
16677 \fi%
16678 \if@bidi@supertabularloaded@else
16679   \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package supertabular after bidi
16680 \fi%
16681 \if@bidi@xtableloaded@else
16682   \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package xtab after bidi package
16683 \fi%
16684 \if@bidi@longtableloaded@else
16685   \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package longtable after bidi pa
16686 \fi%

```





```

16687 \if@bidi@arydshlnloaded@else
16688 \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package arydshln after bidi pac
16689 \fi%
16690 \if@bidi@multicolloaded@else
16691 \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package multicol after bidi pac
16692 \fi%
16693 \if@bidi@multienumloaded@else
16694 \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package multienum after bidi pa
16695 \fi%
16696 \if@bidi@minitocloaded@else
16697 \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package minitoc after bidi pack
16698 \fi%
16699 \if@bidi@natbibloaded@else
16700 \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package natbib after bidi packa
16701 \fi%
16702 \if@bidi@newfloatloaded@else
16703 \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package newfloat after bidi pac
16704 \fi%
16705 \csname if@bidi@ragged2eloaded@endcsname\else
16706 \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package ragged2e after bidi pac
16707 \fi%
16708 \if@bidi@rotatingloaded@else
16709 \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package rotating after bidi pac
16710 \fi%
16711 \if@bidi@tblsloaded@else
16712 \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package tbls after bidi packag
16713 \fi%
16714 \if@bidi@tabularyloaded@else
16715 \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package tabulary after bidi pac
16716 \fi%
16717 \if@bidi@tocbasicloaded@else
16718 \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package tocbasic after bidi pac
16719 \fi%
16720 \if@bidi@tocstyleloaded@else
16721 \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package tocstyle after bidi pac
16722 \fi%
16723 \if@bidi@tocbibindloaded@else
16724 \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package tocbibind after bidi pa
16725 \fi%
16726 \if@bidi@fontspecloaded@else
16727 \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package fontspec after bidi pac
16728 \fi%
16729 \if@bidi@arabxetexloaded@else
16730 \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package arabxetex after bidi pa
16731 \fi%
16732 \if@bidi@polyglossialloaded@else
16733 \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package polyglossia after bidi
16734 \fi%
16735 \if@bidi@fancyvrbloaded@else
16736 \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package fancyvrb after bidi pac
16737 \fi%
16738 }

```



## 110 File longtable-xetex-bidi.def

```

16739 \ProvidesFile{longtable-xetex-bidi.def}[2022/05/20 v0.6 bidi adaptations for longtable packa
16740 \def\LT@array[#1]#2{%
16741   \refstepcounter{table}\stepcounter{LT@tables}%
16742   \if l#1%
16743     \if@RTLtab\LTleft\fill \LTright\z@\else\LTleft\z@ \LTright\fill\fi
16744   \else\if r#1%
16745     \if@RTLtab\LTleft\z@ \LTright\fill\else\LTleft\fill \LTright\z@\fi
16746   \else\if c#1%
16747     \LTleft\fill \LTright\fill
16748   \fi\fi\fi
16749   \let\LT@mc\multicolumn
16750   \let\LT@@tabarray\@tabarray
16751   \let\LT@@hl\hline
16752   \def\@tabarray{%
16753     \let\hline\LT@@hl
16754     \LT@@tabarray}%
16755   \let\LT@tabularcr\let\@tabularnewline\%
16756   \def\newpage{\noalign{\break}}%
16757   \def\pagebreak{\noalign{\ifnum`}=0\fi\@testopt{\LT@no@pgbk-}4}%
16758   \def\nopagebreak{\noalign{\ifnum`}=0\fi\@testopt{\LT@no@pgbk4}}%
16759   \let\hline\LT@hline \let\kill\LT@kill\let\caption\LT@caption
16760   \@tempdima\ht\strutbox
16761   \let\@endpbox\LT@endpbox
16762   \ifx\extrarowheight\@undefined
16763     \let\@acol\@tabacol
16764     \let\@classz\@tabclassz \let\@classiv\@tabclassiv
16765     \def\@startpbox{\vtop\LT@startpbox}%
16766     \let\@@startpbox\@startpbox
16767     \let\@@endpbox\@endpbox
16768     \let\LT@LL@FM@cr\@tabularcr
16769   \else
16770     \advance\@tempdima\extrarowheight
16771     \col@sep\@tabcolsep
16772     \let\@startpbox\LT@startpbox\let\LT@LL@FM@cr\@arraycr
16773   \fi
16774   \setbox\@arstrutbox\hbox{\vrule
16775     \@height \arraystretch \@tempdima
16776     \@depth \arraystretch \dp \strutbox
16777     \@width \z@}%
16778   \let\@sharp#\let\protect\relax
16779   \begingroup
16780     \mkpream{#2}%
16781     \xdef\LT@bchunk{%
16782       \global\advance\c@LT@chunks\@ne
16783       \global\LT@rows\z@\setbox\z@\vbox\bgroup
16784         \LT@setprevdepth
16785         \tabskip\LTleft \noexpand\halign to\hsize\bgroup
16786         \tabskip\z@ \@arstrut \@preamble \tabskip\LTright \cr}%
16787   \endgroup
16788   \expandafter\LT@nofcols\LT@bchunk&\LT@nofcols
16789   \LT@make@row
16790   \m@th\let\par\@empty

```



```

16791 \everycr{}\lineskip\z@\baselineskip\z@
16792 \LT@bchunk}
16793 \def\LT@makecaption#1#2#3{%
16794 \LT@mcol\LT@cols c{\hbox to\z@{\hss\parbox[t]\LTcapwidth{%
16795 \sbox\@tempboxa{\if@RTL\beginR\fi#1{#2: }#3\if@RTL\endR\fi}%
16796 \ifdim\wd\@tempboxa>\hsize
16797 #1{#2: }#3%
16798 \else
16799 \hbox to\hsize{\hfil\box\@tempboxa\hfil}%
16800 \fi
16801 \endgraf\vskip\baselineskip}%
16802 \hss}}
16803 \ifpackageloaded{caption}{%
16804 \renewcommand\LT@makecaption[3]{%
16805 \caption@LT@make{%
16806 \caption@LT@settype\LTcaptype
16807 \caption@LT@setup
16808 \caption@setautoposition{\ifcase\LT@rows t\else b\fi}%
16809 \caption@startrue#1\caption@starfalse
16810 \caption@prepare@stepcounter\LTcaptype
16811 \caption@begin\LTcaptype
16812 \caption@normalsize
16813 \vskip-\ht\strutbox
16814 \caption@ifdefined\FBifcapttop{%
16815 \let\caption@belowskip\@empty}{}%
16816 \caption@make@above
16817 \caption@make{#2}{#3}\endgraf
16818 \caption@make@below
16819 \caption@end}}%
16820 }{}
16821 \def\LT@startpbox#1{%
16822 \bgroup\color@begingroup
16823 \let\@footnotetext\LT@p@ftntext
16824 \let\@LTRfootnotetext\LT@p@LTRftntext
16825 \let\@RTLfootnotetext\LT@p@RTLftntext
16826 \setlength\hsize{#1}%
16827 \@arrayparboxrestore
16828 \vrule \@height \ht\@arstrutbox \@width \z@}
16829 \def\LT@p@LTRftntext#1{%
16830 \edef\@tempa{\the\LT@p@ftn\noexpand\LTRfootnotetext[\the\c@footnote]}%
16831 \global\LT@p@ftn\expandafter{\@tempa{#1}}}%
16832 \def\LT@p@RTLftntext#1{%
16833 \edef\@tempa{\the\LT@p@ftn\noexpand\RTLfootnotetext[\the\c@footnote]}%
16834 \global\LT@p@ftn\expandafter{\@tempa{#1}}}%
16835
16836
16837 \def\LT@output{%
16838 \ifnum\outputpenalty <-\@Mi
16839 \ifnum\outputpenalty > -\LT@end@pen
16840 \LT@err{floats and marginpars not allowed in a longtable}\@ehc
16841 \else
16842 \setbox\z@\vbox{\unvbox\@cclv}%
16843 \ifdim \ht\LT@lastfoot>\ht\LT@foot
16844 \dimen@\pagegoal

```



```

16845      \advance\dimen@-\ht\LT@lastfoot
16846      \ifdim\dimen@<\ht\z@
16847        \setbox\@cclv\vbox{\unvbox\z@\copy\LT@foot\vss}%
16848        \@makecol
16849        \@outputpage
16850        \setbox\z@\vbox{\box\LT@head}%
16851      \fi
16852    \fi
16853    \global\@colroom\@colht
16854    \global\vsizel\@colht
16855    \vbox
16856      {\if@RTLtab\hbox\bgroup\beginR\vbox\bgroup\fi\unvbox\z@\box\ifvoid\LT@lastfoot\LT@fo
16857    \fi
16858  \else
16859    \setbox\@cclv\vbox{\if@RTLtab\hbox\bgroup\beginR\vbox\bgroup\fi\unvbox\@cclv\copy\LT@fo
16860    \@makecol
16861    \@outputpage
16862    \global\vsizel\@colroom
16863    \copy\LT@head\nobreak
16864  \fi}

```

## 111 File `lscapexetex-bidi.def`

```

16865 \ProvidesFile{lscapexetex-bidi.def}[2022/07/14 v0.2 bidi adaptations for lscape package for
16866 \bidi@patchcmd{\LS@rot}{\rotatebox{90}{\box\@outputbox}}{%
16867   \if@RTL
16868     \rotatebox[origin=br]{-90}{\box\@outputbox}%
16869   \else
16870     \rotatebox{90}{\box\@outputbox}%
16871   \fi
16872 }{}{}
16873
16874 \g@addto@macro{\landscape}{%
16875   \if@bidi@csdef{bidi@columnwidth}{%
16876     \bidi@columnwidth\columnwidth
16877   }{}%
16878   \let\bidi@left@footnoterule\left@footnoterule
16879   \let\bidi@right@footnoterule\right@footnoterule
16880   \def\left@footnoterule{%
16881     \if@RTL
16882       \bidi@right@footnoterule
16883     \else
16884       \bidi@left@footnoterule
16885     \fi
16886   }%
16887   \def\right@footnoterule{%
16888     \if@RTL
16889       \bidi@left@footnoterule
16890     \else
16891       \bidi@right@footnoterule
16892     \fi
16893   }%
16894 }

```



## 112 File mathtools-xetex-bidi.def

```

16895 \ProvidesFile{mathtools-xetex-bidi.def}[2018/01/07 v0.1 bidi adaptations for mathtools packa
16896 \MHInternalSyntaxOn
16897 \def\MT_define_tagform:nwnn #1[#2]#3#4{
16898   \@namedef{MT_tagform_#1:n}##1
16899     {\maketag@@@{\if@nonlatin\beginR\fi#3\kern\z@\ignorespaces#2{##1}\unskip\@italiccorr#4}
16900 }
16901 \renewtagform{default}{\{()\}}
16902 \MHInternalSyntaxOff

```

## 113 File mdframed-xetex-bidi.def

```

16903 \ProvidesFile{mdframed-xetex-bidi.def}[2013/09/22 v0.4 bidi adaptations for mdframed package
16904 \newif\if@bidi@mdf@RTL
16905 \def\mdf@lrbox#1{%
16906   \mdf@patchamsthm\patch amsthm
16907   \if@RTL\@bidi@mdf@RTLtrue\fi%
16908   \@RTLfalse%
16909   \setbox#1\vbox\bgroup%
16910   \color@begingroup%
16911   \if@bidi@mdf@RTL\@RTLtrue\fi%
16912   \mdf@horizontalmargin@equation%
16913   \columnwidth=\hsize%
16914   \textwidth=\hsize%
16915   \let\if@nobreak\iffalse%
16916   \let\if@noskipsec\iffalse%
16917   \let\par\@par%
16918   \let\-\@dischyph%
16919   \let'\@acci\let\` \@accii\let=\@acciii%
16920   \parindent\z@ \parskip\z@skip%
16921   \linewidth\hsize%
16922   \@totalleftmargin\z@%
16923   \leftskip\z@skip \rightskip\z@skip \@rightskip\z@skip%
16924   \parfillskip\@flushglue \lineskip\normallineskip%
16925   \baselineskip\normalbaselineskip%
16926 %% \sloppy%
16927 \let\\\@normalcr%
16928 \mdf@par@local%New feature to restore parskip/parindent local in save box
16929 \ifbool{mdf@suppressfirstparskip}{\vspace*{-\parskip}}{}%
16930 \@afterindentfalse%
16931 %\@afterheading%
16932 }
16933 \renewrobustcmd\mdfframedtitleenv[1]{%
16934   \mdf@lrbox{\mdf@frametitlebox}%
16935   \mdf@frametitlealignment%
16936   \leavevmode{\color{\mdf@frametitlefontcolor}%
16937     \normalfont\mdf@frametitlefont{#1}
16938     \ifbool{mdf@ignorelastdescenders}%
16939       {%
16940         \par\strut\par
16941         \unskip\unskip\setbox0=\lastbox
16942         \vspace*{\dimexpr\ht\strutbox-\baselineskip\relax}%
16943       }{}%

```



```

16944 \par\unskip\ifvmode\nointerlineskip\hrule \@height\z@ \@width\hsize\fi%
16945 \endmdf@lrbox\relax%
16946 \mdf@ignorevbadness%
16947 \setbox\mdf@frametitlebox=\vbox{\unvbox\mdf@frametitlebox}%
16948 \mdfframetitleboxwidth=\wd\mdf@frametitlebox\relax%
16949 \mdfframetitleboxheight=\ht\mdf@frametitlebox\relax%
16950 \mdfframetitleboxdepth=\dp\mdf@frametitlebox\relax%
16951 \mdfframetitleboxtotalheight=\dimexpr
16952 \ht\mdf@frametitlebox
16953 +\dp\mdf@frametitlebox%
16954 +\mdf@frametitleaboveskip@length
16955 +\mdf@frametitlebelowskip@length
16956 \relax%
16957 }
16958
16959 \renewrobustcmd*\mdf@footnoteoutput{%
16960 \ifvoid\@mpfootins\else%
16961 \nobreak%
16962 \vskip\mdf@footnotedistance@length%
16963 \normalcolor%
16964 \bidi@mpfootnoterule%
16965 \unvbox\@mpfootins%
16966 \fi%
16967 }
16968
16969
16970 \renewrobustcmd*\mdf@footnoteinput{%
16971 \def\@mpfn{\mpfootnote}%
16972 \def\thempfn{\thempfootnote}%
16973 \c@mpfootnote\z@%
16974 \let\@footnotetext\@mpfootnotetext%
16975 \let\@LTRfootnotetext\@mpLTRfootnotetext%
16976 \let\@RTLfootnotetext\@mpRTLfootnotetext%
16977 }

```

## 114 File bidi-media9.sty

```

16978 \ProvidesExplPackage{bidi-media9}{2022/02/18}{0.4}
16979 {bidi fixes for media9 package for the XeTeX engine}
16980
16981 \keys_define:nn{media9/mbtn}{
16982 draft .code:n = {},
16983 final .code:n = {},
16984
16985 tooltip .tl_gset_x:N = \g_mix_tooltip_tl,
16986 tooltip .value_required:n = {true},
16987
16988 overface .code:n = {
16989 \sbox\l_mix_poster_box{
16990 \bool_if:NTF\g_pbs_lscape_bool{\rotatebox{90}{#1}}{\if@RTL\beginR\fi#1\if@RTL\endR\fi}
16991 \mix_pdfxform:n{\l_mix_poster_box}
16992 \tl_gset:Nx\g_mix_overbtn_tl{\mix_pdflastxform:}
16993 },
16994 overface .value_required:n = {true},

```



```

16995
16996 downface .code:n = {
16997     \sbox\l_mix_poster_box{
16998         \bool_if:NTF\g_pbs_lscape_bool{\rotatebox{90}{#1}}{\if@RTL\beginR\fi#1\if@RTL\endR\fi}
16999         \mix_pdfxform:n{\l_mix_poster_box}
17000         \tl_gset:Nx\g_mix_downbtn_tl{\mix_pdflastxform:}
17001     },
17002 downface .value_required:n = {true},
17003
17004 3Dgotoview .code:n = {
17005     \tl_set:Nx\l_tmpa_tl{#1} %extract ref
17006     \regex_replace_once:nnN{([~:~+):??.*}{\1}\l_tmpa_tl
17007     \tl_trim_spaces:N\l_tmpa_tl
17008     \tl_if_exist:cTF{ann@\l_tmpa_tl}{
17009         \str_if_eq:eeF{\tl_use:c{ann@\l_tmpa_tl}}{draft}{
17010             \tl_set:Nx\l_tmpb_tl{#1} %extract idx
17011             \regex_replace_once:nnN{([~:~+):??.*}{\1}\l_tmpb_tl
17012             \tl_trim_spaces:N\l_tmpb_tl
17013             \tl_if_blank:VF\l_tmpb_tl{
17014                 \regex_match:nVTF{^[DFLNP]$}\l_tmpb_tl{
17015                     \tl_set:Nx\l_mix_vidx_tl{/\l_tmpb_tl}
17016                 }{
17017                     \regex_match:nVTF{^[~d+~$]\l_tmpb_tl{
17018                         \tl_set:Nx\l_mix_vidx_tl{~\l_tmpb_tl}
17019                     }{
17020                         \regex_replace_once:nnN{^[~\s*~$]\l_tmpb_tl
17021                         \regex_replace_once:nnN{[~\s*~$]\l_tmpb_tl
17022                         \tl_set:Nx\l_mix_vidx_tl{~(\l_tmpb_tl)}
17023                     }
17024                 }
17025             }
17026             \mix_pdfobj:nnn{}{dict}{
17027                 /S/JavaScript/JS~(
17028                     if(typeof(annotRM)=='undefined'){annotRM=new~Array();}
17029                     if(typeof(annotRM['\l_tmpa_tl'])=='undefined'){
17030                         annotRM['\l_tmpa_tl']=
17031                         this.getAnnotRichMedia(\tl_use:c{page@\l_tmpa_tl},'\l_tmpa_tl');
17032                     }
17033                     annotRM['\l_tmpa_tl'].activated=true;
17034                 )
17035                 \tl_if_blank:VF\l_tmpb_tl{
17036                     /Next~<<
17037                     /S/GoTo3DView
17038                     /TA~\tl_use:c{ann@\l_tmpa_tl}
17039                     /V\l_mix_vidx_tl
17040                     >>
17041                 }
17042             }
17043             \tl_gput_right:Nx\g_mix_btnactions_tl{~\mix_pdflastobj:}
17044         }
17045     }{
17046         \msg_warning:nnx{media9}{undefined~reference}{\l_tmpa_tl}
17047         \cs_if_exist:NF\g_mix_refundefwarned_tl{
17048             \tl_new:N\g_mix_refundefwarned_tl

```



```

17049     \AtEndDocument{\msg_warning:nn{media9}{undefined~references}}
17050   }
17051 }
17052 },
17053 3Dgotoview .value_required:n = {true},
17054
17055 mediacommand .code:n = {
17056   \tl_set:Nx\l_tmpa_tl{#1}
17057   \regex_replace_once:nnN{([~:~]+):??.*}{\1}\l_tmpa_tl %extract ref
17058   \tl_trim_spaces:N\l_tmpa_tl
17059   \tl_if_exist:cTF{ann@\l_tmpa_tl}{
17060     \str_if_eq:eeF{\tl_use:c{ann@\l_tmpa_tl}}{draft}{
17061       \tl_set:Nx\l_tmpb_tl{#1}
17062       \regex_replace_once:nnN{[~:~]+\?:?}{\1}\l_tmpb_tl
17063       \tl_trim_spaces:N\l_tmpb_tl
17064       \regex_replace_all:nnN{^{\|\\$}}{\1}\l_tmpb_tl
17065       \tl_set:Nx\l_mix_cmd_tl{
17066         \exp_after:wN\mix_separate_cmd_from_actn:w\l_tmpb_tl[]\q_stop}
17067       \tl_trim_spaces:N\l_mix_cmd_tl
17068       \tl_set:Nx\l_mix_arg_tl{
17069         \exp_after:wN\mix_separate_arg_from_actn:w\l_tmpb_tl[]\q_stop}
17070       \tl_trim_spaces:N\l_mix_arg_tl
17071       \mix_pdfobj:nnn{{dict}}{
17072         /S/JavaScript/JS~(
17073           if(typeof(annotRM)=='undefined'){annotRM=new~Array();}
17074           if(typeof(annotRM['\l_tmpa_tl'])=='undefined'){
17075             annotRM['\l_tmpa_tl']=
17076               this.getAnnotRichMedia(\tl_use:c{page@\l_tmpa_tl},'\l_tmpa_tl');
17077           }
17078           annotRM['\l_tmpa_tl'].activated=true;
17079         )
17080       \tl_if_blank:VF\l_mix_cmd_tl{
17081         /Next~<<
17082         /S/RichMediaExecute
17083         /TA~\tl_use:c{ann@\l_tmpa_tl}
17084         /TI~\tl_use:c{main@\l_tmpa_tl}
17085         /CMD~<<
17086         /C~(\l_mix_cmd_tl)
17087         \tl_if_blank:VF\l_mix_arg_tl{
17088           /A~[\l_mix_arg_tl]
17089         }
17090       >>
17091     >>
17092   }
17093 }
17094 \tl_gput_right:Nx\g_mix_btnactions_tl{~\mix_pdflastobj:}
17095 }
17096 }{
17097   \msg_warning:nnx{media9}{undefined~reference}{\l_tmpa_tl}
17098   \cs_if_exist:NF\g_mix_refundefwarned_tl{
17099     \tl_new:N\g_mix_refundefwarned_tl
17100     \AtEndDocument{\msg_warning:nn{media9}{undefined~references}}
17101   }
17102 }

```





```

17103 },
17104 mediacommand .value_required:n = {true},
17105
17106 jsaction .code:n = {
17107   \tl_set:Nx\l_tmpa_tl{#1}
17108   \regex_match:nVTF{^[^\{:\}]+.*$}\l_tmpa_tl{
17109     \regex_replace_once:nnN{([^\:]+):??.*}{\1}\l_tmpa_tl %extract ref
17110     \tl_trim_spaces:N\l_tmpa_tl
17111   }\tl_clear:N\l_tmpa_tl}
17112   \tl_set:Nx\l_tmpb_tl{#1}
17113   \tl_if_blank:VF\l_tmpa_tl{
17114     \tl_if_exist:cF{ann@\l_tmpa_tl}{
17115       \msg_warning:nnx{media9}{undefined-reference}{\l_tmpa_tl}
17116       \cs_if_exist:NF\g_mix_refundefwarned_tl{
17117         \tl_new:N\g_mix_refundefwarned_tl
17118         \AtEndDocument{\msg_warning:nn{media9}{undefined-references}}
17119       }
17120     }
17121     \regex_replace_once:nnN{[^\:]+\:}{\}\l_tmpb_tl
17122   }
17123   \tl_set:Nx\l_tmpb_tl{\exp_after:wN\use:n\l_tmpb_tl}
17124   \tl_trim_spaces:N\l_tmpb_tl
17125   \tl_if_blank:VF\l_tmpb_tl{
17126     \mix_pdfobj:nnn{}{dict}{
17127       /S/JavaScript/JS~(
17128         try{\l_tmpb_tl}catch(e){console.show();console.println(e)})}}
17129   \bool_lazy_and:nnT{
17130     \tl_if_exist_p:c{ann@\l_tmpa_tl}
17131   }{
17132     !\str_if_eq_p:ee{\tl_use:c{ann@\l_tmpa_tl}}{draft}
17133   }{
17134     \mix_pdfobj:nnn{}{dict}{
17135       /S/JavaScript/JS~(
17136         if(typeof(annotRM)=='undefined'){annotRM=new~Array();}
17137         if(typeof(annotRM['\l_tmpa_tl'])=='undefined'){
17138           annotRM['\l_tmpa_tl']=
17139             this.getAnnotRichMedia(\tl_use:c{page@\l_tmpa_tl},'\l_tmpa_tl');
17140         }
17141         annotRM['\l_tmpa_tl'].activated=true;
17142       )
17143       \tl_if_blank:VF\l_tmpb_tl{/Next~\mix_pdflastobj:}
17144     }
17145   }
17146   \bool_if:nT{
17147     \bool_lazy_and_p:nn{
17148       \tl_if_exist_p:c{ann@\l_tmpa_tl}
17149     }{
17150       !\str_if_eq_p:ee{\tl_use:c{ann@\l_tmpa_tl}}{draft}
17151     }
17152     || !\tl_if_blank_p:V\l_tmpb_tl
17153   }{
17154     \tl_gput_right:Nx\g_mix_btnactions_tl{~\mix_pdflastobj:}
17155   }
17156 },

```



```

17157 jsaction .value_required:n = {true},
17158
17159 unknown .code:n = {
17160     \msg_error:nnx{media9}{unknown~option}{\l_keys_key_tl}
17161 }
17162 }
17163
17164 \RenewDocumentCommand\includemedia{0}{mm}{%#1 options, #2 text/image #3 media file
17165     \mix_uriend:
17166     \group_begin:
17167     \mix_beginLTR:
17168     \mode_leave_vertical:
17169     %empty stream as appearance dummy
17170     \cs_if_exist:NF\g_mix_appearance_tl{
17171         \hbox_set:Nn\l_mix_poster_box{\phantom{\rule{1pt}{1pt}}}
17172         \mix_pdfxform:n{\l_mix_poster_box}
17173         \tl_gset:Nx\g_mix_appearance_tl{\mix_pdflastxform:}
17174     }
17175     \mix_reset:
17176     \mix_uribegin: %treat URI characters correctly
17177     \keys_set:nn{media9/user}{#1}
17178     \mix_uriend:
17179     \tl_greplace_all:Nnn\g_mix_flashvars_tl{~&}{&}
17180     \tl_greplace_all:Nnn\g_mix_flashvars_tl{&~}{&}
17181     \tl_greplace_all:Nnn\g_mix_flashvars_tl{~=}{=}
17182     \tl_greplace_all:Nnn\g_mix_flashvars_tl{=~}{=}
17183     \tl_gtrim_spaces:N\g_mix_flashvars_tl
17184
17185     \cs_if_exist:NT\Ginput@path{\cs_set_eq:NN\input@path\Ginput@path}
17186
17187     %\hbox_set:Nn\l_mix_poster_box{\group_begin:#2\group_end:}
17188     %\hbox_set:Nn\l_mix_poster_box{#2}
17189     \sbox\l_mix_poster_box{\if@RTL\beginR\fi#2\if@RTL\endR\fi}
17190     \mix_scale:n{\l_mix_poster_box}
17191     \bool_if:nTF{
17192         \dim_compare_p:n{\g_mix_tt_tl=\c_zero_dim}||
17193         \dim_compare_p:n{\g_mix_wd_tl=\c_zero_dim}
17194     }{
17195         \tl_gset:Nn\g_mix_usrpbtn_tl{none}
17196     }
17197     \bool_if:NTF\g_mix_usrdraft_bool{
17198         \tl_if_empty:NF\g_mix_usrlabel_tl{
17199             \mix_keytoaux_now:nn{ann@\g_mix_usrlabel_tl}{draft}
17200         }
17201         \tl_if_blank:oTF{#2}{
17202             \mix_uribegin: %treat URI characters correctly
17203             \mix_draftbox:n{\tl_to_str:n{#3}}
17204             \mix_uriend:
17205         }{
17206             \hbox_to_wd:nn{\g_mix_wd_tl}{
17207                 \vrule~width~\c_zero_dim~height~\g_mix_ht_tl~depth~\g_mix_dp_tl
17208                 \box_use:N\l_mix_poster_box\hss
17209             }
17210         }

```



```

17211 }{
17212   \bool_if:nF{\str_if_eq_p:Vn\g_mix_usrpbtn_tl{none}}{
17213     %attach script that switches off play button overlay upon activation
17214     \mix_pdfobj:nnn{}{stream}{
17215       {}{
17216         var~ocgs=host.getOCGs(host.pageNum);
17217         for(var~i=0;i<ocgs.length;i++){
17218           if(ocgs[i].name=='MediaPlayerButton\int_use:N\g_mix_rmcnt_int'){
17219             ocgs[i].state=false;
17220           }
17221         }
17222       }
17223     }
17224     \mix_pdfobj:nnn{}{dict}{
17225       /Type/Filespec/EF~<</F~\mix_pdflastobj:>>/F~(btnoff)%/UF~(btnoff)
17226     }
17227     \tl_gset:Nx\g_mix_assets_tl{(btnoff)~\mix_pdflastobj:}
17228     \tl_set:Nx\l_mix_scripts_tl{~\mix_pdflastobj:~}
17229     %enforce plain playbutton overlay for XeTeX
17230     \sys_if_engine_xetex:T{\tl_gset:Nn\g_mix_usrpbtn_tl{plain}}
17231   }
17232   %embed main asset
17233   \mix_uribegin:
17234   \mix_embedasset:n{#3}
17235   \bool_if:nTF{
17236     \str_if_eq_p:Vn\l_mix_ext_tl{prc}||\str_if_eq_p:Vn\l_mix_ext_tl{u3d}
17237   }{
17238     \bool_gset_true:N\g_mix_iiid_bool
17239     \tl_gset:Nn\g_mix_mainassetsub_tl{3D}
17240   }{
17241     \str_case_e:nnF{\l_mix_base_tl}{
17242       {APlayer}{\tl_gset:Nn\g_mix_mainassetsub_tl{Sound}}
17243       {AudioPlayer}{\tl_gset:Nn\g_mix_mainassetsub_tl{Sound}}
17244       {VPlayer}{\tl_gset:Nn\g_mix_mainassetsub_tl{Video}}
17245       {VideoPlayer}{\tl_gset:Nn\g_mix_mainassetsub_tl{Video}}
17246       {StrobeMediaPlayback}{\tl_gset:Nn\g_mix_mainassetsub_tl{Video}}
17247     }{\tl_gset:Nn\g_mix_mainassetsub_tl{Flash}}
17248   }
17249   \tl_gset:Nx\g_mix_mainasset_tl{~\g_mix_lastasset_tl}
17250   \mix_uriend:
17251   %secondary assets (added by addresource)
17252   \seq_map_function:NN\g_mix_res_seq\mix_embedasset:n
17253   \seq_map_inline:Nn\g_mix_script_seq{
17254     \mix_embedasset:n{##1}
17255     \tl_put_right:Nx\l_mix_scripts_tl{~\g_mix_lastasset_tl}
17256   }
17257   %attach 3D calculation script
17258   \bool_if:nT{\g_mix_iiid_bool && \g_mix_iiidcalc_bool}{
17259     \mix_embedasset:n{3Dmenu.js}
17260     \tl_put_left:Nx\l_mix_scripts_tl{\g_mix_lastasset_tl~}
17261   }
17262   %create 3D views from file (option 3Dviews)
17263   \bool_if:nT{\g_mix_iiid_bool && !(\tl_if_blank_p:V\g_mix_vfile_tl)}{
17264     \tl_set:Nn\l_mix_level_tl{-1}

```



```

17265 \int_zero:N\l_mix_viewcnt_int
17266 \int_zero:N\l_mix_lineno_int
17267
17268 \ior_open:Nn\l_mix_vfile_stream{\g_mix_vfile_tl}
17269 \ior_map_inline:Nn\l_mix_vfile_stream{
17270 \int_incr:N\l_mix_lineno_int
17271 \keys_set:nn{media9/views}{##1} %process input line
17272 }
17273 \ior_close:N\l_mix_vfile_stream
17274 }
17275 \bool_if:nT{ %create default 3D view if required
17276 \g_mix_iiid_bool &&
17277 (\g_mix_opt_iiidview_bool || \tl_if_blank_p:V\l_mix_iiidviewarray_tl)
17278 }{
17279 \tl_set_eq:NN\l_mix_bg_tl\g_mix_opt_bg_tl
17280 \tl_set_eq:NN\l_mix_ls_tl\g_mix_opt_ls_tl
17281 \tl_set_eq:NN\l_mix_rm_tl\g_mix_opt_rm_tl
17282 \tl_set_eq:NN\l_mix_psob_tl\g_mix_opt_psob_tl
17283 \tl_set_eq:NN\l_mix_coo_tl\g_mix_opt_coo_tl
17284 \tl_set_eq:NN\l_mix_ctoc_tl\g_mix_opt_ctoc_tl
17285 \tl_set_eq:NN\l_mix_ciiw_tl\g_mix_opt_ciiw_tl
17286
17287 \fp_set_eq:NN\l_mix_roo_fp\g_mix_opt_roo_fp
17288 \fp_set_eq:NN\l_mix_aac_fp\g_mix_opt_aac_fp
17289 \fp_set_eq:NN\l_mix_oscale_fp\g_mix_opt_oscale_fp
17290 \fp_set_eq:NN\l_mix_roll_fp\g_mix_opt_roll_fp
17291
17292 \bool_set_eq:NN\l_mix_ciiw_bool\g_mix_opt_ciiw_bool
17293 \bool_set_eq:NN\l_mix_iiidortho_bool\g_mix_opt_iiidortho_bool
17294 \tl_clear:N\l_mix_naarray_tl
17295
17296 \bool_if:NF\l_mix_ciiw_bool{
17297 \tl_set:Nx\l_mix_args_tl{\l_mix_coo_tl\space\l_mix_ctoc_tl\space}
17298 \exp_after:wN\mix_calc_ciiw:w\l_mix_args_tl\q_stop
17299 }
17300
17301 \tl_clear:N\l_mix_naarray_tl
17302 \tl_clear:N\l_mix_saarray_tl
17303 \tl_set_eq:NN\l_mix_nr_tl\g_mix_nrdflt_tl
17304
17305 \mix_view:n{Default}
17306 \tl_set:Nx\l_mix_dfltview_tl{\mix_pdflastobj:}
17307
17308 }
17309 \mix_pdfobj:nnn{}{dict}{
17310 /Type/RichMediaInstance
17311 /Subtype/\g_mix_mainassetsub_tl
17312 /Asset~\g_mix_mainasset_tl
17313 \bool_if:NF\g_mix_iiid_bool{
17314 /Params~<<
17315 /Binding\str_if_eq:VnTF\g_mix_transp_tl{true}{
17316 /Foreground
17317 }{
17318 /Background

```



```

17319     }
17320     \tl_if_blank:VF\g_mix_flashvars_tl{
17321       /FlashVars~(\g_mix_flashvars_tl)
17322     }
17323     >>
17324   }
17325 }
17326 \tl_if_empty:NF\g_mix_usrlabel_tl{
17327   \mix_keytoaux_now:nn{main@\g_mix_usrlabel_tl}{\mix_pdflastobj:}
17328 }
17329 \mix_pdfobj:nnn{}{dict}{
17330   /Type/RichMediaConfiguration
17331   /Subtype/\g_mix_mainassetsub_tl
17332   /Instances~[\mix_pdflastobj:]
17333 }
17334 \mix_pdfobj:nnn{}{dict}{
17335   /Type/RichMediaContent
17336   /Assets~<</Names~[\g_mix_assets_tl]>>
17337   /Configurations~[\mix_pdflastobj:]
17338   \bool_if:nT{
17339     \g_mix_iiid_bool && !(\tl_if_empty_p:V\l_mix_iiidviewarray_tl)
17340   }{
17341     /Views~[\l_mix_iiidviewarray_tl]
17342   }
17343 }
17344 \tl_set:Nx\l_mix_content_tl{\mix_pdflastobj:}
17345 \bool_if:nT{
17346   \g_mix_iiid_bool && \str_if_eq_p:Vn\g_mix_playtpe_tl{Oscillating}
17347 }{
17348   \tl_gset:Nx\g_mix_playcnt_tl{\int_eval:n{\g_mix_playcnt_tl*2}}
17349 }
17350 %determine floating window size
17351 \bool_if:NT\g_mix_opt_windowed_bool{
17352   \exp_after:wN\mix_parse_winsizearg:w\g_mix_winsize_tl\q_stop
17353 }
17354 \mix_pdfobj:nnn{}{dict}{
17355   /Activation~<<
17356   /Condition\g_mix_act_tl
17357   \bool_if:nT{
17358     \g_mix_iiid_bool &&
17359     !(\str_if_eq_p:Vn\g_mix_playtpe_tl{None})
17360   }{%seems to work only with 3D content
17361     /Animation~<<
17362     /Subtype/\g_mix_playtpe_tl
17363     /PlayCount~\g_mix_playcnt_tl
17364     /Speed~\g_mix_playspd_tl
17365     >>
17366   }
17367   \bool_if:nT{
17368     \g_mix_iiid_bool && (
17369       \g_mix_opt_iiidview_bool || \tl_if_blank_p:V\l_mix_iiidviewarray_tl
17370     )
17371   }{/View~\l_mix_dfltview_tl}
17372   /Presentation~<<

```



```

17373 /Transparent~\g_mix_transp_tl
17374 \bool_if:NTF\g_mix_opt_windowed_bool{
17375 /Style/Windowed
17376 /Window~<<
17377 /Width~<</Default~\tl_mix_fltd>>
17378 /Height~<</Default~\tl_mix_flht>>
17379 /Position~<<
17380 /HOffset~0/VOffset~0
17381 \str_case_e:nnF{\g_mix_winpos_tl}{
17382 {tl}{/VAlign/Near/HAlign/Near}
17383 {cl}{/VAlign/Center/HAlign/Near}
17384 {bl}{/VAlign/Far/HAlign/Near}
17385 {bc}{/VAlign/Far/HAlign/Center}
17386 {br}{/VAlign/Far/HAlign/Far}
17387 {cr}{/VAlign/Center/HAlign/Far}
17388 {tr}{/VAlign/Near/HAlign/Far}
17389 {tc}{/VAlign/Near/HAlign/Center}
17390 }{/HAlign/Center/VAlign/Center}
17391 >>
17392 >>
17393 }{
17394 /Style/Embedded
17395 }
17396 \bool_if:NTF\g_mix_iiid_bool{
17397 /Toolbar~\g_mix_tools_tl
17398 /NavigationPane~\g_mix_nav_tl
17399 }{
17400 /PassContextClick~\g_mix_contextclick_tl
17401 }
17402 >>
17403 \tl_if_blank:VF\l_mix_scripts_tl{/Scripts~[\l_mix_scripts_tl]}
17404 >>
17405 /Deactivation~<</Condition\g_mix_deact_tl>>
17406 }
17407 \tl_set:Nx\l_mix_settings_tl{\mix_pdflastobj:}
17408 \tl_if_empty:NF\g_mix_usrlabel_tl{
17409 \tl_gset_eq:NN\g_mix_label_tl\g_mix_usrlabel_tl
17410 }
17411 % #1:width, #2:height, #3:depth, #4:content (key-value)
17412 \mix_pdfannot:nnnn{\g_mix_wd_tl}{\g_mix_ht_tl}{\g_mix_dp_tl}{
17413 /Subtype/RichMedia
17414 /F~4
17415 /BS~<</W~0/S/S>>
17416 /Contents~(media~embedded~by~media9~[\g_mix_version_tl~(\g_mix_date_tl)])
17417 /NM~(\g_mix_label_tl)
17418 /AP~<</N~\g_mix_appearance_tl>>
17419 /RichMediaSettings~\l_mix_settings_tl
17420 /RichMediaContent~\l_mix_content_tl
17421 }
17422 \tl_if_empty:NF\g_mix_usrlabel_tl{
17423 \mix_keytoaux_now:nn{ann@\g_mix_usrlabel_tl}{\mix_pdflastann:}
17424 \mix_keytoaux_shipout:nn{page@\g_mix_usrlabel_tl}{
17425 \noexpand\the\g@mix@page@int}
17426 }

```



```

17427 \mix_pdfobj:nnn{}{dict}{
17428   /S/JavaScript/JS~(
17429     try{
17430       if(typeof(annotRM)=='undefined'){annotRM=new~Array();}
17431       if(typeof(annotRM['\g_mix_label_tl'])=='undefined'){
17432         annotRM['\g_mix_label_tl']=
17433           this.getAnnotRichMedia(this.pageNum,'\g_mix_label_tl');
17434       }
17435       \str_if_eq:eeF{\g_mix_usrpbtn_tl}{none}{
17436         if(typeof(ocgBtn\int_use:N\g_mix_rmcnt_int)=='undefined'){
17437           var~ocgs=this.getOCGs(this.pageNum);
17438           for(var~i=0;i<ocgs.length;i++){
17439             if(ocgs[i].name=='MediaPlayerButton\int_use:N\g_mix_rmcnt_int'){
17440               var~ocgBtn\int_use:N\g_mix_rmcnt_int=ocgs[i];
17441             }
17442           }
17443         }
17444         if(
17445           !annotRM['\g_mix_label_tl'].activated&&(
17446             app.viewerType=='Reader' ||
17447             app.viewerType=='Exchange' ||
17448             app.viewerType=='Exchange-Pro'
17449           )&&app.viewerVersion>=9
17450         ){
17451           ocgBtn\int_use:N\g_mix_rmcnt_int.state=true;
17452         }
17453       }
17454     }catch(e){}
17455     this.dirty=false;
17456   )
17457 }
17458 \mix_pdfannot:nnnn{Opt}{Opt}{Opt}{
17459   /Subtype/Widget
17460   /FT/Btn/Ff~65537/F~2
17461   /BS~<</W~0>>
17462   /T~(fd@\g_mix_label_tl)
17463   /AA~<</PO~\mix_pdflastobj:~/PV~\mix_pdflastobj:>>
17464 }
17465 \mix_appendtofields:n{\mix_pdflastann:}
17466 \hbox_overlap_right:n{\box_use:N\l_mix_poster_box}
17467 \str_if_eq:eeTF{\g_mix_usrpbtn_tl}{none}{
17468   \hbox_to_wd:nn{\g_mix_wd_tl}{
17469     \vrule~width~\c_zero_dim~height~\g_mix_ht_tl~depth~\g_mix_dp_tl\hss
17470   }
17471 }{%insert play button overlay
17472   \mix_insert_btnocg: %create OCG
17473   \cs_gset_eq:Nc\mix_pbtn:NN{g@mix@pbtn@\g_mix_usrpbtn_tl @tl}
17474   \group_begin:
17475   \cs_if_exist:NT\textdir{\textdir TLT}
17476   \sbox\l_mix_pbtn_box{\mix_pbtn:NN\g_mix_wd_tl\g_mix_tt_tl}
17477   \box_move_down:nn{\g_mix_dp_tl}{
17478     \hbox_to_wd:nn{\g_mix_wd_tl}{
17479       \vbox_to_ht:nn{\g_mix_tt_tl}{
17480         \vss

```



```

17481         \ocgbase_oc_bdc:n{\g_mix_btnocg_tl}
17482         \box_use:N\l_mix_pbtn_box
17483         \ocgbase_oc_emc:
17484     }
17485 }
17486 }
17487 \group_end:
17488 }
17489 \int_gincr:N\g_mix_rmcnt_int
17490 }
17491 \mix_endLTR:
17492 \group_end:
17493 }
17494 \tl_set_eq:NN\l_mix_includemedia_tl\includemedia
17495 \tl_set:Nn\includemedia{\mix_uribegin:\l_mix_includemedia_tl}
17496
17497 \RenewDocumentCommand\mediabutton{0{}m}{%#1 options, #2 normal button text
17498 \mix_uridend:
17499 \group_begin:
17500 \mix_beginLTR:
17501 \mode_leave_vertical:
17502 %reset various variables
17503 \tl_gclear:N\g_mix_overbtn_tl
17504 \tl_gclear:N\g_mix_downbtn_tl
17505 \tl_gclear:N\g_mix_btnactions_tl
17506 \tl_gclear:N\g_mix_tooltip_tl
17507 %process options
17508 \bool_gset_eq:NN\g_mix_btndraft_bool\g_mix_pkgdraft_bool
17509 \mix_uribegin: %treat URI characters correctly
17510 \keys_set:nn{media9/mbtndraft}{#1} %detect draft/final on first pass
17511 \bool_if:NF\g_mix_btndraft_bool{\keys_set:nn{media9/mbtn}{#1}}
17512 \mix_uridend:
17513 %normal button appearance
17514 %\hbox_set:Nn\l_mix_poster_box{#2}
17515 \sbox\l_mix_poster_box{\if@RTL\beginR\fi#2\if@RTL\endR\fi}
17516 \tl_set:Nx\width {\dim_use:N\box_wd:N\l_mix_poster_box}
17517 \tl_set:Nx\height{\dim_use:N\box_ht:N\l_mix_poster_box}
17518 \tl_set:Nx\depth {\dim_use:N\box_dp:N\l_mix_poster_box}
17519 \bool_if:NTF\g_mix_btndraft_bool{\box_use:N\l_mix_poster_box}{
17520 \sbox\l_mix_poster_box{\bool_if:NTF\g_pbs_landscape_bool{\rotatebox{90}{
17521 \box_use:N\l_mix_poster_box}}{\box_use:N\l_mix_poster_box}}
17522 \mix_pdfxform:n{\l_mix_poster_box}
17523 \tl_set:Nx\g_mix_normalbtn_tl{\mix_pdflastxform:}
17524 %insert widget annotation
17525 \mix_pdfannot:nnnn{\width}{\height}{\depth}{
17526 /Subtype/Widget
17527 /T~(mbtn@\int_use:N\g_mix_mbtncnt_int)
17528 \tl_if_empty:NF\g_mix_tooltip_tl{TU~(\g_mix_tooltip_tl)}
17529 /FT/Btn/Ff~65536
17530 \tl_if_empty:NTF\g_mix_downbtn_tl{H/I}{H/P}
17531 /AP~<<
17532 /N~\g_mix_normalbtn_tl
17533 \tl_if_empty:NF\g_mix_overbtn_tl{R~\g_mix_overbtn_tl}
17534 \tl_if_empty:NF\g_mix_downbtn_tl{D~\g_mix_downbtn_tl}

```





```

17535 >>
17536 /MK~<<
17537 /TP~1~/IF~<</S/A/FB~true/A~[0.0~0.0]>>
17538 /I~\g_mix_normalbtn_tl
17539 \tl_if_empty:NF\g_mix_overbtn_tl{/RI~\g_mix_overbtn_tl}
17540 \tl_if_empty:NF\g_mix_downbtn_tl{/IX~\g_mix_downbtn_tl}
17541 >>
17542 /A~<<
17543 /S/JavaScript/JS~(app.focusRect=false;)
17544 %sequence of actions to perform
17545 \tl_if_empty:NF\g_mix_btnactions_tl{/Next~[\g_mix_btnactions_tl]}
17546 >>
17547 }
17548 \mix_appendtofields:n{\mix_pdflastann:}
17549 \hbox_to_wd:nn{\width}{
17550 \vrule~width~\c_zero_dim~height~\height~depth~\depth\hss
17551 }
17552 \int_gincr:N\g_mix_mbtncnt_int
17553 }
17554 \mix_endLTR:
17555 \group_end:
17556 }
17557 \tl_set_eq:NN\l_mix_mediabutton_tl\mediabutton
17558 \tl_set:Nn\mediabutton{\mix_uribegin:\l_mix_mediabutton_tl}
17559

```

## 115 File memoir-xetex-bidi.def

```

17560 \ProvidesFile{memoir-xetex-bidi.def}[2017/06/09 v0.6 bidi adaptations for memoir class for X
17561 \renewcommand{\keepthetitle}{%
17562 \@bsmtitleempty
17563 \global\let\thanks\relax
17564 \global\let\LTRthanks\relax
17565 \global\let\RTLthanks\relax
17566 \global\let\and\relax
17567 \global\let\andnext\relax
17568 \global\let\@thanks\@empty
17569 \global\let\@title\@empty
17570 \global\let\@author\@empty
17571 \global\let\@date\@empty}
17572 \renewcommand{\maketitle}{\par
17573 \beginingroup
17574 \@bsmarkseries
17575 \def\@makefnmark{\@textsuperscript{%
17576 \normalfont\@bsthanksheadpre \tamark \@bsthanksheadpost}}}%
17577 \long\def\@makefntext##1{\makethanksmark ##1}
17578 \if@twocolumn
17579 \ifnum \col@number=\@one
17580 \maketitle
17581 \else
17582 \twocolumn[\maketitle]%
17583 \fi
17584 \else
17585 \ifdim\pagetotal>\z@

```



```

17586         \newpage
17587     \fi
17588     \global\@topnum\z@
17589     \@maketitle
17590 \fi
17591 \thispagestyle{title}\@thanks
17592 \endgroup
17593 \bscontmark % \setcounter{footnote}{0}%
17594 }
17595 \renewcommand*{\memRTLleftskip}{\if@RTL\rightskip\else\leftskip\fi}
17596 \renewcommand*{\memRTLrightskip}{\if@RTL\leftskip\else\rightskip\fi}
17597 \renewcommand*{\memRTLvleftskip}{\if@RTL\vrightskip\else\vleftskip\fi}
17598 \renewcommand*{\memRTLvrightskip}{\if@RTL\vleftskip\else\vrightskip\fi}
17599 \renewcommand*{\memRTLraggedright}{\if@RTL\raggedleft\else\raggedright\fi}
17600 \renewcommand*{\memRTLraggedleft}{\if@RTL\raggedright\else\raggedleft\fi}
17601 \renewcommand*{\thesection}{\thechapter\@SepMark\@arabic\c@section}
17602 \renewcommand*{\thesubsection}{%
17603     \thesection\@SepMark\@arabic\c@subsection}
17604 \renewcommand*{\thesubsubsection}{%
17605     \thesubsection\@SepMark\@arabic\c@subsubsection}
17606 \renewcommand*{\theparagraph}{%
17607     \thesubsubsection\@SepMark\@arabic\c@paragraph}
17608 \renewcommand*{\thesubparagraph}{%
17609     \theparagraph\@SepMark\@arabic\c@subparagraph}
17610 \renewcommand{\setthesection}{\thechapter\@SepMark\Alph{section}}
17611 \renewcommand{\theequation}{%
17612     \ifnum \c@chapter>\z@ \thechapter\@SepMark\fi \@arabic\c@equation}
17613 \renewcommand{\thefigure}{\thechapter\@SepMark\@arabic\c@figure}
17614 \renewcommand{\thetable}{\thechapter\@SepMark\@arabic\c@table}
17615 \ifartopt
17616 \chapterstyle{article}
17617 \counterwithout{figure}{chapter}
17618 \counterwithout{table}{chapter}
17619 \counterwithout{footnote}{chapter}
17620 \counterwithout{equation}{chapter}
17621 \renewcommand{\chaptername}{\}
17622 \renewcommand{\maketitlehookb}{%
17623     \vskip -1.5\topsep\vskip -1.5\partopsep}
17624 \renewcommand{\maketitlehookc}{%
17625     \vskip -1.5\topsep\vskip -1.5\partopsep}
17626 \fi
17627 \long\def\@makecaption#1#2{\let\@memtempa\relax
17628 \ifdim\prevdepth>-99\p@ \vskip\abovecaptionskip
17629 \else \def\@memtempa{\vbox to\topskip{}}\fi
17630 \let\@contfnote\footnote \renewcommand{\footnote}[2]{}{}
17631 \let\@contfmark\footnotemark \renewcommand{\footnotemark}[1]{}{}
17632 \sbox\@tempboxa{\@contfnote #1\@contdelim \@conttfont #2\@contfinal}
17633 \let\footnote\@contfnote
17634 \let\footnotemark\@contfmark
17635 \ifdim\wd\@tempboxa<\linewidth \centering \fi
17636 \if@contcw
17637 \centering
17638 \parbox{\@contcwidth}{%
17639 \ifdim\wd\@tempboxa<\@contcwidth \centering \fi

```



```

17640 \fi
17641 \ifdim\wd\@tempboxa<\linewidth
17642   \@contpre
17643   {\@contnfont #1\@contdelim}\@memtempa
17644   {\@contcshortstyle \@conttfont #2\@contfinal\par}
17645 \else
17646   \if@conthang
17647     \sbox\@tempboxa{\@contnfont #1\@contdelim}
17648     \@contpre%
17649     {\@contcstyle\hangindent=\wd\@tempboxa
17650      \noindent\box\@tempboxa\@memtempa \@conttfont #2\@contfinal\par}
17651   \else
17652     \if@contindent
17653       \@contpre%
17654       {\@contnfont #1\@contdelim}\@memtempa
17655       {\@contcstyle\hangindent=\@contindw
17656        \hangafter=\@one\@conttfont #2\@contfinal\par}% <- v1.4
17657   \else
17658     \@contpre%
17659     {\@contnfont #1\@contdelim}\@memtempa
17660     {\@contcstyle \@conttfont #2\@contfinal\par}
17661   \fi
17662 \fi
17663 \fi
17664 \@contpost
17665 \if@contcw
17666   \par
17667 } % end of the \parbox
17668 \fi
17669 \vskip\belowcaptionskip}
17670 \@ifpackageloaded{caption}{%
17671 \AtBeginPackage{caption}{
17672 \ClassWarningNoLine{memoir}{%
17673 You are using the caption package with the memoir \MessageBreak
17674 class. This may cause unexpected or inconsistent \MessageBreak
17675 results if you use any of memoir's captioning facilities}
17676 }
17677 \long\def\@makecaption##1##2{%
17678   \vskip\abovecaptionskip
17679   \sbox\@tempboxa{\if@RTL\beginR\fi##1: ##2\if@RTL\endR\fi}%
17680   \ifdim \wd\@tempboxa >\hsize
17681     \if@RTL\beginR\fi##1: ##2\if@RTL\endR\fi\par
17682   \else
17683     \global \@minipagefalse
17684     \hb@xt@\hsize{\hfil\box\@tempboxa\hfil}%
17685   \fi
17686   \vskip\belowcaptionskip}
17687
17688 \def\caption{%
17689   \ifx\@capytype\@undefined
17690     \@latex@error{\noexpand\caption outside float}\@ehd
17691     \expandafter\@gobble
17692   \else
17693     \refstepcounter\@capytype

```



```

17694 \expandafter\@firstofone
17695 \fi
17696 {\@dblarg{\@caption\@capttype}}%
17697 }
17698
17699 \long\def\@caption##1[##2]##3{%
17700 \par
17701 \addcontentsline{\csname ext@##1\endcsname}{##1}%
17702 {\protect\numberline{\csname the##1\endcsname}{\ignorespaces ##2}}%
17703 \begingroup
17704 \@parboxrestore
17705 \if@minipage
17706 \setminipage
17707 \fi
17708 \normalsize
17709 \makecaption{\csname fnum@##1\endcsname}{\ignorespaces ##3}\par
17710 \endgroup}
17711 }}{}
17712 \renewenvironment{thebibliography}[1]{%
17713 \bibsection
17714 \ifRTL\if@LTRbibitems\@RTLfalse\else\fi\else\if@RTLbibitems\@RTLtrue\else\fi\fi
17715 \bidi@thebibliography@font@hook%
17716 \begin{bibitemlist}{#1}}{\end{bibitemlist}\postbibhook}

```

## 116 File midfloat-xetex-bidi.def

```

17717 \ProvidesFile{midfloat-xetex-bidi.def}[2017/05/06 v0.4 bidi adaptations for midfloat package]
17718 \def\RTL@outputdblcol{%
17719 \if@firstcolumn
17720 \global \@firstcolumnfalse
17721 \global\setbox\@leftcolumn\copy\@outputbox
17722 \splitmaxdepth\maxdimen
17723 \vbadness\maxdimen
17724 \setbox\@outputbox\vbox{\unvbox\@outputbox\unskip}%
17725 \setbox\@outputbox\vsplit\@outputbox to\maxdimen
17726 \toks@\expandafter{\topmark}%
17727 \xdef\@firstcoltopmark{\the\toks@}%
17728 \toks@\expandafter{\splitfirstmark}%
17729 \xdef\@firstcolfirstmark{\the\toks@}%
17730 \ifx\@firstcolfirstmark\@empty
17731 \global\let\@setmarks\relax
17732 \else
17733 \gdef\@setmarks{%
17734 \let\firstmark\@firstcolfirstmark
17735 \let\topmark\@firstcoltopmark}%
17736 \fi
17737 \global\c@colht\@colht\global\c@advvipersep\z@
17738 \ifnum\jua@sk>0
17739 \remove@strip\jua@sar
17740 \global\@colht\the\jua@pr
17741 \ifdim\right@cor>\z@
17742 \global\advance\@colht by\right@cor
17743 \fi
17744 \global\advance\@colht by\cor@height

```



```

17745     \global\cor@height=0pt
17746   \fi
17747   \global \setbox\@rightcolumn \vbox{}%
17748 \else
17749   \ifdim\c@colht>\@colht
17750     \@tempdima\@colht
17751     \ifdim\@colht>\z@
17752       \global\setbox\@rightcolumn \vbox{%
17753         \unvbox\@rightcolumn
17754         \vbox to\@tempdima{%
17755           \vskip\c@addvipersep\unvbox\@outputbox}%
17756         \vskip\stripsep
17757         \vrule height\the\juo@ht width 0pt depth 0pt
17758         \vskip\stripsep
17759       }%
17760     \global\c@addvipersep\m@addvipersep
17761   \else
17762     \global\setbox\@rightcolumn \vbox{%
17763       \unvbox\@rightcolumn
17764       \vrule height\the\juo@ht width 0pt depth 0pt
17765       \vskip\stripsep
17766     }%
17767   \fi
17768   \ifnum\juo@sk>0
17769     \remove@strip\juo@sar
17770     \global\@colht\the\juo@pr
17771     \global\advance\@colht by -\ht\@rightcolumn
17772     \global\advance\@colht by \cor@height
17773     \global\cor@height=0pt
17774   \else
17775     \global\advance\c@colht by-\ht\@rightcolumn
17776     \global\@colht\c@colht
17777   \fi
17778 \else
17779 \global\@firstcolumntrue
17780 \global\setbox\@outputbox\vbox to\ht\@leftcolumn{%
17781   \unvbox\@rightcolumn
17782   \vskip\c@addvipersep
17783   \unvbox\@outputbox
17784 }%
17785 \setbox\@outputbox \vbox {%
17786   \hb@xt@\textwidth {%
17787     \hskip \columnwidth
17788     \hfil
17789     \vrule \@width\columnseprule
17790     \hfil
17791     \hb@xt@\columnwidth {%
17792       \bidi@firstcolumn@status@write%
17793       \box\@leftcolumn \hss}%
17794     \hskip-\textwidth
17795     \hb@xt@\columnwidth {%
17796       \bidi@lastcolumn@status@write%
17797       \box\@outputbox \hss}%
17798     \hskip\columnwidth

```



```

17799          \hskip\columnsep}%
17800          }%
17801      \@combinedblfloats
17802      \@setmarks
17803      \@outputpage
17804      \begingroup
17805          \@dblfloatplacement
17806          \@startdblcolumn
17807          \@whiles\if@fcolmade \fi
17808          {\@outputpage
17809           \@startdblcolumn}%
17810      \endgroup
17811      \global\jua@sk=0\global\jua@sar={}%
17812      \global\cor@height\z@\global\c@advipersep\z@
17813      \fi
17814  \fi
17815 }
17816
17817
17818 \def\LTR@outputdblcol{%
17819   \if@firstcolumn
17820     \global \@firstcolumnfalse
17821     \global\setbox\@leftcolumn\copy\@outputbox
17822     \splitmaxdepth\maxdimen
17823     \vbadness\maxdimen
17824     \setbox\@outputbox\vbox{\unvbox\@outputbox\unskip}%
17825     \setbox\@outputbox\vsplit\@outputbox to\maxdimen
17826     \toks@\expandafter{\topmark}%
17827     \xdef\@firstcoltopmark{\the\toks@}%
17828     \toks@\expandafter{\splitfirstmark}%
17829     \xdef\@firstcolfirstmark{\the\toks@}%
17830     \ifx\@firstcolfirstmark\@empty
17831       \global\let\@setmarks\relax
17832     \else
17833       \gdef\@setmarks{%
17834         \let\firstmark\@firstcolfirstmark
17835         \let\topmark\@firstcoltopmark}%
17836     \fi
17837     \global\c@colht\@colht\global\c@advipersep\z@
17838     \ifnum\jua@sk>0
17839       \remove@strip\jua@sar
17840       \global\@colht\the\jua@pr
17841       \ifdim\right@cor>\z@
17842         \global\advance\@colht by\right@cor
17843       \fi
17844       \global\advance\@colht by\cor@height
17845       \global\cor@height=0pt
17846     \fi
17847     \global \setbox\@rightcolumn \vbox{%
17848   \else
17849     \ifdim\c@colht>\@colht
17850       \@tempdima\@colht
17851       \ifdim\@colht>\z@
17852         \global\setbox\@rightcolumn \vbox{%

```



```

17853             \unvbox\@rightcolumn
17854             \vbox to\@tempdima{%
17855                 \vskip\c@addvipersep\unvbox\@outputbox}%
17856             \vskip\stripsep
17857             \vrule height\the\jua@ht width 0pt depth 0pt
17858             \vskip\stripsep
17859             }%
17860         \global\c@addvipersep\m@addvipersep
17861     \else
17862     \global\setbox\@rightcolumn \vbox{%
17863         \unvbox\@rightcolumn
17864         \vrule height\the\jua@ht width 0pt depth 0pt
17865         \vskip\stripsep
17866         }%
17867     \fi
17868     \ifnum\jua@sk>0
17869         \remove@strip\jua@sar
17870         \global\@colht\the\jua@pr
17871         \global\advance\@colht by -\ht\@rightcolumn
17872         \global\advance\@colht by\cor@height
17873         \global\cor@height=0pt
17874     \else
17875         \global\advance\c@colht by-\ht\@rightcolumn
17876         \global\@colht\c@colht
17877     \fi
17878 \else
17879     \global\@firstcolumntrue
17880     \global\setbox\@outputbox\vbox to\ht\@leftcolumn{%
17881         \unvbox\@rightcolumn
17882         \vskip\c@addvipersep
17883         \unvbox\@outputbox
17884         }%
17885     \setbox\@outputbox \vbox {%
17886         \hb@xt@\textwidth {%
17887             \hb@xt@\columnwidth {%
17888                 \bidi@firstcolumn@status@write%
17889                 \box\@leftcolumn \hss}%
17890             \hfil
17891             \vrule \@width\columnseprule
17892             \hfil
17893             \hb@xt@\columnwidth {%
17894                 \bidi@lastcolumn@status@write%
17895                 \box\@outputbox \hss}%
17896             }%
17897         }%
17898     \@combinedblfloats
17899     \@setmarks
17900     \@outputpage
17901     \begingroup
17902     \@dblfloatplacement
17903     \@startdblcolumn
17904     \@whilesw\if@fcolmade \fi
17905     {\@outputpage
17906     \@startdblcolumn}%

```



```

17907 \endgroup
17908 \global\jua@sk=0\global\jua@sar={}%
17909 \global\cor@height\z@\global\c@advvipersep\z@
17910 \fi
17911 \fi
17912 }
17913
17914
17915 \def\@strip[#1/#2]{\global\@tempdima=#1\global\@tempdimb=#2%
17916 \global \setbox\@viper\vbox\bgroup\if@RTLmain\moveleft\dimexpr(\columnwidth+\columnsep)\fi
17917 \hsize\textwidth
17918 \@parboxrestore
17919 \col@number \@ne
17920 \vrule height\topskip width0pt depth0pt
17921 }
17922
17923 \def\endstrip{%
17924 \egroup\egroup
17925 \if@firstcolumn
17926 \ifdim\pagetotal>\z@
17927 \vskip\stripsep
17928 \global\ht@strip\pagegoal
17929 \global\advance\ht@strip by-\pagetotal
17930 \global\advance\ht@strip by-\stripsep
17931 \global\advance\ht@strip by-\ht\@viper
17932 \global\advance\ht@strip by-\stripsep
17933 \global\jua@ht=\ht\@viper
17934 \else
17935 \global\ht@strip\z@
17936 \fi
17937 \ifdim\ht@strip>\z@
17938 \unvbox\@viper
17939 \vskip\stripsep
17940 \add@strip{\the\pagetotal}{\the\jua@ht}{\the\@tempdima}{\the\@tempdimb}%
17941 \global\advance\jua@sk by1
17942 \else
17943 \@latex@error{Strip needs more place!}\@ehc
17944 \if@vihproof
17945 \framebox[\columnwidth]{??? Strip ???}%
17946 \fi
17947 \fi
17948 \else
17949 \@latex@error{Strip is used only on left column!}\@ehc
17950 \if@vihproof
17951 \framebox[\columnwidth]{??? Strip ???}%
17952 \fi
17953 \fi
17954 }

```

## 117 File minitoc-xetex-bidi.def

```

17955 \ProvidesFile{minitoc-xetex-bidi.def}[2010/07/25 v0.1 bidi adaptations for minitoc package f
17956 \def\@undottedtocline#1#2#3#4#5{%
17957 \ifnum #1>\c@tocdepth\relax \else

```





```

17958 \vskip \z@ plus.2\p@
17959 {\if@RTL\righskip\else\leftskip\fi #2\relax \if@RTL\leftskip\else\righskip\fi \@tocrmarg
17960 \parindent #2\relax\@afterindenttrue
17961 \interlinepenalty\@M
17962 \leavevmode
17963 \@tempdima #3\relax \advance\if@RTL\righskip\else\leftskip\fi \@tempdima \hbox{}%
17964 \hskip -\if@RTL\righskip\else\leftskip\fi
17965 #4\nobreak\hfill \nobreak
17966 \null\par}%
17967 \fi}
17968 \def\@Undottedtocline#1#2#3#4#5{%
17969 \ifnum #1>\c@tocdepth\relax \else
17970 \vskip \z@ \@plus.2\p@
17971 {\if@RTL\righskip\else\leftskip\fi #2\relax \if@RTL\leftskip\else\righskip\fi \@tocma
17972 \parindent #2\relax\@afterindenttrue
17973 \interlinepenalty\@M
17974 \leavevmode
17975 \@tempdima #3\relax
17976 \advance\if@RTL\righskip\else\leftskip\fi \@tempdima \null\nobreak\hskip -\if@RTL\righ
17977 {\coffefont #4}\nobreak \nobreak\null
17978 \par}%
17979 \fi}
17980 \def\@Undottedtoclinep#1#2#3#4#5{%
17981 \ifnum #1>\c@tocdepth\relax \else
17982 \vskip \z@ \@plus.2\p@
17983 {\if@RTL\righskip\else\leftskip\fi #2\relax \if@RTL\leftskip\else\righskip\fi \@tocma
17984 \parindent #2\relax\@afterindenttrue
17985 \interlinepenalty\@M
17986 \leavevmode
17987 \@tempdima #3\relax
17988 \advance\if@RTL\righskip\else\leftskip\fi \@tempdima \null\nobreak\hskip -\if@RTL\righ
17989 {\#4}\nobreak \hfill \nobreak\null
17990 \hb@xt@\@pnumwidth{\hfil\normalfont \normalcolor #5}}%
17991 \par}%
17992 \fi}

```

## 118 File multicol-xetex-bidi.def

```

17993 \ProvidesFile{multicol-xetex-bidi.def}[2022/07/10 v1.4 bidi adaptations for multicol package]
17994 \def\page@sofar{%
17995 \process@cols\mult@rightbox
17996 {\ifvoid\count@
17997 \setbox\count@\hbox to\hsize{}%
17998 \else
17999 \wd\count@\hsize
18000 \fi}%
18001 \count@\col@number \advance\count@\m@ne
18002 \mult@info\z@
18003 {Column spec: \the\full@width\space = indent
18004 + columns + sep =\MessageBreak
18005 \the\multicol@leftmargin\space
18006 + \the\col@number\space
18007 x \the\hsize\space
18008 + \the\count@\space

```



```

18009         x \the\columnsep
18010     }%
18011 \ifvmode\else\errmessage{Multicol Error}\fi
18012     \nointerlineskip
18013     \setbox\z@\hbox{p}\global\dimen\tw@\dp\z@
18014     \moveright\multicol@leftmargin
18015     \hbox to\full@width{%
18016         \bidi@multicol@align@columns
18017         \rlap{\phantom p}%
18018     }%
18019 \prevdepth\z@
18020 \kern-\dimen\tw@
18021 \ifdim\dimen\tw@ > \mc@gridwarn
18022     \PackageWarning{multicol}%
18023     {Very deep columns!\MessageBreak
18024     Grid alignment might be broken}%
18025 \fi
18026 }
18027 \def\LTR@column@boxes{%
18028     \process@cols\mult@firstbox{%
18029         \ifdim\dp\count@>\dimen\tw@
18030             \global\dimen\tw@\dp\count@ \fi
18031         \mc@col@status@write
18032         \box\count@
18033         \hss{\columnseprulecolor\vrule
18034             \@width\columnseprule}\hss}%
18035     \ifdim\dp\mult@rightbox>\dimen\tw@
18036         \global\dimen\tw@\dp\mult@rightbox \fi
18037     \mc@lastcol@status@write
18038     \box\mult@rightbox
18039 }
18040
18041 \def\RTL@column@boxes{%
18042     \process@cols\mult@firstbox{%
18043         \hskip\hsize
18044         \hss{\columnseprulecolor\vrule
18045             \@width\columnseprule}\hss
18046     }%
18047     \hskip\hsize
18048     \process@cols\mult@firstbox{%
18049         \ifdim\dp\count@>\dimen\tw@
18050             \global\dimen\tw@\dp\count@ \fi
18051         \hskip-\hsize
18052         \mc@col@status@write
18053         \box\count@
18054         \hskip-\hsize
18055         \hskip-\columnsep
18056     }%
18057     \ifdim\dp\mult@rightbox>\dimen\tw@
18058         \global\dimen\tw@\dp\mult@rightbox \fi
18059     \hskip-\hsize
18060     \mc@lastcol@status@write
18061     \box\mult@rightbox
18062     \hskip-\hsize

```



```

18063     \hskip\full@width
18064 }
18065
18066 \newcommand\RTLmulticolcolumns
18067     {\let\bidimulticol@align@columns
18068       \RTL@column@boxes}
18069 \newcommand\LTRmulticolcolumns
18070     {\let\bidimulticol@align@columns
18071       \LTR@column@boxes}
18072 \newcommand\bidimulticol@align@columns
18073     {\ifRTLmain\RTL@column@boxes\else\LTR@column@boxes\fi}
18074 \bidimulticol@AtEndPreamble{%
18075   \if@bidi@csdef{footinsv@l}{%
18076     \def\footnoterule{\kern-3\p@
18077       \hrule \@width \textwidth \kern 2.6\p@}%
18078   }{}%
18079 }
18080 \def\multicols#1{\col@number#1\relax
18081   \ifnum\col@number<\tw@
18082     \PackageWarning{multicol}%
18083       {Using `\'number\col@number'
18084        columns doesn't seem a good idea.^^J
18085        I therefore use two columns instead}%
18086     \col@number\tw@ \fi
18087   \ifnum\col@number>20
18088     \PackageError{multicol}%
18089       {Too many columns}%
18090     {Current implementation doesn't
18091      support more than 20 columns.%
18092      \MessageBreak
18093      I therefore use 20 columns instead}%
18094     \col@number20 \fi
18095     \ifx\@footnotetext\mult@footnotetext
18096     \else
18097       \let\orig@footnotetext\@footnotetext
18098       \let\@footnotetext\mult@footnotetext
18099     \fi
18100     \ifx\@LTRfootnotetext\mult@LTRfootnotetext
18101     \else
18102       \let\orig@LTRfootnotetext\@LTRfootnotetext
18103       \let\@LTRfootnotetext\mult@LTRfootnotetext
18104     \fi
18105     \ifx\@RTLfootnotetext\mult@RTLfootnotetext
18106     \else
18107       \let\orig@RTLfootnotetext\@RTLfootnotetext
18108       \let\@RTLfootnotetext\mult@RTLfootnotetext
18109     \fi
18110     \@ifnextchar[\mult@cols{\mult@cols[]}]{}
18111   \long\def\mult@footnotetext#1{\begingroup
18112     \hsize\textwidth
18113     \columnwidth\textwidth
18114     \orig@footnotetext{#1}\endgroup}
18115   \long\def\mult@LTRfootnotetext#1{\begingroup
18116     \hsize\textwidth

```



```

18117         \columnwidth\textwidth
18118         \orig@LTRfootnotetext{#1}\endgroup}
18119 \long\def\mult@RTLfootnotetext#1{\begingroup
18120         \hsize\textwidth
18121         \columnwidth\textwidth
18122         \orig@RTLfootnotetext{#1}\endgroup}
18123 \def\right@footnoterule{%
18124     \kern-3\p@
18125     \hbox to \textwidth{\hskip \dimexpr\textwidth-.4\columnwidth\relax \hrulefill }
18126     \kern2.6\p@}
18127 \def\textwidth@footnoterule{\kern-3\p@
18128     \hrule \@width \textwidth \kern 2.6\p@}
18129 \def\bidileave@mult@copyins{%
18130     \advance\dimen@-\skip\@bidi@copyins@
18131     \advance\dimen@-\ht\@bidi@copyins@
18132 }
18133
18134 \bidi@AtEndPreamble{%
18135     \if@bidi@csundef{footinsv@1}{%
18136         \bidi@patchcmd{\multi@column@out}{%
18137             \ifvbox \@kludgeins
18138         }{%
18139             \ifvoid\@bidi@copyins@ \else
18140                 \bidileave@mult@copyins
18141             \fi
18142             \ifvbox \@kludgeins
18143         }{}{}%
18144     }{}%
18145 }
18146
18147

```

## 119 File multienum-xetex-bidi.def

```

18148 \ProvidesFile{multienum-xetex-bidi.def}[2011/04/16 v0.1 bidi adaptations for multienum packa
18149 \renewcommand{\itemx}[1]{\parbox[t]%
18150 {\labelwidth}{\hfill{\labelname}}\hskip\labelsep%
18151 \parbox[t]{\remainx}{\bidi@raggedright #1}\par}%\smallskip
18152 \renewcommand{\itemxx}[2]{\parbox[t]%
18153 {\labelwidth}{\hfill{\labelname}}\hskip\labelsep
18154 \parbox[t]{.5\remainxx}{\bidi@raggedright #1}\hfill\parbox[t]%
18155 {\labelwidth}{\hfill{\labelname}}\hskip\labelsep
18156 \parbox[t]{0.5\remainxx}{\bidi@raggedright #2}\smallskip}
18157 \renewcommand{\itemxxx}[3]{\parbox[t]%
18158 {\labelwidth}{\hfill{\labelname}}\hskip\labelsep%
18159 \parbox[t]{.3333\remainxxx}{\bidi@raggedright #1}\hfill\parbox[t]%
18160 {\labelwidth}{\hfill {\labelname}}\hskip\labelsep%
18161 \parbox[t]{0.3333\remainxxx}{\bidi@raggedright #2}\hfill\parbox[t]%
18162 {\labelwidth}{\hfill{\labelname}}\hskip\labelsep%
18163 \parbox[t]{0.3333\remainxxx}{\bidi@raggedright #3}\par}%\smallskip
18164 \renewcommand{\itemxxxx}[4]{\parbox[t]%
18165 {\labelwidth}{\hfill{\labelname}}\hskip\labelsep
18166 \parbox[t]{.25\remainxxxx}{\bidi@raggedright #1}\hfill\parbox[t]%
18167 {\labelwidth}{\hfill{\labelname}}\hskip\labelsep

```



```

18168 \parbox[t]{0.25\remainxxxx}{\bidi@raggedright #2}\hfill%
18169 \parbox[t]{\labelwidth}{\hfill{\labelname}}\hskip\labelsep
18170 \parbox[t]{0.25\remainxxxx}{\bidi@raggedright #3}\hfill%
18171 \parbox[t]{\labelwidth}{\hfill{\labelname}}\hskip\labelsep
18172 \parbox[t]{0.25\remainxxxx}{\bidi@raggedright #4}\smallskip
18173 \renewcommand{\itemxxxx}[5]{\parbox[t]{%
18174 {\labelwidth}{\hfill{\labelname}}\hskip\labelsep
18175 \parbox[t]{0.2\remainxxxx}{\bidi@raggedright #1}\hfill%
18176 \parbox[t]{\labelwidth}{\hfill{\labelname}}\hskip\labelsep
18177 \parbox[t]{0.2\remainxxxx}{\bidi@raggedright #2}\hfill%
18178 \parbox[t]{\labelwidth}{\hfill{\labelname}}\hskip\labelsep
18179 \parbox[t]{0.2\remainxxxx}{\bidi@raggedright #3}\hfill%
18180 \parbox[t]{\labelwidth}{\hfill{\labelname}}\hskip\labelsep
18181 \parbox[t]{0.2\remainxxxx}{\bidi@raggedright #4}\hfill%
18182 \parbox[t]{\labelwidth}{\hfill{\labelname}}\hskip\labelsep
18183 \parbox[t]{0.2\remainxxxx}{\bidi@raggedright #5}\smallskip}
18184 \renewcommand{\itemxox}[2]{\parbox[t]{%
18185 {\labelwidth}{\hfill{\labelname}}\hskip\labelsep
18186 \parbox[t]{\remainxox}{\bidi@raggedright #1}\hfill%
18187 \parbox[t]{\labelwidth}{\hfill{\labelname}}\hskip\labelsep
18188 \parbox[t]{0.3333\remainxxx}{\bidi@raggedright #2}\smallskip}
18189 \renewcommand{\itemxox}[2]{\parbox[t]{%
18190 {\labelwidth}{\hfill{\labelname}}\hskip\labelsep
18191 \parbox[t]{0.3333\remainxxx}{\bidi@raggedright #1}\hfill%
18192 \parbox[t]{\labelwidth}{\hfill{\labelname}}\hskip\labelsep
18193 \parbox[t]{\remainxox}{\bidi@raggedright #2}\smallskip}
18194 \renewcommand{\itemxox}[3]{\parbox[t]{%
18195 {\labelwidth}{\hfill{\labelname}}\hskip\labelsep
18196 \parbox[t]{\remainxox}{\bidi@raggedright #1}\hfill%
18197 \parbox[t]{\labelwidth}{\hfill{\labelname}}\hskip\labelsep
18198 \parbox[t]{0.25\remainxxxx}{\bidi@raggedright #2}\hfill%
18199 \parbox[t]{\labelwidth}{\hfill{\labelname}}\hskip\labelsep
18200 \parbox[t]{0.25\remainxxxx}{\bidi@raggedright #3}\smallskip}
18201 \renewcommand{\itemxox}[3]{\parbox[t]{%
18202 {\labelwidth}{\hfill{\labelname}}\hskip\labelsep
18203 \parbox[t]{.25\remainxxxx}{\bidi@raggedright #1}\hfill%
18204 \parbox[t]{\labelwidth}{\hfill{\labelname}}\hskip\labelsep
18205 \parbox[t]{\remainxox}{\bidi@raggedright #2}\hfill%
18206 \parbox[t]{\labelwidth}{\hfill{\labelname}}\hskip\labelsep
18207 \parbox[t]{0.25\remainxxxx}{\bidi@raggedright #3}\smallskip}
18208 \renewcommand{\itemxox}[3]{\parbox[t]{%
18209 {\labelwidth}{\hfill{\labelname}}\hskip\labelsep
18210 \parbox[t]{.25\remainxxxx}{\bidi@raggedright #1}\hfill%
18211 \parbox[t]{\labelwidth}{\hfill{\labelname}}\hskip\labelsep
18212 \parbox[t]{.25\remainxxxx}{\bidi@raggedright #2}\hfill%
18213 \parbox[t]{\labelwidth}{\hfill{\labelname}}\hskip\labelsep
18214 \parbox[t]{\remainxox}{\bidi@raggedright #3}\smallskip}

```

## 120 File natbib-xetex-bidi.def

```

18215 \ProvidesFile{natbib-xetex-bidi.def}[2017/06/09 v0.2 bidi adaptations for natbib package for
18216 \renewenvironment{thebibliography}[1]{%
18217 \bibsection
18218 \parindent\z@

```



```

18219 \bibpreamble
18220 \bibfont
18221 \if@RTL\if@LTRbibitems\@RTLfalse\else\fi\else\if@RTLbibitems\@RTLtrue\else\fi\fi
18222 \bidi@thebibliography@font@hook%
18223 \list{\@biblabel{\the\c@NAT@ctr}}{\@bibsetup{#1}\global\c@NAT@ctr\z@}%
18224 \ifNAT@openbib
18225 \renewcommand\newblock{\par}%
18226 \else
18227 \renewcommand\newblock{\hskip .11em \@plus.33em \@minus.07em}%
18228 \fi
18229 \sloppy\clubpenalty4000\widowpenalty4000
18230 \sfcode\.\@m
18231 \let\NAT@bibitem@first@sw@firstoftwo
18232 \let\citeN\cite \let\shortcite\cite
18233 \let\citeasnoun\cite
18234 }{%
18235 \bibitem@fin
18236 \bibpostamble
18237 \def\@noitemerr{%
18238 \PackageWarning{natbib}{Empty `thebibliography' environment}%
18239 }%
18240 \endlist
18241 \bibcleanup
18242 }%

```

## 121 File newfloat-xetex-bidi.def

```

18243 \ProvidesFile{newfloat-xetex-bidi.def}[2013/05/22 v0.1 bidi adaptations for newfloat package]
18244 \renewcommand*\newfloat@setwithin[2]{%
18245 \ifcsname c@chapter\endcsname
18246 \@removefromreset{#1}{chapter}%
18247 \fi
18248 \@removefromreset{#1}{section}%
18249 \edef\@tempa{#2}%
18250 \ifx\@tempa\@empty
18251 \def\@tempa{none}%
18252 \fi
18253 \def\@tempb{none}%
18254 \ifx\@tempa\@tempb
18255 \ifcsname c@chapter\endcsname
18256 \@chapterlistsgap@off{#1}%
18257 \fi
18258 \newfloat@setwithin{#1}{\}%
18259 \else
18260 \def\@tempb{chapter}%
18261 \ifx\@tempa\@tempb
18262 \@addtoreset{#1}{chapter}%
18263 \@chapterlistsgap@on{#1}%
18264 \newfloat@setwithin{#1}{\ifnum\c@chapter>\z@ \thechapter\@SepMark\fi}{\theHchapter\@S
18265 \else
18266 \def\@tempb{section}%
18267 \ifx\@tempa\@tempb
18268 \@addtoreset{#1}{section}%
18269 \ifcsname c@chapter\endcsname

```



```

18270         \@addtoreset{#1}{chapter}%
18271         \@chapterlistsgap@on{#1}%
18272         \newfloat@@setwithin{#1}{\thesection\@SepMark}{\theHsection\@SepMark}%
18273         \else
18274         \newfloat@@setwithin{#1}{\ifnum\c@section>\z@ \thesection\@SepMark\fi}{\theHsection\@SepMark}%
18275         \fi
18276     \else
18277         \newfloat@Error{Invalid value `#2' for option `within'}%
18278     \fi
18279 \fi
18280 \fi}

```

## 122 File nicematrix-xetex-bidi.def

```

18281 \ProvidesFile{nicematrix-xetex-bidi.def}[2022/07/18 v0.2 bidi adaptations for nicematrix package]
18282 \ExplSyntaxOn
18283 \bidi@patchcmd{\__nicematrix_array:n}{\@tabarray}{\%
18284   \bool_if:NF \l__nicematrix_NiceTabular_bool \@RTLtabfalse
18285   \@tabarray
18286 }{}{}
18287 \ExplSyntaxOff
18288

```

## 123 File ntheorem-xetex-bidi.def

```

18289 \ProvidesFile{ntheorem-xetex-bidi.def}[2012/05/01 v0.1 bidi adaptations for ntheorem package]
18290 \gdef\@thm#1#2#3{%
18291   \if@thmmarks
18292     \stepcounter{end\InTheoType ctr}%
18293   \fi
18294   \renewcommand{\InTheoType}{#1}%
18295   \if@thmmarks
18296     \stepcounter{curr#1ctr}%
18297     \setcounter{end#1ctr}{0}%
18298   \fi
18299   \refstepcounter{#2}%
18300   \theorem@prework
18301   \thm@topsepadd \theorem@postskipamount % cf. latex.ltx: \@trivlist
18302   \ifvmode \advance\thm@topsepadd\partopsep\fi
18303   \trivlist
18304   \@topsep \theorem@preskipamount
18305   \@topsepadd \thm@topsepadd % used by \@endparenv
18306   \advance\linewidth -\theorem@indent
18307   \advance\@totalleftmargin \theorem@indent
18308   \if@RTL\parshape \@ne 0pt \linewidth\else \parshape \@ne \@totalleftmargin \linewidth\fi
18309   \ifnextchar[{\@ythm{#1}{#2}{#3}}{\@xthm{#1}{#2}{#3}}

```

## 124 File ntheorem-hyper-xetex-bidi.def

```

18310 \ProvidesFile{ntheorem-hyper-xetex-bidi.def}[2012/05/01 v0.1 bidi adaptations for ntheorem package]
18311 \gdef\@thm#1#2#3{%
18312   \if@thmmarks
18313     \stepcounter{end\InTheoType ctr}%
18314   \fi

```



```

18315 \renewcommand{\InTheoType}{#1}%
18316 \if@thmmarks
18317 \stepcounter{curr#1ctr}%
18318 \setcounter{end#1ctr}{0}%
18319 \fi
18320 \refstepcounter{#2}%
18321 \thm@topsepadd \theorempostskipamount % cf. latex.ltx: \@trivlist
18322 \ifvmode \advance\thm@topsepadd\partopsep\fi
18323 \trivlist
18324 \@topsep \theorempreskipamount
18325 \@topsepadd \thm@topsepadd % used by \@endparenv
18326 \advance\linewidth -\theoremindent
18327 \advance\@totalleftmargin \theoremindent
18328 \if@RTL\parshape \@ne 0pt \linewidth\else \parshape \@ne \@totalleftmargin \linewidth\fi
18329 \ifnextchar [{\@ythm{#1}{#2}{#3}}{\@xthm{#1}{#2}{#3}}

```

## 125 File overpic-xetex-bidi.def

```

18330 \ProvidesFile{overpic-xetex-bidi.def}[2015/12/07 v0.1 bidi adaptations for overpic package f
18331 \renewenvironment{overpic}[2][{}]{%
18332 \sbox{z@}{\includegraphics[#1]{#2}}%
18333 \settodepth{\@tempcnta}{\usebox{z@}}%
18334 \settoheight{\@tempcntb}{\usebox{z@}}%
18335 \advance\@tempcntb\@tempcnta%
18336 \settowidth{\@tempcnta}{\usebox{z@}}%
18337 \setlength{\@tempdima}{\unitlength}%
18338 \count@=\z@\Gin@gridfalse\setkeys{Gin}{#1}%
18339 %
18340 \OVP@calc%
18341 %
18342 \begin{picture}(\@tempcnta,\@tempcntb)%
18343 \if@RTL\else\put(0,0){\makebox(0,0)[bl]{\usebox{z@}}}%
18344 \ifGin@grid%
18345 \put(0,0){\normalfont\fontsize\@viipt\@viipt\selectfont%
18346 \grid(\@tempcnta,\@tempcntb)(\count@,\count@)[0,0]}%
18347 \fi\fi%
18348 % reset the graphics parameter
18349 \let\Gin@outer@scalex\relax
18350 \let\Gin@outer@scaley\relax
18351 \let\Gin@angle\relax
18352 \let\Gin@ewidth\Gin@exclamation
18353 \let\Gin@eheight\Gin@ewidth
18354 \def\Gin@scalex{1}
18355 \let\Gin@scaley\Gin@exclamation
18356 }{%
18357 \if@RTL\ifGin@grid%
18358 \put(0,0){\normalfont\fontsize\@viipt\@viipt\selectfont%
18359 \grid(\@tempcnta,\@tempcntb)(\count@,\count@)[0,0]}%
18360 \fi%
18361 \put(0,0){\makebox(0,0)[bl]{\usebox{z@}}}\fi%
18362 \end{picture}%
18363 }%

```





## 126 File pdfbase-xetex-bidi.def

```
18364 \ProvidesFile{pdfbase-xetex-bidi.def}[2022/02/18 v0.4 bidi adaptations for pdfbase package f
18365 \ExplSyntaxOn
18366 \cs_set_eq:NN\pbs_outputpage_orig:\@outputpage
18367 \cs_set_nopar:Npn\@outputpage{
18368   \int_gincr:N\g_pbs_page_int
18369   \box_if_vertical:cTF{@outputbox}{
18370     \bool_set_true:N\l_pbs_is_vertical_bool
18371   }{
18372     \bool_set_false:N\l_pbs_is_vertical_bool
18373   }
18374   \hbox_set:Nn\@outputbox{
18375     %begin of page
18376     \hbox_overlap_right:n{\seq_map_inline:Nn\g_pbs_bop_seq{##1}}
18377     \box_use_drop:N\@outputbox
18378     %end of page
18379     \hbox_overlap_right:n{\seq_map_inline:Nn\g_pbs_eop_seq{##1}}
18380   }
18381   \bool_if:NT\l_pbs_is_vertical_bool{
18382     \vbox_set:Nn\@outputbox{\box_use_drop:N\@outputbox}
18383   }
18384   \pbs_outputpage_orig:
18385 }
18386 \ExplSyntaxOff
```

## 127 File pdfscape-xetex-bidi.def

```
18387 \ProvidesFile{pdfscape-xetex-bidi.def}[2022/02/18 v0.1 bidi adaptations for pdfscape packa
18388 \bidi@patchcmd{\landscape}{\PLS@Rotate{90}}{%
18389   \if@RTL
18390     \PLS@Rotate{-90}%
18391   \else
18392     \PLS@Rotate{90}%
18393   \fi
18394 }{}{}
```

## 128 File pdfpages-xetex-bidi.def

```
18395 \ProvidesFile{pdfpages-xetex-bidi.def}[2010/07/25 v0.1 bidi adaptations for pdfpages package
18396 \renewcommand*{\includepdf}[2] [] {%
18397   \begingroup
18398   \@RTLfalse
18399   \let\AM@threadname\relax
18400   \AM@split@options{pdfpages}{#1}%
18401   \edef\AM@temp{{pdfpages}{\the\@temptokena}}%
18402   \expandafter\setkeys\AM@temp
18403   \ifthenelse{\boolean{AM@pkg@draft} \and \boolean{AM@survey}}{%
18404     \let\AM@currentdocname\relax
18405     \renewcommand\includegraphics[2] [] {Survey in draft-mode}%
18406     \def\AM@pagecount{0}%
18407   }{%
18408     \AM@findfile{#2}%
18409     \if\AM@threadname\relax
```



```

18410     \def\AM@threadname{\AM@currentdocname}%
18411     \fi
18412 }%
18413 \ifAM@survey
18414     \def\AM@pagestemp{}%
18415     \@tempcnta=0
18416     \def\foo{%
18417         \@ifundefined{r@\AM@xrprefix pdfpages@page\the\@tempcnta}%
18418         {\let\foo\relax}
18419         {\expandafter\ifx\expandafter\\\AM@pagestemp\
18420             \edef\AM@pagestemp{%
18421                 \AM@pageref{\AM@xrprefix pdfpages@page\the\@tempcnta}}%
18422             \else
18423                 \edef\AM@pagestemp{\AM@pagestemp,%
18424                     \AM@pageref{\AM@xrprefix pdfpages@page\the\@tempcnta}}%
18425             \fi
18426         \advance\@tempcnta 1\relax
18427     }%
18428     \foo
18429 }%
18430 \foo
18431 \expandafter\ifx\expandafter\\\AM@pagestemp\
18432     \def\AM@pagestemp{1}%
18433 \fi
18434 \fi
18435 \ifAM@output
18436     \expandafter\AM@readlist\expandafter{\AM@pagestemp}%
18437     \AM@output{#1}%
18438 \fi
18439 \AM@CheckAtEnd
18440 \endgroup
18441 \AM@ClearShipoutPicture
18442 }

```

## 129 File pgfcorescopes.code-xetex-bidi.def

```

18443 \ProvidesFile{pgfcorescopes.code-xetex-bidi.def}[2015/11/14 v0.1 bidi adaptations for pgf pa
18444 \def\pgfpicture{%
18445     \begingroup%
18446     \ifmmode\else\@RTLfalse\beginL\fi%
18447     \pgfpicturetrue%
18448     \global\advance\pgf@picture@serial@count by1\relax%
18449     \edef\pgfpictureid{pgfid\the\pgf@picture@serial@count}%
18450     \let\pgf@nodecallback=\pgfutil@gobble%
18451     \pgf@picmaxx=-16000pt\relax%
18452     \pgf@picminx=16000pt\relax%
18453     \pgf@picmaxy=-16000pt\relax%
18454     \pgf@picminy=16000pt\relax%
18455     \pgf@relevantforpicturesizetrue%
18456     \pgf@resetpathsizes%
18457     \pgfutil@ifnextchar\bgroup\pgf@oldpicture\pgf@picture%
18458 \def\endpgfpicture{%
18459     \ifpgfrememberpicturepositiononpage%
18460         \hbox to0pt{\pgfsys@markposition{\pgfpictureid}}%

```



```

18461         \fi%
18462         % ok, now let's position the box
18463         \ifdim\pgf@picmaxx=-16000pt\relax%
18464             % empty picture. make size 0.
18465             \global\pgf@picmaxx=0pt\relax%
18466             \global\pgf@picminx=0pt\relax%
18467             \global\pgf@picmaxy=0pt\relax%
18468             \global\pgf@picminy=0pt\relax%
18469         \fi%
18470         % Shift baseline outside:
18471         \pgf@relevantforpicturesizefalse%
18472         \pgf@process{\pgf@baseline}%
18473         \xdef\pgf@shift@baseline{\the\pgf@y}%
18474         %
18475         \pgf@process{\pgf@trimleft}%
18476         \global\advance\pgf@x by-\pgf@picminx
18477         % prepare \hskip\pgf@trimleft@final.
18478         % note that \pgf@trimleft@final is also queried
18479         % by the pgf image externalization.
18480         \xdef\pgf@trimleft@final{-\the\pgf@x}%
18481         %
18482         \pgf@process{\pgf@trimright}%
18483         \global\advance\pgf@x by-\pgf@picmaxx
18484         % prepare \hskip\pgf@trimright@final.
18485         % note that \pgf@trimright@final is also queried
18486         % by the pgf image externalization.
18487         \xdef\pgf@trimright@final{\the\pgf@x}%
18488     %
18489     \pgf@remember@layerlist@globally
18490     \endgroup%
18491     \hss%
18492     \egroup%
18493     \pgf@restore@layerlist@from@global
18494     \pgf@insertlayers%
18495     \endgroup%
18496     \pgfsys@discardpath%
18497     \endgroup%
18498     \pgfsys@endscope%
18499     \pgfsys@endpicture%
18500     \endgroup%
18501     \hss
18502     \egroup%
18503     \pgfsys@typesetpicturebox\pgfpic%
18504     \ifmmode\else\endL\fi%
18505     \endgroup%
18506 }

```

## 130 File pgfsys.code-xetex-bidi.def

```

18507 \ProvidesFile{pgfsys.code-xetex-bidi.def}[2022/06/01 v0.1 bidi adaptations for pgfsys.code.t
18508 \def\pgfsys@shadingoutsidepgfpicture#1{%
18509     \beginL#1\endL%
18510 }
18511

```



18512

## 131 File picinpar-xetex-bidi.def

```

18513 \ProvidesFile{picinpar-xetex-bidi.def}[2013/04/08 v0.2 bidi adaptations for picinpar package]
18514 \long\def\@makewincaption#1#2{%
18515   \setbox\@tempboxa\hbox{\footnotesize{\bf #1:\enspace}{#2}}%
18516   \ifdim\wd\@tempboxa>\picwd
18517     {\footnotesize{\bf #1:\enspace}{#2\par}}
18518   \else
18519     \hbox to\picwd{\if@RTL\beginR\fi\hfil\box\@tempboxa\hfil\if@RTL\endR\fi}
18520   \fi}
18521 \def\endwindow{%
18522   \global\tcd=\tcdsav
18523   \egroup\vskip\parskip\parshape=0 % reset parshape; end \box\rawtext
18524   \vbadness=10000
18525   \splittopskip=0pt
18526 %
18527 % Typeset the lines above the window
18528 %
18529 \ifnum\tcd>0\setbox\holder=\vsplit\rawtext to \tcd\baselineskip
18530 \tcn=\tcd
18531 \loop\advance\tcn -1
18532 \setbox\fslice=\vsplit\holder to\baselineskip
18533 \prune\fslice\linewidth
18534 \topheight=0pt
18535 \ifnum\dp\fslice>\dp\wstrutbox
18536   \advance\topheight-\dp\fslice
18537   \advance\topheight\dp\wstrutbox
18538   \advance\topheight\ilg\fi
18539 \hbox to\linewidth{\box\fslice}
18540 \vskip-\topheight
18541 \ifdim\ht\holder>0pt\repeat
18542 \fi
18543 %
18544 % Now we build the boxes beside the window
18545 %
18546 \global\topheight=\tcl\baselineskip
18547 \ifnum\cumpartcl>0\global\tcl=\cumtcl
18548   \global\topheight=\vpic
18549 \fi
18550 \ifnum\bl>0 \ifnum\br>0 \multiply\topheight by 2\fi\fi
18551 \ifnum\bl>0\setbox\holder=\vsplit\rawtext to\topheight
18552 \else\ifnum\br>0\setbox\holder=\vsplit\rawtext to\topheight\fi\fi
18553 \tcn=\tcl \na=0 \nb=0
18554 \ifnum\bl>0 \ifnum\br>0 \multiply\tcn by 2\fi\fi
18555 \ifnum\bl>0\na=\tcn\ifnum\br>0\divide\na by 2\fi\fi
18556 \ifnum\br>0\nb=\tcn\ifnum\bl>0\divide\nb by 2\fi\fi
18557 \ifnum\na=0\ifnum\nb=0
18558   \setbox\waslice=\vbox to\vpic{\vss}
18559   \setbox\wbslice=\vbox to\vpic{\vss}
18560   \bl=1\br=1
18561   \vskip\ilg
18562 \fi\fi

```



```

18563 %
18564 % both sides
18565 %
18566 \ifnum\na>0 \ifnum\nb>0
18567 \loop\advance\nb -1
18568 \advance\na -1
18569 \if@RTL%
18570 \setbox\bslice=\vsplit\holder to\baselineskip
18571 \prune\bslice\rtside
18572 \setbox\wbslice=\vbox{\unvbox\wbslice\hbox
18573 to\rtside{\box\bslice\hfil}}
18574 \setbox\aslice=\vsplit\holder to\baselineskip
18575 \prune\aslice\lftside
18576 \setbox\waslice=\vbox{\unvbox\waslice\hbox
18577 to\lftside{\box\aslice\hfil}}
18578 \else%
18579 \setbox\aslice=\vsplit\holder to\baselineskip
18580 \prune\aslice\lftside
18581 \setbox\waslice=\vbox{\unvbox\waslice\hbox
18582 to\lftside{\box\aslice\hfil}}
18583 \setbox\bslice=\vsplit\holder to\baselineskip
18584 \prune\bslice\rtside
18585 \setbox\wbslice=\vbox{\unvbox\wbslice\hbox
18586 to\rtside{\box\bslice\hfil}}
18587 \fi%
18588 \ifnum\nb>0\repeat
18589 \fi\fi
18590 %
18591 % only text on the left side
18592 %
18593 \ifnum\na>0
18594 \loop\advance\na -1
18595 \setbox\aslice=\vsplit\holder to\baselineskip
18596 \prune\aslice\lftside
18597 \setbox\waslice=\vbox{\unvbox\waslice\hbox
18598 to\lftside{\box\aslice\hfil}}
18599 \ifdim\ht\holder>0pt\repeat
18600 \fi
18601 %
18602 % only text on the right side
18603 %
18604 \ifnum\nb>0
18605 \loop\advance\nb -1
18606 \setbox\bslice=\vsplit\holder to\baselineskip
18607 \prune\bslice\rtside
18608 \setbox\wbslice=\vbox{\unvbox\wbslice\hbox
18609 to\rtside{\box\bslice\hfil}}
18610 \ifdim\ht\holder>0pt\repeat
18611 \fi
18612 %
18613 % fixing the dimensions of the window part
18614 %
18615 \ifnum\bl=0\topheight=\ht\wbslice
18616 \else\ifnum\br=0\topheight=\ht\waslice

```



```

18617         \else\ifdim\ht\waslice>\ht\wbslice\topheight=\ht\waslice
18618             \else\topheight=\ht\wbslice\fi\fi\fi
18619 %
18620 % ship out the window material to the main vertical list
18621 %
18622 \ifnum\bl>0 \ifnum\br>0 \ifdim\ht\wbslice<\topheight
18623 \setbox\wbslice=\vbox to\topheight{\box\wbslice\vfll}
18624 \fi\fi\fi
18625 \setbox>windowbox=\vbox{\hbox to\linewidth{%
18626 \ifnum\bl>0\box\waslice\hfill\fi%
18627 \vbox to\topheight{\hrule width\picwd height0pt depth0pt\vskip0pt%
18628 \vfll\unvbox\picbox%
18629 \ifnum\picwd>0\vfll\fi%
18630 \vss}\ifnum\br>0\hfill\vbox{\box\wbslice}\fi}}%
18631 \unvbox>windowbox%
18632 \loop
18633 \setbox\bslice=\vsplit\rawtext to\baselineskip
18634 \prune\bslice\linewidth
18635 \setbox\wbslice=\vbox{\hbox to\linewidth{\box\bslice\hfil}}
18636 \unvbox\wbslice
18637 \ifdim\ht\rawtext>0pt
18638 \repeat
18639 }% FINITO

```

## 132 File plain-xetex-bidi.def

```

18640 \def\TeXeTOn{\TeXeTstate=1 }
18641 \def\TeXeTOff{\TeXeTstate=0 }
18642 \TeXeTOn
18643 \def\usebox#1{\leavevmode\copy #1\relax}
18644 \def\bidi@RTL@everypar{\setbox\z@\lastbox\if@RTL\beginR\else\beginL\fi\ifvoid\z@\else\usebo
18645 \let\bidi@o@everypar=\everypar
18646 \newtoks\bidi@n@everypar
18647 \bidi@n@everypar\expandafter{\the\bidi@o@everypar}
18648 \bidi@o@everypar{\bidi@RTL@everypar\the\bidi@n@everypar}
18649 \let\everypar=\bidi@n@everypar
18650 \def\moreLRE{\bracetext \aftergroup\endL \beginL\@RTLfalse}
18651 \def\moreRLE{\bracetext \aftergroup\endR \beginR\@RTLtrue}
18652 \protected\def\hboxR{\hbox\bgroup
18653 \everyhbox{%
18654 \aftergroup\egroup
18655 \everyhbox{}}%
18656 \beginR
18657 \@hboxRconstructtrue
18658 \bgroup
18659 \aftergroup\endR
18660 \aftergroup\egroup
18661 }\hbox}
18662 \protected\def\hboxL{\hbox\bgroup
18663 \everyhbox{%
18664 \aftergroup\egroup
18665 \everyhbox{}}%
18666 \beginL
18667 \@hboxRconstructfalse

```



```

18668 \bgroup
18669 \aftergroup\endL
18670 \aftergroup\egroup
18671 }\hbox}
18672 \protected\def\ vboxR{\ vbox\bgroup
18673 \everyvbox{%
18674 \aftergroup\egroup
18675 \everyvbox{}}%
18676 \@RTLtrue
18677 \bgroup
18678 \aftergroup\egroup
18679 }\ vbox}
18680 \protected\def\ vboxL{\ vbox\bgroup
18681 \everyvbox{%
18682 \aftergroup\egroup
18683 \everyvbox{}}%
18684 \@RTLfalse
18685 \bgroup
18686 \aftergroup\egroup
18687 }\ vbox}
18688 \def\LTR{\par\@RTLfalse\@RTL@footnotefalse\hsize\linewidth\parshape\z@}
18689 \def\endLTR{\par}
18690 \def\RTL{\par\@RTLtrue\@RTL@footnotetrue\hsize\linewidth\parshape\z@}
18691 \def\endRTL{\par}
18692 \def\setRTL{\@RTLtrue\@RTL@footnotetrue}
18693 \def\setLTR{\@RTLfalse\@RTL@footnotefalse}
18694 \let\unsetRTL=\setLTR
18695 \let\unsetLTR=\setRTL
18696 \let\LR=\LRE
18697 \let\RL=\RLE
18698 \def\@ensure@RTL#1{\if@RTL#1\else\RLE{#1}\fi}
18699 \def\@ensure@LTR#1{\if@RTL\LRE{#1}\else#1\fi}
18700 \let\@ensure@RL=\@ensure@RTL
18701 \let\@ensure@LR=\@ensure@LTR
18702 \def\@ensure@dir#1{\if@RTL\RLE{#1}\else{#1}\fi}
18703 \let\@ensure@maindir=\@ensure@dir
18704 \def\@RTL{RTL}
18705 \def\@LTR{LTR}
18706 \def\save@dir{\if@RTL\gdef\saved@dir{RTL}\else\gdef\saved@dir{LTR}\fi}
18707 \def\reset@dir{\ifx\saved@dir\@RTL\setRTL\else\ifx\saved@dir\@LTR\setLTR\else\relax\fi}
18708 \let\@TeX\TeX
18709 \def\TeX{\@ensure@LTR{\@TeX}}
18710 \def\pagecontents{\ifvoid\topins\else\unvbox\topins\fi
18711 \dimen@=\dp\cclv \unvbox\cclv % open up \box255
18712 \ifvoid\footins\else % footnote info is present
18713 \vskip\skip\footins
18714 \footnoterule
18715 \unvbox\footins\fi
18716 \ifrggedbottom \kern-\dimen@ \vfil \fi
18717 \ifvoid\@bidi@copyins@
18718 \else
18719 \vskip\skip\@bidi@copyins@
18720 \unvbox\@bidi@copyins@
18721 \fi

```



```

18722 }
18723 \long\def\bidireflect@box#1{%
18724   \leavevmode
18725   \setbox\z@\hbox{#{1}}%
18726   \setbox\tw@\hbox{\special{x:gsave}\special{x:scale -1 1}\rlap{\copy\z@}\special{x:grestore}}
18727   \hbox to \wd\z@{\kern\wd\z@\box\tw@\hss}%
18728 }
18729 \def\XeTeX{\LR{\leavevmode$\smash{\hbox{X\lower.5ex
18730   \hbox{\kern-.125em\bidireflect@box{E}}\kern-.1667em \TeX}}$}}
18731 \let\setRL=\setRTL
18732 \let\setLR=\setLTR
18733 \let\unsetRL=\setLTR
18734 \let\bidisaved@eqno=\eqno
18735 \let\bidisaved@leqno=\leqno
18736 \def\eqno{\ifnum\predisplaydirection<\z@ \bidisaved@leqno \else \bidisaved@eqno \fi}
18737 \def\leqno{\ifnum\predisplaydirection<\z@ \bidisaved@leqno \else \bidisaved@leqno \fi}
18738 \def\centerline#1{\line{\hss\if@RTL\beginR\fi#1\if@RTL\endR\fi\hss}}
18739 \def\leftline#1{\line{\if@RTL\beginR\fi#1\if@RTL\endR\fi\hss}}
18740 \def\rightline#1{\line{\hss\if@RTL\beginR\fi#1\if@RTL\endR\fi}}

```

### 133 File pstricks-xetex-bidi.def

```

18741 \ProvidesFile{pstricks-xetex-bidi.def}[2022/09/22 v0.6 bidi adaptations for pstricks package]
18742 \def\pspicture{\begingroup\ifmmode\else\@RTLfalse\beginL\fi\pst@ifstar\pst@picture}
18743 \def\endpspicture{%
18744   \ifshowgrid\ifnum\showgridp@s>0
18745     \psgrid[xunit=\sh@wgridXunit,yunit=\sh@wgridYunit,style=gridstyle]\fi\fi%
18746   \pst@killglue
18747   % \global\pst@shift=\pst@shift% in fact of the following endgroup
18748   \endgroup
18749   \egroup
18750   \ifdim\wd\pst@hbox=\z@\else
18751     %\@pstrickserr{Extraneous space in the pspicture environment}%
18752     %\Type \space <return> \space to proceed.}%
18753   \fi
18754   \ht\pst@hbox=\pst@dimd
18755   \dp\pst@hbox=-\pst@dimb
18756   \setbox\pst@hbox=\hbox{%
18757     \kern-\pst@dimd
18758   % Orig version -----
18759   %\ifx\pst@tempa\@empty\else
18760   %\advance\pst@dimd-\pst@dimb
18761   %\pst@dimd=\pst@tempa\pst@dimd
18762   %\advance\pst@dimd\pst@dimb
18763   %\lower\pst@dimd
18764   %\fi
18765   %----- end Orig
18766   \ifPst@shift@star%\typeout{==pstricks== old behaviour of the shift option}% shift=*
18767     \advance\pst@dimd-\pst@dimb
18768     \pst@dimd=0.5\pst@dimd
18769   \else\pst@dimd-\pst@shift\fi
18770   \advance\pst@dimd\pst@dimb
18771   \lower\pst@dimd
18772   \box\pst@hbox

```





```

18773 \kern\pst@dimc}%
18774 \if@star\setbox\pst@hbox=\hbox{\clipbox@@\z@}\fi
18775 \leavevmode\ifdim\overfullrule=\z@\box\pst@hbox\else
18776 \fboxsep=0pt
18777 \fbox{\rule[-\pst@shift]{0pt}{\ht\pst@hbox}\rule{\wd\pst@hbox}{0pt}}\fi
18778 \ifmmode\else\endL\fi
18779 \endgroup%
18780 \psset[pstricks]{shift=0}% reset value
18781 }
18782
18783 \bidi@patchcmd\@@scalebox{%
18784 \special{x: bscale \pst@tempc \pst@tempd}%
18785 \hbox to \z@\box\pst@hbox\hss}%
18786 \special{x: escale}%
18787 }{%
18788 \if@RTL
18789 \special{x: escale}%
18790 \else
18791 \special{x: bscale \pst@tempc \pst@tempd}%
18792 \fi
18793 \hbox to \z@\box\pst@hbox\hss}%
18794 \if@RTL
18795 \special{x: bscale \pst@tempc \pst@tempd}%
18796 \else
18797 \special{x: escale}%
18798 \fi
18799 }{}{}
18800 \let\ps@@scalebox\@@scalebox
18801

```

## 134 File quotchap-xetex-bidi.def

```

18802 \ProvidesFile{quotchap-xetex-bidi.def}[2010/07/25 v0.1 bidi adaptations for quotchap package]
18803 \renewcommand{\qauthor}[1]{%
18804 \par\smallskip
18805 {\if@RTL\raggedright\else\raggedleft\fi\upshape #1\qquad\hbox{}\par}\bigskip}
18806 \renewcommand{\@makechapterhead}[1]{\chapterheadstartvskip%
18807 {\size@chapter{\sectfont\if@RTL\raggedright\else\raggedleft\fi
18808 {\chapnumfont
18809 \ifnum \c@secnumdepth >\m@ne%
18810 \if@mainmatter\thechapter%
18811 \fi\fi
18812 \par\nobreak}%
18813 {\if@RTL\raggedright\else\raggedleft\fi\advance\if@RTL\rightrightmargin\else\leftmargin\fi
18814 \nobreak\chapterheadendvskip}}
18815 \renewcommand*{\@iprintcites}{%
18816 \vbox to\z@{\leavevmode\copy\@quotebox\vss}
18817 \global\let\@printcites\relax}

```

## 135 File ragged2e-xetex-bidi.def

```

18818 \ProvidesFile{ragged2e-xetex-bidi.def}[2018/10/17 v0.3 bidi adaptations for ragged2e package]
18819 \renewcommand{\Centering}{%
18820 \ifx\\ \@raggedtwoe@savedcr

```



```

18821     \let\\\@centercr
18822     \fi
18823     \let\@newline\@raggedtwoe@newline
18824     \if@RTL\rightskip\else\leftskip\fi\CenteringLeftskip
18825     \@rightskip\CenteringRightskip
18826     \if@RTL\leftskip\else\rightskip\fi\@rightskip
18827     \parfillskip\CenteringParfillskip
18828     \parindent\CenteringParindent
18829     \@raggedtwoe@spaceskiptrue
18830     \@raggedtwoe@everyselectfont
18831   }
18832 \renewcommand{\RaggedLeft}{\%
18833   \ifx\\\@raggedtwoe@savedcr
18834     \let\\\@centercr
18835     \fi
18836     \let\@newline\@raggedtwoe@newline
18837     \if@RTL\rightskip\else\leftskip\fi\RaggedLeftLeftskip
18838     \@rightskip\RaggedLeftRightskip
18839     \if@RTL\leftskip\else\rightskip\fi\@rightskip
18840     \parfillskip\RaggedLeftParfillskip
18841     \parindent\RaggedLeftParindent
18842     \@raggedtwoe@spaceskiptrue
18843     \@raggedtwoe@everyselectfont
18844   }
18845 \renewcommand{\RaggedRight}{\%
18846   \ifx\\\@raggedtwoe@savedcr
18847     \let\\\@centercr
18848     \fi
18849     \let\@newline\@raggedtwoe@newline
18850     \if@RTL\rightskip\else\leftskip\fi\RaggedRightLeftskip
18851     \@rightskip\RaggedRightRightskip
18852     \if@RTL\leftskip\else\rightskip\fi\@rightskip
18853     \parfillskip\RaggedRightParfillskip
18854     \parindent\RaggedRightParindent
18855     \@raggedtwoe@spaceskiptrue
18856     \@raggedtwoe@everyselectfont
18857   }
18858 \renewcommand{\justifying}{\%
18859   \let\\\@raggedtwoe@savedcr
18860   \let\@newline\@raggedtwoe@saved@newline
18861   \if@RTL\rightskip\else\leftskip\fi\z@
18862   \@rightskip\z@
18863   \if@RTL\leftskip\else\rightskip\fi\@rightskip
18864   \parfillskip\JustifyingParfillskip
18865   \parindent\JustifyingParindent
18866   \@raggedtwoe@spaceskipfalse
18867   \@raggedtwoe@everyselectfont
18868 }
18869 \def\@raggedtwoe@raggedrightboxes@opt{\%
18870 \renewcommand{\@arrayparboxrestore}{\%
18871   \let\if@nobreak\iffalse
18872   \let\if@noskipsec\iffalse
18873   \let\par\@par
18874   \let\-\@dischyph

```



```

18875 \let'\@acci\let'\@accii\let\=@acciii
18876 \parskip\z@skip
18877 \everypar{}%
18878 \linewidth\hsize
18879 \@totalleftmargin\z@
18880 \if@RTL
18881 \RaggedLeft
18882 \else
18883 \RaggedRight
18884 \fi
18885 \lineskip\normallineskip
18886 \baselineskip\normalbaselineskip
18887 \sloppy}%
18888 \let\@raggedtwoe@raggedrightboxes@opt\relax
18889 }
18890 \def\@raggedtwoe@document@opt{%
18891 \AtBeginDocument{\@raggedtwoe@abdhook}%
18892 \@raggedtwoe@raggedrightboxes@opt
18893 \@raggedtwoe@footmisctrue
18894 \let\@raggedtwoe@document@opt\relax
18895 }
18896 \def\@raggedtwoe@abdhook{%
18897 \PackageInfo{ragged2e}{ABD: executing '\string\RaggedLeft' for
18898 right to left documents and '\string\RaggedRight' for left
18899 to right documents}%
18900 \if@RTL
18901 \RaggedLeft
18902 \else
18903 \RaggedRight
18904 \fi
18905 \@ifundefined{@tocrmarg}{\edef\@tocrmarg{\@tocrmarg plus 2em}}%
18906 \let\@raggedtwoe@abdhook\relax
18907 }
18908 \@ifpackagewith{ragged2e}{raggedrightboxes}{%
18909 \@raggedtwoe@raggedrightboxes@opt
18910 }{}
18911 \@ifpackagewith{ragged2e}{document}{%
18912 \@raggedtwoe@document@opt
18913 }{}
18914 \let\origin@RaggedLeft=\RaggedLeft
18915 \let\origin@RaggedRight=\RaggedRight
18916 \def\RaggedLeft{\if@RTL\origin@RaggedRight\else\origin@RaggedLeft\fi}
18917 \def\RaggedRight{\if@RTL\origin@RaggedLeft\else\origin@RaggedRight\fi}

```

## 136 File rapport1-xetex-bidi.def

```

18918 \ProvidesFile{rapport1-xetex-bidi.def}[2017/06/09 v0.4 bidi adaptations for rapport1 class f
18919 \renewenvironment{theindex}{%
18920 \if@twocolumn
18921 \@restonecolfalse
18922 \else
18923 \@restonecoltrue
18924 \fi
18925 \columnseprule \z@

```



```

18926 \columnsep 35\p@
18927 \twocolumn[\@makeschapterhead{\indexname}]{%
18928 \mkboth{\MakeUppercase{\indexname}}{\MakeUppercase{\indexname}}}%
18929 \thispagestyle{plain}\parindent\z@
18930 \parskip\z@ \@plus .3\p@\relax
18931 \let\item\@idxitem
18932 }{%
18933 \if@restonecol\onecolumn\else\clearpage\fi}
18934 \renewcommand*\head@style{%
18935 \interlinepenalty \@M
18936 \hyphenpenalty=\@M \exhyphenpenalty=\@M
18937 \if@RTL\leftskip\else\rightskip\fi=0cm plus .7\hsize\relax}
18938 \if@titlepage
18939 \renewenvironment{abstract}{%
18940 \titlepage
18941 \null\vfil
18942 \section*{\SectFont\abstractname}%
18943 \noindent\ignorespaces}
18944 {\par\vfil\null\endtitlepage}
18945 \else
18946 \renewenvironment{abstract}{%
18947 \if@twocolumn
18948 \section*{\abstractname}%
18949 \else
18950 \bgroup\if@RTL\leftskip\else\rightskip\fi=\unitindent
18951 \section*{\small\SectFont\abstractname}%
18952 \noindent\ignorespaces
18953 \fi}
18954 {\if@twocolumn\else\par\egroup\fi}
18955 \fi
18956 \renewcommand*\@regtocline[3]{%
18957 \ifnum #1>\c@tocdepth
18958 \else
18959 \vskip\z@\@plus.2\p@
18960 {\hangindent\z@ \afterindenttrue \interlinepenalty\@M
18961 \if@RTL\rightskip\else\leftskip\fi\unitindent
18962 \if@RTL\leftskip\else\rightskip\fi\unitindent\@plus 1fil
18963 \parfillskip\z@
18964 \@tempdima\unitindent
18965 \parindent\z@
18966 \leavevmode
18967 \hbox{}\hspace -\if@RTL\rightskip\else\leftskip\fi\relax#2\nobreak
18968 \hspace 1em \nobreak{\slshape #3}\par
18969 }%
18970 \fi}
18971 \if@oldtoc
18972 \renewcommand*\l@part[2]{%
18973 \ifnum \c@tocdepth >-2\relax
18974 \addpenalty{-\@highpenalty}%
18975 \addvspace{2.25em \@plus\p@}%
18976 \begingroup
18977 \setlength\@tempdima{3em}%
18978 \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
18979 \parfillskip -\@pnumwidth

```



```

18980     {\leavevmode
18981       \large \bfseries #1\hfil \hb@xt@{\pnumwidth{\hss #2}}\par
18982       \nobreak
18983       \global\@nobreaktrue
18984       \everypar{\global\@nobreakfalse\everypar{}}%
18985     \endgroup
18986   \fi}
18987 \else
18988   \renewcommand*\l@part{%
18989     \ifnum \c@tocdepth >-2\relax
18990       \addpenalty{-\@highpenalty}%
18991       \addvspace{2.25em \@plus \p@}%
18992       \regtocline{0}%
18993     \fi}
18994 \fi
18995 \if@oldtoc
18996 \renewcommand*\l@chapter[2]{%
18997   \addpenalty{-\@highpenalty}%
18998   \vskip 1.0em \@plus \p@
18999   \setlength\@tempdima{1.5em}%
19000   \begingroup
19001     \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \pnumwidth
19002     \parfillskip -\pnumwidth
19003     \leavevmode \bfseries
19004     \advance\if@RTL\rightskip\else\leftskip\fi\@tempdima
19005     \hskip -\if@RTL\rightskip\else\leftskip\fi
19006     #1\nobreak\hfil \nobreak\hb@xt@{\pnumwidth{\hss #2}}\par
19007     \penalty\@highpenalty
19008   \endgroup}
19009 \else
19010   \renewcommand*\l@chapter{\@regtocline{0}}
19011 \fi
19012 \renewcommand*\left@footnoterule{%
19013   \kern-3\p@
19014   \kern.5\baselineskip
19015   \hrule\@width\unitindent
19016   \kern.4\baselineskip
19017 }
19018 \renewcommand*\right@footnoterule{%
19019   \kern-3\p@
19020   \kern.5\baselineskip
19021   \hbox to \columnwidth{\hskip \dimexpr\columnwidth-\unitindent\relax \hrulefill }
19022   \kern.4\baselineskip}
19023 \renewenvironment{thebibliography}[1]
19024   {\chapter*{\bibname}%
19025     \@mkboth{\MakeUppercase\bibname}{\MakeUppercase\bibname}%
19026     \if@RTL\if@LTRbibitems\@RTLfalse\else\fi\else\if@RTLbibitems\@RTLtrue\else\fi\fi
19027     \bidi@thebibliography@font@hook%
19028     \list{\@biblabel{\@arabic\c@enumiv}}%
19029       {\settowidth\labelwidth{\@biblabel{#1}}%
19030        \leftmargin\labelwidth
19031        \advance\leftmargin\labelsep
19032        \@openbib@code
19033        \usecounter{enumiv}}%

```



```

19034         \let\p@enumiv\@empty
19035         \renewcommand*\theenumiv{\@arabic\c@enumiv}}}%
19036         \sloppy\clubpenalty4000\widowpenalty4000%
19037         \sfcode`\.\@m}
19038     {\def\@noitemerr
19039         {\@latex@warning{Empty `thebibliography' environment}}}%
19040     \endlist}
19041 \renewcommand*\thesection{\thechapter\@SepMark\@arabic\c@section}
19042 \renewcommand*\thesubsection{\thesection\@SepMark\@arabic\c@subsection}
19043 \renewcommand*\thesubsubsection{\thesubsection\@SepMark\@arabic\c@subsubsection}
19044 \renewcommand*\theparagraph{\thesubsubsection\@SepMark\@arabic\c@paragraph}
19045 \renewcommand*\thesubparagraph{\theparagraph\@SepMark\@arabic\c@subparagraph}
19046 \renewcommand*\theequation{%
19047     \ifnum \c@chapter>\z@ \thechapter\@SepMark\fi\@arabic\c@equation}
19048 \renewcommand*\thefigure{%
19049     \ifnum \c@chapter>\z@ \thechapter\@SepMark\fi\@arabic\c@figure}
19050 \renewcommand*\thetable{%
19051     \ifnum \c@chapter>\z@ \thechapter\@SepMark\fi\@arabic\c@table}
19052 \if@titlepage
19053 \renewcommand*\TitleFont{\rmfamily}
19054 \renewcommand*\maketitle{%
19055     \begin{titlepage}%
19056         \let\footnotesize\small
19057         \let\right@footnoterule\relax
19058         \let\left@footnoterule\relax
19059         \let\textwidth\footnoterule\relax
19060         \let \footnote \thanks
19061         \long\def\@makefntext##1{\parindent\z@
19062             \def\labelitemi{\textendash}\@revlabeltrue
19063             \leavevmode\@textsuperscript{\@thefnmark}\kern1em\relax ##1}
19064         \renewcommand*\thefootnote{\@fnsymbol\c@footnote}%
19065         \if@compatibility\setcounter{page}{0}\fi
19066         \null\vfil
19067         \vskip 60\p@
19068         \begin{center}%
19069             \TitleFont
19070             {\LARGE \def\\{\penalty -\@M}
19071                 \if@allcaps
19072                     \expandafter\uc@nothanks\@title\thanks\relax
19073                 \else
19074                     \@title
19075                 \fi\par}%
19076         \vskip 3em%
19077         {\large
19078             \lineskip .75em \parindent\z@
19079             \begin{tabular}[t]{c}%
19080                 \if@allcaps
19081                     \expandafter\uc@authornothanks\@author\and\relax
19082                 \else
19083                     \@author
19084                 \fi
19085             \end{tabular}\par}%
19086         \vskip 1.5em%
19087         {\large

```



```

19088         \if@allcaps
19089             \uppercase\expandafter{\@date}%
19090         \else
19091             \@date
19092         \fi\par}%
19093     \end{center}\par
19094     \@thanks
19095     \vfil\null
19096 \end{titlepage}%
19097 \setcounter{footnote}{0}%
19098 \global\let\thanks\relax
19099 \global\let\maketitle\relax
19100 \global\let\@thanks\@empty
19101 \global\let\@author\@empty
19102 \global\let\@title\@empty
19103 \global\let\@date\@empty
19104 \global\let\title\relax
19105 \global\let\author\relax
19106 \global\let\date\relax
19107 \global\let\and\relax
19108 }
19109 \def\uc@nothanks#1\thanks{\uppercase{#1}\futurelet\@tempa\uc@tx}
19110 \def\uc@authornothanks#1\and{\uc@nothanks#1\thanks\relax
19111     \futurelet\@tempa\uc@ax}
19112 \def\uc@ax{%
19113     \ifx\@tempa\relax
19114     \else
19115         \\\andname \\\expandafter\uc@authornothanks
19116     \fi}
19117 \def\uc@tx{\ifx\@tempa\relax
19118     \else \expandafter\uc@ty \fi}
19119 \def\uc@ty#1{\thanks{#1}\uc@nothanks}
19120 \else
19121 \renewcommand*\maketitle{\par
19122     \begingroup
19123         \renewcommand*\thefootnote{\@fnsymbol\c@footnote}%
19124         \def\@makefnmark{\rlap{%
19125             \@textsuperscript{\normalfont\@thefnmark}}}%
19126         \long\def\@makefntext{\@xmakefntext{%
19127             \@textsuperscript{\normalfont\@thefnmark}}}%
19128         \if@twocolumn
19129             \ifnum \col@number=\@one
19130                 \@maketitle
19131             \else
19132                 \twocolumn[\@maketitle]%
19133             \fi
19134         \else
19135             \newpage
19136             \global\@topnum\z@
19137             \@maketitle
19138         \fi
19139         \thispagestyle{plain}\@thanks
19140     \endgroup
19141     \setcounter{footnote}{0}%

```



```

19142 \global\let\thanks\relax
19143 \global\let\maketitle\relax
19144 \global\let\@maketitle\relax
19145 \global\let\@thanks\@empty
19146 \global\let\@author\@empty
19147 \global\let\@title\@empty
19148 \global\let\@date\@empty
19149 \global\let\title\relax
19150 \global\let\author\relax
19151 \global\let\date\relax
19152 \global\let\and\relax
19153 }
19154 \def\@maketitle{%
19155 \newpage
19156 \null
19157 \vskip 2em%
19158 \begin{center}%
19159 \let \footnote \thanks
19160 {\LARGE \TitleFont \@title \par}%
19161 \vskip 1.5em%
19162 {\large \TitleFont
19163 \lineskip .5em%
19164 \begin{tabular}[t]{c}%
19165 \@author
19166 \end{tabular}\par}%
19167 \vskip 1em%
19168 {\large \TitleFont \@date}%
19169 \end{center}%
19170 \par
19171 \vskip 1.5em}
19172 \fi

```

### 137 File rapport3-xetex-bidi.def

```

19173 \ProvidesFile{rapport3-xetex-bidi.def}[2017/06/09 v0.6 bidi adaptations for rapport3 class f
19174 \renewenvironment{theindex}{%
19175 \if@twocolumn
19176 \@restonecolfalse
19177 \else
19178 \@restonecoltrue
19179 \fi
19180 \columnseprule \z@
19181 \columnsep 35\p@
19182 \twocolumn[\@makeschapterhead{\indexname}]%
19183 \@mkboth{\MakeUppercase{\indexname}}{\MakeUppercase{\indexname}}}%
19184 \thispagestyle{plain}\parindent\z@
19185 \parskip\z@ \@plus .3\p@\relax
19186 \let\item\@idxitem
19187 }{%
19188 \if@restonecol\onecolumn\else\clearpage\fi}
19189 \if@titlepage
19190 \renewcommand*\TitleFont{\rmfamily}
19191 \renewcommand*\maketitle{%
19192 \begin{titlepage}%

```





```

19193 \let\footnotesize\small
19194 \let\right@footnoterule\relax
19195 \let\left@footnoterule\relax
19196 \let\textwidth@footnoterule\relax
19197 \let \footnote \thanks
19198 \let \LTRfootnote \LTRthanks
19199 \let \RTLfootnote \RTLthanks
19200 \long\def\@makefntext##1{\parindent\z@
19201 \def\labelitemi{\textendash}\@revlabeltrue
19202 \leavevmode\@textsuperscript{\@thefnmark}\kern1em\relax ##1}
19203 \renewcommand*\thefootnote{\@fnsymbol\c@footnote}%
19204 \if@compatibility\setcounter{page}{0}\fi
19205 \null\vfil
19206 \vskip 60\p@
19207 \begin{center}%
19208 \TitleFont
19209 {\LARGE \def\{\{\penalty -\@M}
19210 \if@allcaps
19211 \expandafter\uc@nothanks\@title\thanks\relax
19212 \else
19213 \@title
19214 \fi\par}%
19215 \vskip 3em%
19216 {\large
19217 \lineskip .75em \parindent\z@
19218 \begin{tabular}[t]{c}%
19219 \if@allcaps
19220 \expandafter\uc@authornothanks\@author\and\relax
19221 \else
19222 \@author
19223 \fi
19224 \end{tabular}\par}%
19225 \vskip 1.5em%
19226 {\large
19227 \if@allcaps
19228 \uppercase\expandafter{\@date}%
19229 \else
19230 \@date
19231 \fi\par}%
19232 \end{center}\par
19233 \@thanks
19234 \vfil\null
19235 \end{titlepage}%
19236 \setcounter{footnote}{0}%
19237 \global\let\thanks\relax
19238 \global\let\LTRthanks\relax
19239 \global\let\RTLthanks\relax
19240 \global\let\maketitle\relax
19241 \global\let\@thanks\@empty
19242 \global\let\@author\@empty
19243 \global\let\@title\@empty
19244 \global\let\@date\@empty
19245 \global\let\title\relax
19246 \global\let\author\relax

```



```

19247 \global\let\date\relax
19248 \global\let\and\relax
19249 }
19250 \def\uc@nothanks#1\thanks{\uppercase{#1}\futurelet\@tempa\uc@tx}
19251 \def\uc@authornothanks#1\and{\uc@nothanks#1\thanks\relax
19252 \futurelet\@tempa\uc@ax}
19253 \def\uc@ax{%
19254 \ifx\@tempa\relax
19255 \else
19256 \\\andname \\\expandafter\uc@authornothanks
19257 \fi}
19258 \def\uc@tx{\ifx\@tempa\relax
19259 \else \expandafter\uc@ty \fi}
19260 \def\uc@ty#1{\thanks{#1}\uc@nothanks}
19261 \else
19262 \renewcommand*\maketitle{\par
19263 \begingroup
19264 \renewcommand*\thefootnote{\@fnsymbol\c@footnote}%
19265 \def\@makefnmark{\rlap{%
19266 \@textsuperscript{\normalfont\@thefnmark}}}%
19267 \long\def\@makefntext{\@xmakefntext{%
19268 \@textsuperscript{\normalfont\@thefnmark}}}%
19269 \if@twocolumn
19270 \ifnum \col@number=\@ne
19271 \maketitle
19272 \else
19273 \twocolumn[\maketitle]%
19274 \fi
19275 \else
19276 \newpage
19277 \global\@topnum\z@
19278 \maketitle
19279 \fi
19280 \thispagestyle{plain}\@thanks
19281 \endgroup
19282 \setcounter{footnote}{0}%
19283 \global\let\thanks\relax
19284 \global\let\LTRthanks\relax
19285 \global\let\RTLthanks\relax
19286 \global\let\maketitle\relax
19287 \global\let\@maketitle\relax
19288 \global\let\@thanks\@empty
19289 \global\let\@author\@empty
19290 \global\let\@title\@empty
19291 \global\let\@date\@empty
19292 \global\let\title\relax
19293 \global\let\author\relax
19294 \global\let\date\relax
19295 \global\let\and\relax
19296 }
19297 \def\@maketitle{%
19298 \newpage
19299 \null
19300 \vskip 2em%

```



```

19301 \if@titlecentered
19302   \begin{center}%
19303     \let \footnote \thanks
19304     \let \LTRfootnote \LTRthanks
19305     \let \RTLfootnote \RTLthanks
19306     {\LARGE \TitleFont \@title \par}%
19307     \vskip 1.5em%
19308     {\large \TitleFont
19309       \lineskip .5em%
19310       \begin{tabular}[t]{c}%
19311         \@author
19312       \end{tabular}\par}%
19313     \vskip 1em%
19314     {\large \TitleFont \@date}%
19315   \end{center}%
19316 \else
19317   {\LARGE \TitleFont \head@style \@title \par} \vskip 1.5em
19318   {\large \TitleFont \lineskip .5em \tabcolsep\z@
19319     \def\and{%% \begin{tabular} has already started
19320       \end{tabular}\hskip 1em plus .17fil
19321       \if@RTL\begin{tabular}[t]{r}\else\begin{tabular}[t]{l}\fi}% \end{tabu
19322       \if@RTL\begin{tabular}[t]{r}\else\begin{tabular}[t]{l}\fi\@author\end{tabular}%
19323     \vskip 1em {\large \TitleFont \@date}
19324   \fi
19325   \par
19326   \vskip 1.5em}
19327 \fi
19328 \renewcommand*\@regtocline[3]{%
19329   \ifnum #1>\c@tocdepth
19330   \else
19331     \vskip\z@\@plus.2\p@
19332     {\hangindent\z@ \@afterindenttrue \interlinepenalty\@M
19333       \if@RTL\rightskip\else\leftskip\fi\unitindent
19334       \if@RTL\leftskip\else\rightskip\fi\unitindent\@plus 1fil
19335       \parfillskip\z@
19336       \@tempdima\unitindent
19337       \parindent\z@
19338       \leavevmode
19339       \hbox{}\hskip -\if@RTL\rightskip\else\leftskip\fi\relax#2\nobreak
19340       \hskip 1em \nobreak{\slshape #3}\par
19341     }%
19342   \fi}
19343 \if@oldtoc
19344 \renewcommand*\l@part[2]{%
19345   \ifnum \c@tocdepth >-2\relax
19346     \addpenalty{-\@highpenalty}%
19347     \addvspace{2.25em \@plus\p@}%
19348     \begingroup
19349       \setlength\@tempdima{3em}%
19350       \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
19351       \parfillskip -\@pnumwidth
19352       {\leavevmode
19353         \large \bfseries #1\hfil \hb@xt@\@pnumwidth{\hss #2}}\par
19354       \nobreak

```



```

19355         \global\@nobreake>true
19356         \everypar{\global\@nobreake>false\everypar{}}%
19357     \endgroup
19358 \fi}
19359 \else
19360     \renewcommand*\l@part{%
19361         \ifnum \c@tocdepth >-2\relax
19362             \addpenalty{-\@highpenalty}%
19363             \addvspace{2.25em \@plus \p@}%
19364             \@regtocline{0}%
19365         \fi}
19366 \fi
19367 \if@oldtoc
19368 \renewcommand*\l@chapter[2]{%
19369     \addpenalty{-\@highpenalty}%
19370     \vskip 1.0em \@plus \p@
19371     \setlength\@tempdima{1.5em}%
19372     \begingroup
19373     \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
19374     \parfillskip -\@pnumwidth
19375     \leavevmode \bfseries
19376     \advance\if@RTL\rightskip\else\leftskip\fi\@tempdima
19377     \hskip -\if@RTL\rightskip\else\leftskip\fi
19378     #1\nobreak\hfil \nobreak\hb@xt@\@pnumwidth{\hss #2}\par
19379     \penalty\@highpenalty
19380 \endgroup}
19381 \else
19382 \renewcommand*\l@chapter{\@regtocline{0}}
19383 \fi
19384 \renewcommand*\head@style{%
19385     \interlinepenalty \@M
19386     \hyphenpenalty=\@M \exhyphenpenalty=\@M
19387     \if@RTL\leftskip\else\rightskip\fi=0cm plus .7\hsize\relax}
19388 \if@titlepage
19389 \renewenvironment{abstract}{%
19390     \titlepage
19391     \null\vfil
19392     \section*{\SectFont\abstractname}%
19393     \noindent\ignorespaces}
19394     {\par\vfil\null\endtitlepage}
19395 \else
19396 \renewenvironment{abstract}{%
19397     \if@twocolumn
19398         \section*{\abstractname}%
19399     \else
19400         \bgroup\if@RTL\leftskip\else\rightskip\fi=\unitindent
19401         \section*{\small\SectFont\abstractname}%
19402         \noindent\ignorespaces
19403     \fi}
19404     {\if@twocolumn\else\par\egroup\fi}
19405 \fi
19406 \renewcommand*\thesection{\thechapter\@SepMark\@arabic\c@section}
19407 \renewcommand*\thesubsection{\thesection\@SepMark\@arabic\c@subsection}
19408 \renewcommand*\thesubsubsection{\thesubsection\@SepMark\@arabic\c@subsubsection}

```



```

19409 \renewcommand*\theparagraph{\thesubsubsection\@SepMark\@arabic\c@paragraph}
19410 \renewcommand*\thesubparagraph{\theparagraph\@SepMark\@arabic\c@subparagraph}
19411 \renewcommand*\thefigure{%
19412   \ifnum\c@chapter>\z@\thechapter\@SepMark\fi\@arabic\c@figure}
19413 \renewcommand*\thetable{%
19414   \ifnum\c@chapter>\z@\thechapter\@SepMark\fi\@arabic\c@table}
19415 \renewcommand*\theequation{%
19416   \ifnum\c@chapter>\z@\thechapter\@SepMark\fi\@arabic\c@equation}
19417 \renewenvironment{thebibliography}[1]
19418   {\chapter*\bibname}%
19419   \@mkboth{\MakeUppercase\bibname}{\MakeUppercase\bibname}%
19420   \ifRTL\ifLTRbibitems\@RTLfalse\else\fi\else\ifRTLbibitems\@RTLtrue\else\fi\fi
19421   \bidi@thebibliography@font@hook%
19422   \list{\@biblabel{\@arabic\c@enumiv}}%
19423     {\settowidth\labelwidth{\@biblabel{#1}}%
19424     \leftmargin\labelwidth
19425     \advance\leftmargin\labelsep
19426     \@openbib@code
19427     \usecounter{enumiv}%
19428     \let\p@enumiv\@empty
19429     \renewcommand*\theenumiv{\@arabic\c@enumiv}}%
19430   \sloppy\clubpenalty4000\widowpenalty4000%
19431   \sfcode`.\@m}
19432   {\def\@noitemerr
19433     {\@latex@warning{Empty `thebibliography' environment}}}%
19434   \endlist}
19435 \renewcommand*\left@footnoterule{%
19436   \kern-3\p@
19437   \kern.5\baselineskip
19438   \hrule\@width\unitindent
19439   \kern.4\baselineskip
19440 }
19441 \renewcommand*\right@footnoterule{%
19442   \kern-3\p@
19443   \kern.5\baselineskip
19444   \hbox to \columnwidth{\hskip \dimexpr\columnwidth-\unitindent\relax \hrulefill }
19445   \kern.4\baselineskip}
19446 \renewcommand*\head@style{%
19447   \interlinepenalty \@M
19448   \hyphenpenalty=\@M \exhyphenpenalty=\@M
19449   \ifRTL\leftskip\else\rightskip\fi=0cm plus .7\hsize\relax}

```

## 138 File refrep-xetex-bidi.def

```

19450 \ProvidesFile{refrep-xetex-bidi.def}[2017/06/09 v0.5 bidi adaptations for refrep class for X
19451 \if@titlepage
19452   \renewcommand\maketitle{\begin{titlepage}%
19453     \let\footnotesize\small
19454     \let\right@footnoterule\relax
19455     \let\left@footnoterule\relax
19456     \let\textwidth\footnoterule\relax
19457     \let\footnote\thanks
19458     \let\LTRfootnote\LTRthanks
19459     \let\RTLfootnote\RTLthanks

```



```

19460 \renewcommand\thefootnote{\@fnsymbol\c@footnote}%
19461 \def\@makefnmark%
19462     {\rlap{\@textsuperscript{\normalfont\@thefnmark}}}%
19463 \long\def\@makefntext##1{%
19464     \@setpar{\@par
19465         \@tempdima = \hspace
19466         \advance\@tempdima -1em
19467         \parshape \@ne 1em \@tempdima}%
19468     \par\parindent 1em \noindent
19469     \hb@xt@\z@\{ \hss\@textsuperscript{\normalfont\@thefnmark}\,}##1}
19470 \null\vfil
19471 \vskip 60\p@
19472 \begin{center}%
19473     {\LARGE \@title \par}%
19474     \vskip 3em%
19475     {\large
19476         \lineskip .75em%
19477         \begin{tabular}[t]{c}%
19478             \@author
19479             \end{tabular}\par}%
19480     \vskip 1.5em%
19481     {\large \@date \par}%           % Set date in \large size.
19482 \end{center}\par
19483 \@thanks
19484 \vfil\null
19485 \end{titlepage}%
19486 \setcounter{footnote}{0}%
19487 \global\let\thanks\relax
19488 \global\let\LTRthanks\relax
19489 \global\let\RTLthanks\relax
19490 \global\let\maketitle\relax
19491 \global\let\@thanks\@empty
19492 \global\let\@author\@empty
19493 \global\let\@date\@empty
19494 \global\let\@title\@empty
19495 \global\let\title\relax
19496 \global\let\author\relax
19497 \global\let\date\relax
19498 \global\let\and\relax
19499 }
19500 \else
19501 \renewcommand\maketitle{\par
19502     \begingroup
19503         \renewcommand\thefootnote{\@fnsymbol\c@footnote}%
19504         \def\@makefnmark%
19505             {\rlap{\@textsuperscript{\normalfont\@thefnmark}}}%
19506         \long\def\@makefntext##1{%
19507             \@setpar{\@par
19508                 \@tempdima = \hspace
19509                 \advance\@tempdima -1em
19510                 \parshape \@ne 1em \@tempdima}%
19511             \par\parindent 1em \noindent
19512             \hb@xt@\z@\{ \hss\@textsuperscript{\normalfont\@thefnmark}\,}##1}
19513         \if@twocolumn

```



```

19514         \ifnum \col@number=\@ne
19515             \@maketitle
19516         \else
19517             \twocolumn[\@maketitle]%
19518         \fi
19519     \else
19520         \newpage
19521         \global\@topnum\z@    % Prevents figures from going at top of page.
19522         \@maketitle
19523     \fi
19524     \thispagestyle{empty}\@thanks
19525 \endgroup
19526 \setcounter{footnote}{0}%
19527 \global\let\thanks\relax
19528 \global\let\LTRthanks\relax
19529 \global\let\RTLthanks\relax
19530 \global\let\maketitle\relax
19531 \global\let\@maketitle\relax
19532 \global\let\@thanks\@empty
19533 \global\let\@author\@empty
19534 \global\let\@date\@empty
19535 \global\let\@title\@empty
19536 \global\let\title\relax
19537 \global\let\author\relax
19538 \global\let\date\relax
19539 \global\let\and\relax
19540 }
19541 \def\@maketitle{%
19542     \newpage
19543     \null
19544     \longthickrule\vskip1.5em%
19545     \let \footnote \thanks
19546     \let \LTRfootnote \LTRthanks
19547     \let \RTLfootnote \RTLthanks
19548     {\secshape \parskip\z@ \parindent\z@
19549     \Large\bfseries \@title \par}%
19550     \vskip1.5em\longthickrule\vskip1.5em%
19551     {\normalsize
19552     \lineskip .5em%
19553     \begin{flushright}%
19554         {\slshape\@author\par}
19555         \vskip 1em%
19556         {\@date}%
19557     \end{flushright}\par}%
19558     \vskip 1.5em}
19559 \fi
19560 \renewcommand*\l@part[2]{%
19561     \ifnum \c@tocdepth >-2\relax
19562         \addpenalty{-\@highpenalty}%
19563         \addvspace{2.25em \@plus\p@}%
19564         \begingroup
19565             \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
19566             \parfillskip -\@pnumwidth
19567         {\leavevmode

```



```

19568      \large \bfseries #1\hfil \hbox to\@pnumwidth{\hss #2}}\par
19569      \nobreak
19570      \global\@nobreaktrue
19571      \everypar{\global\@nobreakfalse\everypar{}}%
19572    \endgroup
19573  \fi}
19574 \renewcommand*\l@chapter[2]{%
19575   \ifnum \c@tocdepth >\m@ne
19576     \addpenalty{-\@highpenalty}%
19577     \vskip 1.0em \plus\p@
19578     \setlength\@tempdima{1.5em}%
19579     \begingroup
19580     \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
19581     \parfillskip -\@pnumwidth
19582     \leavevmode \bfseries
19583     \advance\if@RTL\rightskip\else\leftskip\fi\@tempdima
19584     \hskip -\if@RTL\rightskip\else\leftskip\fi
19585     #1\nobreak\hfil \nobreak\hb@xt@\@pnumwidth{\hss #2}\par
19586     \penalty\@highpenalty
19587   \endgroup
19588   \fi}
19589 \renewcommand\secshape{\if@RTL\rightskip\else\leftskip\fi=-\leftmarginwidth%
19590                      \if@RTL\leftskip\else\rightskip\fi=\@flushglue%
19591                      \hyphenpenalty=2000}
19592 \renewcommand\left@footnoterule{%
19593   \kern-3\p@
19594   \hrule\@width.4\columnwidth
19595   \kern 2.6\p@}
19596 \renewcommand\right@footnoterule{%
19597   \kern-3\p@
19598   \hbox to \columnwidth{\hskip .6\columnwidth \hrulefill }
19599   \kern2.6\p@}
19600 \renewcommand\theequation
19601 {\ifnum \c@chapter>\z@ \thechapter\@SepMark\fi \@arabic\c@equation}
19602 \renewcommand\thefigure
19603 {\ifnum \c@chapter>\z@ \thechapter\@SepMark\fi \@arabic\c@figure}
19604 \renewcommand\thetable%
19605 {\ifnum \c@chapter>\z@ \thechapter\@SepMark\fi \@arabic\c@table}
19606 \renewcommand\thesection {\thechapter\@SepMark\@arabic\c@section}
19607 \renewcommand\thesubsection {\thesection\@SepMark\@arabic\c@subsection}
19608 \renewcommand\thesubsubsection {\thesubsection \@SepMark\@arabic\c@subsubsection}
19609 \renewcommand\theparagraph {\thesubsubsection\@SepMark\@arabic\c@paragraph}
19610 \renewcommand\thesubparagraph {\theparagraph\@SepMark\@arabic\c@subparagraph}
19611 \renewenvironment{thebibliography}[1]
19612 {\chapter*\bibname
19613   \mkboth{\bibname}{\bibname}}%
19614   \if@RTL\if@LTRbibitems\@RTLfalse\else\fi\else\if@RTLbibitems\@RTLtrue\else\fi\fi
19615   \bidi@thebibliography@font@hook%
19616   \list{\@biblabel{\@arabic\c@enumiv}}%
19617     {\settowidth\labelwidth{\@biblabel{#1}}%
19618     \leftmargin\labelwidth
19619     \advance\leftmargin\labelsep
19620     \@openbib@code
19621     \usecounter{enumiv}}%

```





```

19622         \let\p@enumiv\@empty
19623         \renewcommand\theenumiv{\@arabic\c@enumiv}}}%
19624         \sloppy
19625         \clubpenalty4000
19626         \@clubpenalty \clubpenalty
19627         \widowpenalty4000%
19628     \sfcode`\.=\@m}
19629 {\def\@noitemerr
19630   {\@latex@warning{Empty `thebibliography' environment}}}%
19631   \endlist}

```

### 139 File report-xetex-bidi.def

```

19632 \ProvidesFile{report-xetex-bidi.def}[2017/06/09 v0.8 bidi adaptations for standard report cl
19633 \renewenvironment{theindex}
19634     {\if@twocolumn
19635       \@restonecolfalse
19636       \else
19637         \@restonecoltrue
19638       \fi
19639       \columnseprule \z@
19640       \columnsep 35\p@
19641       \twocolumn[\@makeschapterhead{\indexname}}}%
19642       \@mkboth{\MakeUppercase\indexname}%
19643               {\MakeUppercase\indexname}%
19644       \thispagestyle{plain}\parindent\z@
19645       \parskip\z@ \@plus .3\p@\relax
19646       \let\item\@idxitem}
19647     {\if@restonecol\onecolumn\else\clearpage\fi}
19648 \if@titlepage
19649 \renewcommand\maketitle{\begin{titlepage}%
19650 \let\footnotesize\small
19651 \let\right@footnoterule\relax
19652 \let\left@footnoterule\relax
19653 \let\textwidth\footnoterule\relax
19654 \let \footnote \thanks
19655 \let \LTRfootnote \LTRthanks
19656 \let \RTLfootnote \RTLthanks
19657 \null\vfil
19658 \vskip 60\p@
19659 \begin{center}%
19660   {\LARGE \@title \par}%
19661   \vskip 3em%
19662   {\large
19663     \lineskip .75em%
19664     \begin{tabular}[t]{c}%
19665       \@author
19666     \end{tabular}\par}%
19667     \vskip 1.5em%
19668     {\large \@date \par}%           % Set date in \large size.
19669 \end{center}\par
19670 \@thanks
19671 \vfil\null
19672 \end{titlepage}%

```



```

19673 \setcounter{footnote}{0}%
19674 \global\let\thanks\relax
19675 \global\let\LTRthanks\relax
19676 \global\let\RTLthanks\relax
19677 \global\let\maketitle\relax
19678 \global\let\@thanks\@empty
19679 \global\let\@author\@empty
19680 \global\let\@date\@empty
19681 \global\let\@title\@empty
19682 \global\let\title\relax
19683 \global\let\author\relax
19684 \global\let\date\relax
19685 \global\let\and\relax
19686 }
19687 \else
19688 \renewcommand\maketitle{\par
19689 \begingroup
19690 \renewcommand\thefootnote{\@fnsymbol\c@footnote}%
19691 \def\@makefnmark{\rlap{\@textsuperscript{\normalfont\@thefnmark}}}%
19692 \long\def\@makefntext##1{\parindent 1em\noindent
19693 \hb@xt@1.8em{%
19694 \hss\@textsuperscript{\normalfont\@thefnmark}}##1}%
19695 \if@twocolumn
19696 \ifnum \col@number=\@ne
19697 \@maketitle
19698 \else
19699 \twocolumn[\@maketitle]%
19700 \fi
19701 \else
19702 \newpage
19703 \global\@topnum\z@ % Prevents figures from going at top of page.
19704 \@maketitle
19705 \fi
19706 \thispagestyle{plain}\@thanks
19707 \endgroup
19708 \setcounter{footnote}{0}%
19709 \global\let\thanks\relax
19710 \global\let\LTRthanks\relax
19711 \global\let\RTLthanks\relax
19712 \global\let\maketitle\relax
19713 \global\let\@maketitle\relax
19714 \global\let\@thanks\@empty
19715 \global\let\@author\@empty
19716 \global\let\@date\@empty
19717 \global\let\@title\@empty
19718 \global\let\title\relax
19719 \global\let\author\relax
19720 \global\let\date\relax
19721 \global\let\and\relax
19722 }
19723 \def\@maketitle{%
19724 \newpage
19725 \null
19726 \vskip 2em%

```



```

19727 \begin{center}%
19728 \let \footnote \thanks
19729 \let \LTRfootnote \LTRthanks
19730 \let \RTLfootnote \RTLthanks
19731 {\LARGE \@title \par}%
19732 \vskip 1.5em%
19733 {\large
19734 \lineskip .5em%
19735 \begin{tabular}[t]{c}%
19736 \@author
19737 \end{tabular}\par}%
19738 \vskip 1em%
19739 {\large \@date}%
19740 \end{center}%
19741 \par
19742 \vskip 1.5em}
19743 \fi
19744 \renewcommand*\l@part[2]{%
19745 \ifnum \c@tocdepth >-2\relax
19746 \addpenalty{-\@highpenalty}%
19747 \addvspace{2.25em \@plus\p@}%
19748 \setlength\@tempdima{3em}%
19749 \begingroup
19750 \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
19751 \parfillskip -\@pnumwidth
19752 {\leavevmode
19753 \large \bfseries #1\hfil \hb@xt@\@pnumwidth{\hss #2}}\par
19754 \nobreak
19755 \global\@nobreaktrue
19756 \everypar{\global\@nobreakfalse\everypar{}}%
19757 \endgroup
19758 \fi}
19759 \renewcommand*\l@chapter[2]{%
19760 \ifnum \c@tocdepth >\m@ne
19761 \addpenalty{-\@highpenalty}%
19762 \vskip 1.0em \@plus\p@
19763 \setlength\@tempdima{1.5em}%
19764 \begingroup
19765 \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
19766 \parfillskip -\@pnumwidth
19767 \leavevmode \bfseries
19768 \advance\if@RTL\rightskip\else\leftskip\fi\@tempdima
19769 \hskip -\if@RTL\rightskip\else\leftskip\fi
19770 #1\nobreak\hfil \nobreak\hb@xt@\@pnumwidth{\hss #2}\par
19771 \penalty\@highpenalty
19772 \endgroup
19773 \fi}
19774 \renewcommand\left@footnoterule{%
19775 \kern-3\p@
19776 \hrule\@width.4\columnwidth
19777 \kern2.6\p@}
19778 \renewcommand\right@footnoterule{%
19779 \kern-3\p@
19780 \hbox to \columnwidth{\hskip .6\columnwidth \hrulefill }}

```



```

19781 \kern2.6\p@}
19782 \renewcommand\theequation
19783 {\ifnum \c@chapter>\z@ \thechapter\@SepMark\fi \@arabic\c@equation}
19784 \renewcommand \thefigure
19785 {\ifnum \c@chapter>\z@ \thechapter\@SepMark\fi \@arabic\c@figure}
19786 \renewcommand \thetable
19787 {\ifnum \c@chapter>\z@ \thechapter\@SepMark\fi \@arabic\c@table}
19788 \renewcommand \thechapter {\@arabic\c@chapter}
19789 \renewcommand \thesection {\thechapter\@SepMark\@arabic\c@section}
19790 \renewcommand\thesubsection {\thesection\@SepMark\@arabic\c@subsection}
19791 \renewcommand\thesubsubsection{\thesubsection \@SepMark\@arabic\c@subsubsection}
19792 \renewcommand\theparagraph {\thesubsubsection\@SepMark\@arabic\c@paragraph}
19793 \renewcommand\thesubparagraph {\theparagraph\@SepMark\@arabic\c@subparagraph}
19794 \def\@makechapterhead#1{%
19795 \vspace*{50\p@}%
19796 {\parindent \z@ \if@RTL\raggedleft\else\raggedright\fi \normalfont
19797 \ifnum \c@secnumdepth >\m@ne
19798 \huge\bfseries \@chapapp\space \thechapter
19799 \par\nobreak
19800 \vskip 20\p@
19801 \fi
19802 \interlinepenalty\@M
19803 \Huge \bfseries #1\par\nobreak
19804 \vskip 40\p@
19805 }}
19806 \def\@makeschapterhead#1{%
19807 \vspace*{50\p@}%
19808 {\parindent \z@ \if@RTL\raggedleft\else\raggedright\fi
19809 \normalfont
19810 \interlinepenalty\@M
19811 \Huge \bfseries #1\par\nobreak
19812 \vskip 40\p@
19813 }}
19814 \renewenvironment{thebibliography}[1]
19815 {\chapter*{\bibname}%
19816 \@mkboth{\MakeUppercase\bibname}{\MakeUppercase\bibname}%
19817 \if@RTL\if@LTRbibitems\@RTLfalse\else\fi\else\if@RTLbibitems\@RTLtrue\else\fi\fi
19818 \bidi@thebibliography@font@hook%
19819 \list{\@biblabel{\@arabic\c@enumiv}}%
19820 {\settowidth\labelwidth{\@biblabel{#1}}%
19821 \leftmargin\labelwidth
19822 \advance\leftmargin\labelsep
19823 \openbib@code
19824 \usecounter{enumiv}%
19825 \let\p@enumiv\@empty
19826 \renewcommand\theenumiv{\@arabic\c@enumiv}}%
19827 \sloppy
19828 \clubpenalty4000
19829 \@clubpenalty \clubpenalty
19830 \widowpenalty4000%
19831 \sfcode\.\@m}
19832 {\def\@noitemerr
19833 {\@latex@warning{Empty `thebibliography' environment}}}%
19834 \endlist}

```



## 140 File rotating-xetex-bidi.def

```

19835 \ProvidesFile{rotating-xetex-bidi.def}[2013/05/22 v0.2 bidi adaptations for rotating package]
19836 \def\end@rotfloat{%
19837   \end{minipage}\end{lrbox}%
19838   \stepcounter{r@tfl@t}%
19839   \rot@label{RF\ther@tfl@t}%
19840   \rot@pageref{RF\ther@tfl@t}{\R@@page}%
19841   \edef\@tempa{Adding sideways \capttype\space on page \R@@page\space}
19842   \rot@mess@toks\expandafter{\@tempa}
19843   \wd\rot@float@box\z@
19844   \ht\rot@float@box\z@
19845   \dp\rot@float@box\z@
19846   \vboxL to \textheight{%
19847     \setkeys{Grot}{units=360}%
19848     \if@rot@twoside
19849     \else
19850       \let\R@@page\rot@LR
19851     \fi
19852     \ifthenelse{\isodd{\R@@page}}{%
19853       \if@rot@twoside
19854         \rot@mess@toks\expandafter{\the\rot@mess@toks (right hand page)}%
19855       \fi
19856       \vfill
19857       @@line{%
19858         \hskip\rotFPtop
19859         \rotatebox{90}{\box\rot@float@box}%
19860         \hskip\rotFPbot
19861       }%
19862     }{%
19863       \if@rot@twoside
19864         \rot@mess@toks\expandafter{\the\rot@mess@toks (left hand page)}%
19865       \fi
19866       @@line{%
19867         \hskip\rotFPbot
19868         \rotatebox{-90}{\box\rot@float@box}%
19869         \hskip\rotFPtop
19870       }%
19871       \vfill
19872     }%
19873     \rot@message{\the\rot@mess@toks}
19874   }%
19875   \end@float
19876 }
19877 \let\endsidewaysfigure\end@rotfloat
19878 \let\endsidewaysstable\end@rotfloat
19879 \def\end@rotdblfloat{%
19880   \end{minipage}\end{lrbox}%
19881   \stepcounter{r@tfl@t}%
19882   \rot@label{RF\ther@tfl@t}%
19883   \rot@pageref{RF\ther@tfl@t}{\R@@page}%
19884   \edef\@tempa{Adding sideways \capttype\space on page \R@@page\space}
19885   \rot@mess@toks\expandafter{\@tempa}
19886   \@tempdima\ht\rot@float@box

```



```

19887 \advance\@tempdima by \dp\rot@float@box
19888 \wd\rot@float@box\z@
19889 \ht\rot@float@box\z@
19890 \dp\rot@float@box\z@
19891 \vboxL to \textheight{%
19892   \setkeys{Grot}{units=360}%
19893   \if@rot@twoside
19894   \else
19895     \let\R@@page\rot@LR
19896   \fi
19897   \ifthenelse{\isodd{\R@@page}}{%
19898     \ifrot@messages
19899     \if@rot@twoside
19900     \rot@mess@toks\expandafter{\the\rot@mess@toks (right hand page)}%
19901 \fi
19902   \fi
19903   \vfill
19904   \@@line{%
19905     \hskip\rotFPtop
19906     \rotatebox{90}{\box\rot@float@box}%
19907     \hskip\rotFPbot
19908   }%
19909 }{%
19910   \ifrot@messages
19911   \if@rot@twoside
19912   \rot@mess@toks\expandafter{\the\rot@mess@toks (left hand page)}%
19913 \fi
19914   \fi%
19915   \@@line{%
19916     \hskip\rotFPbot
19917     \rotatebox{-90}{\box\rot@float@box}%
19918     \hskip\rotFPtop
19919   }%
19920   \vfill
19921 }%
19922 \rot@message{\the\rot@mess@toks}%
19923 }%
19924 \end@dblfloat
19925 }
19926 \def\turn#1{%
19927   \Grot@setangle{#1}%
19928   \setbox\z@\color@hbox\ifmmode\if@RTL\beginR\fi\else\if@RTL\beginR\fi\fi\ignorespaces}
19929 \def\endturn{%
19930   \ifmmode\if@RTL\endR\fi\else\if@RTL\endR\fi\fi
19931   \unskip\color@endbox
19932   \Grot@x\z@
19933   \Grot@y\z@
19934   \ifmmode\else\if@RTL\beginL\fi\fi\Grot@box\ifmmode\else\if@RTL\endL\fi\fi
19935 }
19936 \def\rotate#1{%
19937   \Grot@setangle{#1}%
19938   \setbox\z@\color@hbox\ifmmode\if@RTL\beginR\fi\else\if@RTL\beginR\fi\fi\ignorespaces}
19939 \def\endrotate{%
19940   \ifmmode\if@RTL\endR\fi\else\if@RTL\endR\fi\fi

```



```

19941 \unskip\color@endbox
19942 \Grot@x\z@
19943 \Grot@y\z@
19944 \wd0\z@\dp0\z@\ht0\z@
19945 \ifmmode\else\if@RTL\beginL\fi\fi\Grot@box\ifmmode\else\if@RTL\endL\fi\fi
19946 }
19947 \def\turnbox#1#2{%
19948 \Grot@setangle{#1}%
19949 \setbox\z@\hbox{\ifmmode\if@RTL\beginR\fi\else\if@RTL\beginR\fi\fi#2\ifmmode\if@RTL\endR\fi\fi}
19950 \Grot@x\z@\Grot@y\z@
19951 \wd0\z@\dp0\z@\ht0\z@
19952 \ifmmode\else\if@RTL\beginL\fi\fi\Grot@box\ifmmode\else\if@RTL\endL\fi\fi
19953 }
19954 \def\sideways{%
19955 \Grot@setangle{90}%
19956 \setbox\z@\color@hbox\ifmmode\if@RTL\beginR\fi\else\if@RTL\beginR\fi\fi\ignorespaces}
19957 \def\endsideways{%
19958 \ifmmode\if@RTL\endR\fi\else\if@RTL\endR\fi\fi
19959 \unskip\color@endbox
19960 \Grot@x\z@
19961 \Grot@y\z@
19962 \ifmmode\else\if@RTL\beginL\fi\fi\Grot@box\ifmmode\else\if@RTL\endL\fi\fi
19963 }

```

## 141 File scrartcl-xetex-bidi.def

```

19964 \ProvidesFile{scrartcl-xetex-bidi.def}[2022/05/27 v1.3 bidi adaptations for scrartcl class f
19965 \newcommand{\scr@saved@LTRfootnotetext}{}
19966 \newcommand{\scr@saved@RTLfootnotetext}{}
19967 \let\scr@saved@footnotetext\@footnotetext
19968 \let\scr@saved@LTRfootnotetext\@LTRfootnotetext
19969 \let\scr@saved@RTLfootnotetext\@RTLfootnotetext
19970 \renewcommand{\@footnotetext}[1]{%
19971 \scr@saved@footnotetext{#1}%
19972 \csname FN@mfb@prepare\endcsname
19973 }
19974 \renewcommand{\@LTRfootnotetext}[1]{%
19975 \scr@saved@LTRfootnotetext{#1}%
19976 \csname FN@mfb@prepare\endcsname
19977 }
19978 \renewcommand{\@RTLfootnotetext}[1]{%
19979 \scr@saved@RTLfootnotetext{#1}%
19980 \csname FN@mfb@prepare\endcsname
19981 }
19982 \renewcommand\deffootnote[4][1]{%
19983 \expandafter\ifnum\scr@v@is@ge{3.22}\relax
19984 \long\def\@makefntext##1{%
19985 \ExecuteDoHook{footnote/text/begin}%
19986 \raggedfootnote
19987 \if@RTL
19988 \rightskip
19989 \else
19990 \leftskip
19991 \fi

```



```

19992      #2
19993      \l@addto@macro\@trivlist{%
19994          \ifnum\@listdepth=\@one
19995              \if@RTL
19996                  \advance\rightmargin #2\relax
19997              \else
19998                  \advance\leftmargin #2\relax
19999              \fi
20000          \fi
20001      }%
20002      \parindent #3\noindent
20003      \IfArgIsEmpty{#1}{}%
20004          \hskip \dimexpr #1-#2\relax
20005      }%
20006      \ftn@font\hbox to \z@{\hss\@makefnmark}##1%
20007      \ExecuteDoHook{footnote/text/end}%
20008  }%
20009  \else
20010      \ClassInfo{\KOMAClassName}{%
20011          Using old \string\@makefnmark\space due to compatibility
20012          level\MessageBreak
20013          less than 3.22}%
20014      \long\def\@makefnmark##1{%
20015          \setlength{\@tempdimc}{#3}%
20016          \def\@tempa{#1}\ifx\@tempa\@empty
20017              \setpar{\@par
20018                  \@tempdima = \hsize
20019                  \addtolength{\@tempdima}{-#2}%
20020                  \if@RTL
20021                      \parshape \@one \z@ \@tempdima
20022                  \else
20023                      \parshape \@one #2 \@tempdima
20024                  \fi}%
20025          \else
20026              \addtolength{\@tempdimc}{#2}%
20027              \addtolength{\@tempdimc}{-#1}%
20028              \setpar{\@par
20029                  \@tempdima = \hsize
20030                  \addtolength{\@tempdima}{-#1}%
20031                  \@tempdimb = \hsize
20032                  \addtolength{\@tempdimb}{-#2}%
20033                  \if@RTL
20034                      \parshape \tw@ \z@ \@tempdima \z@ \@tempdimb
20035                  \else
20036                      \parshape \tw@ #1 \@tempdima #2 \@tempdimb
20037                  \fi
20038              }%
20039          \fi
20040      \par
20041      \parindent\@tempdimc\noindent
20042      \ftn@font\hbox to \z@{\hss\@makefnmark}##1%
20043  }%
20044  \fi
20045  \def\@makefnmark{\hbox{\ftn@font{#4}}}%

```





```

20046 }
20047 \deffootnote[1em]{1.5em}{1em}{\textsuperscript{\thefootnotemark}}
20048 \renewcommand*\left@footnoterule{%
20049   \normalsize\ftn@rule@test@values
20050   \kern-\dimexpr 2.6\p@+\ftn@rule@height\relax
20051   \ifx\@textbottom\relax\else\vskip \z@ \@plus.05fil\fi
20052   {\usekomafont{footnoterule}{%
20053     \hrule \@height\ftn@rule@height \@width\ftn@rule@width}}}%
20054   \kern 2.6\p@}
20055 \renewcommand*\right@footnoterule{%
20056   \normalsize\ftn@rule@test@values
20057   \kern-\dimexpr 2.6\p@+\ftn@rule@height\relax
20058   \ifx\@textbottom\relax\else\vskip \z@ \@plus.05fil\fi
20059   {\usekomafont{footnoterule}{%
20060     \hbox to \columnwidth{\hskip \dimexpr\columnwidth-\ftn@rule@width\relax \leavevmode\l
20061     \kern 2.6\p@}
20062 \renewcommand*\maketitle[1][1]{%
20063   \expandafter\ifnum \cscname scr@v3.12\endcsname>\scr@compatibility\relax
20064   \else
20065     \def\and{%
20066       \end{tabular}%
20067       \hskip 1em \@plus.17fil%
20068       \begin{tabular}[t]{c}%
20069     }%
20070   \fi
20071   \if@titlepage
20072     \begin{titlepage}
20073       \setcounter{page}{%
20074         #1%
20075       }%
20076       \if@titlepageiscoverpage
20077         \edef\titlename@restore{%
20078           \noexpand\endgroup
20079           \noexpand\global\noexpand\@colht\the\@colht
20080           \noexpand\global\noexpand\@colroom\the\@colroom
20081           \noexpand\global\vsizethe\vsizethe
20082           \noexpand\global\noexpand\@titlepageiscoverpagefalse
20083           \noexpand\let\noexpand\titlename@restore\noexpand\relax
20084         }%
20085         \begin{group}
20086           \topmargin=\dimexpr \coverpagetopmargin-1in\relax
20087           \oddsidemargin=\dimexpr \coverpageleftmargin-1in\relax
20088           \evensidemargin=\dimexpr \coverpageleftmargin-1in\relax
20089           \textwidth=\dimexpr
20090           \paperwidth-\coverpageleftmargin-\coverpagerightmargin\relax
20091           \textheight=\dimexpr
20092           \paperheight-\coverpagetopmargin-\coverpagebottommargin\relax
20093           \headheight=0pt
20094           \headsep=0pt
20095           \footskip=\baselineskip
20096           \@colht=\textheight
20097           \@colroom=\textheight
20098           \vsizethe\textheight
20099           \columnwidth=\textwidth

```



```

20100         \hsize=\columnwidth
20101         \linewidth=\hsize
20102     \else
20103         \let\titlepage@restore\relax
20104     \fi
20105     \let\footnotesize\small
20106     \let\right@footnoterule\relax
20107     \let\left@footnoterule\relax
20108     \let\textwidth@footnoterule\relax
20109     \let\footnote\thanks
20110     \let\LTRfootnote\LTRthanks
20111     \let\RTLfootnote\RTLthanks
20112     \renewcommand*\thefootnote{\@fnsymbol\c@footnote}%
20113     \let\oldmakefnmark\makefnmark
20114     \renewcommand*{\@makefnmark}{\rlap{\oldmakefnmark}}%
20115     \ifx\extratitle\empty
20116         \ifx\frontispiece\empty
20117         \else
20118             \if@twoside\mbox{}\next@tpage\fi
20119             \noindent\@frontispiece\next@tdpage
20120         \fi
20121     \else
20122         \noindent\extratitle
20123         \ifx\frontispiece\empty
20124         \else
20125             \next@tpage
20126             \noindent\@frontispiece
20127         \fi
20128         \next@tdpage
20129     \fi
20130     \setparsizes{\z@}{\z@}{\z@ \@plus 1fil}\par@updateerelative
20131     \ifx\titlehead\empty \else
20132         \begin{minipage}[t]{\textwidth}%
20133             \usekomafont{titlehead}{\@titlehead\par}%
20134         \end{minipage}\par
20135     \fi
20136     \null\vfill
20137     \begin{center}
20138         \ifx\subject\empty \else
20139             {\usekomafont{subject}{\@subject\par}}%
20140             \vskip 3em
20141         \fi
20142         {\usekomafont{title}{\huge \@title\par}}%
20143         \vskip 1em
20144         {\ifx\subtitle\empty\else\usekomafont{subtitle}{\@subtitle\par}\fi}%
20145         \vskip 2em
20146         {%
20147             \usekomafont{author}{%
20148                 \lineskip 0.75em
20149                 \begin{tabular}[t]{c}
20150                     \@author
20151                 \end{tabular}\par
20152             }%
20153         }%

```



```

20154      \vskip 1.5em
20155      {\usekomafont{date}{\@date \par}}%
20156      \vskip \z@ \@plus3fill
20157      {\usekomafont{publishers}{\@publishers \par}}%
20158      \vskip 3em
20159      \end{center}\par
20160      \@thanks\global\let\@thanks\@empty
20161      \vfill\null
20162      \if@twoside
20163        \@tempwattrue
20164        \expandafter\ifnum \@nameuse{scr@v@3.12}>\scr@compatibility\relax
20165        \else
20166          \ifx\@uppertitleback\@empty\ifx\@lowertitleback\@empty
20167            \@tempwafalse
20168          \fi\fi
20169        \fi
20170        \if@tempwa
20171          \next@tpage
20172          \begin{minipage}[t]{\textwidth}
20173            \@uppertitleback
20174          \end{minipage}\par
20175          \vfill
20176          \begin{minipage}[b]{\textwidth}
20177            \@lowertitleback
20178          \end{minipage}\par
20179          \@thanks\global\let\@thanks\@empty
20180        \fi
20181      \else
20182        \ifx\@uppertitleback\@empty\else
20183          \ClassWarning{\KOMAClassName}{%
20184            non empty \string\uppertitleback\space ignored
20185            by \string\maketitle\MessageBreak
20186            in `twoside=false' mode%
20187          }%
20188        \fi
20189        \ifx\@lowertitleback\@empty\else
20190          \ClassWarning{\KOMAClassName}{%
20191            non empty \string\lowertitleback\space ignored
20192            by \string\maketitle\MessageBreak
20193            in `twoside=false' mode%
20194          }%
20195        \fi
20196      \fi
20197      \ifx\@dedication\@empty
20198      \else
20199        \next@tdpage\null\vfill
20200        {\centering\usekomafont{dedication}{\@dedication \par}}%
20201        \vskip \z@ \@plus3fill
20202        \@thanks\global\let\@thanks\@empty
20203        \cleardoubleemptypage
20204      \fi
20205      \ifx\titlepage@restore\relax\else\clearpage\titlepage@restore\fi
20206    \end{titlepage}
20207  \else

```



```

20208 \par
20209 \@tempcnta=%
20210 #1%
20211 \relax\ifnum\@tempcnta=1\else
20212 \ClassWarning{\KOMAClassName}{%
20213 Optional argument of \string\maketitle\space ignored\MessageBreak
20214 in `titlepage=false' mode%
20215 }%
20216 \fi
20217 \ifx\@uppertitleback\@empty\else
20218 \ClassWarning{\KOMAClassName}{%
20219 non empty \string\uppertitleback\space ignored
20220 by \string\maketitle\MessageBreak
20221 in `titlepage=false' mode%
20222 }%
20223 \fi
20224 \ifx\@lowertitleback\@empty\else
20225 \ClassWarning{\KOMAClassName}{%
20226 non empty \string\lowertitleback\space ignored
20227 by \string\maketitle\MessageBreak
20228 in `titlepage=false' mode%
20229 }%
20230 \fi
20231 \begingroup
20232 \let\titlename\@restore\relax
20233 \renewcommand*\thefootnote{\@fnsymbol\c@footnote}%
20234 \let\@oldmakefnmark\@makefnmark
20235 \renewcommand*{\@makefnmark}{\rlap{\@oldmakefnmark}}%
20236 \next@tdpage
20237 \if@twocolumn
20238 \ifnum \col@number=\@one
20239 \ifx\@extratitle\@empty
20240 \ifx\@frontispiece\@empty\else\if@twoside\mbox{}\fi\fi
20241 \else
20242 \@makeextratitle
20243 \fi
20244 \ifx\@frontispiece\@empty
20245 \ifx\@extratitle\@empty\else\next@tdpage\fi
20246 \else
20247 \next@tpage
20248 \@makefrontispiece
20249 \next@tdpage
20250 \fi
20251 \@maketitle
20252 \else
20253 \ifx\@extratitle\@empty
20254 \ifx\@frontispiece\@empty\else\if@twoside\mbox{}\fi\fi
20255 \else
20256 \twocolumn[\@makeextratitle]%
20257 \fi
20258 \ifx\@frontispiece\@empty
20259 \ifx\@extratitle\@empty\else\next@tdpage\fi
20260 \else
20261 \next@tpage

```



```

20262         \twocolumn[\@makefrontispiece]%
20263         \next@tdpage
20264     \fi
20265     \twocolumn[\@maketitle]%
20266 \fi
20267 \else
20268     \ifx\@extratitle\@empty
20269     \ifx\@frontispiece\@empty\else \mbox{}\fi
20270     \else
20271         \@makeextratitle
20272     \fi
20273     \ifx\@frontispiece\@empty
20274     \ifx\@extratitle\@empty\else\next@tdpage\fi
20275     \else
20276         \next@tpage
20277         \@makefrontispiece
20278         \next@tdpage
20279     \fi
20280     \@maketitle
20281 \fi
20282     \ifx\titlepagestyle\@empty\else\thispagestyle{\titlepagestyle}\fi
20283     \@thanks\global\let\@thanks\@empty
20284 \endgroup
20285 \fi
20286 \setcounter{footnote}{0}%
20287 \expandafter\ifnum \csname scr@v@3.12\endcsname>\scr@compatibility\relax
20288     \let\thanks\relax
20289     \let\LTRthanks\relax
20290     \let\RTLthanks\relax
20291     \let\maketitle\relax
20292     \let\@maketitle\relax
20293     \global\let\@thanks\@empty
20294     \global\let\@author\@empty
20295     \global\let\@date\@empty
20296     \global\let\@title\@empty
20297     \global\let\@subtitle\@empty
20298     \global\let\@extratitle\@empty
20299     \global\let\@frontispiece\@empty
20300     \global\let\@titlehead\@empty
20301     \global\let\@subject\@empty
20302     \global\let\@publishers\@empty
20303     \global\let\@uppertitleback\@empty
20304     \global\let\@lowertitleback\@empty
20305     \global\let\@dedication\@empty
20306     \global\let\author\relax
20307     \global\let\title\relax
20308     \global\let\extratitle\relax
20309     \global\let\titlehead\relax
20310     \global\let\subject\relax
20311     \global\let\publishers\relax
20312     \global\let\uppertitleback\relax
20313     \global\let\lowertitleback\relax
20314     \global\let\dedication\relax
20315     \global\let\date\relax

```



```

20316 \fi
20317 \global\let\and\relax
20318 }%
20319 \def\raggedsection{\if@RTL\raggedleft\else\raggedright\fi}
20320 \def\raggedpart{\if@RTL\raggedleft\else\raggedright\fi}
20321 \renewcommand*\autodot{\if@altsecnumformat@SepMark\fi}
20322 \renewcommand*{\thesubsection}{\thesection@SepMark@arabic@c@subsection}
20323 \renewcommand*{\thesubsubsection}{%
20324 \thesubsection@SepMark@arabic@c@subsubsection
20325 }
20326 \renewcommand*{\theparagraph}{\thesubsubsection@SepMark@arabic@c@paragraph}
20327 \renewcommand*{\thesubparagraph}{%
20328 \theparagraph@SepMark@arabic@c@subparagraph
20329 }
20330 \renewenvironment{thebibliography}[1]{%
20331 \if@bib@break@
20332 \bib@beginhook
20333 \else
20334 \bib@heading
20335 \ifx\bibpreamble\relax\else\ifx\bibpreamble@empty\else
20336 \noindent\bibpreamble\par\nobreak
20337 \fi\fi
20338 \bib@beginhook
20339 \bib@before@hook
20340 \fi
20341 \renewcommand{\BreakBibliography}[1]{%
20342 \@bib@break
20343 \end{thebibliography}%
20344 \begingroup ##1\endgroup
20345 \begin{thebibliography}{#1}
20346 }%
20347 \if@RTL\if@LTRbibitems@RTLfalse\else\fi\else\if@RTLbibitems@RTLtrue\else\fi\fi
20348 \bidi@thebibliography@font@hook%
20349 \list{%
20350 \@biblabel{\@arabic@c@enumiv}%
20351 }{%
20352 \settowidth\labelwidth{\@biblabel{#1}}%
20353 \leftmargin\labelwidth
20354 \advance\leftmargin\labelsep
20355 \@openbib@code
20356 \if@bib@break@
20357 \edef\@tempa{%
20358 \noexpand\usecounter{enumiv}%
20359 \noexpand\setcounter{enumiv}{\the@c@enumiv}%
20360 }\@tempa
20361 \no@bib@break
20362 \else
20363 \usecounter{enumiv}%
20364 \fi
20365 \let\p@enumiv@empty
20366 \renewcommand*\theenumiv{\@arabic@c@enumiv}%
20367 }%
20368 \sloppy\clubpenalty4000 \widowpenalty4000
20369 \sfcode`\.=\@m

```



```

20370 }{%
20371 \if@bib@break@
20372 \def\@noitemerr{%
20373 \latex@warning{%
20374 \string\BreakBibliography\space at begin of `thebibliography'
20375 environment\MessageBreak
20376 or following \string\BreakBibliography}%
20377 }%
20378 \else
20379 \def\@noitemerr{%
20380 \latex@warning{%
20381 Empty `thebibliography' environment or
20382 \string\BreakBibliography\MessageBreak
20383 before end of `thebibliography' environment}%
20384 }%
20385 \fi
20386 \endlist
20387 \if@bib@break@
20388 \else
20389 \bib@after@hook
20390 \let\bib@before@hook\@empty
20391 \let\bib@after@hook\@empty
20392 \fi
20393 \bib@endhook
20394 }
20395 \renewcommand*{\raggeddictum}{\if@RTL\raggedright\else\raggedleft\fi}
20396 \renewcommand*{\raggeddictumtext}{\if@RTL\raggedleft\else\raggedright\fi}
20397 \renewcommand*{\raggeddictumauthor}{\if@RTL\raggedright\else\raggedleft\fi}
20398 \renewcommand\marginline[1]{%
20399 \marginpar[\if@RTL\raggedright\else\raggedleft\fi{#1}]{\if@RTL\raggedleft\else\raggedright
20400 }
20401 \renewcommand{\@makecaption}[3]{%
20402 \cap@margin
20403 \begingroup
20404 \ifonelinecaptions
20405 \def\stepcounter##1{\advance\value{##1}\@ne}%
20406 \let\refstepcounter\stepcounter
20407 \let\label\@gobble
20408 \let\@footnotetext=\@gobble
20409 \let\@LTRfootnotetext=\@gobble
20410 \let\@RTLfootnotetext=\@gobble
20411 \let\hypertarget\@gobbletwo
20412 \edef\@xnewline{%
20413 \unexpanded{\ClassInfo{\KOMAClassName}{%
20414 Workaround for not recommended usage of \string\\ or\MessageBreak
20415 \string\newline in caption text
20416 }%
20417 \hspace*{\linewidth}\hspace{1sp}%
20418 }%
20419 \unexpanded\expandafter{\@xnewline}%
20420 }%
20421 \edef\@xcentercr{%
20422 \unexpanded{\ClassInfo{\KOMAClassName}{%
20423 Workaround for not recommended usage of \string\\ or\MessageBreak

```



```

20424         \string\newline in caption text
20425     }%
20426     \hspace*{\linewidth}\hspace{1sp}%
20427 }%
20428 \unexpanded\expandafter{\@xcentercr}%
20429 }%
20430 \settowidth{\@tempdima}{\scr@makesinglelinecaption{#1}{#2}{#3}}%
20431 \ifdim\@tempdima>\cap@width
20432     \aftergroup\scr@makemultilinecaption
20433 \else
20434     \aftergroup\scr@makesinglelinecaption
20435 \fi
20436 \else
20437     \aftergroup\scr@makemultilinecaption
20438 \fi
20439 \endgroup
20440 {#1}{#2}{#3}%
20441 }
20442 \renewcommand{\scr@makesinglelinecaption}[3]{%
20443     {%
20444         \usefontofkomafont{caption}{%
20445             \hb@xt@{\hsize}{%
20446                 \cap@left
20447                 \if@RTL
20448                     \beginR
20449                     \fi
20450                 \scr@makesinglelinecaption{#1}{#2}{#3}%
20451                 \if@RTL
20452                     \endR
20453                 \fi
20454                 \cap@right
20455             }\par\kern\dp\strutbox%
20456         }%
20457     }\kern-\dp\strutbox
20458 }
20459 \renewcommand{\@makecaption}[2]{%
20460     \if@captionabove
20461         \vskip\belowcaptionskip
20462     \else
20463         \vskip\abovecaptionskip
20464     \fi
20465     \@makecaption\@firstofone{#1}{#2}%
20466     \if@captionabove
20467         \vskip\abovecaptionskip
20468     \else
20469         \vskip\belowcaptionskip
20470     \fi
20471 }
20472
20473 \renewcommand{\scr@makesinglelinecaption}[3]{%
20474     {\usekomafont{caption}{\strut\ignorespaces
20475         #1{\usekomafont{captionlabel}{#2\captionformat}}}%
20476     \ignorespaces #3\unskip}}%
20477 }

```





```

20478
20479 \renewcommand{\scr@makemultilinecaption}[3]{%
20480   {%
20481     \usefontofkomafont{caption}{%
20482       \hb@xt@{hsize}{%
20483         \cap@left
20484         \vbox{hsize\cap@width\linewidthhsize
20485           \scr@ifundefinedorrelax{@capttype}{%
20486             \ClassWarning{KOMAClassName}{%
20487               `string\caption' outside float.\MessageBreak
20488               Seems you are using `string\caption' outside a
20489               float.\MessageBreak
20490               Maybe you are using a package that uses
20491               `string\@makecaption'\MessageBreak
20492               without setting `string\@capttype' before.\MessageBreak
20493               Because I cannot detect the caption type, I'm using\MessageBreak
20494               the empty one.%
20495             }%
20496             \let\@capttype\@empty
20497           }{}%
20498           \scr@ifundefinedorrelax{ragged\@capttype caption}{\raggedcaption}{%
20499             \@nameuse{ragged\@capttype caption}%
20500           }%
20501           \ifdofullc@p
20502             \@hangfrom{%
20503               \strut
20504               \scr@smashdp{%
20505                 #1{%
20506                   \usekomafont{caption}{%
20507                     \usekomafont{captionlabel}{#2\captionformat}%
20508                   }%
20509                 }%
20510               }%
20511             }%
20512             {{\usekomafont{caption}{#3\scr@endstrut}}\par}%
20513           \else
20514             \ifdim\cap@indent<\z@
20515               \strut
20516               #1{%
20517                 {\usekomafont{caption}{%
20518                   \usekomafont{captionlabel}{#2\captionformat}%
20519                 }%
20520               }\par}%
20521             \noindent{{\usekomafont{caption}{%
20522               \hspace*{-\cap@indent}#3\scr@endstrut
20523             }}\par}%
20524           \else
20525             \if@capbreak
20526               \strut
20527               #1{%
20528                 {\usekomafont{caption}{%
20529                   \usekomafont{captionlabel}{#2\captionformat}%
20530                 }%
20531               }\par}%

```



```

20532         \noindent\@hangfrom{\hspace*{\cap@indent}}%
20533         {{\usekomafont{caption}{#3\scr@endstrut}}\par}%
20534     \else
20535         \@hangfrom{\scr@smashdp\strut\hspace*{\cap@indent}}%
20536         {%
20537             \hspace{-\cap@indent}%
20538             \scr@smashdp{%
20539                 #1{\usekomafont{caption}{%
20540                     \usekomafont{captionlabel}{#2\captionformat}%
20541                 }}%
20542             }%
20543         }%
20544         {{\usekomafont{caption}{#3\scr@endstrut}}\par}%
20545     }%
20546     \fi
20547     \fi
20548     \fi
20549     }%
20550     \cap@right
20551 } \par \kern \dp \strutbox
20552 }%
20553 } \kern - \dp \strutbox
20554 }
20555
20556 \bidi@AfterFile{longtable-xetex-bidi.def}{%
20557     \if@komalongtable
20558         \renewcommand{\LT@makecaption}[3]{%
20559             \noalign{%
20560                 \if@captionabove
20561                     \vskip\belowcaptionskip
20562                 \else
20563                     \vskip\abovecaptionskip
20564                 \fi
20565             }%
20566             \LT@mcol\LT@cols c{%
20567                 \hbox to\z@{\hss\parbox[t]{\linewidth{%
20568                     \def\@capytype{table}%
20569                     \@@makecaption{#1}{#2}{#3}%
20570                     \endgraf
20571                     \if@captionabove
20572                         \vskip\abovecaptionskip
20573                     \else
20574                         \vskip\belowcaptionskip
20575                     \fi
20576                 }}%
20577                 \hss
20578             }%
20579         }%
20580     }%
20581     \renewcommand*{\scr@LT@array}{}%
20582     \let\scr@LT@array=\LT@array
20583     \renewcommand*{\LT@array}{%
20584         \let\scr@caption=\LT@caption
20585         \def\captionabove{\noalign{\global\@captionabovetrue}%

```



```

20586         \scr@caption}%
20587     \def\captionbelow{\noalign{\global\@captionabovefalse}%
20588         \scr@caption}%
20589     \if@tablecaptionabove
20590         \let\LT@caption=\captionabove
20591     \else
20592         \let\LT@caption=\captionbelow
20593     \fi
20594     \scr@LT@array
20595 }%
20596 \ClassInfo{\KOMAClassName}{%
20597     longtable captions redefined%
20598 }%
20599 \fi
20600 }
20601
20602 \CloneTOCEntryStyle{tocline}{part}
20603 \TOCEntryStyleStartInitCode{part}{%
20604     \expandafter\renewcommand%
20605     \csname scr@tso@#1@linefill\endcsname{\hfill}%
20606     \expandafter\renewcommand%
20607     \csname scr@tso@#1@entryformat\endcsname[1]{\usekomafont{partentry}{##1}}%
20608     \expandafter\renewcommand%
20609     \csname scr@tso@#1@pagenumberformat\endcsname[1]{%
20610         {\usekomafont{partentry}{\usekomafont{partentrypagenumber}{##1}}}%
20611     \expandafter\renewcommand\expandafter*%
20612     \csname scr@tso@#1@beforeskip\endcsname{2.25em \@plus\p@}%
20613 }
20614
20615 \CloneTOCEntryStyle{tocline}{section}
20616 \TOCEntryStyleStartInitCode{section}{%
20617     \expandafter\renewcommand%
20618     \csname scr@tso@#1@linefill\endcsname{%
20619         \if@sectionentrywithdots
20620             {\usekomafont{sectionentrydots}{\TOCLineLeaderFill}}\relax
20621         \else
20622             \hfill
20623         \fi
20624     }%
20625     \expandafter\renewcommand%
20626     \csname scr@tso@#1@entryformat\endcsname{\usekomafont{sectionentry}}%
20627     \expandafter\renewcommand%
20628     \csname scr@tso@#1@pagenumberformat\endcsname[1]{\usekomafont{sectionentry}{\usekomafont{
20629     \expandafter\renewcommand\expandafter*%
20630     \csname scr@tso@#1@beforeskip\endcsname{1.0em \@plus\p@}%
20631 }
20632
20633 \CloneTOCEntryStyle{tocline}{subsection}
20634 \TOCEntryStyleStartInitCode{subsection}{%
20635     \expandafter\renewcommand%
20636     \csname scr@tso@#1@linefill\endcsname{\TOCLineLeaderFill\relax}%
20637     \expandafter\renewcommand%
20638     \csname scr@tso@#1@pagenumberformat\endcsname[1]{%
20639         {\normalfont\normalcolor ##1}}%

```



```

20640 }
20641
20642 \CloneTOCEntryStyle{subsection}{default}
20643
20644 \DeclareSectionCommand[%
20645   style=section,%
20646   level=1,%
20647   indent=\z@,%
20648   beforeskip=-3.5ex \@plus -1ex \@minus -.2ex,%
20649   afterskip=2.3ex \@plus .2ex,%
20650   tocstyle=section,%
20651   tocindent=0pt,%
20652   tocnumwidth=1.5em%
20653 ]{section}
20654 \DeclareSectionCommand[%
20655   style=part,%
20656   level=\z@,%
20657   tocstyle=part,%
20658   toplevel=\m@ne,%
20659   tocindent=\z@,%
20660   tocnumwidth=2em%
20661 ]{part}
20662 \DeclareSectionCommand[%
20663   style=section,%
20664   level=2,%
20665   indent=\z@,%
20666   beforeskip=-3.25ex \@plus -1ex \@minus -.2ex,%
20667   afterskip=1.5ex \@plus .2ex,%
20668   tocstyle=subsection,%
20669   tocindent=1.5em,%
20670   tocnumwidth=2.3em%
20671 ]{subsection}
20672 \DeclareSectionCommand[%
20673   style=section,%
20674   level=3,%
20675   indent=\z@,%
20676   beforeskip=-3.25ex \@plus -1ex \@minus -.2ex,%
20677   afterskip=1.5ex \@plus .2ex,%
20678   tocstyle=subsection,%
20679   tocindent=3.8em,%
20680   tocnumwidth=3.2em%
20681 ]{subsubsection}
20682 \DeclareSectionCommand[%
20683   style=section,%
20684   level=4,%
20685   indent=\z@,%
20686   beforeskip=3.25ex \@plus 1ex \@minus .2ex,%
20687   afterskip=-1em,%
20688   tocstyle=subsection,%
20689   tocindentfollows=subsubsection,%
20690   tocindent=7.0em,%
20691   tocnumwidth=4.1em%
20692 ]{paragraph}
20693 \DeclareSectionCommand[%

```



```

20694 style=section,%
20695 level=5,%
20696 indent=\scr@parindent,%
20697 beforeskip=3.25ex \@plus1ex \@minus .2ex,%
20698 afterskip=-1em,%
20699 tocstyle=subsection,%
20700 tocindent=10em,%
20701 tocnumwidth=5em%
20702 ]{subparagraph}

```

## 142 File scrbook-xetex-bidi.def

```

20703 \ProvidesFile{scrbook-xetex-bidi.def}[2022/05/27 v1.3 bidi adaptations for scrbook class for
20704 \newcommand{\scr@saved@LTRfootnotetext}{}
20705 \newcommand{\scr@saved@RTLfootnotetext}{}
20706 \let\scr@saved@footnotetext\@footnotetext
20707 \let\scr@saved@LTRfootnotetext\@LTRfootnotetext
20708 \let\scr@saved@RTLfootnotetext\@RTLfootnotetext
20709 \renewcommand{\@footnotetext}[1]{%
20710   \scr@saved@footnotetext{#1}%
20711   \csname FN@mfb@prepare\endcsname
20712 }
20713 \renewcommand{\@LTRfootnotetext}[1]{%
20714   \scr@saved@LTRfootnotetext{#1}%
20715   \csname FN@mfb@prepare\endcsname
20716 }
20717 \renewcommand{\@RTLfootnotetext}[1]{%
20718   \scr@saved@RTLfootnotetext{#1}%
20719   \csname FN@mfb@prepare\endcsname
20720 }
20721 \renewcommand\deffootnote[4][1]{%
20722   \expandafter\ifnum\scr@v@is@ge{3.22}\relax
20723     \long\def\@makefntext##1{%
20724       \ExecuteDoHook{footnote/text/begin}%
20725       \raggedfootnote
20726       \ifRTL
20727         \rightskip
20728       \else
20729         \leftskip
20730       \fi
20731       #2
20732       \l@addto@macro\@trivlist{%
20733         \ifnum\@listdepth=\@ne\advance
20734           \ifRTL
20735             \rightmargin #2\relax
20736           \else
20737             \leftmargin #2\relax
20738           \fi
20739       }%
20740       \parindent #3\noindent
20741       \IfArgIsEmpty{#1}{}{%
20742         \hspace \dimexpr #1-#2\relax
20743       }%
20744

```



```

20745 \ftn@font\hbox to \z@{\hss\@makefnmark}##1%
20746 \ExecuteDoHook{footnote/text/end}%
20747 }%
20748 \else
20749 \ClassInfo{\KOMAClassName}{%
20750 Using old \string\@makefnmark\space due to compatibility
20751 level\MessageBreak
20752 less than 3.22}%
20753 \long\def\@makefnmark##1{%
20754 \setlength{\@tempdimc}{#3}%
20755 \def\@tempa{#1}\ifx\@tempa\@empty
20756 \setpar{\@par
20757 \@tempdima = \hsize
20758 \addtolength{\@tempdima}{-#2}%
20759 \if@RTL
20760 \parshape \@ne \z@ \@tempdima
20761 \else
20762 \parshape \@ne #2 \@tempdima
20763 \fi
20764 }%
20765 \else
20766 \addtolength{\@tempdimc}{#2}%
20767 \addtolength{\@tempdimc}{-#1}%
20768 \setpar{\@par
20769 \@tempdima = \hsize
20770 \addtolength{\@tempdima}{-#1}%
20771 \@tempdimb = \hsize
20772 \addtolength{\@tempdimb}{-#2}%
20773 \if@RTL
20774 \parshape \tw@ \z@ \@tempdima \z@ \@tempdimb
20775 \else
20776 \parshape \tw@ #1 \@tempdima #2 \@tempdimb
20777 \fi
20778 }%
20779 \fi
20780 \par
20781 \parindent\@tempdimc\noindent
20782 \ftn@font\hbox to \z@{\hss\@makefnmark}##1%
20783 }%
20784 \fi
20785 \def\@makefnmark{\hbox{\ftn@font{#4}}}%
20786 }
20787 \deffootnote[1em]{1.5em}{1em}{\textsuperscript{\thefootnotemark}}
20788 \renewcommand*\left@footnoterule{%
20789 \normalsize\ftn@rule@test@values
20790 \kern-\dimexpr 2.6\p@+\ftn@rule@height\relax
20791 \ifx\@textbottom\relax\else\vskip \z@ \@plus.05fil\fi
20792 {\usekomafont{footnoterule}{%
20793 \hrule \@height\ftn@rule@height \@width\ftn@rule@width}}%
20794 \kern 2.6\p@}
20795 \renewcommand*\right@footnoterule{%
20796 \normalsize\ftn@rule@test@values
20797 \kern-\dimexpr 2.6\p@+\ftn@rule@height\relax
20798 \ifx\@textbottom\relax\else\vskip \z@ \@plus.05fil\fi

```



```

20799 {\usekomafont{footnoterule}}{%
20800     \hbox to \columnwidth{\hskip \dimexpr\columnwidth-\ftn@rule@width\relax \leavevmode\
20801     \kern 2.6\p@}
20802 \renewcommand*\maketitle[1][1]{%
20803     \expandafter\ifnum \csname scr@v@3.12\endcsname>\scr@compatibility\relax
20804     \else
20805         \def\and{%
20806             \end{tabular}%
20807             \hskip 1em \@plus.17fil%
20808             \begin{tabular}[t]{c}%
20809         }%
20810     \fi
20811     \if@titlepage
20812         \begin{titlepage}
20813             \setcounter{page}{%
20814                 #1%
20815             }%
20816             \if@titlepageiscoverpage
20817                 \edef\tITLEPAGE@restore{%
20818                     \noexpand\endgroup
20819                     \noexpand\global\noexpand\@colht\the\@colht
20820                     \noexpand\global\noexpand\@colroom\the\@colroom
20821                     \noexpand\global\vsizethe\vsizethe
20822                     \noexpand\global\noexpand\@titlepageiscoverpagefalse
20823                     \noexpand\let\noexpand\tITLEPAGE@restore\noexpand\relax
20824                 }%
20825                 \begin{group}
20826                     \topmargin=\dimexpr \coverpagetopmargin-1in\relax
20827                     \oddsidemargin=\dimexpr \coverpageleftmargin-1in\relax
20828                     \evensidemargin=\dimexpr \coverpageleftmargin-1in\relax
20829                     \textwidth=\dimexpr
20830                     \paperwidth-\coverpageleftmargin-\coverpagerightmargin\relax
20831                     \textheight=\dimexpr
20832                     \paperheight-\coverpagetopmargin-\coverpagebottommargin\relax
20833                     \headheight=0pt
20834                     \headsep=0pt
20835                     \footskip=\baselineskip
20836                     \@colht=\textheight
20837                     \@colroom=\textheight
20838                     \vsizethe\textheight
20839                     \columnwidth=\textwidth
20840                     \hsize=\columnwidth
20841                     \linewidth=\hsize
20842                 \else
20843                     \let\tITLEPAGE@restore\relax
20844                 \fi
20845                 \let\footnotesize\small
20846                 \let\right@footnoterule\relax
20847                 \let\left@footnoterule\relax
20848                 \let\textwidth@footnoterule\relax
20849                 \let\footnote\thanks
20850                 \let\LTRfootnote\LTRthanks
20851                 \let\RTLfootnote\RTLthanks
20852                 \renewcommand*\thefootnote{\@fnsymbol\c@footnote}%

```



```

20853 \let\@oldmakefnmark\@makefnmark
20854 \renewcommand*{\@makefnmark}{\rlap\@oldmakefnmark}%
20855 \ifx\@extratitle\@empty
20856   \ifx\@frontispiece\@empty
20857     \else
20858       \if@twoside\mbox{}\next@tpage\fi
20859       \noindent\@frontispiece\next@tdpage
20860     \fi
20861   \else
20862     \noindent\@extratitle
20863     \ifx\@frontispiece\@empty
20864       \else
20865         \next@tpage
20866         \noindent\@frontispiece
20867       \fi
20868     \next@tdpage
20869   \fi
20870 \setparsizes{\z@}{\z@}{\z@\@plus 1fil}\par@updaterelative
20871 \ifx\@titlehead\@empty \else
20872   \begin{minipage}[t]{\textwidth}%
20873     \usekomafont{titlehead}{\@titlehead\par}%
20874   \end{minipage}\par
20875 \fi
20876 \null\vfill
20877 \begin{center}
20878   \ifx\@subject\@empty \else
20879     {\usekomafont{subject}{\@subject\par}}%
20880     \vskip 3em
20881   \fi
20882   {\usekomafont{title}{\huge \@title\par}}%
20883   \vskip 1em
20884   {\ifx\@subtitle\@empty\else\usekomafont{subtitle}{\@subtitle\par}\fi}%
20885   \vskip 2em
20886   {%
20887     \usekomafont{author}{%
20888       \lineskip 0.75em
20889       \begin{tabular}[t]{c}
20890         \@author
20891       \end{tabular}\par
20892     }%
20893   }%
20894   \vskip 1.5em
20895   {\usekomafont{date}{\@date \par}}%
20896   \vskip \z@ \@plus3fill
20897   {\usekomafont{publishers}{\@publishers \par}}%
20898   \vskip 3em
20899 \end{center}\par
20900 \@thanks\global\let\@thanks\@empty
20901 \vfill\null
20902 \if@twoside
20903   \@tempwattrue
20904   \expandafter\ifnum \@nameuse{scr@v@3.12}>\scr@compatibility\relax
20905   \else
20906     \ifx\@uppertitleback\@empty\ifx\@lowertitleback\@empty

```





```

20907         \@tempwafalse
20908     \fi\fi
20909 \fi
20910 \if@tempwa
20911     \next@tpage
20912     \begin{minipage}[t]{\textwidth}
20913         \@uppertitleback
20914     \end{minipage}\par
20915     \vfill
20916     \begin{minipage}[b]{\textwidth}
20917         \@lowertitleback
20918     \end{minipage}\par
20919     \@thanks\global\let\@thanks\@empty
20920 \fi
20921 \else
20922     \ifx\@uppertitleback\@empty\else
20923         \ClassWarning{\KOMAClassName}{%
20924             non empty \string\uppertitleback\space ignored
20925             by \string\maketitle\MessageBreak
20926             in `twoside=false' mode%
20927         }%
20928     \fi
20929     \ifx\@lowertitleback\@empty\else
20930         \ClassWarning{\KOMAClassName}{%
20931             non empty \string\lowertitleback\space ignored
20932             by \string\maketitle\MessageBreak
20933             in `twoside=false' mode%
20934         }%
20935     \fi
20936 \fi
20937 \ifx\@dedication\@empty
20938 \else
20939     \next@tdpage\null\vfill
20940     {\centering\usekomafont{dedication}{\@dedication \par}}%
20941     \vskip \z@ \@plus3fill
20942     \@thanks\global\let\@thanks\@empty
20943     \cleardoubleemptypage
20944 \fi
20945 \ifx\titlepage@restore\relax\else\clearpage\titlepage@restore\fi
20946 \end{titlepage}
20947 \else
20948     \par
20949     \@tempcnta=%
20950     #1%
20951     \relax\ifnum\@tempcnta=1\else
20952         \ClassWarning{\KOMAClassName}{%
20953             Optional argument of \string\maketitle\space ignored\MessageBreak
20954             in `titlepage=false' mode%
20955         }%
20956     \fi
20957     \ifx\@uppertitleback\@empty\else
20958         \ClassWarning{\KOMAClassName}{%
20959             non empty \string\uppertitleback\space ignored
20960             by \string\maketitle\MessageBreak

```



```

20961         in `titlepage=false' mode%
20962     }%
20963 \fi
20964 \ifx\@lowertitleback\@empty\else
20965     \ClassWarning{\KOMAClassName}{%
20966         non empty \string\lowertitleback\space ignored
20967         by \string\maketitle\MessageBreak
20968         in `titlepage=false' mode%
20969     }%
20970 \fi
20971 \begingroup
20972     \let\titlepage@restore\relax
20973     \renewcommand*\thefootnote{\@fnsymbol\c@footnote}%
20974     \let\@oldmakefnmark\@makefnmark
20975     \renewcommand*{\@makefnmark}{\rlap\@oldmakefnmark}%
20976     \next@tdpage
20977 \if@twocolumn
20978     \ifnum \col@number=\@one
20979         \ifx\@extratitle\@empty
20980             \ifx\@frontispiece\@empty\else\if@twoside\mbox{}\fi\fi
20981         \else
20982             \@makeextratitle
20983         \fi
20984         \ifx\@frontispiece\@empty
20985             \ifx\@extratitle\@empty\else\next@tdpage\fi
20986         \else
20987             \next@tpage
20988             \@makefrontispiece
20989             \next@tdpage
20990         \fi
20991         \@maketitle
20992     \else
20993         \ifx\@extratitle\@empty
20994             \ifx\@frontispiece\@empty\else\if@twoside\mbox{}\fi\fi
20995         \else
20996             \twocolumn[\@makeextratitle]%
20997         \fi
20998         \ifx\@frontispiece\@empty
20999             \ifx\@extratitle\@empty\else\next@tdpage\fi
21000         \else
21001             \next@tpage
21002             \twocolumn[\@makefrontispiece]%
21003             \next@tdpage
21004         \fi
21005         \twocolumn[\@maketitle]%
21006     \fi
21007 \else
21008     \ifx\@extratitle\@empty
21009         \ifx\@frontispiece\@empty\else \mbox{}\fi
21010     \else
21011         \@makeextratitle
21012     \fi
21013     \ifx\@frontispiece\@empty
21014         \ifx\@extratitle\@empty\else\next@tdpage\fi

```



```

21015         \else
21016         \next@tpage
21017         \@makefrontispiece
21018         \next@tdpage
21019         \fi
21020         \@maketitle
21021         \fi
21022         \ifx\titlepagestyle\@empty\else\thispagestyle{\titlepagestyle}\fi
21023         \@thanks\global\let\@thanks\@empty
21024     \endgroup
21025 \fi
21026 \setcounter{footnote}{0}%
21027 \expandafter\ifnum \csname scr@v@3.12\endcsname>\scr@compatibility\relax
21028     \let\thanks\relax
21029     \let\LTRthanks\relax
21030     \let\RTLthanks\relax
21031     \let\maketitle\relax
21032     \let\@maketitle\relax
21033     \global\let\@thanks\@empty
21034     \global\let\@author\@empty
21035     \global\let\@date\@empty
21036     \global\let\@title\@empty
21037     \global\let\@subtitle\@empty
21038     \global\let\@extratitle\@empty
21039     \global\let\@frontispiece\@empty
21040     \global\let\@titlehead\@empty
21041     \global\let\@subject\@empty
21042     \global\let\@publishers\@empty
21043     \global\let\@uppertitleback\@empty
21044     \global\let\@lowertitleback\@empty
21045     \global\let\@dedication\@empty
21046     \global\let\author\relax
21047     \global\let\title\relax
21048     \global\let\extratitle\relax
21049     \global\let\titlehead\relax
21050     \global\let\subject\relax
21051     \global\let\publishers\relax
21052     \global\let\uppertitleback\relax
21053     \global\let\lowertitleback\relax
21054     \global\let\dedication\relax
21055     \global\let\date\relax
21056 \fi
21057 \global\let\and\relax
21058 }%
21059 \def\raggedsection{\if@RTL\raggedleft\else\raggedright\fi}
21060 \renewcommand*\autodot{\if@altsecnumformat\@SepMark\fi}
21061 \renewcommand*\thesection{%
21062     \expandafter\ifnum\scr@v@is@gt{2.97d}%
21063         \if@mainmatter\thechapter\@SepMark\fi
21064     \else
21065         \thechapter\@SepMark%
21066     \fi
21067     \@arabic\c@section
21068 }

```



```

21069 \renewcommand*{\thesubsection}{\thesection\@SepMark\@arabic\c@subsection}
21070 \renewcommand*{\thesubsubsection}{%
21071   \thesubsection\@SepMark\@arabic\c@subsubsection
21072 }
21073 \renewcommand*{\theparagraph}{\thesubsubsection\@SepMark\@arabic\c@paragraph}
21074 \renewcommand*{\thesubparagraph}{%
21075   \theparagraph\@SepMark\@arabic\c@subparagraph
21076 }
21077 \expandafter\ifnum\scr@v@is@le{2.97d}%
21078   \renewcommand*\thefigure{\thechapter\@SepMark\@arabic\c@figure}
21079 \fi
21080 \expandafter\ifnum\scr@v@is@le{2.97d}%
21081   \renewcommand*\thetable{\thechapter\@SepMark\@arabic\c@table}
21082 \fi
21083 \renewcommand*{\theequation}{%
21084   \expandafter\ifnum\scr@v@is@gt{2.97d}%
21085     \if@mainmatter\thechapter\@SepMark\fi
21086   \else
21087     \thechapter\@SepMark%
21088   \fi
21089   \@arabic\c@equation
21090 }
21091 \renewenvironment{thebibliography}[1]{%
21092   \if@bib@break@
21093     \bib@beginhook
21094   \else
21095     \ifx\bibpreamble\relax\else\ifx\bibpreamble\@empty\else
21096       \setchapterpreamble{\bibpreamble}%
21097     \fi\fi
21098     \bib@heading
21099     \bib@beginhook
21100     \bib@before@hook
21101   \fi
21102   \renewcommand{\BreakBibliography}[1]{%
21103     \@bib@break
21104     \end{thebibliography}%
21105     \begingroup ##1\endgroup
21106     \begin{thebibliography}{#1}
21107   }%
21108   \if@RTL\if@LTRbibitems\@RTLfalse\else\fi\else\if@RTLbibitems\@RTLtrue\else\fi\fi
21109   \bidi@thebibliography@font@hook%
21110   \list{%
21111     \@biblabel{\@arabic\c@enumiv}%
21112   }{%
21113     \settowidth\labelwidth{\@biblabel{#1}}%
21114     \leftmargin\labelwidth
21115     \advance\leftmargin\labelsep
21116     \@openbib@code
21117     \if@bib@break@
21118       \edef\@tempa{%
21119         \noexpand\usecounter{enumiv}%
21120         \noexpand\setcounter{enumiv}{\the\c@enumiv}%
21121       }\@tempa
21122     \no@bib@break

```



```

21123 \else
21124 \usecounter{enumiv}%
21125 \fi
21126 \let\p@enumiv\@empty
21127 \renewcommand*\theenumiv{\@arabic\c@enumiv}%
21128 }%
21129 \sloppy\clubpenalty4000 \widowpenalty4000
21130 \sfcode`\.\=\@m
21131 }{%
21132 \if@bib@break@
21133 \def\@noitemerr{%
21134 \@latex@warning{%
21135 \string\BreakBibliography\space at begin of `thebibliography'
21136 environment\MessageBreak
21137 or following \string\BreakBibliography}%
21138 }%
21139 \else
21140 \def\@noitemerr{%
21141 \@latex@warning{%
21142 Empty `thebibliography' environment or
21143 \string\BreakBibliography\MessageBreak
21144 before end of `thebibliography' environment}%
21145 }%
21146 \fi
21147 \endlist
21148 \if@bib@break@
21149 \else
21150 \bib@after@hook
21151 \let\bib@before@hook\@empty
21152 \let\bib@after@hook\@empty
21153 \fi
21154 \bib@endhook
21155 }
21156 \renewcommand*\raggeddictum{\if@RTL\raggedright\else\raggedleft\fi}
21157 \renewcommand*\raggeddictumtext{\if@RTL\raggedleft\else\raggedright\fi}
21158 \renewcommand*\raggeddictumauthor{\if@RTL\raggedright\else\raggedleft\fi}
21159 \renewcommand\marginline[1]{%
21160 \marginpar[\if@RTL\raggedright\else\raggedleft\fi{#1}]{\if@RTL\raggedleft\else\raggedright\fi{#1}}
21161 }
21162 \renewcommand{\@makecaption}[3]{%
21163 \cap@margin
21164 \begingroup
21165 \ifonelinecaptions
21166 \def\stepcounter##1{\advance\value{##1}\@ne}%
21167 \let\refstepcounter\stepcounter
21168 \let\label\@gobble
21169 \let\@footnotetext=\@gobble
21170 \let\@LTRfootnotetext=\@gobble
21171 \let\@RTLfootnotetext=\@gobble
21172 \let\hypertarget\@gobbletwo
21173 \edef\xnewline{%
21174 \unexpanded{\ClassInfo{\KOMACClassName}}{%
21175 Workaround for not recommended usage of \string\ or\MessageBreak
21176 \string\newline in caption text

```



```

21177         }%
21178         \hspace*{\linewidth}\hspace{1sp}%
21179     }%
21180     \unexpanded\expandafter{\@xnewline}%
21181 }%
21182 \edef\@xcentercr{%
21183     \unexpanded{\ClassInfo{\KOMAClassName}{%
21184         Workaround for not recommended usage of \string\\ or\MessageBreak
21185         \string\newline in caption text
21186     }}%
21187     \hspace*{\linewidth}\hspace{1sp}%
21188 }%
21189 \unexpanded\expandafter{\@xcentercr}%
21190 }%
21191 \settowidth{\@tempdima}{\scr@makesinglelinecaption{#1}{#2}{#3}}%
21192 \ifdim\@tempdima>\cap@width
21193     \aftergroup\scr@makemultilinecaption
21194 \else
21195     \aftergroup\scr@makesinglelinecaption
21196 \fi
21197 \else
21198     \aftergroup\scr@makemultilinecaption
21199 \fi
21200 \endgroup
21201 {#1}{#2}{#3}%
21202 }
21203 \renewcommand{\scr@makesinglelinecaption}[3]{%
21204     {%
21205         \usefontofkomafont{caption}{%
21206             \hb@xt@{\hsize{%
21207                 \cap@left
21208                 \if@RTL
21209                     \beginR
21210                     \fi
21211                 \scr@makesinglelinecaption{#1}{#2}{#3}%
21212                 \if@RTL
21213                     \endR
21214                 \fi
21215                 \cap@right
21216             }}\par\kern\dp\strutbox%
21217         }%
21218     }\kern-\dp\strutbox
21219 }
21220 \renewcommand{\@makecaption}[2]{%
21221     \if@captionabove
21222         \vskip\belowcaptionskip
21223     \else
21224         \vskip\abovecaptionskip
21225     \fi
21226     \@makecaption\@firstofone{#1}{#2}%
21227     \if@captionabove
21228         \vskip\abovecaptionskip
21229     \else
21230         \vskip\belowcaptionskip

```



```

21231 \fi
21232 }
21233
21234 \renewcommand{\scr@makesinglelinecaption}[3]{%
21235     {\usekomafont{caption}{\strut\ignorespaces
21236         #1{\usekomafont{captionlabel}{#2\captionformat}}}%
21237         \ignorespaces #3\unskip}}%
21238 }
21239
21240 \renewcommand{\scr@makemultilinecaption}[3]{%
21241     {%
21242         \usefontofkomafont{caption}{%
21243             \hb@xt@{hsize}{%
21244                 \cap@left
21245                 \vbox{hsize\cap@width\linewidthhsize
21246                     \scr@ifundefinedorrelax{@captype}{%
21247                         \ClassWarning{KOMAClassName}{%
21248                             '\string\caption' outside float.\MessageBreak
21249                             Seems you are using '\string\caption' outside a
21250                             float.\MessageBreak
21251                             Maybe you are using a package that uses
21252                             '\string\makecaption'\MessageBreak
21253                             without setting '\string\@captype' before.\MessageBreak
21254                             Because I cannot detect the caption type, I'm using\MessageBreak
21255                             the empty one.%
21256                         }%
21257                         \let\@captype\@empty
21258                     }{}%
21259                     \scr@ifundefinedorrelax{ragged\@captype}{\raggedcaption}{%
21260                         \@nameuse{ragged\@captype}{caption}%
21261                     }%
21262                     \ifdofullc@p
21263                         \@hangfrom{%
21264                             \strut
21265                             \scr@smashdp{%
21266                                 #1{%
21267                                     \usekomafont{caption}{%
21268                                         \usekomafont{captionlabel}{#2\captionformat}%
21269                                     }%
21270                                 }%
21271                             }%
21272                         }%
21273                         {{\usekomafont{caption}{#3\scr@endstrut}}\par}%
21274                     \else
21275                         \ifdim\cap@indent<\z@
21276                             \strut
21277                             #1{%
21278                                 {\usekomafont{caption}{%
21279                                     \usekomafont{captionlabel}{#2\captionformat}%
21280                                 }%
21281                             }\par}%
21282                         \noindent{{\usekomafont{caption}{%
21283                             \hspace*{-\cap@indent}#3\scr@endstrut
21284                         }}\par}%

```



```

21285         \else
21286         \if@capbreak
21287         \strut
21288         #1{%
21289         {\usekomafont{caption}{%
21290         \usekomafont{captionlabel}{#2\captionformat}%
21291         }
21292         }\par}%
21293         \noindent\@hangfrom{\hspace*{\cap@indent}}%
21294         {\{\usekomafont{caption}{#3\scr@endstrut}}\par}%
21295     \else
21296     \@hangfrom{\scr@smashdp\strut\hspace*{\cap@indent}}%
21297     {%
21298     \hspace{-\cap@indent}%
21299     \scr@smashdp{%
21300     #1{\usekomafont{caption}{%
21301     \usekomafont{captionlabel}{#2\captionformat}%
21302     }%
21303     }%
21304     }%
21305     {\{\usekomafont{caption}{#3\scr@endstrut}}\par}%
21306     }%
21307     \fi
21308     \fi
21309     \fi
21310     }%
21311     \cap@right
21312     }\par\kern\dp\strutbox
21313     }%
21314     }\kern-\dp\strutbox
21315 }
21316
21317
21318 \bidi@AfterFile{longtable-xetex-bidi.def}{%
21319 \if@komalongtable
21320 \renewcommand{\LT@makecaption}[3]{%
21321 \noalign{%
21322 \if@captionabove
21323 \vskip\belowcaptionskip
21324 \else
21325 \vskip\abovecaptionskip
21326 \fi
21327 }%
21328 \LT@mcol\LT@cols c{%
21329 \hbox to\z@{\hss\parbox[t]{\linewidth{%
21330 \def\@capytype{table}%
21331 \@makecaption{#1}{#2}{#3}%
21332 \endgraf
21333 \if@captionabove
21334 \vskip\abovecaptionskip
21335 \else
21336 \vskip\belowcaptionskip
21337 \fi
21338 }%

```





```

21339         \hss
21340     }%
21341 }%
21342 }%
21343 \renewcommand*{\scr@LT@array}{}%
21344 \let\scr@LT@array=\LT@array
21345 \renewcommand*{\LT@array}{%
21346     \let\scr@caption=\LT@caption
21347     \def\captionabove{\noalign{\global\@captionabovetrue}%
21348         \scr@caption}%
21349     \def\captionbelow{\noalign{\global\@captionabovetrue}%
21350         \scr@caption}%
21351     \if@tablecaptionabove
21352         \let\LT@caption=\captionabove
21353     \else
21354         \let\LT@caption=\captionbelow
21355     \fi
21356     \scr@LT@array
21357 }%
21358 \ClassInfo{\KOMAClassName}{%
21359     longtable captions redefined%
21360 }%
21361 \fi
21362 }
21363
21364 \CloneTOCEntryStyle{tocline}{part}
21365 \TOCEntryStyleStartInitCode{part}{%
21366     \expandafter\renewcommand%
21367     \csname scr@tso@#1@linefill\endcsname{\hfill}%
21368     \expandafter\renewcommand%
21369     \csname scr@tso@#1@entryformat\endcsname[1]{\usekomafont{partentry}{##1}}%
21370     \expandafter\renewcommand%
21371     \csname scr@tso@#1@pagenumberformat\endcsname[1]{%
21372         {\usekomafont{partentry}{\usekomafont{partentrypagenumber}{##1}}}%
21373     \expandafter\renewcommand\expandafter*%
21374     \csname scr@tso@#1@beforeskip\endcsname{2.25em \@plus\p@}%
21375 }
21376
21377 \CloneTOCEntryStyle{tocline}{chapter}
21378 \TOCEntryStyleStartInitCode{chapter}{%
21379     \expandafter\renewcommand%
21380     \csname scr@tso@#1@linefill\endcsname{%
21381         \if@chapterentrywithdots
21382             {\usekomafont{chapterentrydots}{\TOCLineLeaderFill}}\relax
21383         \else
21384             \hfill
21385         \fi
21386     }%
21387     \expandafter\renewcommand%
21388     \csname scr@tso@#1@entryformat\endcsname{\usekomafont{chapterentry}}%
21389     \expandafter\renewcommand%
21390     \csname scr@tso@#1@pagenumberformat\endcsname[1]{%
21391         {\usekomafont{chapterentry}{\usekomafont{chapterentrypagenumber}{##1}}}%
21392     \expandafter\renewcommand\expandafter*%

```



```

21393 \csname scr@tso@#1@beforeskip\endcsname{1.0em \@plus\p@}%
21394 }
21395
21396 \CloneTOCEntryStyle{tocline}{section}
21397 \TOCEntryStyleStartInitCode{section}{%
21398 \expandafter\renewcommand%
21399 \csname scr@tso@#1@linefill\endcsname{\TOCLineLeaderFill\relax}%
21400 \expandafter\renewcommand%
21401 \csname scr@tso@#1@pagenumberformat\endcsname[1]{%
21402 {\normalfont\normalcolor ##1}}%
21403 }
21404
21405 \CloneTOCEntryStyle{section}{default}
21406
21407 \DeclareSectionCommand[%
21408 style=chapter,%
21409 level=\z@,%
21410 pagestyle=plain,%
21411 tocstyle=chapter,%
21412 tocindent=\z@,%
21413 tocnumwidth=1.5em%
21414 ]{chapter}
21415 \DeclareSectionCommand[%
21416 style=section,%
21417 level=1,%
21418 indent=\z@,%
21419 beforeskip=-3.5ex \@plus -1ex \@minus -.2ex,%
21420 afterskip=2.3ex \@plus .2ex,%
21421 tocstyle=section,%
21422 tocindentfollows=chapter,%
21423 tocindent=1.5em,%
21424 tocnumwidth=2.3em%
21425 ]{section}
21426 \DeclareSectionCommand[%
21427 style=part,%
21428 level=\m@ne,%
21429 pagestyle=plain,%
21430 tocstyle=part,%
21431 toclevel=\m@ne,%
21432 tocindent=\z@,%
21433 tocnumwidth=2em%
21434 ]{part}
21435 \DeclareSectionCommand[%
21436 style=section,%
21437 level=2,%
21438 indent=\z@,%
21439 beforeskip=-3.25ex\@plus -1ex \@minus -.2ex,%
21440 afterskip=1.5ex \@plus .2ex,%
21441 tocstyle=section,%
21442 tocindent=3.8em,%
21443 tocnumwidth=3.2em%
21444 ]{subsection}
21445 \DeclareSectionCommand[%
21446 style=section,%

```



```

21447 level=3,%
21448 indent=\z@,%
21449 beforeskip=-3.25ex\@plus -1ex \@minus -.2ex,%
21450 afterskip=1.5ex \@plus .2ex,%
21451 tocstyle=section,%
21452 tocindent=7.0em,%
21453 tocnumwidth=4.1em%
21454 ]{subsubsection}
21455 \DeclareSectionCommand[%
21456 style=section,%
21457 level=4,%
21458 indent=\z@,%
21459 beforeskip=3.25ex \@plus1ex \@minus .2ex,%
21460 afterskip=-1em,%
21461 tocindentfollows=subsubsection,%
21462 tocstyle=section,%
21463 tocindent=10em,%
21464 tocnumwidth=5em%
21465 ]{paragraph}
21466 \DeclareSectionCommand[%
21467 style=section,%
21468 level=5,%
21469 indent=\scr@parindent,%
21470 beforeskip=3.25ex \@plus1ex \@minus .2ex,%
21471 afterskip=-1em,%
21472 tocstyle=section,%
21473 tocindent=12em,%
21474 tocnumwidth=6em%
21475 ]{subparagraph}

```

## 143 File `scrreprt-xetex-bidi.def`

```

21476 \ProvidesFile{scrreprt-xetex-bidi.def}[2022/05/27 v1.3 bidi adaptations for scrreprt class f
21477 \newcommand{\scr@saved@LTRfootnotetext}{}
21478 \newcommand{\scr@saved@RTLfootnotetext}{}
21479 \let\scr@saved@footnotetext\@footnotetext
21480 \let\scr@saved@LTRfootnotetext\@LTRfootnotetext
21481 \let\scr@saved@RTLfootnotetext\@RTLfootnotetext
21482 \renewcommand{\@footnotetext}[1]{%
21483   \scr@saved@footnotetext{#1}%
21484   \csname FN@mfb@prepare\endcsname
21485 }
21486 \renewcommand{\@LTRfootnotetext}[1]{%
21487   \scr@saved@LTRfootnotetext{#1}%
21488   \csname FN@mfb@prepare\endcsname
21489 }
21490 \renewcommand{\@RTLfootnotetext}[1]{%
21491   \scr@saved@RTLfootnotetext{#1}%
21492   \csname FN@mfb@prepare\endcsname
21493 }
21494 \renewcommand\deffootnote[4][1]{%
21495   \expandafter\ifnum\scr@v@is@ge{3.22}\relax
21496     \long\def\@makefntext##1{%
21497       \ExecuteDoHook{footnote/text/begin}%

```



```

21498 \raggedfootnote
21499 \if@RTL
21500 \rightskip
21501 \else
21502 \leftskip
21503 \fi
21504 #2
21505 \l@addto@macro\@trivlist{%
21506 \ifnum\@listdepth=\@one
21507 \if@RTL
21508 \advance\rightmargin #2\relax
21509 \else
21510 \advance\leftmargin #2\relax
21511 \fi
21512 \fi
21513 }%
21514 \parindent #3\noindent
21515 \IfArgIsEmpty{#1}{}%
21516 \hskip \dimexpr #1-#2\relax
21517 }%
21518 \ftn@font\hbox to \z@{\hss\@makefnmark}##1%
21519 \ExecuteDoHook{footnote/text/end}%
21520 }%
21521 \else
21522 \ClassInfo{\KOMAClassName}{%
21523 Using old \string\@makefnmark\space due to compatibility
21524 level\MessageBreak
21525 less than 3.22}%
21526 \long\def\@makefnmark##1{%
21527 \setlength{\@tempdimc}{#3}%
21528 \def\@tempa{#1}\ifx\@tempa\@empty
21529 \setpar{\@par
21530 \@tempdima = \hspace
21531 \addtolength{\@tempdima}{-#2}%
21532 \if@RTL
21533 \parshape \@one \z@ \@tempdima
21534 \else
21535 \parshape \@one #2 \@tempdima
21536 \fi
21537 }%
21538 \else
21539 \addtolength{\@tempdimc}{#2}%
21540 \addtolength{\@tempdimc}{-#1}%
21541 \setpar{\@par
21542 \@tempdima = \hspace
21543 \addtolength{\@tempdima}{-#1}%
21544 \@tempdimb = \hspace
21545 \addtolength{\@tempdimb}{-#2}%
21546 \if@RTL
21547 \parshape \tw@ \z@ \@tempdima \z@ \@tempdimb
21548 \else
21549 \parshape \tw@ #1 \@tempdima #2 \@tempdimb
21550 \fi
21551 }%

```



```

21552     \fi
21553     \par
21554     \parindent\@tempdimc\noindent
21555     \ftn@font\hbox to \z@{\hss\@makefnmark}##1%
21556   }%
21557 \fi
21558 \def\@makefnmark{\hbox{\ftn@font{#4}}}%
21559 }
21560 \deffootnote[1em]{1.5em}{1em}{\textsuperscript{\thefootnotemark}}
21561 \renewcommand*\left@footnoterule{%
21562   \normalsize\ftn@rule@test@values
21563   \kern-\dimexpr 2.6\p@+\ftn@rule@height\relax
21564   \ifx\@textbottom\relax\else\vskip \z@ \@plus.05fil\fi
21565   {\usekomafont{footnoterule}{%
21566     \hrule \@height\ftn@rule@height \@width\ftn@rule@width}}%
21567   \kern 2.6\p@}
21568 \renewcommand*\right@footnoterule{%
21569   \normalsize\ftn@rule@test@values
21570   \kern-\dimexpr 2.6\p@+\ftn@rule@height\relax
21571   \ifx\@textbottom\relax\else\vskip \z@ \@plus.05fil\fi
21572   {\usekomafont{footnoterule}{%
21573     \hbox to \columnwidth{\hskip \dimexpr\columnwidth-\ftn@rule@width\relax \leavevmode\l
21574     \kern 2.6\p@}
21575   \renewcommand*\maketitle[1][1]{%
21576     \expandafter\ifnum \csname scr@v@3.12\endcsname>\scr@compatibility\relax
21577     \else
21578       \def\and{%
21579         \end{tabular}%
21580         \hskip 1em \@plus.17fil%
21581         \begin{tabular}[t]{c}%
21582       }%
21583     \fi
21584     \if@titlepage
21585       \begin{titlepage}
21586         \setcounter{page}{%
21587           #1%
21588         }%
21589       \if@titlepageiscoverpage
21590         \edef\tITLEPAGE@restore{%
21591           \noexpand\endgroup
21592           \noexpand\global\noexpand\@colht\the\@colht
21593           \noexpand\global\noexpand\@colroom\the\@colroom
21594           \noexpand\global\vsizethe\vsizethe
21595           \noexpand\global\noexpand\@titlepageiscoverpagefalse
21596           \noexpand\let\noexpand\tITLEPAGE@restore\noexpand\relax
21597         }%
21598         \begingroup
21599         \topmargin=\dimexpr \coverpagetopmargin-1in\relax
21600         \oddsidemargin=\dimexpr \coverpageleftmargin-1in\relax
21601         \evensidemargin=\dimexpr \coverpageleftmargin-1in\relax
21602         \textwidth=\dimexpr
21603         \paperwidth-\coverpageleftmargin-\coverpagerightmargin\relax
21604         \textheight=\dimexpr
21605         \paperheight-\coverpagetopmargin-\coverpagebottommargin\relax

```



```

21606      \headheight=0pt
21607      \headsep=0pt
21608      \footskip=\baselineskip
21609      \@colht=\textheight
21610      \@colroom=\textheight
21611      \vsize=\textheight
21612      \columnwidth=\textwidth
21613      \hsize=\columnwidth
21614      \linewidth=\hsize
21615      \else
21616        \let\tITLEPAGE@restore\relax
21617      \fi
21618      \let\footnotesize\small
21619      \let\right@footnoterule\relax
21620      \let\left@footnoterule\relax
21621      \let\textwidth@footnoterule\relax
21622      \let\footnote\thanks
21623      \let\LTRfootnote\LTRthanks
21624      \let\RTLfootnote\RTLthanks
21625      \renewcommand*\thefootnote{\@fnsymbol\c@footnote}%
21626      \let\@oldmakefnmark\@makefnmark
21627      \renewcommand*{\@makefnmark}{\rlap{\@oldmakefnmark}}%
21628      \ifx\@extratitle\@empty
21629        \ifx\@frontispiece\@empty
21630          \else
21631            \if@twoside\mbox{}\next@tpage\fi
21632            \noindent\@frontispiece\next@tdpage
21633          \fi
21634        \else
21635          \noindent\@extratitle
21636          \ifx\@frontispiece\@empty
21637            \else
21638              \next@tpage
21639              \noindent\@frontispiece
21640            \fi
21641            \next@tdpage
21642          \fi
21643      \setparsizes{\z@}{\z@}{\z@\@plus 1fil}\par@updaterelative
21644      \ifx\@titlehead\@empty \else
21645        \begin{minipage}[t]{\textwidth}%
21646          \usekomafont{titlehead}{\@titlehead\par}%
21647        \end{minipage}\par
21648      \fi
21649      \null\vfill
21650      \begin{center}
21651        \ifx\@subject\@empty \else
21652          {\usekomafont{subject}{\@subject\par}}%
21653          \vskip 3em
21654        \fi
21655        {\usekomafont{title}{\huge \@title\par}}%
21656        \vskip 1em
21657        {\ifx\@subtitle\@empty\else\usekomafont{subtitle}{\@subtitle\par}\fi}%
21658        \vskip 2em
21659      {\%

```



```

21660         \usekomafont{author}{%
21661             \lineskip 0.75em
21662             \begin{tabular}[t]{c}
21663                 \@author
21664             \end{tabular}\par
21665         }%
21666     }%
21667     \vskip 1.5em
21668     {\usekomafont{date}{\@date \par}}%
21669     \vskip \z@ \@plus3fill
21670     {\usekomafont{publishers}{\@publishers \par}}%
21671     \vskip 3em
21672 \end{center}\par
21673 \@thanks\global\let\@thanks\@empty
21674 \vfill\null
21675 \if@twoside
21676     \@tempswatrue
21677     \expandafter\ifnum \@nameuse{scr@v@3.12}>\scr@compatibility\relax
21678     \else
21679         \ifx\@uppertitleback\@empty\ifx\@lowertitleback\@empty
21680             \@tempswafalse
21681         \fi\fi
21682     \fi
21683     \if@tempswa
21684         \next@tpage
21685         \begin{minipage}[t]{\textwidth}
21686             \@uppertitleback
21687         \end{minipage}\par
21688         \vfill
21689         \begin{minipage}[b]{\textwidth}
21690             \@lowertitleback
21691         \end{minipage}\par
21692         \@thanks\global\let\@thanks\@empty
21693     \fi
21694 \else
21695     \ifx\@uppertitleback\@empty\else
21696         \ClassWarning{\KOMAClassName}{%
21697             non empty \string\uppertitleback\space ignored
21698             by \string\maketitle\MessageBreak
21699             in `twoside=false' mode%
21700         }%
21701     \fi
21702     \ifx\@lowertitleback\@empty\else
21703         \ClassWarning{\KOMAClassName}{%
21704             non empty \string\lowertitleback\space ignored
21705             by \string\maketitle\MessageBreak
21706             in `twoside=false' mode%
21707         }%
21708     \fi
21709 \fi
21710 \ifx\@dedication\@empty
21711 \else
21712     \next@tdpage\null\vfill
21713     {\centering\usekomafont{dedication}{\@dedication \par}}%

```



```

21714         \vskip \z@ \@plus3fill
21715         \@thanks\global\let\@thanks\@empty
21716         \cleardoubleemptypage
21717         \fi
21718         \ifx\tITLEPAGE@restore\relax\else\clearpage\tITLEPAGE@restore\fi
21719     \end{TITLEPAGE}
21720 \else
21721     \par
21722     \@tempcnta=%
21723     #1%
21724     \relax\ifnum\@tempcnta=1\else
21725         \ClassWarning{\KOMAClassName}{%
21726             Optional argument of \string\maketitle\space ignored\MessageBreak
21727             in `TITLEPAGE=false' mode%
21728         }%
21729     \fi
21730     \ifx\@uppertitleback\@empty\else
21731         \ClassWarning{\KOMAClassName}{%
21732             non empty \string\uppertitleback\space ignored
21733             by \string\maketitle\MessageBreak
21734             in `TITLEPAGE=false' mode%
21735         }%
21736     \fi
21737     \ifx\@lowertitleback\@empty\else
21738         \ClassWarning{\KOMAClassName}{%
21739             non empty \string\lowertitleback\space ignored
21740             by \string\maketitle\MessageBreak
21741             in `TITLEPAGE=false' mode%
21742         }%
21743     \fi
21744     \begingroup
21745         \let\tITLEPAGE@restore\relax
21746         \renewcommand*\thefootnote{\@fnsymbol\c@footnote}%
21747         \let\@oldmakefnmark\@makefnmark
21748         \renewcommand*{\@makefnmark}{\rlap{\@oldmakefnmark}}%
21749         \next@tdpage
21750         \if@twocolumn
21751             \ifnum \col@number=\@one
21752                 \ifx\@extratitle\@empty
21753                     \ifx\@frontispiece\@empty\else\if@twoside\mbox{}\fi\fi
21754                 \else
21755                     \@makeextratitle
21756                 \fi
21757                 \ifx\@frontispiece\@empty
21758                     \ifx\@extratitle\@empty\else\next@tdpage\fi
21759                 \else
21760                     \next@tpage
21761                     \@makefrontispiece
21762                     \next@tdpage
21763                 \fi
21764                 \@maketitle
21765             \else
21766                 \ifx\@extratitle\@empty
21767                     \ifx\@frontispiece\@empty\else\if@twoside\mbox{}\fi\fi

```





```

21768         \else
21769             \twocolumn[\@makeextratitle]%
21770         \fi
21771         \ifx\@frontispiece\@empty
21772             \ifx\@extratitle\@empty\else\next@tdpage\fi
21773         \else
21774             \next@tpage
21775             \twocolumn[\@makefrontispiece]%
21776             \next@tdpage
21777         \fi
21778         \twocolumn[\@maketitle]%
21779     \fi
21780 \else
21781     \ifx\@extratitle\@empty
21782         \ifx\@frontispiece\@empty\else \mbox{}\fi
21783     \else
21784         \@makeextratitle
21785     \fi
21786     \ifx\@frontispiece\@empty
21787         \ifx\@extratitle\@empty\else\next@tdpage\fi
21788     \else
21789         \next@tpage
21790         \@makefrontispiece
21791         \next@tdpage
21792     \fi
21793     \@maketitle
21794 \fi
21795 \ifx\titlepagestyle\@empty\else\thispagestyle{\titlepagestyle}\fi
21796 \@thanks\global\let\@thanks\@empty
21797 \endgroup
21798 \fi
21799 \setcounter{footnote}{0}%
21800 \expandafter\ifnum \cscname scr@v@3.12\endcsname>\scr@compatibility\relax
21801     \let\thanks\relax
21802     \let\LTRthanks\relax
21803     \let\RTLthanks\relax
21804     \let\maketitle\relax
21805     \let\@maketitle\relax
21806     \global\let\@thanks\@empty
21807     \global\let\@author\@empty
21808     \global\let\@date\@empty
21809     \global\let\@title\@empty
21810     \global\let\@subtitle\@empty
21811     \global\let\@extratitle\@empty
21812     \global\let\@frontispiece\@empty
21813     \global\let\@titlehead\@empty
21814     \global\let\@subject\@empty
21815     \global\let\@publishers\@empty
21816     \global\let\@uppertitleback\@empty
21817     \global\let\@lowertitleback\@empty
21818     \global\let\@dedication\@empty
21819     \global\let\author\relax
21820     \global\let\title\relax
21821     \global\let\extratitle\relax

```



```

21822 \global\let\titlehead\relax
21823 \global\let\subject\relax
21824 \global\let\publishers\relax
21825 \global\let\uppertitleback\relax
21826 \global\let\lowertitleback\relax
21827 \global\let\dedication\relax
21828 \global\let\date\relax
21829 \fi
21830 \global\let\and\relax
21831 }%
21832 \def\raggedsection{\if@RTL\raggedleft\else\raggedright\fi}
21833 \renewcommand*\autodot{\if@altsecnumformat\@SepMark\fi}
21834 \renewcommand*\thesection{%
21835 \thechapter\@SepMark%
21836 \@arabic\c@section
21837 }
21838 \renewcommand*{\thesubsection}{\thesection\@SepMark\@arabic\c@subsection}
21839 \renewcommand*{\thesubsubsection}{%
21840 \thesubsection\@SepMark\@arabic\c@subsubsection
21841 }
21842 \renewcommand*{\theparagraph}{\thesubsubsection\@SepMark\@arabic\c@paragraph}
21843 \renewcommand*{\thesubparagraph}{%
21844 \theparagraph\@SepMark\@arabic\c@subparagraph
21845 }
21846 \expandafter\ifnum\scr@v@is@le{2.97d}%
21847 \renewcommand*\thefigure{\thechapter\@SepMark\@arabic\c@figure}
21848 \fi
21849 \expandafter\ifnum\scr@v@is@le{2.97d}%
21850 \renewcommand*\thetable{\thechapter\@SepMark\@arabic\c@table}
21851 \fi
21852 \renewcommand*\theequation{%
21853 \thechapter\@SepMark%
21854 \@arabic\c@equation
21855 }
21856 \renewenvironment{thebibliography}[1]{%
21857 \if@bib@break@
21858 \bib@beginhook
21859 \else
21860 \ifx\bibpreamble\relax\else\ifx\bibpreamble\@empty\else
21861 \setchapterpreamble{\bibpreamble}%
21862 \fi\fi
21863 \bib@heading
21864 \bib@beginhook
21865 \bib@before@hook
21866 \fi
21867 \renewcommand{\BreakBibliography}[1]{%
21868 \@bib@break
21869 \end{thebibliography}%
21870 \begingroup ##1\endgroup
21871 \begin{thebibliography}{#1}
21872 }%
21873 \if@RTL\if@LTRbibitems\@RTLfalse\else\fi\else\if@RTLbibitems\@RTLtrue\else\fi\fi
21874 \bidi@thebibliography@font@hook%
21875 \list{%

```



```

21876 \biblabel{\@arabic\c@enumiv}%
21877 }{%
21878 \settowidth\labelwidth{\@biblabel{#1}}%
21879 \leftmargin\labelwidth
21880 \advance\leftmargin\labelsep
21881 \@openbib@code
21882 \if@bib@break@
21883 \edef\@tempa{%
21884 \noexpand\usecounter{enumiv}%
21885 \noexpand\setcounter{enumiv}{\the\c@enumiv}%
21886 }\@tempa
21887 \no@bib@break
21888 \else
21889 \usecounter{enumiv}%
21890 \fi
21891 \let\p@enumiv\@empty
21892 \renewcommand*\theenumiv{\@arabic\c@enumiv}%
21893 }%
21894 \sloppy\clubpenalty4000 \widowpenalty4000
21895 \sfcode`\.\=\@m
21896 }{%
21897 \if@bib@break@
21898 \def\@noitemerr{%
21899 \@latex@warning{%
21900 \string\BreakBibliography\space at begin of `thebibliography'
21901 environment\MessageBreak
21902 or following \string\BreakBibliography}%
21903 }%
21904 \else
21905 \def\@noitemerr{%
21906 \@latex@warning{%
21907 Empty `thebibliography' environment or
21908 \string\BreakBibliography\MessageBreak
21909 before end of `thebibliography' environment}%
21910 }%
21911 \fi
21912 \endlist
21913 \if@bib@break@
21914 \else
21915 \bib@after@hook
21916 \let\bib@before@hook\@empty
21917 \let\bib@after@hook\@empty
21918 \fi
21919 \bib@endhook
21920 }
21921 \renewcommand*\raggeddictum{\if@RTL\raggedright\else\raggedleft\fi}
21922 \renewcommand*\raggeddictumtext{\if@RTL\raggedleft\else\raggedright\fi}
21923 \renewcommand*\raggeddictumauthor{\if@RTL\raggedright\else\raggedleft\fi}
21924 \renewcommand\marginline[1]{%
21925 \marginpar[\if@RTL\raggedright\else\raggedleft\fi{#1}]{\if@RTL\raggedleft\else\raggedright\fi}
21926 }
21927 \renewcommand{\@makecaption}[3]{%
21928 \cap@margin
21929 \begingroup

```



```

21930 \ifonelinecaptions
21931 \def\stepcounter##1{\advance\value{##1}\@ne}%
21932 \let\refstepcounter\stepcounter
21933 \let\label\@gobble
21934 \let\@footnotetext=\@gobble
21935 \let\@LTRfootnotetext=\@gobble
21936 \let\@RTLfootnotetext=\@gobble
21937 \let\hypertarget\@gobbletwo
21938 \edef\xnewline{%
21939 \unexpanded{\ClassInfo{\KOMAClassName}{%
21940 Workaround for not recommended usage of \string\\ or\MessageBreak
21941 \string\newline in caption text
21942 }%
21943 \hspace*{\linewidth}\hspace{1sp}%
21944 }%
21945 \unexpanded\expandafter{\xnewline}%
21946 }%
21947 \edef\xcentercr{%
21948 \unexpanded{\ClassInfo{\KOMAClassName}{%
21949 Workaround for not recommended usage of \string\\ or\MessageBreak
21950 \string\newline in caption text
21951 }%
21952 \hspace*{\linewidth}\hspace{1sp}%
21953 }%
21954 \unexpanded\expandafter{\xcentercr}%
21955 }%
21956 \settowidth{\@tempdima}{\scr@makesinglelinecaption{#1}{#2}{#3}}%
21957 \ifdim\@tempdima>\cap@width
21958 \aftergroup\scr@makemultilinecaption
21959 \else
21960 \aftergroup\scr@makesinglelinecaption
21961 \fi
21962 \else
21963 \aftergroup\scr@makemultilinecaption
21964 \fi
21965 \endgroup
21966 {#1}{#2}{#3}%
21967 }
21968 \renewcommand{\scr@makesinglelinecaption}[3]{%
21969 {%
21970 \usefontofkomafont{caption}{%
21971 \hb@xt@{\hsize{%
21972 \cap@left
21973 \if@RTL
21974 \beginR
21975 \fi
21976 \scr@makesinglelinecaption{#1}{#2}{#3}%
21977 \if@RTL
21978 \endR
21979 \fi
21980 \cap@right
21981 }\par\kern\dp\strutbox%
21982 }%
21983 }\kern-\dp\strutbox

```



```

21984 }
21985 \renewcommand{\@makecaption}[2]{%
21986   \if@captionabove
21987     \vskip\belowcaptionskip
21988   \else
21989     \vskip\abovecaptionskip
21990   \fi
21991   \@makecaption\@firstofone{#1}{#2}%
21992   \if@captionabove
21993     \vskip\abovecaptionskip
21994   \else
21995     \vskip\belowcaptionskip
21996   \fi
21997 }
21998
21999 \renewcommand{\scr@makesinglelinecaption}[3]{%
22000   {\usekomafont{caption}{\strut\ignorespaces
22001     #1{\usekomafont{captionlabel}{#2\captionformat}}}%
22002     \ignorespaces #3\unskip}}%
22003 }
22004
22005 \renewcommand{\scr@makemultilinecaption}[3]{%
22006   {%
22007     \usefontofkomafont{caption}{%
22008       \hb@xt@{hsize}{%
22009         \cap@left
22010         \vbox{\hsize\cap@width\linewidth\hsize
22011           \scr@ifundefinedorrelax{@captype}{%
22012             \ClassWarning{KOMAClassName}{%
22013               `string\caption' outside float.\MessageBreak
22014               Seems you are using `string\caption' outside a
22015               float.\MessageBreak
22016               Maybe you are using a package that uses
22017               `string\@makecaption'\MessageBreak
22018               without setting `string\@captype' before.\MessageBreak
22019               Because I cannot detect the caption type, I'm using\MessageBreak
22020               the empty one.%
22021             }%
22022             \let\@captype\@empty
22023           }}%
22024           \scr@ifundefinedorrelax{ragged\@captype caption}{\raggedcaption}{%
22025             \@nameuse{ragged\@captype caption}%
22026           }%
22027           \ifdofullc@p
22028             \@hangfrom{%
22029               \strut
22030               \scr@smashdp{%
22031                 #1{%
22032                   \usekomafont{caption}{%
22033                     \usekomafont{captionlabel}{#2\captionformat}%
22034                   }%
22035                 }%
22036               }%
22037             }%

```



```

22038         {\usekomafont{caption}{#3\scr@endstrut}}\par}%
22039     \else
22040         \ifdim\cap@indent<\z@
22041             \strut
22042             #1{%
22043                 {\usekomafont{caption}{%
22044                     \usekomafont{captionlabel}{#2\captionformat}%
22045                 }}%
22046             }\par}%
22047         \noindent{\usekomafont{caption}{%
22048             \hspace*{-\cap@indent}#3\scr@endstrut
22049         }}\par}%
22050     \else
22051         \if@capbreak
22052             \strut
22053             #1{%
22054                 {\usekomafont{caption}{%
22055                     \usekomafont{captionlabel}{#2\captionformat}%
22056                 }}%
22057             }\par}%
22058         \noindent\@hangfrom{\hspace*{\cap@indent}}%
22059         {\usekomafont{caption}{#3\scr@endstrut}}\par}%
22060     \else
22061         \@hangfrom{\scr@smashdp\strut\hspace*{\cap@indent}}%
22062         {%
22063             \hspace{-\cap@indent}%
22064             \scr@smashdp{%
22065                 #1{\usekomafont{caption}{%
22066                     \usekomafont{captionlabel}{#2\captionformat}%
22067                 }}%
22068             }%
22069         }%
22070         {\usekomafont{caption}{#3\scr@endstrut}}\par}%
22071     }%
22072     \fi
22073     \fi
22074     \fi
22075 }%
22076     \cap@right
22077 }\par\kern\dp\strutbox
22078 }%
22079 }\kern-\dp\strutbox
22080 }
22081
22082
22083 \bidi@AfterFile{longtable-xetex-bidi.def}{%
22084     \if@komalongtable
22085         \renewcommand{\LT@makecaption}[3]{%
22086             \noalign{%
22087                 \if@captionabove
22088                     \vskip\belowcaptionskip
22089                 \else
22090                     \vskip\abovecaptionskip
22091                 \fi

```



```

22092 }%
22093 \LT@mccl\LT@cols c{%
22094 \hbox to\z@{\hss\parbox[t]{\linewidth{%
22095 \def\@capytype{table}%
22096 \@@makecaption{#1}{#2}{#3}%
22097 \endgraf
22098 \if@captionabove
22099 \vskip\abovecaptionskip
22100 \else
22101 \vskip\belowcaptionskip
22102 \fi
22103 }%
22104 \hss
22105 }%
22106 }%
22107 }%
22108 \renewcommand*\scr@LT@array}{}%
22109 \let\scr@LT@array=\LT@array
22110 \renewcommand*\LT@array{%
22111 \let\scr@caption=\LT@caption
22112 \def\captionabove{\noalign{\global\@captionabovetrue}%
22113 \scr@caption}%
22114 \def\captionbelow{\noalign{\global\@captionabovetrue}%
22115 \scr@caption}%
22116 \if@tablecaptionabove
22117 \let\LT@caption=\captionabove
22118 \else
22119 \let\LT@caption=\captionbelow
22120 \fi
22121 \scr@LT@array
22122 }%
22123 \ClassInfo{\KOMAClassName}{%
22124 longtable captions redefined%
22125 }%
22126 \fi
22127 }
22128
22129 \CloneTOCEntryStyle{tocline}{part}
22130 \TOCEntryStyleStartInitCode{part}{%
22131 \expandafter\renewcommand%
22132 \csname scr@tso@#1@linefill\endcsname{\hfill}%
22133 \expandafter\renewcommand%
22134 \csname scr@tso@#1@entryformat\endcsname[1]{\usekomafont{partentry}{##1}}%
22135 \expandafter\renewcommand%
22136 \csname scr@tso@#1@pagenumberformat\endcsname[1]{%
22137 {\usekomafont{partentry}{\usekomafont{partentrypagenumber}{##1}}}%
22138 \expandafter\renewcommand\expandafter*%
22139 \csname scr@tso@#1@beforeskip\endcsname{2.25em \@plus\p@}%
22140 }
22141
22142 \CloneTOCEntryStyle{tocline}{chapter}
22143 \TOCEntryStyleStartInitCode{chapter}{%
22144 \expandafter\renewcommand%
22145 \csname scr@tso@#1@linefill\endcsname{%

```



```

22146 \if@chapterentrywithdots
22147 {\usekomafont{chapterentrydots}{\TOCLineLeaderFill}}\relax
22148 \else
22149 \hfill
22150 \fi
22151 }%
22152 \expandafter\renewcommand%
22153 \csname scr@tso@#1@entryformat\endcsname{\usekomafont{chapterentry}}}%
22154 \expandafter\renewcommand%
22155 \csname scr@tso@#1@pagenumberformat\endcsname[1]{%
22156 {\usekomafont{chapterentry}{\usekomafont{chapterentrypagenumber}{##1}}}%
22157 \expandafter\renewcommand\expandafter*%
22158 \csname scr@tso@#1@beforeskip\endcsname{1.0em \@plus\p@}%
22159 }
22160
22161 \CloneTOCEntryStyle{tocline}{section}
22162 \TOCEntryStyleStartInitCode{section}{%
22163 \expandafter\renewcommand%
22164 \csname scr@tso@#1@linefill\endcsname{\TOCLineLeaderFill\relax}%
22165 \expandafter\renewcommand%
22166 \csname scr@tso@#1@pagenumberformat\endcsname[1]{%
22167 {\normalfont\normalcolor ##1}}%
22168 }
22169
22170 \CloneTOCEntryStyle{section}{default}
22171
22172 \DeclareSectionCommand[%
22173 style=chapter,%
22174 level=\z@,%
22175 pagestyle=plain,%
22176 tocstyle=chapter,%
22177 tocindent=\z@,%
22178 tocnumwidth=1.5em%
22179 ]{chapter}
22180 \DeclareSectionCommand[%
22181 style=section,%
22182 level=1,%
22183 indent=\z@,%
22184 beforeskip=-3.5ex \@plus -1ex \@minus -.2ex,%
22185 afterskip=2.3ex \@plus.2ex,%
22186 tocstyle=section,%
22187 tocindentfollows=chapter,%
22188 tocindent=1.5em,%
22189 tocnumwidth=2.3em%
22190 ]{section}
22191 \DeclareSectionCommand[%
22192 style=part,%
22193 level=\m@ne,%
22194 pagestyle=plain,%
22195 tocstyle=part,%
22196 toclevel=\m@ne,%
22197 tocindent=\z@,%
22198 tocnumwidth=2em%
22199 ]{part}

```





```

22200 \DeclareSectionCommand[%
22201   style=section,%
22202   level=2,%
22203   indent=\z@,%
22204   beforekip=-3.25ex\@plus -1ex \@minus -.2ex,%
22205   afterskip=1.5ex \@plus .2ex,%
22206   tocstyle=section,%
22207   tocindent=3.8em,%
22208   tocnumwidth=3.2em%
22209 ]{subsection}
22210 \DeclareSectionCommand[%
22211   style=section,%
22212   level=3,%
22213   indent=\z@,%
22214   beforekip=-3.25ex\@plus -1ex \@minus -.2ex,%
22215   afterskip=1.5ex \@plus .2ex,%
22216   tocstyle=section,%
22217   tocindent=7.0em,%
22218   tocnumwidth=4.1em%
22219 ]{subsubsection}
22220 \DeclareSectionCommand[%
22221   style=section,%
22222   level=4,%
22223   indent=\z@,%
22224   beforekip=3.25ex \@plus 1ex \@minus .2ex,%
22225   afterskip=-1em,%
22226   tocindentfollows=subsubsection,%
22227   tocstyle=section,%
22228   tocindent=10em,%
22229   tocnumwidth=5em%
22230 ]{paragraph}
22231 \DeclareSectionCommand[%
22232   style=section,%
22233   level=5,%
22234   indent=\scr@parindent,%
22235   beforekip=3.25ex \@plus 1ex \@minus .2ex,%
22236   afterskip=-1em,%
22237   tocstyle=section,%
22238   tocindent=12em,%
22239   tocnumwidth=6em%
22240 ]{subparagraph}

```

## 144 File sidecap-xetex-bidi.def

```

22241 \ProvidesFile{sidecap-xetex-bidi.def}[2010/08/01 v0.1 bidi adaptations for sidecap package f
22242 \renewcommand*{\SC@FLOAT}[2]{\if@RTL%
22243   \isSC@ODD{#1}\hspace{\sidecaptionsep}{#2} {\#2}\hspace{\sidecaptionsep}{#1}}\else%
22244   \isSC@ODD{#2}\hspace{\sidecaptionsep}{#1} {\#1}\hspace{\sidecaptionsep}{#2}}\fi}
22245   \renewcommand*{\SC@justify@caption}{\if@RTL%
22246   \isSC@ODD{\RaggedLeft}{\RaggedRight}\else%
22247     \isSC@ODD{\RaggedRight}{\RaggedLeft}\fi}

```

## 145 File soul-xetex-bidi.def



```

22248 \ProvidesFile{soul-xetex-bidi.def}[2015/10/16 v0.1 bidi adaptations for soul package for XeT
22249 \long\def\SOUL@start#1{%
22250   \let\ bidi@RTL@everypar\@empty
22251   \let\<\SOUL@lowerthan
22252   \let\>\empty
22253   \def\soulomit{\noexpand\soulomit}%
22254   \gdef\SOUL@eventuallyexhyphen##1{%
22255     \let\SOUL@soeventuallyskip\relax
22256     \SOUL@spaceskip=\fontdimen\tw@\font\@plus\fontdimen\thr@@\font
22257       \@minus\fontdimen4\font
22258     \SOUL@ignorespacesfalse
22259     \leavevmode
22260     \SOUL@preamble
22261     \SOUL@lasttoken={}%
22262     \SOUL@word={}%
22263     \SOUL@minus\z@
22264     \SOUL@comma\z@
22265     \SOUL@apo\z@
22266     \SOUL@grave\z@
22267     \SOUL@do{#1}%
22268     \SOUL@postamble
22269   }}
22270 \def\SOUL@ulunderline#1{%
22271   \setbox\z@\hbox{#1}%
22272   \dimen@=\wd\z@
22273   \dimen@i=\SOUL@uloverlap
22274   \advance\dimen@2\dimen@i
22275   \if@RTL
22276     \unhcopy\z@
22277     \llap{%
22278       \null
22279       \kern-\dimen@i
22280       \SOUL@ulcolor{\SOUL@ulleaders\hskip\dimen@}%
22281     }%
22282   \else
22283     \rlap{%
22284       \null
22285       \kern-\dimen@i
22286       \SOUL@ulcolor{\SOUL@ulleaders\hskip\dimen@}%
22287     }%
22288     \unhcopy\z@
22289     \fi
22290   }}
22291 \def\ bidi@SOUL@ulleaders{%
22292   \leaders\hb@xt@0.1pt{\hss\SOUL@ulcolor{\vrule\@depth\SOUL@uldp\@height\SOUL@ulht}\hss}\r
22293 }
22294 \def\SOUL@uleveryspace#1{%
22295   \if@RTL
22296     #1%
22297     \ bidi@SOUL@ulleaders
22298     \hskip\spaceskip
22299   \else
22300     \SOUL@ulcolor{%
22301       #1%

```



```

22302         \SOUL@ulleaders
22303         \hskip\spaceskip
22304     }%
22305     \fi
22306     \null
22307 }

```

## 146 File stabular-xetex-bidi.def

```

22308 \ProvidesFile{stabular-xetex-bidi.def}[2015/11/07 v0.3 bidi adaptations for stabular package]
22309 \def\@stabular{%
22310     \leavevmode \bgroup \if@RTLtab\beginR \fi
22311     \let\@acol\@tabacol
22312     \let\@classz\@tabclassz
22313     \let\@classiv\@tabclassiv \let\\\@tabularcrr\@stabarray}
22314 \def\endstabular{\crr\egroup\if@RTLtab\egroup\endR\egroup\fi
22315     \egroup \if@RTLtab\endR\fi\egroup}
22316 \expandafter \let \csname endstabular*\endcsname = \endstabular
22317 \def\@sarray[#1]#2{%
22318     \bgroup
22319     \setbox\@arstrutbox\hbox{%
22320         \vrule \@height\arraystretch\ht\strutbox
22321         \@depth\arraystretch\dp\strutbox
22322         \@width\z@}%
22323     \mkpream{#2}%
22324     \edef\@preamble{%
22325         \ialign \noexpand\@halignto
22326         \bgroup \@arstrut \@preamble \tabskip\z@skip \cr}%
22327     \let\@startpbox\@startpbox \let\@endpbox\@endpbox
22328     \let\@tabularnewline\\%
22329     \let\@sharp##%
22330     \set@typeset@protect
22331     \lineskip\z@skip\baselineskip\z@skip
22332     \if@RTLtab\hbox\bgroup\beginR\@hboxRconstructtrue\if #1t\top \else \vbox \fi\bgroup\fi
22333     \@preamble}

```

## 147 File subfigure-xetex-bidi.def

```

22334 \ProvidesFile{subfigure-xetex-bidi.def}[2010/03/01 v0.1 bidi adaptations for subfigure package]
22335 \AtBeginDocument{%
22336     \let\p@subfigure=\thefigure
22337     \let\p@subtable=\thetable%
22338 }

```

## 148 File tabs-xetex-bidi.def

```

22339 \ProvidesFile{tabs-xetex-bidi.def}[2015/11/07 v0.3 bidi adaptations for tabs package for XeTeX]
22340 \def\endtabular{\endarray $\if@RTLtab\endR\fi\egroup}
22341
22342 \expandafter\let\csname endtabular*\endcsname=\endtabular
22343
22344 \def\endarray{\ifvmode\csname crr\endcsname % just do \crr if \ given
22345     \else \[\z@ \global\advance\@arstddepth-\@otarlinesep]%
22346     \fi\egroup\if@RTLtab\egroup\endR\egroup\fi\@unrecurse\egroup}

```



```

22347
22348 \def\@array[#1]#2{% remember global variables to allow recursion:
22349 \edef\@unrecurse{\global\@skip@bove\the\@skip@bove
22350 \global\@arstheight\the\@arstheight\global\@arstdepth\the\@arstdepth}%
22351 \let\@otarlinesep\@tarlinesep \global\@skip@bove-\@otarlinesep
22352 \ifx\@classz\@arrayclassz \let\@tarlinesep\arraylinesep
22353 \else \let\@tarlinesep\tablinesep \fi
22354 \divide\@tarlinesep\tw@ % half sep is applied to height & depth
22355 \let\@seesize\relax \let\@rememsize\relax \mkpream{#2}%
22356 \@tempdima\arraystretch\ht\strutbox \@tempdimb\arraystretch\dp\strutbox
22357 \ifdim\@tarlinesep>\z@ % (need \protect for \multicolumn)
22358 \def\@rememsize{\protect\@r@m@size}\let\@seesize\@s@size
22359 \advance\@tempdima-\@tarlinesep \advance\@tempdimb-\@tarlinesep
22360 \fi \setbox\@arstrutbox\hbox{% set up smaller strut
22361 \vrule \@height\@tempdima \@depth\@tempdimb \@width\z@}%
22362 \let\protect\noexpand
22363 \edef\@preamble{\ialign \noexpand\@halignto \bgroup
22364 \unhcopy\@arstrutbox \@preamble \tabskip\z@skip &\@sharp \cr}%
22365 \let\@startpbox\@startpbox \let\@endpbox\@endpbox
22366 \if#1t\top \else \if#1b\box \else \vcenter \fi\fi
22367 \bgroup \let\par\empty
22368 \global\@arstheight\ht\@arstrutbox \global\@arstdepth\dp\@arstrutbox
22369 \advance\extrarulesep.5\arrayrulewidth
22370 \let\@sharp##\let\protect\relax \lineskip\z@skip \baselineskip\z@skip
22371 \if@RTLtab\hbox\bgroup\beginR\@hboxRconstructtrue\if#1t\top \else \box \fi\bgroup\fi
22372 \@preamble}

```

## 149 File tabularx-xetex-bidi.def

```

22373 \ProvidesFile{tabularx-xetex-bidi.def}[2014/11/08 v0.1 bidi adaptations for tabularx package]
22374 \def\TX@endtabularx{%
22375 \expandafter\expandafter\expandafter
22376 \TX@find@endtabularxa\csname end\TX@\endcsname
22377 \endtabularx\TX@\endtabularx\TX@find@endtabularxa
22378 \expandafter\TX@newcol\expandafter{\tabularxcolumn{\TX@col@width}}}%
22379 \let\verb\TX@verb
22380 \def\@elt##1{\global\value{##1}\the\value{##1}\relax}%
22381 \edef\TX@ckpt{\cl@ckpt}%
22382 \let\@elt\relax
22383 \TX@old@table\maxdimen
22384 \TX@col@width\TX@target
22385 \global\TX@cols\@ne
22386 \TX@typeout@
22387 {\@spaces Table Width\@spaces Column Width\@spaces X Columns}%
22388 \TX@trial{\def\NC@rewriteX{%
22389 \global\advance\TX@cols\@ne\NC@find p{\TX@col@width}}}%
22390 \loop
22391 \TX@arith
22392 \ifTX@
22393 \TX@trial}%
22394 \repeat
22395 {\let\@footnotetext\TX@fnttext\let\@xfootnotenext\TX@xftntext
22396 \let\@LTRfootnotetext\TX@LTRfnttext\let\@xLTRfootnotenext\TX@xLTRfnttext
22397 \let\@RTLfootnotetext\TX@RTLfnttext\let\@xRTLfootnotenext\TX@xRTLfnttext

```



```

22398 \csname tabular*\expandafter\endcsname\expandafter\TX@target
22399 \the\toks@
22400 \csname endtabular*\endcsname}%
22401 \global\TX@ftn\expandafter{\expandafter}\the\TX@ftn
22402 \ifnum0=\fi}%
22403 \expandafter\expandafter\expandafter
22404 \TX@find@endtabularxbb
22405 \expandafter\end\expandafter{\TX@}%
22406 \endtabularx\TX@\endtabularx\TX@find@endtabularxb
22407 }
22408
22409 \def\TX@trial#1{%
22410 \setbox\@tempboxa\hbox{%
22411 #1\relax
22412 \let\@footnotetext\TX@trial@ftn
22413 \let\@LTRfootnotetext\TX@trial@ftn
22414 \let\@RTLfootnotetext\TX@trial@ftn
22415 \let\TX@vwarn\@empty
22416 \expandafter\let\expandafter\tabularx\csname tabular*\endcsname
22417 \expandafter\let\expandafter\endtabularx\csname endtabular*\endcsname
22418 \def\write{\begingroup
22419 \def\let{\afterassignment\endgroup\toks@}%
22420 \afterassignment\let\count@}%
22421 \hbadness\@M
22422 \hfuzz\maxdimen
22423 \let\hbadness\@tempcnta
22424 \let\hfuzz\@tempdima
22425 \expandafter\tabular\the\toks@
22426 \endtabular}%
22427 \TX@ckpt
22428 \TX@typeout@{\@spaces
22429 \expandafter\TX@align
22430 \the\wd\@tempboxa\space\space\space\space\space\@@
22431 \expandafter\TX@align
22432 \the\TX@col@width\space\space\space\space\space\@@
22433 \@spaces\the\TX@cols}}
22434
22435 \long\def\TX@LTRftntext#1{%
22436 \edef\@tempa{\the\TX@ftn\noexpand\LTRfootnotetext
22437 [\the\csname c@\@mpfn\endcsname]}}%
22438 \global\TX@ftn\expandafter{\@tempa{#1}}}%
22439 \long\def\TX@xLTRftntext[#1]#2{%
22440 \global\TX@ftn\expandafter{\the\TX@ftn\LTRfootnotetext[#1]{#2}}}
22441
22442 \long\def\TX@RTLftntext#1{%
22443 \edef\@tempa{\the\TX@ftn\noexpand\RTLfootnotetext
22444 [\the\csname c@\@mpfn\endcsname]}}%
22445 \global\TX@ftn\expandafter{\@tempa{#1}}}%
22446 \long\def\TX@xRTLftntext[#1]#2{%
22447 \global\TX@ftn\expandafter{\the\TX@ftn\RTLfootnotetext[#1]{#2}}}

```

## 150 File tabulary-xetex-bidi.def

22448 \ProvidesFile{tabulary-xetex-bidi.def}[2010/07/25 v0.1 bidi adaptations for tabulary package]



```

22449 \def\@testpach{\@chclass
22450 \ifnum \@lastchclass=6 \@ne \@chnum \@ne \else
22451 \ifnum \@lastchclass=7 5 \else
22452 \ifnum \@lastchclass=8 \tw@ \else
22453 \ifnum \@lastchclass=9 \thr@@
22454 \else \z@
22455 \ifnum \@lastchclass = 10 \else
22456 \edef\@nextchar{\expandafter\string\@nextchar}%
22457 \@chnum
22458 \if \@nextchar c\z@ \else
22459 \if \@nextchar \if@RTLtab r\else l\fi\@ne \else
22460 \if \@nextchar \if@RTLtab l\else r\fi\tw@ \else
22461 \if \@nextchar C7 \else
22462 \if \@nextchar L8 \else
22463 \if \@nextchar R9 \else
22464 \if \@nextchar J10 \else
22465 \z@ \@chclass
22466 \if\@nextchar |\@ne \else
22467 \if \@nextchar !6 \else
22468 \if \@nextchar @7 \else
22469 \if \@nextchar <8 \else
22470 \if \@nextchar >9 \else
22471 10
22472 \@chnum
22473 \if \@nextchar m\thr@@\else
22474 \if \@nextchar p4 \else
22475 \if \@nextchar b5 \else
22476 \z@ \@chclass \z@ \@preamerr \z@ \fi \fi \fi \fi \fi \fi \fi \fi \fi
22477 \fi \fi \fi \fi \fi \fi \fi \fi \fi \fi \fi \fi}

```

## 151 File tc-xetex-bidi.def

```

22478 \ProvidesFile{tc-xetex-bidi.def}[2014/07/08 v0.1 bidi adaptations for Clipping driver for Xe
22479 \def\@cliptoboxdim#1{%
22480 \setbox#1=\hbox{%
22481 \Gin@defaultbp\WIDTH{\wd#1}%
22482 \Gin@defaultbp\DEPTH{\dp#1}%
22483 \@tempdima\ht#1%
22484 \advance\@tempdima\dp#1%
22485 \Gin@defaultbp\TOTALHEIGHT{\@tempdima}%
22486 \beginL\special{pdf:bcontent }%
22487 \special{%
22488 pdf:literal direct
22489 0 -\DEPTH\space \WIDTH\space \TOTALHEIGHT\space re
22490 }%
22491 \special{pdf:literal direct W }%
22492 \special{pdf:literal direct n }%
22493 \if@RTL\beginR\fi\box#1\if@RTL\endR\fi%
22494 \special{pdf:econtent }\endL%
22495 }%
22496 }

```

## 152 File tcolorbox-xetex-bidi.def



```

22497 \ProvidesFile{tcolorbox-xetex-bidi.def}[2018/11/11 v0.2 bidi adaptations for tcolorbox packa
22498 \let\endtcbox@lrbox=\endminipage
22499 \let\endtcbox@savebox=\endtcbox@lrbox
22500
22501 \bidi@patchcmd{\tcbox@vbox}{%
22502   \let\@footnotetext\@mpfootnotetext%
22503 }{%
22504   \let\@footnotetext\@mpfootnotetext%
22505   \let\@LTRfootnotetext\@mpLTRfootnotetext%
22506   \let\@RTLfootnotetext\@mpRTLfootnotetext%
22507 }{}{}
22508
22509 \bidi@patchcmd{\endtcbox@vbox}{%
22510   \footnoterule%
22511 }{%
22512   \bidi@mpfootnoterule%
22513 }{}{}
22514 \bidi@apptocmd{\tcbox@icolorbox{%
22515   \@bidi@list@minipage@parboxfalse
22516 }{}{}

```

## 153 File titlesec-xetex-bidi.def

```

22517 \ProvidesFile{titlesec-xetex-bidi.def}[2010/07/25 v0.1 bidi adaptations for titlesec package
22518 \renewcommand\filright{%
22519   \gdef\ttl@filleft##1{\hskip##1}%
22520   \gdef\ttl@filright##1{\hfill}%
22521   \let\\\@centercr
22522   \advance\rightskip\z@ \@plus 1fil
22523   \parfillskip\z@}
22524 \def\ttlh@hang#1#2#3#4#5#6#7#8{%
22525   \gdef\ttl@makeline##1{\ttl@calc\hspace{#6}##1\ttl@calc\hspace{#7}}%
22526   \setlength\leftskip{#6}%
22527   \setlength\rightskip{#7}%
22528   \interlinepenalty\@M
22529   \ttl@changecentercr
22530   \ttl@beginlongest
22531   #1{\ifhmode\ttl@hmode@error\fi
22532     \ttl@glcmds
22533     \parindent\z@
22534     \leavevmode
22535     \begingroup
22536     \ifttl@label
22537       \sbox\z@{#2\strut\ttl@calc\hspace{#3}}%
22538       \if@RTL\advance\rightskip\wd\z@else\advance\leftskip\wd\z@\fi
22539       \llap{\box\z@}%
22540     \fi
22541     #4{#8}%
22542     \kern\z@\strut\@par
22543   \endgroup
22544   \nobreak\ttl@midlongest#5\@par}%
22545   \ttl@endlongest}

```



## 154 File titletoc-xetex-bidi.def

```
22546 \ProvidesFile{titletoc-xetex-bidi.def}[2013/04/10 v0.2 bidi adaptations for titletoc package]
22547 \renewcommand\filright{%
22548   \gdef\ttl@filleft##1{\hskip##1}%
22549   \gdef\ttl@filright##1{\hfill}%
22550   \let\\\@centercr
22551   \advance\rightskip\z@ \@plus 1fil
22552 \parfillskip\z@}
22553 \renewcommand\contentspush[1]{%
22554   \sbox\z@{##1}%
22555   \xdef\ttl@b{\advance\if@RTL\rightskip\else\leftskip\fi\the\wd\z@}%
22556   \aftergroup\ttl@b
22557   \leavevmode\llap{\box\z@}}
22558 \def\ttl@outnoblock#1#2#3{%
22559   \begingroup
22560   \ifnum\ttl@b>\ttl@a
22561     \nobreak
22562   \else\ifnum\ttl@b<\ttl@a
22563     \addpenalty{\@secpenalty}%
22564   \else
22565     \addpenalty{\z@}%
22566   \fi\fi
22567   \ttl@contentsstretch
22568   \nobreak
22569   \ifcase#1\relax\else\interlinepenalty\@M\fi
22570   \parindent\z@
22571   \ifx\@nil#2%
22572     \PackageError{titletoc}{Unimplemented}%
22573     {The optional argument is currently mandatory}%
22574   \else
22575     \if@RTL\setlength\rightskip{#2}\else
22576     \setlength\leftskip{#2}\fi%
22577   \fi
22578   \if@RTL\setlength\leftskip{\@pnumwidth}\else\setlength\rightskip{\@pnumwidth}\fi%
22579   \let\contentsmargin\ttl@margin
22580   \def\ttl@makeline##1{##1}%
22581   #3%
22582   \addtolength{\parfillskip}{-\ttl@corr}%
22583   \if@RTL\addtolength{\leftskip}{\ttl@corr}\else\addtolength{\rightskip}{\ttl@corr}\fi%
22584   \let\ttl@leaders\leaders}
22585 \renewcommand\ttl@margin[2][\z@]{%
22586   \def\ttl@corr{#1}%
22587   \advance\if@RTL\leftskip\else\rightskip\fi-\@pnumwidth\relax
22588   \advance\if@RTL\leftskip\else\rightskip\fi#2\relax
22589   \def\@pnumwidth{#2}}
22590 \let\ttl@savel@part\l@part
22591 \def\l@part{\ttl@lselect{part}}
22592
22593 \let\ttl@savel@chapter\l@chapter
22594 \def\l@chapter{\ttl@lselect{chapter}}
```

## 155 File tocibind-xetex-bidi.def





```

22595 \ProvidesFile{tocbibind-xetex-bidi.def}[2017/06/09 v0.4 bidi adaptations for tocbibind packa
22596 \if@dotocbib
22597   \ifpackageloaded{natbib}{}{% natbib not loaded
22598     \renewcommand{\bibsection}{\t@cb@bchapsec}
22599     \renewenvironment{thebibliography}[1]{%
22600       \bibsection
22601       \begin{thebibitemlist}{#1}{\end{thebibitemlist}}}
22602   \renewenvironment{thebibitemlist}[1]{
22603     \if@RTL\if@LTRbibitems\@RTLfalse\else\fi\else\if@RTLbibitems\@RTLtrue\else\fi\fi
22604     \bidi@thebibliography@font@hook%
22605     \list{\@biblabel{\@arabic{c@enumiv}}}%
22606       {\settowidth\labelwidth{\@biblabel{#1}}%
22607         \leftmargin\labelwidth
22608         \advance\leftmargin\labelsep
22609         \@openbib@code
22610         \usecounter{enumiv}%
22611         \let\p@enumiv\@empty
22612         \renewcommand\theenumiv{\@arabic{c@enumiv}}}%
22613     \sloppy
22614     \clubpenalty4000
22615     \@clubpenalty \clubpenalty
22616     \widowpenalty4000%
22617     \sfcode`\.\@m}
22618   {\def\@noitemerr
22619     {\@latex@warning{Empty `thebibliography' environment}}}%
22620   \endlist}
22621
22622 \ifpackagewith{chapterbib}{sectionbib}%
22623   {\renewcommand{\sectionbib}[2]{}%
22624   {}
22625
22626 \fi
22627 \if@inltxdoc\else
22628   \renewenvironment{theindex}%
22629     {\if@twocolumn
22630       \@restonecolfalse
22631       \else
22632         \@restonecoltrue
22633       \fi
22634     \if@bibchapter
22635       \if@donumindex
22636         \refstepcounter{chapter}
22637         \twocolumn[\vspace*{2\topskip}%
22638           \@makechapterhead{\indexname}}%
22639         \addcontentsline{toc}{chapter}{\protect\numberline{\thechapter}\indexname}
22640         \chaptermark{\indexname}
22641       \else
22642         \if@dotocind
22643           \twocolumn[\vspace*{2\topskip}%
22644             \@makeschapterhead{\indexname}}%
22645           \prw@mkboth{\indexname}
22646           \addcontentsline{toc}{chapter}{\indexname}
22647         \else
22648           \twocolumn[\vspace*{2\topskip}%

```



```

22649             \@makeschapterhead{\indexname}}%
22650             \prw@mkboth{\indexname}
22651         \fi
22652     \fi
22653 \else
22654     \if@donumindex
22655         \twocolumn[\vspace*{-1.5\topskip}%
22656             \@nameuse{\@tocextra}{\indexname}}%
22657         \csname \@tocextra mark\endcsname{\indexname}
22658     \else
22659         \if@dotocind
22660             \twocolumn[\vspace*{-1.5\topskip}%
22661                 \toc@headstar{\@tocextra}{\indexname}}%
22662             \prw@mkboth{\indexname}
22663             \addcontentsline{toc}{\@tocextra}{\indexname}
22664         \else
22665             \twocolumn[\vspace*{-1.5\topskip}%
22666                 \toc@headstar{\@tocextra}{\indexname}}%
22667             \prw@mkboth{\indexname}
22668         \fi
22669     \fi
22670 \fi
22671 \thispagestyle{plain}\parindent\z@
22672 \parskip\z@ \@plus .3\p@\relax
22673 \let\item\@idxitem}
22674 {\if@restonecol\onecolumn\else\clearpage\fi}
22675 \fi

```

## 156 File tocloft-xetex-bidi.def

```

22676 \ProvidesFile{tocloft-xetex-bidi.def}[2010/07/25 v0.2 bidi adaptations for tocloft package f
22677 \let\cftdot\@SepMark
22678 \if@cfthaspart
22679 \renewcommand*{\l@part}[2]{
22680     \@cftdopartfalse
22681     \ifnum \c@tocdepth >-2\relax
22682         \if@cfthaschapter
22683             \@cftdoparttrue
22684         \fi
22685         \ifnum \c@tocdepth >\m@ne
22686             \if@cfthaschapter\else
22687                 \@cftdoparttrue
22688             \fi
22689         \fi
22690     \fi
22691     \if@cftdopart
22692         \if@cfthaschapter
22693             \addpenalty{-\@highpenalty}
22694         \else
22695             \addpenalty\@secpenalty
22696         \fi
22697         \addvspace{\cftbeforepartskip}
22698         \begingroup
22699         {\if@RTL\rightskip\else\leftskip\fi \cftpartindent\relax

```



```

22700     \if@RTL\leftskip\else\rightskip\fi \@tocrmarg
22701     \parfillskip -\if@RTL\leftskip\else\rightskip\fi
22702     \parindent \cftpartindent\relax\@afterindenttrue
22703     \interlinepenalty\@M
22704     \leavevmode
22705     \@tempdima \cftpartnumwidth\relax
22706     \let\@cftbsnum \cftpartpresnum
22707     \let\@cftasnum \cftpartaftersnum
22708     \let\@cftasnumb \cftpartaftersnumb
22709     \advance\if@RTL\rightskip\else\leftskip\fi \@tempdima \null\nobreak\hskip -\if@RTL\ri
22710     {\cftpartfont \cftpartpresnum #1}
22711     \cftpartfillnum{#2}}
22712     \nobreak
22713     \if@cfthaschapter
22714         \global\@nobreaktrue
22715         \everypar{\global\@nobreakfalse\everypar{}}
22716     \else
22717         \if@compatibility
22718             \global\@nobreaktrue
22719             \everypar{\global\@nobreakfalse\everypar{}}
22720         \fi
22721     \fi
22722     \endgroup
22723 \fi}
22724 \fi
22725 \if@cfthaschapter
22726 \renewcommand*{\l@chapter}[2]{
22727     \ifnum \c@tocdepth >\m@ne
22728         \addpenalty{-\@highpenalty}
22729         \vskip \cftbeforechapskip
22730         {\if@RTL\rightskip\else\leftskip\fi \cftchapindent\relax
22731         \if@RTL\leftskip\else\rightskip\fi \@tocrmarg
22732         \parfillskip -\if@RTL\leftskip\else\rightskip\fi
22733         \parindent \cftchapindent\relax\@afterindenttrue
22734         \interlinepenalty\@M
22735         \leavevmode
22736         \@tempdima \cftchapnumwidth\relax
22737         \let\@cftbsnum \cftchappresnum
22738         \let\@cftasnum \cftchapaftersnum
22739         \let\@cftasnumb \cftchapaftersnumb
22740         \advance\if@RTL\rightskip\else\leftskip\fi \@tempdima \null\nobreak\hskip -\if@RTL\ri
22741         {\cftchapfont #1}\nobreak
22742         \cftchapfillnum{#2}}
22743     \fi}
22744 \fi
22745 \renewcommand*{\l@section}[2]{%
22746     \ifnum \c@tocdepth >\z@
22747         \if@cfthaschapter
22748             \vskip \cftbeforesecskip
22749         \else
22750             \addpenalty\@secpenalty
22751             \addvspace{\cftbeforesecskip}
22752         \fi
22753         {\if@RTL\rightskip\else\leftskip\fi \cftsecindent\relax

```



```

22754 \if@RTL\leftskip\else\rightskip\fi \@tocrmarg
22755 \parfillskip -\if@RTL\leftskip\else\rightskip\fi
22756 \parindent \cftsecindent\relax\@afterindenttrue
22757 \interlinepenalty\@M
22758 \leavevmode
22759 \@tempdima \cftsecnumwidth\relax
22760 \let\@cftbsnum \cftsecpresnum
22761 \let\@cftasnum \cftsecaftersnum
22762 \let\@cftasnumb \cftsecaftersnumb
22763 \advance\if@RTL\rightskip\else\leftskip\fi \@tempdima \null\nobreak\hskip -\if@RTL\right
22764 {\cftsecfont #1}\nobreak
22765 \cftsecfillnum{#2}}
22766 \fi}
22767 \renewcommand*{\l@section}[2]{%
22768 \ifnum \c@tocdepth >\@ne
22769 \vskip \cftbeforesubsecskip
22770 {\if@RTL\rightskip\else\leftskip\fi \cftsubsecindent\relax
22771 \if@RTL\leftskip\else\rightskip\fi \@tocrmarg
22772 \parfillskip -\if@RTL\leftskip\else\rightskip\fi
22773 \parindent \cftsubsecindent\relax\@afterindenttrue
22774 \interlinepenalty\@M
22775 \leavevmode
22776 \@tempdima \cftsubsecnumwidth\relax
22777 \let\@cftbsnum \cftsubsecpresnum
22778 \let\@cftasnum \cftsubsecaftersnum
22779 \let\@cftasnumb \cftsubsecaftersnumb
22780 \advance\if@RTL\rightskip\else\leftskip\fi \@tempdima \null\nobreak\hskip -\if@RTL\right
22781 {\cftsubsecfont #1}\nobreak
22782 \cftsubsecfillnum{#2}}
22783 \fi}
22784 \renewcommand*{\l@subsubsection}[2]{%
22785 \ifnum \c@tocdepth >\tw@
22786 \vskip \cftbeforesubsubsecskip
22787 {\if@RTL\rightskip\else\leftskip\fi \cftsubsubsecindent\relax
22788 \if@RTL\leftskip\else\rightskip\fi \@tocrmarg
22789 \parfillskip -\if@RTL\leftskip\else\rightskip\fi
22790 \parindent \cftsubsubsecindent\relax\@afterindenttrue
22791 \interlinepenalty\@M
22792 \leavevmode
22793 \@tempdima \cftsubsubsecnumwidth\relax
22794 \let\@cftbsnum \cftsubsubsecpresnum
22795 \let\@cftasnum \cftsubsubsecaftersnum
22796 \let\@cftasnumb \cftsubsubsecaftersnumb
22797 \advance\if@RTL\rightskip\else\leftskip\fi \@tempdima \null\nobreak\hskip -\if@RTL\right
22798 {\cftsubsubsecfont #1}\nobreak
22799 \cftsubsubsecfillnum{#2}}
22800 \fi}
22801 \renewcommand*{\l@paragraph}[2]{%
22802 \ifnum \c@tocdepth >3\relax
22803 \vskip \cftbeforeparaskip
22804 {\if@RTL\rightskip\else\leftskip\fi \cftparaindent\relax
22805 \if@RTL\leftskip\else\rightskip\fi \@tocrmarg
22806 \parfillskip -\if@RTL\leftskip\else\rightskip\fi
22807 \parindent \cftparaindent\relax\@afterindenttrue

```



```

22808 \interlinepenalty\@M
22809 \leavevmode
22810 \@tempdima \cftparanumwidth\relax
22811 \let\@cftbsnum \cftparapresnum
22812 \let\@cftasnum \cftparaaftersnum
22813 \let\@cftasnumb \cftparaaftersnumb
22814 \advance\if@RTL\righskip\else\leftskip\fi \@tempdima \null\nobreak\hskip -\if@RTL\righ
22815 {\cftparafont #1}\nobreak
22816 \cftparafillnum{#2}}
22817 \fi}
22818 \renewcommand*\l@subparagraph}[2]{%
22819 \ifnum \c@tocdepth >4\relax
22820 \vskip \cftbeforesubparaskip
22821 {\if@RTL\righskip\else\leftskip\fi \cftsubparaindent\relax
22822 \if@RTL\leftskip\else\rightskip\fi \@tocrmarg
22823 \parfillskip -\if@RTL\leftskip\else\rightskip\fi
22824 \parindent \cftsubparaindent\relax\@afterindenttrue
22825 \interlinepenalty\@M
22826 \leavevmode
22827 \@tempdima \cftsubparanumwidth\relax
22828 \let\@cftbsnum \cftsubparapresnum
22829 \let\@cftasnum \cftsubparaaftersnum
22830 \let\@cftasnumb \cftsubparaaftersnumb
22831 \advance\if@RTL\righskip\else\leftskip\fi \@tempdima \null\nobreak\hskip -\if@RTL\righ
22832 {\cftsubparafont #1}\nobreak
22833 \cftsubparafillnum{#2}}
22834 \fi}
22835 \renewcommand*\l@figure}[2]{%
22836 \ifnum \c@lofdepth >\z@
22837 \vskip \cftbeforefigskip
22838 {\if@RTL\righskip\else\leftskip\fi \cftfigindent\relax
22839 \if@RTL\leftskip\else\rightskip\fi \@tocrmarg
22840 \parfillskip -\if@RTL\leftskip\else\rightskip\fi
22841 \parindent \cftfigindent\relax\@afterindenttrue
22842 \interlinepenalty\@M
22843 \leavevmode
22844 \@tempdima \cftfignumwidth\relax
22845 \let\@cftbsnum \cftfigpresnum
22846 \let\@cftasnum \cftfigaftersnum
22847 \let\@cftasnumb \cftfigaftersnumb
22848 \advance\if@RTL\righskip\else\leftskip\fi \@tempdima \null\nobreak\hskip -\if@RTL\righ
22849 {\cftfigfont #1}\nobreak
22850 \cftfigfillnum{#2}}
22851 \fi
22852 }
22853 \renewcommand*\l@table}[2]{%
22854 \ifnum \c@lotdepth >\z@
22855 \vskip \cftbeforetabskip
22856 {\if@RTL\righskip\else\leftskip\fi \cfttabindent\relax
22857 \if@RTL\leftskip\else\rightskip\fi \@tocrmarg
22858 \parfillskip -\if@RTL\leftskip\else\rightskip\fi
22859 \parindent \cfttabindent\relax\@afterindenttrue
22860 \interlinepenalty\@M
22861 \leavevmode

```



```

22862 \@tempdima \cfttabnumwidth\relax
22863 \let\@cftbsnum \cfttabpresnum
22864 \let\@cftasnum \cfttabaftersnum
22865 \let\@cftasnumb \cfttabaftersnumb
22866 \advance\if@RTL\rightskip\else\leftskip\fi \@tempdima \null\nobreak\hskip -\if@RTL\right
22867 {\cfttabfont #1}\nobreak
22868 \cfttabfillnum{#2}}
22869 \fi
22870 }
22871 \renewcommand{\@cftl@subfig}{
22872 \renewcommand*{\l@subfigure}[2]{%
22873 \ifnum \c@lofdepth > \toclevel@subfigure
22874 \vskip \cftbeforesubfigskip
22875 {\if@RTL\rightskip\else\leftskip\fi \cftsubfigindent\relax
22876 \if@RTL\leftskip\else\rightskip\fi \@tocrmarg
22877 \parfillskip -\if@RTL\leftskip\else\rightskip\fi
22878 \parindent \cftsubfigindent\relax\@afterindenttrue
22879 \interlinepenalty\@M
22880 \leavevmode
22881 \@tempdima \cftsubfignumwidth\relax
22882 \let\@cftbsnum \cftsubfigpresnum
22883 \let\@cftasnum \cftsubfigaftersnum
22884 \let\@cftasnumb \cftsubfigaftersnumb
22885 \advance\if@RTL\rightskip\else\leftskip\fi \@tempdima \null\nobreak\hskip -\if@RTL\right
22886 {\cftsubfigfont ##1}\nobreak
22887 \cftsubfigfillnum{##2}}
22888 \fi
22889 }
22890 }
22891 \renewcommand{\@cftl@subtab}{
22892 \renewcommand*{\l@subtable}[2]{%
22893 \ifnum \c@lotdepth > \toclevel@subtable
22894 \vskip \cftbeforesubtabskip
22895 {\if@RTL\rightskip\else\leftskip\fi \cftsubtabindent\relax
22896 \if@RTL\leftskip\else\rightskip\fi \@tocrmarg
22897 \parfillskip -\if@RTL\leftskip\else\rightskip\fi
22898 \parindent \cftsubtabindent\relax\@afterindenttrue
22899 \interlinepenalty\@M
22900 \leavevmode
22901 \@tempdima \cftsubtabnumwidth\relax
22902 \let\@cftbsnum \cftsubtabpresnum
22903 \let\@cftasnum \cftsubtabaftersnum
22904 \let\@cftasnumb \cftsubtabaftersnumb
22905 \advance\if@RTL\rightskip\else\leftskip\fi \@tempdima \null\nobreak\hskip -\if@RTL\right
22906 {\cftsubtabfont ##1}\nobreak
22907 \cftsubtabfillnum{##2}}
22908 \fi
22909 }
22910 }
22911 \renewcommand{\newlistentry}[4][\@empty]{%
22912 \ifundefined{c@#2}{% check & set the counter
22913 \ifx \@empty#1\relax
22914 \newcounter{#2}
22915 \else

```



```

22916 \ifundefined{c@#1}{\PackageWarning{tocloft}%
22917     {#1 has no counter for use as a `within'}
22918     \newcounter{#2}}%
22919 {\newcounter{#2}[#1]%
22920 \expandafter\edef\csname the#2\endcsname{%
22921     \expandafter\noexpand\csname the#1\endcsname\@SepMark\noexpand\arabic{#2}}}
22922 \fi
22923 \setcounter{#2}{0}
22924 }
22925 {\PackageError{tocloft}{#2 has been previously defined}{\@eha}}
22926
22927 \@namedef{l@#2}##1##2{%
22928     \ifnum \@nameuse{c@#3depth} > #4\relax
22929     \vskip \@nameuse{cftbefore#2skip}
22930     {\ifRTL\rightskip\else\leftskip\fi \@nameuse{cft#2indent}\relax
22931     \ifRTL\leftskip\else\rightskip\fi \@tocrmarg
22932     \parfillskip -\ifRTL\leftskip\else\rightskip\fi
22933     \parindent \@nameuse{cft#2indent}\relax\@afterindenttrue
22934     \interlinepenalty\@M
22935     \leavevmode
22936     \@tempdima \@nameuse{cft#2numwidth}\relax
22937     \expandafter\let\expandafter\@cftbsnum\csname cft#2presnum\endcsname
22938     \expandafter\let\expandafter\@cftasnum\csname cft#2aftersnum\endcsname
22939     \expandafter\let\expandafter\@cftasnumb\csname cft#2aftersnumb\endcsname
22940     \advance\ifRTL\rightskip\else\leftskip\fi\@tempdima \null\nobreak\hskip -\ifRTL\right
22941     {\@nameuse{cft#2font}##1}\nobreak
22942     \@nameuse{cft#2fillnum}{##2}}
22943 \fi
22944 } % end of l@#2
22945
22946 \expandafter\newlength\csname cftbefore#2skip\endcsname
22947 \setlength{\@nameuse{cftbefore#2skip}}{\z@ \@plus .2p@}
22948 \expandafter\newlength\csname cft#2indent\endcsname
22949 \expandafter\newlength\csname cft#2numwidth\endcsname
22950 \ifcase #4\relax % 0
22951     \setlength{\@nameuse{cft#2indent}}{0em}
22952     \setlength{\@nameuse{cft#2numwidth}}{1.5em}
22953 \or % 1
22954     \setlength{\@nameuse{cft#2indent}}{1.5em}
22955     \setlength{\@nameuse{cft#2numwidth}}{2.3em}
22956 \or % 2
22957     \setlength{\@nameuse{cft#2indent}}{3.8em}
22958     \setlength{\@nameuse{cft#2numwidth}}{3.2em}
22959 \or % 3
22960     \setlength{\@nameuse{cft#2indent}}{7.0em}
22961     \setlength{\@nameuse{cft#2numwidth}}{4.1em}
22962 \else % anything else
22963     \setlength{\@nameuse{cft#2indent}}{10.0em}
22964     \setlength{\@nameuse{cft#2numwidth}}{5.0em}
22965 \fi
22966 \@namedef{cft#2font}{\normalfont}
22967 \@namedef{cft#2presnum}{}
22968 \@namedef{cft#2aftersnum}{}
22969 \@namedef{cft#2aftersnumb}{}

```



```

22970 \@namedef{cft#2dotsep}{\cftdotsep}
22971 \@namedef{cft#2leader}{\normalfont\cftdotfill{\@nameuse{cft#2dotsep}}}
22972 \@namedef{cft#2pagefont}{\normalfont}
22973 \@namedef{cft#2afterpnum}{}
22974 \@namedef{toclevel@#2}{#4}
22975 \@namedef{cft#2fillnum}##1{%
22976   {\@nameuse{cft#2leader}}\nobreak
22977   \hb@xt@{\pnumwidth}{\hfil\@nameuse{cft#2pagefont}##1}\@nameuse{cft#2afterpnum}\par}
22978 } % end \newlistentry
22979 \renewcommand{\cftchapterprecistoc}[1]{\addtocontents{toc}{%
22980   {\ifRTL\righskip\else\leftskip\fi \cftchapindent\relax
22981   \advance\ifRTL\righskip\else\leftskip\fi \cftchapnumwidth\relax
22982   \ifRTL\leftskip\else\righskip\fi \@tocrmarg\relax
22983   \textit{#1}\protect\par}}}

```

## 157 File tocbasic-xetex-bidi.def

```

22984 \ProvidesFile{tocbasic-xetex-bidi.def}[2022/06/15 v0.5 bidi adaptations for tocbasic package]
22985 \bidi@undef\scr@dte@def@l@undottedtocline
22986 \bidi@undef\scr@dte@undottedtocline@init
22987 \DeclareTOCEntryStyle{undottedtocline}{%
22988   \DefineTOCEntryLengthOption{indent}%
22989   {scr@tso@}{@indent}{entry indent}%
22990   \DefineTOCEntryLengthOption{numwidth}%
22991   {scr@tso@}{@numwidth}{entry number width}%
22992   \@ifundefined{#1tocdepth}{%
22993     \Ifstr{#1}{part}{\@namedef{#1tocdepth}{-1}}{%
22994       \Ifstr{#1}{chapter}{\@namedef{#1tocdepth}{0}}{%
22995         \Ifstr{#1}{section}{\@namedef{#1tocdepth}{1}}{%
22996           \Ifstr{#1}{subsection}{\@namedef{#1tocdepth}{2}}{%
22997             \Ifstr{#1}{subsubsection}{\@namedef{#1tocdepth}{3}}{%
22998               \Ifstr{#1}{paragraph}{\@namedef{#1tocdepth}{4}}{%
22999                 \Ifstr{#1}{subparagraph}{\@namedef{#1tocdepth}{5}}{%
23000                   \Ifstr{#1}{figure}{\@namedef{#1tocdepth}{1}}{%
23001                     \Ifstr{#1}{table}{\@namedef{#1tocdepth}{1}}{%
23002                       \expandafter\let\csname #1tocdepth\expandafter\endcsname
23003                       \csname #1numdepth\endcsname
23004                     }%
23005                   }%
23006                 }%
23007               }%
23008             }%
23009           }%
23010         }%
23011       }%
23012     }%
23013   }{}%
23014   \@ifundefined{scr@tso@#1@indent}{%
23015     \@ifundefined{scr@#1@tocindent}{%
23016       \Ifstr{#1}{figure}{\@namedef{scr@tso@#1@indent}{1.5em}}{%
23017         \Ifstr{#1}{table}{\@namedef{scr@tso@#1@indent}{1.5em}}{%
23018           \Ifstr{#1}{part}{\@namedef{scr@tso@#1@indent}{0em}}{%
23019             \Ifstr{#1}{chapter}{\@namedef{scr@tso@#1@indent}{0em}}{%
23020               \scr@ifundefinedorrelax{#1@chapter}{%

```





```

23021 \Ifstr{#1}{section}{\@namedef{scr@tso@#1@indent}{0pt}}{%
23022 \Ifstr{#1}{subsection}{\@namedef{scr@tso@#1@indent}{1.5em}}{%
23023 \Ifstr{#1}{subsubsection}{%
23024 \@namedef{scr@tso@#1@indent}{3.8em}%
23025 }{%
23026 \Ifstr{#1}{paragraph}{%
23027 \@namedef{scr@tso@#1@indent}{7em}%
23028 }{%
23029 \Ifstr{#1}{subparagraph}{%
23030 \@namedef{scr@tso@#1@indent}{10em}%
23031 }{%
23032 }%
23033 }%
23034 }%
23035 }%
23036 }%
23037 }{%
23038 \Ifstr{#1}{section}{\@namedef{scr@tso@#1@indent}{1.5em}}{%
23039 \Ifstr{#1}{subsection}{\@namedef{scr@tso@#1@indent}{3.8em}}{%
23040 \Ifstr{#1}{subsubsection}{%
23041 \@namedef{scr@tso@#1@indent}{7.0em}%
23042 }{%
23043 \Ifstr{#1}{paragraph}{%
23044 \@namedef{scr@tso@#1@indent}{10em}%
23045 }{%
23046 \Ifstr{#1}{subparagraph}{%
23047 \@namedef{scr@tso@#1@indent}{12em}%
23048 }{%
23049 }%
23050 }%
23051 }%
23052 }%
23053 }%
23054 }%
23055 }%
23056 }%
23057 }%
23058 }%
23059 }{%
23060 \@namedef{scr@tso@#1@indent}{\@nameuse{scr@#1@tocindent}}%
23061 }%
23062 }{%}%
23063 \@ifundefined{scr@tso@#1@numwidth}{%
23064 \@ifundefined{scr@#1@tocnumwidth}{%
23065 \Ifstr{#1}{figure}{\@namedef{scr@tso@#1@numwidth}{2.3em}}{%
23066 \Ifstr{#1}{table}{\@namedef{scr@tso@#1@numwidth}{2.3em}}{%
23067 \Ifstr{#1}{chapter}{\@namedef{scr@tso@#1@numwidth}{1.5em}}{%
23068 \scr@ifundefinedorrelax{chapter}{%
23069 \Ifstr{#1}{section}{\@namedef{scr@tso@#1@numwidth}{1.5em}}{%
23070 \Ifstr{#1}{subsection}{\@namedef{scr@tso@#1@numwidth}{2.3em}}{%
23071 \Ifstr{#1}{subsubsection}{%
23072 \@namedef{scr@tso@#1@numwidth}{3.2em}%
23073 }{%
23074 \Ifstr{#1}{paragraph}{%

```



```

23075         \@namedef{scr@tso@#1@numwidth}{4.1em}%
23076     }{%
23077         \Ifstr{#1}{subparagraph}{%
23078             \@namedef{scr@tso@#1@numwidth}{5em}%
23079         }{%
23080             }%
23081         }%
23082     }%
23083 }%
23084 }%
23085 }{%
23086     \Ifstr{#1}{section}{\@namedef{scr@tso@#1@numwidth}{2.3em}}{%
23087         \Ifstr{#1}{subsection}{\@namedef{scr@tso@#1@numwidth}{3.2em}}{%
23088             \Ifstr{#1}{subsubsection}{%
23089                 \@namedef{scr@tso@#1@numwidth}{3.1em}%
23090             }{%
23091                 \Ifstr{#1}{paragraph}{%
23092                     \@namedef{scr@tso@#1@numwidth}{5em}%
23093                 }{%
23094                     \Ifstr{#1}{subparagraph}{%
23095                         \@namedef{scr@tso@#1@numwidth}{6em}%
23096                     }{%
23097                         }%
23098                     }%
23099                 }%
23100             }%
23101         }%
23102     }%
23103 }%
23104 }%
23105 }%
23106 }{%
23107     \@namedef{scr@tso@#1@numwidth}{\@nameuse{scr@#1@tocnumwidth}}%
23108 }%
23109 }{%
23110 }]{%
23111     \ifnum \c@tocdepth > \numexpr \@nameuse{#1tocdepth} - \@ne \relax
23112         \ifnum \@nameuse{#1tocdepth} < \@ne
23113             \scr@ifundefinedorrelax{chapter}{%
23114                 \addpenalty\@secpenalty
23115                 \addvspace{1.0em \@plus\p@}%
23116             }{%
23117                 \addpenalty{-\@highpenalty}%
23118                 \vskip 1.0em \@plus\p@
23119             }%
23120         \else
23121             \addpenalty\@secpenalty
23122             \addvspace{1.0em \@plus\p@}%
23123         \fi
23124         \setlength\@tempdima{\@nameuse{scr@tso@#1@numwidth}}%
23125         \begingroup
23126             \parindent \z@ \bidi@rightskip \@pnumwidth
23127             \parfillskip -\@pnumwidth
23128             \leavevmode

```



```

23129 \bfseries
23130 \advance\bidileftskip\@tempdima
23131 \iftocfeature{\@currentx}{noindent}{%
23132 \hskip -\bidileftskip
23133 }{%
23134 \advance\bidileftskip\@nameuse{scr@tso@#1@indent}%
23135 \hskip -\dimexpr \bidileftskip-\@nameuse{scr@tso@#1@indent}\relax
23136 }%
23137 ##1%
23138 \nobreak
23139 \hfil \nobreak\hbext@\@pnumwidth{\hss ##2}%
23140 \par
23141 \penalty\@highpenalty
23142 \endgroup
23143 \fi
23144 }
23145
23146 \bidiundef\scr@dte@def@l@largetocline
23147 \bidiundef\scr@dte@largetocline@init
23148 \DeclareTOCEntryStyle{largetocline}[{%
23149 \DefineTOCEntryLengthOption{indent}%
23150 {scr@tso@}{@indent}{entry indent}%
23151 \@ifundefined{#1tocdepth}{%
23152 \Ifstr{#1}{part}{\@namedef{#1tocdepth}{-1}}{%
23153 \Ifstr{#1}{chapter}{\@namedef{#1tocdepth}{0}}{%
23154 \Ifstr{#1}{section}{\@namedef{#1tocdepth}{1}}{%
23155 \Ifstr{#1}{subsection}{\@namedef{#1tocdepth}{2}}{%
23156 \Ifstr{#1}{subsubsection}{\@namedef{#1tocdepth}{3}}{%
23157 \Ifstr{#1}{paragraph}{\@namedef{#1tocdepth}{4}}{%
23158 \Ifstr{#1}{subparagraph}{\@namedef{#1tocdepth}{5}}{%
23159 \Ifstr{#1}{figure}{\@namedef{#1tocdepth}{1}}{%
23160 \Ifstr{#1}{table}{\@namedef{#1tocdepth}{1}}{%
23161 \expandafter\let\csname #1tocdepth\expandafter\endcsname
23162 \csname #1numdepth\endcsname
23163 }%
23164 }%
23165 }%
23166 }%
23167 }%
23168 }%
23169 }%
23170 }%
23171 }%
23172 }{}%
23173 \@ifundefined{scr@tso@#1@indent}{%
23174 \@ifundefined{scr@#1@tocindent}{%
23175 \Ifstr{#1}{figure}{\@namedef{scr@tso@#1@indent}{1.5em}}{%
23176 \Ifstr{#1}{table}{\@namedef{scr@tso@#1@indent}{1.5em}}{%
23177 \Ifstr{#1}{part}{\@namedef{scr@tso@#1@indent}{0em}}{%
23178 \Ifstr{#1}{chapter}{\@namedef{scr@tso@#1@indent}{0em}}{%
23179 \scr@ifundefinedorrelax{l@chapter}{%
23180 \Ifstr{#1}{section}{\@namedef{scr@tso@#1@indent}{0pt}}{%
23181 \Ifstr{#1}{subsection}{\@namedef{scr@tso@#1@indent}{1.5em}}{%
23182 \Ifstr{#1}{subsubsection}{%

```



```

23183         \@namedef{scr@tso@#1@indent}{3.8em}%
23184     }{%
23185         \Ifstr{#1}{paragraph}{%
23186             \@namedef{scr@tso@#1@indent}{7em}%
23187         }{%
23188             \Ifstr{#1}{subparagraph}{%
23189                 \@namedef{scr@tso@#1@indent}{10em}%
23190             }{%
23191                 }%
23192             }%
23193         }%
23194     }%
23195 }{%
23196 \Ifstr{#1}{section}{\@namedef{scr@tso@#1@indent}{1.5em}}{%
23197     \Ifstr{#1}{subsection}{\@namedef{scr@tso@#1@indent}{3.8em}}{%
23198         \Ifstr{#1}{subsubsection}{%
23199             \@namedef{scr@tso@#1@indent}{7.0em}%
23200         }{%
23201             \Ifstr{#1}{paragraph}{%
23202                 \@namedef{scr@tso@#1@indent}{10em}%
23203             }{%
23204                 \Ifstr{#1}{subparagraph}{%
23205                     \@namedef{scr@tso@#1@indent}{12em}%
23206                 }{%
23207                     }%
23208                 }%
23209             }%
23210         }%
23211     }%
23212 }%
23213 }%
23214 }%
23215 }%
23216 }%
23217 }%
23218 }{%
23219     \@namedef{scr@tso@#1@indent}{\@nameuse{scr@#1@tocindent}}%
23220 }%
23221 }{}%
23222 }]{%
23223 \ifnum \c@tocdepth >\numexpr \@nameuse{#1tocdepth}-\@ne\relax
23224     \ifnum \@nameuse{#1tocdepth}<\@ne
23225         \scr@ifundefinedorrelax{chapter}{%
23226             \addpenalty\@secpenalty
23227             \addvspace{2.25em \@plus\p@}%
23228         }{%
23229             \addpenalty{-\@highpenalty}%
23230             \addvspace{2.25em \@plus\p@}%
23231         }%
23232     \else
23233         \addpenalty\@secpenalty
23234         \addvspace{2.25em \@plus\p@}%
23235     \fi
23236     \setlength\@tempdima{3em}%

```



```

23237 \begingroup
23238 \parindent \z@ \bidi@rightskip \@pnumwidth
23239 \parfillskip -\@pnumwidth
23240 \leavevmode
23241 \large
23242 \bfseries
23243 \IfTocfeature{\@currentx}{noindent}{%
23244 }{%
23245 \advance\bidi@leftskip\@nameuse{scr@tso@#1@indent}%
23246 }%
23247 ##1%
23248 \hfil \nobreak\hb@xt@\@pnumwidth{\hss ##2}%
23249 \par
23250 \nobreak
23251 \ifnum 0=
23252 \scr@ifundefinedorrelax{chapter}{\if@compatibility 1\else 0\fi}{1}\relax
23253 \global\@nobreaktrue
23254 \everypar{\global\@nobreakfalse\everypar{}}%
23255 \fi
23256 \endgroup
23257 \fi
23258 }
23259
23260 \renewcommand*{\scr@dte@tocline}[3]{%
23261 \ifnum \@nameuse{#1tocdepth}>\c@tocdepth
23262 \else
23263 \tocbasic@DependOnPenaltyAndTOCLevel{#1}%
23264 \addvspace{\@nameuse{scr@tso@#1@beforeskip}}\relax
23265 \@nameuse{Ifscr@tso@#1@dynindent}{%
23266 \expandafter\ifx\csname scr@tso@#1@indentfollows\endcsname\@empty
23267 \PackageWarning{tocbasic}{`dynindent' for `#1' not available}%
23268 \else
23269 \edef\reserved@a{\@nameuse{scr@tso@#1@indentfollows}}%
23270 \@for \reserved@a:=\reserved@a\do {%
23271 \scr@trim@spaces\reserved@a
23272 \ifx\reserved@a\@empty\else
23273 \scr@ifundefinedorrelax{\reserved@a tocdepth}{%
23274 }{%
23275 \ifnum \@nameuse{\reserved@a tocdepth}<\@nameuse{#1tocdepth}%
23276 \@tempdima\@nameuse{scr@tso@\reserved@a @indent}\relax
23277 \@nameuse{Ifscr@tso@\reserved@a @dynnumwidth}{%
23278 \scr@ifundefinedorrelax
23279 {scr@dte@\reserved@a @lastmaxnumwidth}{%
23280 \advance\@tempdima
23281 \@nameuse{scr@tso@\reserved@a @numwidth}\relax
23282 }{%
23283 \advance\@tempdima
23284 \@nameuse{scr@dte@\reserved@a @lastmaxnumwidth}\relax
23285 }%
23286 }{%
23287 \advance\@tempdima
23288 \@nameuse{scr@tso@\reserved@a @numwidth}\relax
23289 }%
23290 \ifdim \@tempdima>\@nameuse{scr@tso@#1@indent}\relax

```



```

23291         \expandafter\edef\csname scr@tso@#1@indent\endcsname
23292         {\the\@tempdima}%
23293         \fi
23294     \fi
23295 }%
23296 \fi
23297 }%
23298 \fi
23299 }{}%
23300 {%
23301     \Iftocfeature{\@currentx}{noindent}{%
23302         \bidi@leftskip \z@
23303     }{%
23304         \bidi@leftskip \@nameuse{scr@tso@#1@indent}\relax
23305     }%
23306     \bidi@rightskip \@nameuse{scr@tso@#1@rightindent}\relax
23307     \parfillskip -\bidi@rightskip
23308     \@nameuse{Ifscr@tso@#1@raggedpage}{%
23309         \addtolength{\parfillskip}{\z@ \@plus 1fil}%
23310     }{}%
23311     \Iftocfeature{\@currentx}{noindent}{%
23312         \parindent \z@
23313     }{%
23314         \parindent \@nameuse{scr@tso@#1@indent}\relax
23315     }%
23316     \@afterindenttrue
23317     \interlinepenalty\@M
23318     \expandafter\ifx\csname ragged#1entry\endcsname\raggedright
23319         \addtolength\bidi@rightskip\@flushglue
23320     \else
23321         \def\reserved@a{\raggedright}%
23322         \expandafter\ifx\csname ragged#1entry\endcsname\reserved@a
23323             \addtolength\bidi@rightskip\@flushglue
23324         \else
23325             \renewcommand\reserved@a{\raggedright}%
23326             \expandafter\ifx\csname ragged#1entry\endcsname\reserved@a
23327                 \addtolength\bidi@rightskip\@flushglue
23328             \fi
23329         \fi
23330     \fi
23331     \leavevmode
23332     \@tempdima \@nameuse{scr@tso@#1@numwidth}\relax
23333     \@nameuse{Ifscr@tso@#1@dynnumwidth}{%
23334         \scr@ifundefinedorrelax{scr@dte@#1@lastmaxnumwidth}{%
23335             \ifdim \@nameuse{scr@dte@#1@lastmaxnumwidth}>\@tempdima
23336                 \@tempdima\@nameuse{scr@dte@#1@lastmaxnumwidth}\relax
23337             \fi
23338         }%
23339     }{}%
23340     \advance\bidi@leftskip \@tempdima
23341     \null\nobreak\hskip -\bidi@leftskip
23342     {%
23343         \usetocbasicnumberline
23344         \let\scr@dte@numberline@box\numberline@box

```



```

23345 \def\numberline@box##1{%
23346 \sbox\scr@dte@tocline@numbox{\@nameuse{scr@tso@#1@numberformat}{##1}}%
23347 \global\scr@dte@tocline@numberwidth
23348 \dimexpr\wd\scr@dte@tocline@numbox+\@nameuse{scr@tso@#1@numsep}\relax
23349 \relax
23350 \ifdim \scr@dte@tocline@numberwidth
23351 >\@nameuse{scr@dte@#1@maxnumwidth}\relax
23352 \global\@nameuse{scr@dte@#1@maxnumwidth}\scr@dte@tocline@numberwidth
23353 \fi
23354 \@nameuse{Ifscr@tso@#1@dynnumwidth}{-}{%
23355 \ifdim \scr@dte@tocline@numberwidth
23356 >\dimexpr \@nameuse{scr@tso@#1@numwidth}%
23357 +\@nameuse{scr@tso@#1@numsep}\relax\relax
23358 \PackageWarning{tocbasic}{%
23359 number width of #1 toc entries should be
23360 increased!\MessageBreak
23361 Currently used number width =
23362 \the\wd\scr@dte@tocline@numbox,\MessageBreak
23363 Wanted number separation
23364 \space\space\space =
23365 \the\dimexpr\@nameuse{scr@tso@#1@numsep}\relax,\MessageBreak
23366 Reserved number width \space\space\space\space\space\space =
23367 \the\dimexpr\@nameuse{scr@tso@#1@numwidth}\relax%
23368 }%
23369 \fi
23370 }%
23371 \scr@dte@numberline@box{\@nameuse{scr@tso@#1@numberformat}{##1}}%
23372 \@nameuse{Ifscr@tso@#1@breakafternumber}{-}{%
23373 {\parfillskip\@flushglue\par}\nobreak\hskip-\bidi@leftskip
23374 }{}%
23375 }%
23376 {\@nameuse{scr@tso@#1@entryformat}{-}{%
23377 #2%
23378 \nobreak
23379 {%
23380 \normalfont\normalsize\@nameuse{scr@tso@#1@linefill}%
23381 \nobreak
23382 \expandafter\let\expandafter\scr@dte@pagenumberwidth
23383 \csname scr@tso@#1@pagenumberwidth\endcsname
23384 \@nameuse{scr@tso@#1@pagenumberbox}{-}{%
23385 \@nameuse{scr@tso@#1@pagenumberformat}{#3}%
23386 }%
23387 }%
23388 }}\@par
23389 }%
23390 }%
23391 \tocbasic@SetPenaltyByTOCLevel{#1}%
23392 \fi
23393 }
23394
23395
23396 \bidi@undef\scr@dte@def@l@tocline
23397 \bidi@undef\scr@dte@tocline@init
23398 \DeclareTOCEntryStyle{tocline}{%

```



```

23399 \DefineTOCEntryLengthOption{beforeskip}%
23400 {scr@tso@}{@beforeskip}{vertical skip before the entry}%
23401 \DefineTOCEntryIfOption{breakafternumber}%
23402 {scr@tso@}{@breakafternumber}{line break after number flag}%
23403 \DefineTOCEntryIfOption{dynnumwidth}%
23404 {scr@tso@}{@dynnumwidth}{dynamic number width flag}%
23405 \DefineTOCEntryListOption{indentfollows}%
23406 {scr@tso@}{@indentfollows}{list of levels that define the indent}%
23407 \DefineTOCEntryIfOption{dynindent}%
23408 {scr@tso@}{@dynindent}{dynamic indent width flag}%
23409 \DefineTOCEntryCommandOption{entryformat}%
23410 {scr@tso@}{@entryformat}[1]{entry format}%
23411 \DefineTOCEntryCommandOption{entrynumberformat}%
23412 {scr@tso@}{@numberformat}[1]{entry number format}%
23413 \DefineTOCEntryCommandOption{linefill}{\TOCLineLeaderFill}%
23414 {scr@tso@}{@linefill}{filling between text and page number}%
23415 \DefineTOCEntryLengthOption{numsep}%
23416 {scr@tso@}{@numsep}{entry number separation}%
23417 \DefineTOCEntryCommandOption{onstarthigherlevel}%
23418 {scr@tso@}{@LastTOCLevelWasLower}{start higher level entry hook}%
23419 \DefineTOCEntryCommandOption{onstartlowerlevel}%
23420 {scr@tso@}{@LastTOCLevelWasHigher}{start lower level entry hook}%
23421 \DefineTOCEntryCommandOption{onstartsamelevel}%
23422 {scr@tso@}{@LastTOCLevelWasSame}{start same level entry hook}%
23423 \DefineTOCEntryCommandOption{pagenumberbox}%
23424 {scr@tso@}{@pagenumberbox}[1]{page number box}%
23425 \DefineTOCEntryCommandOption{pagenumberformat}%
23426 {scr@tso@}{@pagenumberformat}[1]{page number format}%
23427 \DefineTOCEntryLengthOption{pagenumberwidth}%
23428 {scr@tso@}{@pagenumberwidth}{width of page number box}%
23429 \DefineTOCEntryLengthOption{rightindent}%
23430 {scr@tso@}{@rightindent}{entry's text right indent}%
23431 \DefineTOCEntryOption{raggedentrytext}[true]{%
23432 \FamilySetBool{KOMAarg}{raggedentrytext}{@tempswa}{##1}%
23433 \ifx\FamilyKeyState\FamilyKeyStateProcessed
23434 \if@tempswa
23435 \expandafter\let\csname ragged\scr@dte@current entry\endcsname
23436 \raggedright
23437 \else
23438 \expandafter\let\csname ragged\scr@dte@current entry\endcsname
23439 \relax
23440 \fi
23441 \fi
23442 }%
23443 \DefineTOCEntryIfOption{raggedpagenumber}%
23444 {scr@tso@}{@raggedpage}{page number ragged flag}%
23445 \DefineTOCEntryLengthOption{indent}%
23446 {scr@tso@}{@indent}{entry indent}%
23447 \DefineTOCEntryLengthOption{numwidth}%
23448 {scr@tso@}{@numwidth}{entry number width}%
23449 \scr@ifundefinedorrelax{#1tocdepth}{%
23450 \Ifstrstart{#1}{sub}{%
23451 \scr@ifundefinedorrelax{\scr@dte@nosub{#1}tocdepth}{}%
23452 \expandafter\edef\csname #1tocdepth\endcsname{%

```





```

23453         \the\numexpr \noexpand\@nameuse{\scr@dte@nosub{#1}tocdepth}+\@ne\relax
23454     }%
23455 }%
23456 }{}%
23457 }{}%
23458 \@ifundefined{#1tocdepth}{%
23459     \Ifstr{#1}{part}{\@namedef{#1tocdepth}{-1}}{%
23460         \Ifstr{#1}{chapter}{\@namedef{#1tocdepth}{0}}{%
23461             \Ifstr{#1}{section}{\@namedef{#1tocdepth}{1}}{%
23462                 \Ifstr{#1}{subsection}{\@namedef{#1tocdepth}{2}}{%
23463                     \Ifstr{#1}{subsubsection}{\@namedef{#1tocdepth}{3}}{%
23464                         \Ifstr{#1}{paragraph}{\@namedef{#1tocdepth}{4}}{%
23465                             \Ifstr{#1}{subparagraph}{\@namedef{#1tocdepth}{5}}{%
23466                                 \Ifstr{#1}{figure}{\@namedef{#1tocdepth}{1}}{%
23467                                     \Ifstr{#1}{table}{\@namedef{#1tocdepth}{1}}{%
23468                                         \expandafter\let\csname #1tocdepth\expandafter\endcsname
23469                                             \csname #1numdepth\endcsname
23470                                     }%
23471                                 }%
23472                             }%
23473                         }%
23474                     }%
23475                 }%
23476             }%
23477         }%
23478     }%
23479 }{}%
23480 \scr@ifundefinedorrelax{scr@tso@#1@indent}{%
23481     \@ifundefined{scr@#1@tocindent}{%
23482         \Ifstrstart{#1}{sub}{%
23483             \scr@ifundefinedorrelax{scr@tso@\scr@dte@nosub{#1}@indent}{%
23484                 \scr@ifundefinedorrelax{scr@tso@\scr@dte@nosub{#1}@numwidth}{}%
23485                 \expandafter\edef\csname scr@tso@#1@indent\endcsname{%
23486                     \glueexpr \noexpand\@nameuse{scr@tso@\scr@dte@nosub{#1}@numwidth}}%
23487                 \relax
23488             }%
23489         }%
23490     }{%
23491         \scr@ifundefinedorrelax{scr@tso@\scr@dte@nosub{#1}@numwidth}{%
23492             \expandafter\edef\csname scr@tso@#1@indent\endcsname{%
23493                 \glueexpr \noexpand\@nameuse{scr@tso@\scr@dte@nosub{#1}@indent}}%
23494             \relax
23495         }%
23496     }{%
23497         \expandafter\edef\csname scr@tso@#1@indent\endcsname{%
23498             \glueexpr \noexpand\@nameuse{scr@tso@\scr@dte@nosub{#1}@indent}}%
23499             +\noexpand\@nameuse{scr@tso@\scr@dte@nosub{#1}@numwidth}}%
23500         \relax
23501     }%
23502 }%
23503 }%
23504 }{}%
23505 }{%
23506     \@namedef{scr@tso@#1@indent}{\@nameuse{scr@#1@tocindent}}%

```



```

23507     }%
23508   }{}%
23509   \scr@ifundefinedorrelax{scr@tso@#1@pagenumberwidth}{%
23510     \Ifstrstart{#1}{sub}{%
23511       \scr@ifundefinedorrelax{scr@tso@scr@dte@nosub{#1}@pagenumberwidth}{%
23512         \@namedef{scr@tso@#1@pagenumberwidth}{\@pnumwidth}%
23513       }{%
23514         \expandafter\let
23515         \csname scr@tso@#1@pagenumberwidth\expandafter\endcsname
23516         \csname scr@tso@scr@dte@nosub{#1}@pagenumberwidth\endcsname
23517       }%
23518     }{%
23519       \@namedef{scr@tso@#1@pagenumberwidth}{\@pnumwidth}%
23520     }%
23521   }{}%
23522   \scr@ifundefinedorrelax{scr@tso@#1@rightindent}{%
23523     \Ifstrstart{#1}{sub}{%
23524       \scr@ifundefinedorrelax{scr@tso@scr@dte@nosub{#1}@rightindent}{%
23525         \@namedef{scr@tso@#1@rightindent}{\@tocrmarg}%
23526       }{%
23527         \expandafter\let
23528         \csname scr@tso@#1@rightindent\expandafter\endcsname
23529         \csname scr@tso@scr@dte@nosub{#1}@rightindent\endcsname
23530       }%
23531     }{%
23532       \@namedef{scr@tso@#1@rightindent}{\@tocrmarg}%
23533     }%
23534   }{}%
23535   \@ifundefined{scr@tso@#1@indent}{%
23536     \Ifstr{#1}{figure}{\@namedef{scr@tso@#1@indent}{1.5em}}{%
23537     \Ifstr{#1}{table}{\@namedef{scr@tso@#1@indent}{1.5em}}{%
23538     \Ifstr{#1}{part}{\@namedef{scr@tso@#1@indent}{0em}}{%
23539     \Ifstr{#1}{chapter}{\@namedef{scr@tso@#1@indent}{0em}}{%
23540     \scr@ifundefinedorrelax{l@chapter}{%
23541       \Ifstr{#1}{section}{\@namedef{scr@tso@#1@indent}{0pt}}{%
23542       \Ifstr{#1}{subsection}{\@namedef{scr@tso@#1@indent}{1.5em}}{%
23543       \Ifstr{#1}{subsubsection}{%
23544         \@namedef{scr@tso@#1@indent}{3.8em}%
23545       }{%
23546       \Ifstr{#1}{paragraph}{%
23547         \@namedef{scr@tso@#1@indent}{7em}%
23548       }{%
23549       \Ifstr{#1}{subparagraph}{%
23550         \@namedef{scr@tso@#1@indent}{10em}%
23551       }{%
23552       }%
23553     }%
23554   }%
23555   }%
23556 }{}%
23557 }{}%
23558   \Ifstr{#1}{section}{\@namedef{scr@tso@#1@indent}{1.5em}}{%
23559   \Ifstr{#1}{subsection}{\@namedef{scr@tso@#1@indent}{3.8em}}{%
23560   \Ifstr{#1}{subsubsection}{%

```



```

23561         \@namedef{scr@tso@#1@indent}{7.0em}%
23562     }{%
23563         \Ifstr{#1}{paragraph}{%
23564             \@namedef{scr@tso@#1@indent}{10em}%
23565         }{%
23566             \Ifstr{#1}{subparagraph}{%
23567                 \@namedef{scr@tso@#1@indent}{12em}%
23568             }{%
23569                 }%
23570             }%
23571         }%
23572     }%
23573 }%
23574 }%
23575 }%
23576 }%
23577 }%
23578 }%
23579 }{}%
23580 \scr@ifundefinedorrelax{scr@tso@#1@numwidth}{%
23581     \scr@ifundefinedorrelax{scr@#1@tocnumwidth}{%
23582         \Ifstrstart{#1}{sub}{%
23583             \scr@ifundefinedorrelax{scr@tso@\scr@dte@nosub{#1}@numwidth}{}%
23584             \expandafter\edef\csname scr@tso@#1@numwidth\endcsname{%
23585                 \glueexpr \noexpand\@nameuse{scr@tso@\scr@dte@nosub{#1}@numwidth}%
23586                 +.9em%
23587             }%
23588         }%
23589     }%
23590 }{}%
23591 }{%
23592     \@namedef{scr@tso@#1@numwidth}{\@nameuse{scr@#1@tocnumwidth}}%
23593 }%
23594 }{}%
23595 \@ifundefined{scr@tso@#1@numwidth}{%
23596     \Ifstr{#1}{figure}{\@namedef{scr@tso@#1@numwidth}{2.3em}}{%
23597         \Ifstr{#1}{table}{\@namedef{scr@tso@#1@numwidth}{2.3em}}{%
23598             \Ifstr{#1}{chapter}{\@namedef{scr@tso@#1@numwidth}{1.5em}}{%
23599                 \scr@ifundefinedorrelax{chapter}{%
23600                     \Ifstr{#1}{section}{\@namedef{scr@tso@#1@numwidth}{1.5em}}{%
23601                         \Ifstr{#1}{subsection}{\@namedef{scr@tso@#1@numwidth}{2.3em}}{%
23602                             \Ifstr{#1}{subsubsection}{%
23603                                 \@namedef{scr@tso@#1@numwidth}{3.2em}%
23604                             }{%
23605                                 \Ifstr{#1}{paragraph}{%
23606                                     \@namedef{scr@tso@#1@numwidth}{4.1em}%
23607                                 }{%
23608                                     \Ifstr{#1}{subparagraph}{%
23609                                         \@namedef{scr@tso@#1@numwidth}{5m}%
23610                                     }{%
23611                                         }%
23612                                     }%
23613                                 }%
23614                             }%

```



```

23615         }%
23616     }{%
23617         \Ifstr{#1}{section}{\@namedef{scr@tso@#1@numwidth}{2.3em}}{%
23618             \Ifstr{#1}{subsection}{\@namedef{scr@tso@#1@numwidth}{3.2em}}{%
23619                 \Ifstr{#1}{subsubsection}{%
23620                     \@namedef{scr@tso@#1@numwidth}{3.1em}%
23621                 }{%
23622                     \Ifstr{#1}{paragraph}{%
23623                         \@namedef{scr@tso@#1@numwidth}{5em}%
23624                     }{%
23625                         \Ifstr{#1}{subparagraph}{%
23626                             \@namedef{scr@tso@#1@numwidth}{6em}%
23627                         }{%
23628                             }%
23629                         }%
23630                     }%
23631                 }%
23632             }%
23633         }%
23634     }%
23635 }%
23636 }%
23637 }{%
23638 \expandafter\renewcommand%
23639 \csname scr@tso@#1@LastTOCLevelWasLower\endcsname{\LastTOCLevelWasLower}%
23640 \expandafter\renewcommand%
23641 \csname scr@tso@#1@LastTOCLevelWasSame\endcsname{\LastTOCLevelWasSame}%
23642 \expandafter\renewcommand%
23643 \csname scr@tso@#1@LastTOCLevelWasHigher\endcsname{\LastTOCLevelWasHigher}%
23644 \@ifundefined{scr@tso@#1@beforeskip}{%
23645     \Ifstr{#1}{part}{%
23646         \@namedef{scr@tso@#1@beforeskip}{\glueexpr 2.25em \@plus\p@\relax}%
23647     }{%
23648         \Ifstr{#1}{chapter}{%
23649             \@namedef{scr@tso@#1@beforeskip}{\glueexpr 1.0em \@plus\p@\relax}%
23650         }{%
23651             \Ifstr{#1}{section}{%
23652                 \scr@ifundefinedorrelax{1@chapter}{%
23653                     \@namedef{scr@tso@#1@beforeskip}{\glueexpr 1.0em \@plus\p@\relax}%
23654                 }{}%
23655             }{}%
23656         }%
23657     }%
23658 \expandafter\renewcommand\expandafter*%
23659 \csname scr@tso@#1@beforeskip\endcsname{\glueexpr \z@ plus .2\p@\relax}%
23660 }{%
23661 \@ifundefined{scr@dte@#1@maxnumwidth}{%
23662     \expandafter\newlength\csname scr@dte@#1@maxnumwidth\endcsname
23663     \setlength{\@nameuse{scr@dte@#1@maxnumwidth}}{\z@}%
23664 }{%
23665 \renewcommand*{\scr@dte@donumwidth}{%
23666     \g@addto@macro{\scr@dte@donumwidth}{\do{#1}}%
23667 \expandafter\renewcommand\expandafter*%
23668 \csname scr@tso@#1@numsep\endcsname{.4em}%

```



```

23669 \expandafter\renewcommand%
23670 \csname scr@tso@#1@numberformat\endcsname[1]{##1}%
23671 \Ifstr{#1}{part}{%
23672   \expandafter\providecommand%
23673   \csname scr@tso@#1@entryformat\endcsname[1]{\large\bfseries ##1}%
23674 }{%
23675   \Ifstr{#1}{chapter}{%
23676     \expandafter\providecommand%
23677     \csname scr@tso@#1@entryformat\endcsname[1]{\bfseries ##1}%
23678   }{%
23679     \scr@ifundefinedorrelax{1@chapter}{%
23680       \Ifstr{#1}{section}{%
23681         \expandafter\providecommand%
23682         \csname scr@tso@#1@entryformat\endcsname[1]{\bfseries ##1}%
23683       }{%
23684         }{%
23685           \expandafter\providecommand%
23686           \csname scr@tso@#1@entryformat\endcsname[1]{##1}%
23687         }%
23688       }%
23689     \expandafter\renewcommand
23690     \csname Ifscr@tso@#1@breakafternumber\endcsname[2]{##2}%
23691     \@ifundefined{scr@tso@#1@linefill}{%
23692       \Ifstr{#1}{part}{%
23693         \@namedef{scr@tso@#1@linefill}{\hfill}%
23694       }{%
23695         \Ifstr{#1}{chapter}{%
23696           \@namedef{scr@tso@#1@linefill}{\hfill}%
23697         }{%
23698           \scr@ifundefinedorrelax{1@chapter}{%
23699             \Ifstr{#1}{section}{%
23700               \@namedef{scr@tso@#1@linefill}{\hfill}%
23701             }{%
23702               }{%
23703                 \expandafter\renewcommand%
23704                 \csname scr@tso@#1@linefill\endcsname{\TOCLineLeaderFill\relax}%
23705               }%
23706             }%
23707           }{%
23708             \expandafter\renewcommand\csname Ifscr@tso@#1@raggedpage\endcsname[2]{##2}%
23709             \Ifstr{#1}{part}{%
23710               \expandafter\providecommand%
23711               \csname scr@tso@#1@pagenumberformat\endcsname[1]{\large\bfseries ##1}%
23712             }{%
23713               \Ifstr{#1}{chapter}{%
23714                 \expandafter\providecommand%
23715                 \csname scr@tso@#1@pagenumberformat\endcsname[1]{\bfseries ##1}%
23716               }{%
23717                 \scr@ifundefinedorrelax{1@chapter}{%
23718                   \Ifstr{#1}{section}{%
23719                     \expandafter\providecommand%
23720                     \csname scr@tso@#1@pagenumberformat\endcsname[1]{\bfseries ##1}%
23721                   }{%
23722                     }{%

```



```

23723 \expandafter\providecommand%
23724 \csname scr@tso@#1@pagenumberformat\endcsname[1]{%
23725 {\normalfont\normalcolor ##1}}%
23726 }%
23727 }%
23728 \expandafter\renewcommand%
23729 \csname scr@tso@#1@pagenumberbox\endcsname[1]{%
23730 \hb@xt@{\nameuse{scr@dte@pagenumberwidth}}{\hfil ##1}}%
23731 \expandafter\renewcommand\csname Ifscr@tso@#1@dynnumwidth\endcsname[2]{##2}%
23732 \expandafter\renewcommand\csname Ifscr@tso@#1@dynindent\endcsname[2]{##2}%
23733 \scr@ifundefinedorrelax{scr@tso@#1@indentfollows}{%
23734 \Ifstrstart{#1}{sub}{%
23735 \expandafter\edef\csname scr@tso@#1@indentfollows\endcsname{%
23736 \scr@dte@nosub{#1}}%
23737 }%
23738 }{%
23739 \expandafter\let\csname scr@tso@#1@indentfollows\endcsname\@empty
23740 }%
23741 }{}%
23742 }]{%
23743 \scr@dte@tocline{#1}{##1}{##2}%
23744 }
23745
23746 \if@bidi\csdef{scr@tso@figure@pagenumberformat}{%
23747 \renewcommand*{\scr@tso@figure@pagenumberformat}[1]{%
23748 {\normalfont\normalcolor #1}}%
23749 }%
23750 }{}
23751
23752 \if@bidi\csdef{scr@tso@table@pagenumberformat}{%
23753 \renewcommand*{\scr@tso@table@pagenumberformat}[1]{%
23754 {\normalfont\normalcolor #1}}%
23755 }%
23756 }{}
23757

```

## 158 File tocstyle-xetex-bidi.def

```

23758 \ProvidesFile{tocstyle-xetex-bidi.def}[2010/07/25 v0.1 bidi adaptations for tocstyle package]
23759 \renewcommand*{\tocstyle@dottedtocline}[5]{%
23760 \let\numberline\tocstyle@numberline
23761 \ifnum #1>\c@tocdepth \else
23762 \if@tocstyle@penalties
23763 \begingroup
23764 \@tempcnta 20010
23765 \advance \@tempcnta by -#1
23766 \ifnum \@tempcnta>\lastpenalty
23767 \aftergroup\penalty\aftergroup\@lowpenalty
23768 \fi
23769 \endgroup
23770 \fi
23771 \edef\tocstyledepth{#1}%
23772 \tocstyle@activate@features
23773 \ifx\tocstyle@feature@entryvskip\relax

```



```

23774 \vskip \z@ \@plus.2\p@
23775 \else
23776 \addvspace{\tocstyle@feature@entry\vskip}%
23777 \fi
23778 {%
23779 \parskip \z@ \parindent \z@ \if@RTL\rightskip\else\leftskip\fi \z@ \if@RTL\leftskip\el
23780 \tocstyle@feature@raggedhook
23781 \@tempdima #3\relax
23782 \@tempdimb #2\relax
23783 \typeout{m (\tocstyleTOC, \tocstyledepth): \the\@tempdima}%
23784 \ifnum #1>\z@\relax
23785 \@tempcnta #1\relax \advance\@tempcnta \m@ne
23786 \ifcsname tocstyle@skipwidth@\tocstyleTOC @\the\@tempcnta\endcsname
23787 \ifcsname tocstyle@numwidth@\tocstyleTOC @\the\@tempcnta\endcsname
23788 \@tempdimb
23789 \csname tocstyle@skipwidth@\tocstyleTOC @\the\@tempcnta\endcsname
23790 \advance\@tempdimb
23791 \csname tocstyle@numwidth@\tocstyleTOC @\the\@tempcnta\endcsname
23792 \fi
23793 \fi
23794 \fi
23795 \typeout{C (\tocstyleTOC, \tocstyledepth): \the\@tempdimb}%
23796 \ifcsname tocstyle@skipwidth@\tocstyleTOC @#1\endcsname
23797 \ifdim \@tempdimb>
23798 \csname tocstyle@skipwidth@\tocstyleTOC @#1\endcsname\relax
23799 \expandafter\xdef\csname tocstyle@skipwidth@\tocstyleTOC
23800 @#1\endcsname{\the\@tempdimb}%
23801 \fi
23802 \else
23803 \expandafter\xdef\csname tocstyle@skipwidth@\tocstyleTOC
23804 @#1\endcsname{\the\@tempdimb}%
23805 \fi
23806 \iftocstyle@autolength
23807 \ifcsname tocstyle@maxskipwidth@\tocstyleTOC @#1\endcsname
23808 \@tempdimb \csname tocstyle@maxskipwidth@\tocstyleTOC @#1\endcsname
23809 \relax
23810 \fi
23811 \ifcsname tocstyle@maxnumwidth@\tocstyleTOC @#1\endcsname
23812 \@tempdima \csname tocstyle@maxnumwidth@\tocstyleTOC @#1\endcsname
23813 \relax
23814 \fi
23815 \typeout{a (\tocstyleTOC, \tocstyledepth): \the\@tempdima}%
23816 \typeout{A (\tocstyleTOC, \tocstyledepth): \the\@tempdimb}%
23817 \else
23818 \@tempdimb #2\relax
23819 \typeout{M (\tocstyleTOC, \tocstyledepth): \the\@tempdimb}%
23820 \fi
23821 \ifcsname tocstyle@unumwidth@\tocstyleTOC @\endcsname
23822 \ifdim \@tempdima>
23823 \csname tocstyle@unumwidth@\tocstyleTOC @\endcsname\relax
23824 \expandafter\xdef\csname tocstyle@unumwidth@\tocstyleTOC
23825 @\endcsname{\the\@tempdima}%
23826 \fi
23827 \else

```



```

23828     \expandafter\edef\csname tocstyle@unumwidth@\tocstyleTOC
23829     @\endcsname{\the\@tempdima}%
23830 \fi
23831 \ifcase\tocstyle@indentstyle\relax\else
23832     \@tempdimb \z@
23833     \ifcsname tocstyle@maxunumwidth@\tocstyleTOC @\endcsname
23834     \@tempdima \csname tocstyle@maxunumwidth@\tocstyleTOC @\endcsname
23835     \relax
23836 \fi
23837     \typeout{s (\tocstyleTOC, \tocstyledepth): \the\@tempdima}%
23838     \typeout{S (\tocstyleTOC, \tocstyledepth): \the\@tempdimb}%
23839 \fi
23840 \advance\parindent \@tempdimb\@afterindenttrue
23841 \advance\if@RTL\rightskip\else\leftskip\fi \parindent
23842 \advance\if@RTL\leftskip\else\rightskip\fi \@tocrmarg
23843 \parfillskip -\if@RTL\leftskip\else\rightskip\fi
23844 \ifx\tocstyle@feature@parfillskip\relax\else
23845     \advance\parfillskip \tocstyle@feature@parfillskip\relax
23846 \fi
23847 \interlinepenalty\@M
23848 \leavevmode
23849 \advance\if@RTL\rightskip\else\leftskip\fi \@tempdima
23850 \null\nobreak
23851 \iftocstyle@indentnotnumbered\else
23852     \hskip -\if@RTL\rightskip\else\leftskip\fi
23853 \fi
23854 \tocstyle@feature@entryhook
23855 {#4}\nobreak
23856 \ifx\tocstyle@feature@leaders\relax
23857     \leaders\hbox{$\m@th
23858         \mkern \@dotsep mu\hbox{\tocstyle@feature@dotohook .}%
23859         \mkern \@dotsep mu$}\hfill
23860 \else
23861     \tocstyle@feature@leaders
23862 \fi
23863 \nobreak
23864 \ifx\tocstyle@feature@pagenumberbox\relax
23865     \hb@xt@\@pnumwidth{\hfil\tocstyle@feature@pagenumberhook #5}%
23866 \else
23867     \tocstyle@feature@pagenumberbox{\tocstyle@feature@pagenumberhook #5}%
23868 \fi
23869 \par
23870 }%
23871 \iftocstyle@penalties
23872     \bgroup
23873     \@tempcnta 20009
23874     \advance\@tempcnta by -#1
23875     \edef\reserved@a{\egroup\penalty\the\@tempcnta\relax}%
23876     \reserved@a
23877 \fi
23878 \fi}
23879 \renewcommand*{\tocstyle@numberline}[1]{%
23880 \begingroup
23881     \ifx\tocstyle@feature@spaceafternumber\relax

```





```

23882 \settowidth\@tempdima{\tocstyle@@numberline{#1}\enskip}%
23883 \else
23884 \settowidth\@tempdima{\tocstyle@@numberline{#1}}%
23885 \advance \@tempdima \tocstyle@feature@spaceafternumber\relax
23886 \fi
23887 \ifcsname tocstyle@numwidth@\tocstyleTOC @\tocstyledepth\endcsname
23888 \ifdim \@tempdima >
23889 \csname tocstyle@numwidth@\tocstyleTOC @\tocstyledepth\endcsname\relax
23890 \expandafter\xdef\csname tocstyle@numwidth@\tocstyleTOC
23891 @\tocstyledepth\endcsname{\the\@tempdima}%
23892 \fi
23893 \else
23894 \expandafter\xdef\csname tocstyle@numwidth@\tocstyleTOC
23895 @\tocstyledepth\endcsname{\the\@tempdima}%
23896 \fi
23897 \endgroup
23898 \iftocstyle@indentnotnumbered
23899 \hskip -\if@RTL\rightskip\else\leftskip\fi
23900 \fi
23901 \ifcase \tocstyle@indentstyle
23902 \hb@xt@\@tempdima{\tocstyle@@numberline{#1}\hfil}%
23903 \or
23904 \hb@xt@\@tempdima{\tocstyle@@numberline{#1}\hfil}%
23905 \else
23906 \ifx\tocstyle@feature@spaceafternumber\relax
23907 \hbox{\tocstyle@@numberline{#1}\enskip}%
23908 \else
23909 \hbox{\tocstyle@@numberline{#1}\hskip
23910 \tocstyle@feature@spaceafternumber\relax}%
23911 \fi
23912 \fi
23913 }
23914 \AtBeginDocument{%
23915 \ifcsname l@part\endcsname
23916 \ifcsname l@chapter\endcsname
23917 \setbox\@tempboxa\vbox{\hsize\maxdimen
23918 \l@part{\tocstyle@l@define{part}{-1}}{}}%
23919 \else
23920 \setbox\@tempboxa\vbox{\hsize\maxdimen
23921 \l@part{\tocstyle@l@define{part}{0}}{}}%
23922 \fi
23923 \fi
23924 \ifcsname l@chapter\endcsname
23925 \setbox\@tempboxa\vbox{\hsize\maxdimen
23926 \l@chapter{\tocstyle@l@define{chapter}{0}}{}}%
23927 \fi
23928 \ifcsname l@section\endcsname
23929 \setbox\@tempboxa\vbox{\hsize\maxdimen
23930 \l@section{\tocstyle@l@define{section}{1}}{}}%
23931 \fi
23932 \ifcsname l@subsection\endcsname
23933 \setbox\@tempboxa\vbox{\hsize\maxdimen
23934 \l@subsection{\tocstyle@l@define{subsection}{2}}{}}%
23935 \fi

```



```

23936 \ifcsname l@subsubsection\endcsname
23937   \setbox\@tempboxa\vbox{\hsize\maxdimen
23938     \l@subsubsection{\tocstyle@l@define{subsubsection}{3}}{}}%
23939 \fi
23940 \ifcsname l@paragraph\endcsname
23941   \setbox\@tempboxa\vbox{\hsize\maxdimen
23942     \l@paragraph{\tocstyle@l@define{paragraph}{4}}{}}%
23943 \fi
23944 \ifcsname l@subparagraph\endcsname
23945   \setbox\@tempboxa\vbox{\hsize\maxdimen
23946     \l@subparagraph{\tocstyle@l@define{subparagraph}{5}}{}}%
23947 \fi
23948 \ifcsname l@table\endcsname
23949   \setbox\@tempboxa\vbox{\hsize\maxdimen
23950     \l@table{\tocstyle@l@define{table}{1}}{}}%
23951 \fi
23952 \ifcsname l@figure\endcsname
23953   \setbox\@tempboxa\vbox{\hsize\maxdimen
23954     \l@figure{\tocstyle@l@define{figure}{1}}{}}%
23955 \fi
23956 \def\@tempa#1#2#3#4#5{%
23957   \ifnum #1>\c@tocdepth \else
23958     \vskip \z@ \@plus.2\p@
23959     {\if@RTL\rightskip\else\leftskip\fi #2\relax \if@RTL\leftskip\else\rightskip\fi \@tocdepth
23960     \parindent #2\relax\@afterindenttrue
23961     \interlinepenalty\@M
23962     \leavevmode
23963     \@tempdima #3\relax
23964     \advance\if@RTL\rightskip\else\leftskip\fi \@tempdima \null\nobreak\hskip -\if@RTL\rightskip
23965     {#4}\nobreak
23966     \leaders\hbox{$\m@th
23967       \mkern \dotsep mu\hbox{.}\mkern \dotsep
23968       mu$}\hfill
23969     \nobreak
23970     \hb@xt@\@pnumwidth{\hfil \normalfont \normalcolor #5}}%
23971     \par}%
23972 \fi}%
23973 \ifx\@dottedtocline\@tempa\else
23974   \tocstyle@macrochangewarning\@dottedtocline
23975 \fi
23976 \let\tocstyle@saved@dottedtocline\@dottedtocline
23977 \def\@tempa#1{\hb@xt@\@tempdima{#1\autodot\hfil}}%
23978 \ifx\numberline\@tempa\else
23979   \def\@tempa#1{\hb@xt@\@tempdima{#1\hfil}}%
23980 \fi
23981 \ifx\numberline\@tempa\else
23982   \tocstyle@macrochangewarning\numberline
23983 \fi
23984 \let\tocstyle@saved\@numberline\@numberline
23985 }
23986 \renewcommand*{\tocstyle@l@define}[2]{%
23987   \advance\if@RTL\rightskip\else\leftskip\fi-\@tempdima
23988   \edef\@tempa{%
23989     \noexpand\global\noexpand\let

```



```

23990 \expandafter\noexpand\csname tocstyle@l@#1\endcsname
23991 \expandafter\noexpand\csname l@#1\endcsname
23992 \noexpand\gdef
23993 \expandafter\noexpand\csname tocstyle@l@#1\endcsname{%
23994 \noexpand\@dottedtocline{#2}{\the\ifRTL\rightskip\else\leftskip\fi}{\the\@tempdima}}%
23995 \noexpand\g@addto@macro\noexpand\tocstyle@activate@all@l{%
23996 \noexpand\let\expandafter\noexpand\csname l@#1\endcsname
23997 \expandafter\noexpand\csname tocstyle@l@#1\endcsname
23998 }%
23999 }%
24000 \PackageInfo{tocstyle}{prepare \expandafter\string
24001 \csname l@#1\endcsname\space for redefinition}%
24002 \@tempa
24003 }

```

## 159 File todonotes-xetex-bidi.def

```

24004 \ProvidesFile{todonotes-xetex-bidi.def}[2016/11/08 v0.4 bidi adaptations for todonotes packa
24005 \newif\if@bidi@todonotes@textdirection@RTL
24006 \newif\if@bidi@todonotes@figposition@right
24007 \newcommand{\@bidi@todonotes@align}{}%
24008 \define@key{todonotes}{align}{\renewcommand{\@bidi@todonotes@align}{#1}}%
24009 \newcommand{\@bidi@todonotes@textdirection}{}%
24010 \define@choicekey{todonotes}{textdirection}[\bidi@todonotes@tempa\bidi@todonotes@tempb]{right,
24011 \ifcase\bidi@todonotes@tempb\relax
24012 \@bidi@todonotes@textdirection@RTLtrue
24013 \let\bidi@todonotes@textdirection\RLE
24014 \or
24015 \@bidi@todonotes@textdirection@RTLfalse
24016 \let\bidi@todonotes@textdirection\LRE
24017 \fi}
24018 \define@choicekey{todonotes}{figposition}[\bidi@todonotes@tempa\bidi@todonotes@tempb]{right,
24019 \ifcase\bidi@todonotes@tempb\relax
24020 \@bidi@todonotes@figposition@righttrue
24021 \or
24022 \@bidi@todonotes@figposition@rightfalse
24023 \fi}
24024 \if@todonotes@disabled%
24025 \else % \if@todonotes@disabled
24026 \renewcommand{\@todonotes@drawInlineNote}{%
24027 \if@todonotes@dviStyle%
24028 {\par\noindent\begin{tikzpicture}[remember picture]%
24029 \draw node[inlinenotestyle] {};\end{tikzpicture}\par}%
24030 \if@todonotes@authorgiven%
24031 {\noindent \@todonotes@sizecommand \@todonotes@author:\,\@todonotes@text}%
24032 \else%
24033 {\noindent \@todonotes@sizecommand \@todonotes@text}%
24034 \fi
24035 {\par\noindent\begin{tikzpicture}[remember picture]%
24036 \draw node[inlinenotestyle] {};\end{tikzpicture}\par}%
24037 \else%
24038 {\par\noindent\begin{tikzpicture}[remember picture]%
24039 \if@bidi@todonotes@textdirection@RTL\setRTL\fi%
24040 \draw node[inlinenotestyle,font=\@todonotes@sizecommand,align=\@bidi@todonotes@a

```



```

24041         \if@todonotes@authorgiven%
24042             {\noindent \@todonotes@sizecommand \@todonotes@author:\,\@todonotes@text%
24043             \else%
24044                 {\noindent \@todonotes@sizecommand \@todonotes@text}%
24045             \fi};%
24046         \end{tikzpicture}\par}%
24047     \fi}%
24048 \renewcommand{\@todonotes@drawMarginNoteWithLine}{%
24049 \begin{tikzpicture}[remember picture, overlay, baseline=-0.75ex]%
24050     \node [coordinate] (inText) {};%
24051 \end{tikzpicture}%
24052 \marginpar[{\% Draw note in left margin
24053     \@todonotes@drawMarginNote%
24054     \if@RTL\@todonotes@drawLineToRightMargin\else\@todonotes@drawLineToLeftMargin\fi%
24055 }]{\% Draw note in right margin
24056     \@todonotes@drawMarginNote%
24057     \if@RTL\@todonotes@drawLineToLeftMargin\else\@todonotes@drawLineToRightMargin\fi%
24058 }%
24059 }%
24060 \renewcommand{\@todonotes@drawMarginNote}{%
24061 \if@todonotes@dviStyle%
24062     \begin{tikzpicture}[remember picture]%
24063         \draw node[notestyle] {};%
24064     \end{tikzpicture}\\%
24065     \begin{minipage}{\@todonotes@textwidth}%
24066         \if@todonotes@authorgiven%
24067             \@todonotes@sizecommand \@todonotes@author \@todonotes@text%
24068         \else%
24069             \@todonotes@sizecommand \@todonotes@text%
24070         \fi%
24071     \end{minipage}\\%
24072     \begin{tikzpicture}[remember picture]%
24073         \draw node[notestyle] (inNote) {};%
24074     \end{tikzpicture}%
24075 \else%
24076     \let\originalHbadness\hbadness%
24077     \hbadness 10000%
24078     \begin{tikzpicture}[remember picture,baseline=(X.base)]%
24079         \if@bidi@todonotes@textdirection@RTL\setRTL\fi%
24080         \node(X){\vphantom{X}};%
24081         \draw node[notestyle,font=\@todonotes@sizecommand,anchor=north,align=\@bidi@todonotes@textdirection]{\@todonotes@text};%
24082         \if@todonotes@authorgiven%
24083             \draw node[notestyle,font=\@todonotes@sizecommand,anchor=north,align=\@bidi@todonotes@textdirection]{\@todonotes@sizecommand \@todonotes@author};%
24084             \node(Y)[below=of X]{};%
24085             \draw node[notestyle,font=\@todonotes@sizecommand,anchor=north,align=\@bidi@todonotes@textdirection]{\@todonotes@text};%
24086         \else%
24087             \draw node[notestyle,font=\@todonotes@sizecommand,anchor=north,align=\@bidi@todonotes@textdirection]{\@todonotes@text};%
24088         \fi%
24089     \end{tikzpicture}%
24090     \hbadness \originalHbadness%

```



```

24095 \fi}%
24096 \renewcommand{\missingfigure}[2] [] {%
24097 \setkeys{todonotes}{#1}%
24098 \addcontentsline{tdo}{todo}{\@todonotes@MissingFigureText: #2}%
24099 \par
24100 \noindent
24101 \begin{tikzpicture}
24102 \draw[fill=\@todonotes@currentfigcolor, draw = black!40, line width=2pt]
24103   (-2, -2.5) rectangle +(\@todonotes@currentfigwidth, \@todonotes@currentfigheight);
24104 \if@bidi@todonotes@figposition@right%
24105 \begin{scope}[xshift=\@todonotes@currentfigwidth-4cm]
24106 \fi%
24107 \draw[red, fill=white, rounded corners = 5pt, line width=10pt]
24108   (30:2cm) -- (150:2cm) -- (270:2cm) -- cycle;
24109 \if@bidi@todonotes@figposition@right%
24110 \end{scope}
24111 \begin{scope}[xshift=-3.8cm]
24112 \fi%
24113 \if@bidi@todonotes@textdirection@RTL\setRTL\fi%
24114 \draw (2, -0.3) node[right, text
24115   width=\@todonotes@currentfigwidth-4.5cm, align=\@bidi@todonotes@align] {#2};
24116 \if@bidi@todonotes@figposition@right%
24117 \end{scope}
24118 \begin{scope}[xshift=\@todonotes@currentfigwidth-4cm]
24119 \fi%
24120 \draw (0, 0.3) node[align=\@bidi@todonotes@align] {\@bidi@todonotes@textdirection{\@todonotes@
24121 \draw (0, -0.3) node[align=\@bidi@todonotes@align] {\@bidi@todonotes@textdirection{\@todonotes@
24122 \if@bidi@todonotes@figposition@right%
24123 \end{scope}
24124 \fi%
24125 \end{tikzpicture}}\hfill
24126 }% Ending \missingfigure command
24127 \fi % Ending \@todonotes@ifdisabled
24128 \presetkeys%
24129   {todonotes}%
24130   {align=left,%
24131     textdirection=lefttoright,%
24132     figposition=left}{}%

```

## 160 File wrapfig-xetex-bidi.def

```

24133 \ProvidesFile{wrapfig-xetex-bidi.def}[2014/04/23 v0.3 bidi adaptations for wrapfig package f
24134 \let\WF@everypar\ bidi@n@everypar
24135 \def\WF@putfigmaybe{%
24136 \ifinner
24137   \vskip-\parskip \global\WF@floatfalse
24138   \let\pagetotal\maxdimen % kludge flag for "not top of page"
24139 \else % outer page
24140   \@tempdima\pagedepth % save page depth
24141   {\advance\parskip\@tempdima\ifRTL\advance\parskip\baselineskip\fi\vskip-\parskip}% back
24142   \penalty\interlinepenalty % update pg. parameters
24143   \@tempdima\pagegoal \advance\@tempdima-\pagetotal % room left on page
24144   \ifdim\@tempdima<\z@ % \WF@info{Page overfull already;}%
24145     \global\WF@floatfalse

```



```

24146 \ifdim-\@tempdimb>\pageshrink \else \pagebreak \fi
24147 \else
24148 \ifdim\WF@size>\@tempdimb
24149 \ifWF@float \dimen@.5\baselineskip \else \dimen@ 2\baselineskip\fi
24150 \ifdim\pagestretch>\dimen@ \dimen@\pagestretch \fi
24151 \ifdim\pagefilstretch>\z@ \dimen@\@tempdimb \fi
24152 \ifdim\pagefillstretch>\z@ \dimen@\@tempdimb \fi
24153 \advance\dimen@.5\baselineskip
24154 \ifdim\dimen@>\@tempdimb % \WF@info{Page nearly full; can stretch}%
24155 \global\WF@floatfalse \pagebreak
24156 \fi
24157 \else % \WF@info{Fits in \the\@tempdimb;}%
24158 \global\WF@floatfalse
24159 \fi\fi
24160 \vskip\@tempdima\relax % (return erased page depth)
24161 \fi
24162 \noindent
24163 \ifWF@float
24164 \WF@fltnes
24165 \else % putting here;
24166 \WF@info{Put \WF@wfname here:}%
24167 {\ifodd\if@twoside\c@page\else\@one\fi % assign l/r to i/o placement
24168 \lccode`i`l\lccode`o`r\else \lccode`i`r\lccode`o`l\fi
24169 \xdef\WF@place{\the\lccode\lccode\WF@place}}% twice to get only l or r
24170 \hbox to\z@{% llap or rlap depending on {l} or {r}; calc effective width
24171 \@tempdima\wd\WF@box \@tempdimb\WF@ovh
24172 \advance\@tempdima-\@tempdimb \advance\@tempdima\columnsep
24173 \@tempdimb\hsize \advance\@tempdimb-\@tempdima
24174 \xdef\WF@adjlw{\the\@tempdima}%
24175 \ifnum `l=\WF@place % fig on left
24176 \if@RTL%
24177 \kern\@tempdimb \kern\columnsep
24178 \def\@tempa{\hss}% position to left of the gap
24179 \else%
24180 \hss % figure overlaps space to the left
24181 \def\@tempa{\kern\columnsep}% position to left of the gap
24182 \fi%
24183 \else % fig on right
24184 \if@RTL%
24185 \hss
24186 \@tempdima\z@
24187 \def\@tempa{\kern\columnsep}
24188 \else%
24189 \@tempdima\z@ % no left indentation
24190 \kern\@tempdimb \kern\columnsep
24191 \def\@tempa{\hss}% figure overlaps space to the right
24192 \fi%
24193 \fi
24194 \ifdim\@tempdimb<\hsize
24195 \xdef\WF@wrapil{\the\@tempdima \the\@tempdimb}% indentation and length
24196 \xdef\WF@adjtlm{\the\@tempdima}%
24197 \else
24198 \xdef\WF@wrapil{\z@ \the\hsize}%
24199 \xdef\WF@adjlw{\z@}\xdef\WF@adjtlm{\z@}%

```



```

24200 \fi
24201 \ifdim\pagetotal=\z@ % \WF@info{Put \WF@wfname at top of p.\thepage}%
24202 \global\advance\WF@size-\intextsep
24203 \else % \WF@info{Putting \WF@wfname in middle of page}%
24204 \setbox\WF@box\hbox{\lower\intextsep\box\WF@box}%
24205 \fi \dp\WF@box\z@ \box\WF@box \@tempa
24206 }% end \hbox to Opt
24207 \aftergroup\WF@startwrapping % after the \endgroup which immediately follows
24208 \fi}

```

## 161 File xcolor-xetex-bidi.def

```

24209 \ProvidesFile{xcolor-xetex-bidi.def}[2022/06/13 v0.3 bidi adaptations for xcolor package for
24210 \long\def\color@b@x#1#2#3%
24211 {\leavevmode\ifmmode\else\ifRTL\beginL\fi\fi
24212 \setbox\z@\hbox{\kern\fbboxsep\setcolor\ifRTL\beginR\fi#3\ifRTL\endR\fi}\kern\fbboxsep}%
24213 \dimen@ \ht\z@\advance\dimen@\fbboxsep\ht\z@\dimen@
24214 \dimen@ \dp\z@\advance\dimen@\fbboxsep\dp\z@\dimen@
24215 {\if#2\color@block{\wd\z@}{\ht\z@}{\dp\z@}\box\z@}\ifmmode\else\ifRTL\endL\fi\fi}
24216 \protected\def\normalcolor{\let\currentcolor\defaultcolor\ifhmode\ifRTL\beginL\aftergroup
24217 \DeclareRobustCommand\color
24218 {\ifhmode\ifRTL\beginL\aftergroup\endR\fi\fi@ifnextchar[@\undeclaredcolor\@declaredcolor]}
24219 \def\@undeclaredcolor[#1]#2%
24220 {\begingroup
24221 \let\@cls@empty
24222 \XC@getmodclr12{#1}{#2}{}}%
24223 {\ifblendcolors
24224 \ifx\colorblend\@empty\else
24225 \edef\@mix{\expandafter@gobble\colorblend}\@tempwafalse
24226 \XC@coremodel\@mod\@clr\@xcolor@{}{}\@mod\@clr
24227 \fi
24228 \fi
24229 \ifconvertcolorsU
24230 \edef\@tmp{\XC@tgt@mod{\@mod}}%
24231 \convertcolorspec\@mod\@clr\@tmp\@clr \let\@mod\@tmp
24232 \fi
24233 \ifmaskcolors
24234 \convertcolorspec\@mod\@clr\XC@mmod\@clr
24235 \let\@mod\XC@mmod
24236 \XC@inflate\@mod\XC@mclr\@clr\@tmp
24237 \expandafter\XC@mul\@tmp,\@clr
24238 \fi
24239 \edef\@tmp{\noexpand\XC@undeclaredcolor{\@mod}{\@clr}}%
24240 \expandafter\endgroup\@tmp}}
24241 \def\@declaredcolor#1%
24242 {\XC@edef\XC@tmp{#1}\XC@tstfalse
24243 \ifcase\XC@type\XC@tmp\relax \XC@tsttrue\or \relax\else
24244 \ifblendcolors\XC@tsttrue\fi \ifmaskcolors\XC@tsttrue\fi
24245 \ifconvertcolorsU\XC@tsttrue\fi
24246 \fi
24247 \ifXC@tst
24248 \expandafter\XC@declaredcolor\else
24249 \expandafter\XC@declaredcolor\fi}
24250 \def\XC@undeclaredcolor#1#2%

```



```

24251 {\@ifundefinedmodel{#1}%
24252 {\c@lor@error{model `#1'}}}%
24253 {\@nameuse{color@#1}\current@color{#2}%
24254 \edef\XC@current@color{\noexpand\xcolor@{}{\current@color}{#1}{#2}}%
24255 \XC@display}\ifhmode\if@RTL\beginR\aftergroup\endL\fi\fi\ignorespaces}
24256 \def\XC@declaredc@lor
24257 {\XC@let@Nc\XC@current@color{\string\color@\XC@@tmp}%
24258 \edef\current@color{\XC@current@color}%
24259 \XC@display\ifhmode\if@RTL\beginR\aftergroup\endL\fi\fi\ignorespaces}
24260 \DeclareRobustCommand\bidicolor
24261 {\@ifnextchar[\@bidiundeclaredcolor\@bidideclaredcolor}
24262 \def\@bidiundeclaredcolor[#1]#2%
24263 {\begingroup
24264 \let\@ccls@empty
24265 \XC@getmodclr12{#1}{#2}{}}%
24266 {\ifblendcolors
24267 \ifx\colorblend\@empty\else
24268 \edef\@mix{\expandafter\@gobble\colorblend}\@tempswafalse
24269 \XC@coremodel\@mod\@clr\xcolor@{}{\@mod\@clr
24270 \fi
24271 \fi
24272 \ifconvertcolorsU
24273 \edef\@tmp{\XC@tgt@mod{\@mod}}%
24274 \convertcolorspec\@mod\@clr\@tmp\@clr \let\@mod\@tmp
24275 \fi
24276 \ifmaskcolors
24277 \convertcolorspec\@mod\@clr\XC@mmod\@clr
24278 \let\@mod\XC@mmod
24279 \XC@inflate\@mod\XC@mclr\@clr\@tmp
24280 \expandafter\XC@mul\@tmp,\@clr
24281 \fi
24282 \edef\@tmp{\noexpand\XC@bidiundeclaredcolor{\@mod}{\@clr}}%
24283 \expandafter\endgroup\@tmp}}
24284 \def\XC@bidiundeclaredcolor#1#2%
24285 {\@ifundefinedmodel{#1}%
24286 {\c@lor@error{model `#1'}}}%
24287 {\@nameuse{color@#1}\current@color{#2}%
24288 \edef\XC@current@color{\noexpand\xcolor@{}{\current@color}{#1}{#2}}%
24289 \XC@display}}
24290 \def\@bidideclaredcolor#1%
24291 {\XC@edef\XC@@tmp{#1}\XC@@tstfalse
24292 \ifcase\XC@type\XC@@tmp\relax \XC@@tsttrue\or \relax\else
24293 \ifblendcolors\XC@@tsttrue\fi \ifmaskcolors\XC@@tsttrue\fi
24294 \ifconvertcolorsU\XC@@tsttrue\fi
24295 \fi
24296 \ifXC@@tst
24297 \expandafter\XC@bidideclaredcolor\else
24298 \expandafter\XC@bidideclaredc@lor\fi}
24299 \def\XC@bidideclaredcolor
24300 {\XC@split\XC@@tmp
24301 \edef\@tmp{\noexpand\@bidiundeclaredcolor[\@mod]{\@clr}}%
24302 \expandafter\endgroup\@tmp}
24303 \def\XC@bidideclaredc@lor
24304 {\XC@let@Nc\XC@current@color{\string\color@\XC@@tmp}%

```





```

24305 \edef\current@color{\XC@current@color}%
24306 \XC@display}
24307 \def\color@box#1#2{\color@b@x\relax{\bidicolor#1{#2}}}
24308 \def\color@fbbox#1#2#3#{\protect\color@fb@x{#1}{#2}{#3}}
24309 \def\color@fb@x#1#2#3#4%
24310 {\color@b@x{\fbboxsep\z@\bidicolor#1{#2}\XC@fbbox}%
24311 {\@ifxempty{#3}{\bidicolor#1}{\bidicolor#3}{#4}}}
24312 \def\color@setgroup{\begingroup\ifhmode\if@RTL\beginL\aftergroup\endR\fi\fi\set@color\ifhmode

```

## 162 File latex-xetex-bidi.def

```

24313 \ProvidesFile{latex-xetex-bidi.def}[2022/07/04 v1.4.9 bidi adaptations for `latex.ltx'for
24314 \newcommand{\TeXXeTOn}{\TeXXeTstate@ne}
24315 \newcommand{\TeXXeTOff}{\TeXXeTstate@z@}
24316 \TeXXeTOn
24317 \def\bidi@RTL@everypar{\setbox\z@\lastbox\if@RTL\beginR\else\beginL\fi\ifvoid\z@\else\usebo
24318 \let\bidi@o@everypar=\everypar
24319 \newtoks\bidi@n@everypar
24320 \bidi@n@everypar\expandafter{\the\bidi@o@everypar}
24321 \bidi@o@everypar{\bidi@RTL@everypar\the\bidi@n@everypar}
24322 \let\everypar=\bidi@n@everypar
24323 \def\moreLRE{\bracetext \aftergroup\endL \beginL\@RTLfalse}
24324 \def\moreRLE{\bracetext \aftergroup\endR \beginR\@RTLtrue}
24325 \protected\def\hboxR{\hbox\bgroup
24326 \everyhbox{%
24327 \aftergroup\egroup
24328 \everyhbox{}}%
24329 \beginR
24330 \@hboxRconstructtrue
24331 \bgroup
24332 \aftergroup\endR
24333 \aftergroup\egroup
24334 }\hbox}
24335 \protected\def\hboxL{\hbox\bgroup
24336 \everyhbox{%
24337 \aftergroup\egroup
24338 \everyhbox{}}%
24339 \beginL
24340 \@hboxRconstructfalse
24341 \bgroup
24342 \aftergroup\endL
24343 \aftergroup\egroup
24344 }\hbox}
24345 \protected\def\vboxR{\vbox\bgroup
24346 \everyvbox{%
24347 \aftergroup\egroup
24348 \everyvbox{}}%
24349 \@RTLtrue
24350 \@RTLtabtrue
24351 \bgroup
24352 \aftergroup\egroup
24353 }\vbox}
24354 \protected\def\vboxL{\vbox\bgroup
24355 \everyvbox{%

```



```

24356 \aftergroup\egroup
24357 \everyvbox{}%
24358 \@RTLfalse
24359 \@RTLtabfalse
24360 \bgroup
24361 \aftergroup\egroup
24362 }\vbox}
24363 \newcommand*{\bidi@leftskip}{\if@RTL\rightskip\else\leftskip\fi}
24364 \newcommand*{\bidi@rightskip}{\if@RTL\leftskip\else\rightskip\fi}
24365 \def\LTR{\par\@RTLfalse\@RTL@footnotefalse\@RTLtabfalse\hsize\linewidth\parshape\z@\bidi@beamer}
24366 \def\endLTR{\par}
24367 \newenvironment{LTR*}{\LTR
24368 \everypar{%
24369     {\setbox\z@\lastbox
24370      \ifvoid\z@
24371       \kern-\parindent
24372      \fi}%
24373 }%
24374 }\endLTR\@endpetrue}
24375 \def\RTL{\par\@RTLtrue\@RTL@footnotetrue\@RTLtabtrue\hsize\linewidth\parshape\z@\bidi@beamer}
24376 \def\endRTL{\par}
24377 \newenvironment{RTL*}{\RTL
24378 \everypar{%
24379     {\setbox\z@\lastbox
24380      \ifvoid\z@
24381       \kern-\parindent
24382      \fi}%
24383 }%
24384 }\endRTL\@endpetrue}
24385 \def\setRTL{\@RTLtrue\@RTL@footnotetrue\@RTLtabtrue\bidi@beamer@ragged}
24386 \def\setLTR{\@RTLfalse\@RTL@footnotefalse\@RTLtabfalse\bidi@beamer@ragged}
24387 \let\unsetRTL=\setRTL
24388 \let\unsetLTR=\setLTR
24389 \let\LR=\LRE
24390 \let\RL=\RLE
24391 \def\@ensure@RTL#1{\if@RTL#1\else\RLE{#1}\fi}
24392 \def\@ensure@LTR#1{\if@RTL\LRE{#1}\else#1\fi}
24393 \let\@ensure@RL=\@ensure@RTL
24394 \let\@ensure@LR=\@ensure@LTR
24395 \def\@ensure@dir#1{\if@RTL\RLE{#1}\else{#1}\fi}
24396 \let\@ensure@maindir=\@ensure@dir
24397 \def\@RTL{RTL}
24398 \def\@LTR{LTR}
24399 \def\save@dir{\if@RTL\gdef\saved@dir{RTL}\else\gdef\saved@dir{LTR}\fi}
24400 \def\reset@dir{\ifx\saved@dir\@RTL\setRTL\else\ifx\saved@dir\@LTR\setLTR\else\relax\fi}
24401 \let\@TeX\TeX
24402 \def\TeX{\@ensure@LTR{\@TeX}}
24403 \let\@LaTeX\LaTeX
24404 \def\LaTeX{\@ensure@LTR{\@LaTeX}}
24405 \let\@LaTeXe\LaTeXe
24406 \def\LaTeXe{\@ensure@LTR{\@LaTeXe}}
24407 \long\def\bidi@reflect@box#1{%
24408     \leavevmode
24409     \setbox\z@\hbox{#1}}%

```



```

24410 \setbox\tw@\hbox{\special{x:gsave}\special{x:scale -1 1}\rlap{\copy\z@}\special{x:grestore
24411 \hb@xt@\wd\z@{\kern\wd\z@\box\tw@\hss}%
24412 }
24413 \bidi@newrobustcmd*{\XeTeX}{\LR{\leavevmode$\smash{\hbox{X\lower.5ex
24414 \hbox{\kern-.125em\bidi@reflect@box{E}}\kern-.1667em \TeX}}$}}
24415 \bidi@newrobustcmd*{\XeLaTeX}{\LR{\leavevmode$\smash{\hbox{X\lower.5ex
24416 \hbox{\kern-.125em\bidi@reflect@box{E}}\kern-.1667em \LaTeX}}$}}
24417 \let\setRL=\setRTL
24418 \let\setLR=\setLTR
24419 \let\unsetRL=\setLTR
24420 \def\bidi@tabular@RTLcases{\let\@halignto\@empty\@bidi@tabular@RTLcases}
24421 \ifpackageloaded{array}{%
24422 \def\@bidi@tabular@RTLcases{\@RTLtabtrue%
24423 \leavevmode
24424 \hbox \bgroup $\left.\col@sep\tabcolsep \let\d@llarbegin\begin\group
24425 \let\d@llarend\end\group
24426 \@tabarray}
24427 \def\endbidi@tabular@RTLcases{\endarray \right\rbrace$\egroup}
24428 }{%
24429 \def\@bidi@tabular@RTLcases{\@RTLtabtrue%
24430 \leavevmode \hbox \bgroup
24431 $\left.\let\@acol\@tabacol
24432 \let\@classz\@tabclassz
24433 \let\@classiv\@tabclassiv \let\\\@tabularcr\@tabarray}
24434
24435 \def\endbidi@tabular@RTLcases{\crr\egroup\if@RTLtab\egroup\endR\egroup\fi
24436 \egroup\right\rbrace $\egroup}}
24437 \def\RTLcases#1{\left.\vcenter{\normalbaselines\m@th
24438 \ialign{##\hfil$\quad{##}\hfil\crr#1\crr}}\,,\right\}}
24439 \renewenvironment{RTLcases}{%
24440 \bidi@matrix@check\RTLcases\env@RTLcases
24441 }{%
24442 \endbidi@tabular@RTLcases%
24443 }
24444 \def\env@RTLcases{%
24445 \let\@ifnextchar\bidi@new@ifnextchar
24446 \def\arraystretch{1.2}%
24447 \bidi@tabular@RTLcases{@}r@{\quad}r@{}}%
24448 }
24449 \def\SepMark#1{\gdef\@SepMark{#1}}
24450 \SepMark{.}
24451 \def\@thmcountersep{\@SepMark}
24452 \def\setRTLbibitems{\@RTLbibitemstrue\@LTRbibitemsfalse}
24453 \def\setLTRbibitems{\@LTRbibitemstrue\@RTLbibitemsfalse}
24454 \def\setdefaultbibitems{\@RTLbibitemsfalse\@LTRbibitemsfalse}
24455 \newcommand*{\bidi@thebibliography@font@hook}{}
24456 \def\list#1#2{%
24457 \ifnum \@listdepth >5\relax
24458 \@toodeep
24459 \else
24460 \global\advance\@listdepth\@ne
24461 \fi
24462 \rightmargin\z@
24463 \listparindent\z@

```



```

24464 \itemindent\z@
24465 \csname @list\romannumeral\the\@listdepth\endcsname
24466 \def\@itemlabel{#1}%
24467 \let\makelabel\@mklab
24468 \@nmbrrlistfalse
24469 #2\relax
24470 \@trivlist
24471 \parskip\parsep
24472 \parindent\listparindent
24473 \advance\linewidth -\rightmargin
24474 \advance\linewidth -\leftmargin
24475 \if@bidi@list@minipage@parbox
24476 \if@RTL
24477 \advance\@totalleftmargin \leftmargin
24478 \else
24479 \advance\@totalleftmargin \rightmargin
24480 \fi
24481 \else
24482 \if@hboxRconstruct
24483 \if@bidi@list@minipage@parbox@not@nob
24484 \if@RTL
24485 \advance\@totalleftmargin \rightmargin
24486 \else
24487 \advance\@totalleftmargin \leftmargin
24488 \fi
24489 \else
24490 \if@RTL
24491 \advance\@totalleftmargin \leftmargin
24492 \else
24493 \advance\@totalleftmargin \rightmargin
24494 \fi\fi
24495 \else
24496 \if@RTL
24497 \advance\@totalleftmargin \rightmargin
24498 \else
24499 \advance\@totalleftmargin \leftmargin
24500 \fi\fi\fi
24501 \parshape \@ne \@totalleftmargin \linewidth
24502 \ignorespaces}
24503 \long\def\@iiiparbox#1#2[#3]#4#5{%
24504 \leavevmode
24505 \@pboxswfalse
24506 \if@hboxRconstruct
24507 \@bidi@list@minipage@parbox@not@nobtrue
24508 \fi
24509 \if@RTL
24510 \ifx#1t%
24511 \@bidi@list@minipage@parboxtrue
24512 \else
24513 \ifx#1b%
24514 \@bidi@list@minipage@parboxtrue
24515 \fi
24516 \fi
24517 \fi

```



```

24518 \setlength\@tempdima{#4}%
24519 \@begin@tempboxa\vbox{\hsize\@tempdima\@parboxrestore#5\@par}%
24520 \ifx\relax#2\else
24521 \setlength\@tempdimb{#2}%
24522 \edef\@parboxto{to\the\@tempdimb}%
24523 \fi
24524 \if#1b\vbox
24525 \else\if #1t\vtop
24526 \else\ifmmode\vcenter
24527 \else\@pboxswtrue $\vcenter
24528 \fi\fi\fi
24529 \@parboxto{\let\hss\vss\let\unhbox\unvbox
24530 \csname bm@#3\endcsname}%
24531 \if@pboxsw \m@th$\fi
24532 \@end@tempboxa}
24533 \newenvironment{LTRitems}
24534 {\par\@RTLfalse\@RTLtabfalse\@bidi@beamer@ragged
24535 \if@bidi@list@minipage@parbox
24536 \parshape \@ne \dimexpr(\@totalleftmargin-\leftmargin) \linewidth
24537 \else \if@hboxRconstruct\if@bidi@list@minipage@parbox@not@nob
24538 \parshape \@ne \dimexpr(\@totalleftmargin+\leftmargin) \linewidth\else
24539 \parshape \@ne \dimexpr(\@totalleftmargin-\leftmargin) \linewidth\fi
24540 \else \parshape \@ne \dimexpr(\@totalleftmargin+\leftmargin) \linewidth\fi
24541 \ignorespaces}{\vskip\z@}
24542 \newenvironment{RTLitems}
24543 {\par\@RTLtrue\@RTLtabtrue\@bidi@beamer@ragged
24544 \if@bidi@list@minipage@parbox
24545 \parshape \@ne \dimexpr(\@totalleftmargin+\leftmargin) \linewidth
24546 \else \if@hboxRconstruct\if@bidi@list@minipage@parbox@not@nob
24547 \parshape \@ne \dimexpr(\@totalleftmargin-\leftmargin) \linewidth\else
24548 \parshape \@ne \dimexpr(\@totalleftmargin+\leftmargin) \linewidth\fi
24549 \else \parshape \@ne \dimexpr(\@totalleftmargin-\leftmargin) \linewidth\fi
24550 \ignorespaces}{\vskip\z@}
24551 \newenvironment{LTRbibitems}
24552 {\par\@RTLfalse\@RTLtabfalse\@bidi@beamer@ragged
24553 \if@bidi@list@minipage@parbox
24554 \parshape \@ne \dimexpr(\@totalleftmargin-\leftmargin) \linewidth
24555 \else \if@hboxRconstruct\if@bidi@list@minipage@parbox@not@nob
24556 \parshape \@ne \dimexpr(\@totalleftmargin+\leftmargin) \linewidth\else
24557 \parshape \@ne \dimexpr(\@totalleftmargin-\leftmargin) \linewidth\fi
24558 \else \parshape \@ne \dimexpr(\@totalleftmargin+\leftmargin) \linewidth\fi
24559 \ignorespaces}{\vskip\z@}
24560 \newenvironment{RTLbibitems}
24561 {\par\@RTLtrue\@RTLtabtrue\@bidi@beamer@ragged
24562 \if@bidi@list@minipage@parbox
24563 \parshape \@ne \dimexpr(\@totalleftmargin+\leftmargin) \linewidth
24564 \else \if@hboxRconstruct\if@bidi@list@minipage@parbox@not@nob
24565 \parshape \@ne \dimexpr(\@totalleftmargin-\leftmargin) \linewidth\else
24566 \parshape \@ne \dimexpr(\@totalleftmargin+\leftmargin) \linewidth\fi
24567 \else \parshape \@ne \dimexpr(\@totalleftmargin-\leftmargin) \linewidth\fi
24568 \ignorespaces}{\vskip\z@}
24569 \def\raggedright{%
24570 \let\\\@centercr\@rightskip\@flushglue \rightskip\@rightskip
24571 \leftskip\z@skip

```



```

24572 \parindent\z@\parfillskip\z@skip}
24573 \let\bidiorig@raggedleft\raggedleft
24574 \let\bidiorig@raggedright\raggedright
24575 \renewcommand\raggedleft{\if@bidi@list@minipage@parbox\bidiorig@raggedright\else\if@hboxRco
24576 \renewcommand\raggedright{\if@bidi@list@minipage@parbox\bidiorig@raggedleft\else\if@hboxRco
24577 \newcommand{\bidioraggedright}{\if@RTL\raggedleft\else\raggedright\fi}
24578 \newcommand{\bidioraggedleft}{\if@RTL\raggedright\else\raggedleft\fi}
24579 \def\centerline#1{%
24580 \if@RTL\@@line{\hss\beginR#1\endR\hss}
24581 \else\@@line{\hss#1\hss}\fi}
24582 \def\leftline#1{%
24583 \if@RTL\@@line{\beginR#1\endR\hss}
24584 \else\@@line{#1\hss}\fi}
24585 \def\rightline#1{%
24586 \if@RTL\@@line{\hss\beginR#1\endR}
24587 \else\@@line{\hss#1}\fi}
24588 \let\bidiorig@leftline\leftline
24589 \let\bidiorig@rightline\rightline
24590 \def\leftline#1{\ifhmode\if@RTL\bidiorig@rightline{#1}\else\bidiorig@leftline{#1}\fi\else\
24591 \def\rightline#1{\ifhmode\if@RTL\bidiorig@leftline{#1}\else\bidiorig@rightline{#1}\fi\else\
24592 \def\bidirlap#1{\hb@xt@{z@}{\if@RTL\hss\fi#1\if@RTL\else\hss\fi}}
24593 \def\bidillap#1{\hb@xt@{z@}{\if@RTL\else\hss\fi#1\if@RTL\hss\fi}}
24594 \def\hangfrom#1{\setbox\@tempboxa\hbox{#{#1}}}%
24595 \hangindent \if@RTL-\else\fi\wd\@tempboxa\noindent\box\@tempboxa}
24596 \def\narrower{%
24597 \advance\if@RTL\rightskip\else\leftskip\fi\parindent
24598 \advance\if@RTL\leftskip\else\rightskip\fi\parindent}
24599 \def\underline#1{%
24600 \relax
24601 \ifmmode\@@underline{#1}%
24602 \else
24603 \if@RTL $\@@underline{\hbox{\beginR#1\endR}}\m@th$\relax
24604 \else
24605 $\@@underline{\hbox{#1}}\m@th$\relax\fi\fi}
24606 \if@compatibility
24607 \let\undertext=\underline
24608 \fi
24609 \def\@tabular{%
24610 \leavevmode \hbox \bgroup \if@RTLtab\beginR \fi
24611 $\let\@acol\@tabacol
24612 \let\@classz\@tabclassz
24613 \let\@classiv\@tabclassiv \let\\\@tabularcr\@tabarray}
24614 \def\endtabular{\crr\egroup\if@RTLtab\egroup\endR\egroup\fi
24615 \egroup $\if@RTLtab\endR\fi\egroup}
24616 \expandafter \let \csname endtabular*\endcsname = \endtabular
24617 \def\@array[#1]#2{%
24618 \if #1t\vtop \else \if#1b\vbox \else \vcenter \fi\fi
24619 \bgroup
24620 \setbox\@arstrutbox\hbox{%
24621 \vrule \@height\arraystretch\ht\strutbox
24622 \@depth\arraystretch \dp\strutbox
24623 \@width\z@}%
24624 \mkpream{#2}%
24625 \edef\@preamble{%

```



```

24626 \ialign \noexpand\@halignto
24627 \bgroup \@arstrut \@preamble \tabskip\z@skip \cr}%
24628 \let\@startpbox\@startpbox \let\@endpbox\@endpbox
24629 \let\tabularnewline\%
24630 \let\par\@empty
24631 \let\@sharp##%
24632 \set@typeset@protect
24633 \lineskip\z@skip\baselineskip\z@skip
24634 \ifhmode \@preamerr\z@ \@par\fi
24635 \if@RTLtab\hbox\bgroup\beginR\@hboxRconstructtrue\if #1t\vtop \else \vbox \fi\bgroup\fi
24636 \@preamble}
24637 \def\array{\let\@acol\@arrayacol \let\@classz\@arrayclassz
24638 \let\@classiv\@arrayclassiv
24639 \let\\\@arraycr\let\@halignto\@empty\@RTLtabfalse\@tabarray}
24640 \def\@testpach#1{\@chclass \ifnum \@lastchclass=\tw@ 4 \else
24641 \ifnum \@lastchclass=3 5 \else
24642 \z@ \if #1c\@chnum \z@ \else
24643 \if \if@RTLtab#1r\else#1l\fi\@chnum \@ne \else
24644 \if \if@RTLtab#1l\else#1r\fi\@chnum \tw@ \else
24645 \@chclass \if #1|\@ne \else
24646 \if #1@\tw@ \else
24647 \if #1p3 \else \z@ \@preamerr 0\fi
24648 \fi \fi \fi \fi \fi
24649 \fi}
24650 \def\bm@l{\if@RTL\hss\unhbox\@tempboxa\else\unhbox\@tempboxa\hss\fi}
24651 \def\bm@r{\if@RTL\unhbox\@tempboxa\hss\else\hss\unhbox\@tempboxa\fi}
24652 \def\bm@t{\unhbox\@tempboxa\hss}
24653 \def\bm@b{\hss\unhbox\@tempboxa}
24654 \def\@dottedtocline#1#2#3#4#5{%
24655 \ifnum #1>\c@tocdepth \else
24656 \vskip \z@ \@plus.2\p@
24657 {\if@RTL\righskip\else\leftskip\fi #2\relax \if@RTL\leftskip\else\righskip\fi \@tocma
24658 \parindent #2\relax\@afterindenttrue
24659 \interlinepenalty\@M
24660 \leavevmode
24661 \@tempdima #3\relax
24662 \advance\if@RTL\righskip\else\leftskip\fi \@tempdima \null\nobreak\hskip -\if@RTL\righ
24663 {#4}\nobreak
24664 \leaders\hbox{$\m@th
24665 \mkern \@dotsep mu\hbox{.}\mkern \@dotsep
24666 mu$}\hfill
24667 \nobreak
24668 \hb@xt@\@pnumwidth{\hfil\normalfont \normalcolor #5}}%
24669 \par}%
24670 \fi}
24671
24672 \newcount\@bidi@column@check@number
24673
24674 \def\@bidi@column@status#1{\gdef\@bidi@current@column@status{#1}}
24675
24676 \def\@bidi@set@column@status#1#2{%
24677 \global\expandafter\let\csname #1\endcsname\@bidi@current@column@status}
24678
24679 \if@twocolumn

```



```

24680 \newcommand\DetectColumn[3][1]{%
24681 \ifx\ bidi@firstcolumn@status@write\relax
24682 \PackageError{bidi}%
24683 {Option 'DetectColumn' not selected}%
24684 {\string\DetectColumn\space
24685 requires the use of the 'DetectColumn'
24686 option on the package}%
24687 \fi
24688 \global\advance\ bidi@column@check@number\@ne
24689 \edef\ bidi@column@type{\expandafter\ifx
24690 \csname bidi@column-\the\ bidi@column@check@number\endcsname\relax
24691 0\else
24692 \csname bidi@column-\the\ bidi@column@check@number\endcsname
24693 \fi}%
24694 \ifcase \ bidi@column@type\relax
24695 \ifcase #1\or #2\or #3\fi % 0 not known use first column as default
24696 \or
24697 #2% % 1 First column
24698 \or
24699 #3% % 2 Second (Last column)
24700 \else
24701 \ERROR
24702 \fi
24703 \edef\next{\write\@auxout
24704 {\string\ bidi@set@column@status{\ bidi@column-\the\ bidi@column@check@number}}%
24705 {\ bidi@column@type}}}%
24706 \next
24707 }
24708
24709 \AtEndDocument{\def\ bidi@set@column@status#1#2{%
24710 \ifnum #2=\ bidi@current@column@status\else
24711 \@tempwattrue
24712 \fi}%
24713 }
24714 \fi
24715
24716 \def\RTL@outputdblcol{%
24717 \if@firstcolumn
24718 \global\@firstcolumnfalse
24719 \global\setbox\@leftcolumn\copy\@outputbox
24720 \splitmaxdepth\maxdimen
24721 \vbadness\maxdimen
24722 \setbox\@outputbox\vbox{\unvbox\@outputbox\unskip}%
24723 \setbox\@outputbox\vsplit\@outputbox to\maxdimen
24724 \toks@\expandafter{\topmark}%
24725 \xdef\@firstcoltopmark{\the\toks@}%
24726 \toks@\expandafter{\splitfirstmark}%
24727 \xdef\@firstcolfirstmark{\the\toks@}%
24728 \ifx\@firstcolfirstmark\@empty
24729 \global\let\@setmarks\relax
24730 \else
24731 \gdef\@setmarks{%
24732 \let\firstmark\@firstcolfirstmark
24733 \let\topmark\@firstcoltopmark}%

```





```

24734 \fi
24735 \else
24736 \global\@firstcolumntrue
24737 \setbox\@outputbox\vbox{%
24738 \hb@xt@\textwidth{%
24739 \hskip \columnwidth
24740 \hfil
24741 {\normalcolor\vrule \@width\columnseprule}%
24742 \hfil
24743 \hb@xt@\columnwidth{%
24744 \bidi@firstcolumn@status@write%
24745 \box\@leftcolumn \hss}%
24746 \hskip -\textwidth
24747 \hb@xt@\columnwidth{%
24748 \bidi@lastcolumn@status@write%
24749 \box\@outputbox \hss}%
24750 \hskip \columnsep
24751 \hskip \columnwidth }}%
24752 \@combinedblfloats
24753 \@setmarks
24754 \@outputpage
24755 \begingroup
24756 \@dblfloatplacement
24757 \@startdblcolumn
24758 \@whiles\if@fcolmade \fi{\@outputpage
24759 \@startdblcolumn}%
24760 \endgroup
24761 \fi}%
24762
24763 \def\LTR@outputdblcol{%
24764 \if@firstcolumn
24765 \global\@firstcolumnfalse
24766 \global\setbox\@leftcolumn\copy\@outputbox
24767 \splitmaxdepth\maxdimen
24768 \vbadness\maxdimen
24769 \setbox\@outputbox\vbox{\unvbox\@outputbox\unskip}%
24770 \setbox\@outputbox\vsplit\@outputbox to\maxdimen
24771 \toks@\expandafter{\topmark}%
24772 \xdef\@firstcoltopmark{\the\toks@}%
24773 \toks@\expandafter{\splitfirstmark}%
24774 \xdef\@firstcolfirstmark{\the\toks@}%
24775 \ifx\@firstcolfirstmark\@empty
24776 \global\let\@setmarks\relax
24777 \else
24778 \gdef\@setmarks{%
24779 \let\firstmark\@firstcolfirstmark
24780 \let\topmark\@firstcoltopmark}%
24781 \fi
24782 \else
24783 \global\@firstcolumntrue
24784 \setbox\@outputbox\vbox{%
24785 \hb@xt@\textwidth{%
24786 \hb@xt@\columnwidth{%
24787 \bidi@firstcolumn@status@write%

```



```

24788      \box\@leftcolumn \hss}%
24789      \hfil
24790      {\normalcolor\vrule \@width\columnseprule}%
24791      \hfil
24792      \hb@xt@\columnwidth{%
24793      \bidi@lastcolumn@status@write%
24794      \box\@outputbox \hss}}}%
24795 \@@combinedblfloats
24796   \@@setmarks
24797   \@@outputpage
24798   \begin@group
24799   \@@dblfloatplacement
24800   \@@startdblcolumn
24801   \@@whilesw@if@fcolmade \fi{\@@outputpage
24802   \@@startdblcolumn}%
24803   \end@group
24804 \fi}%
24805
24806
24807 \renewcommand{\@@outputdblcol}{\if@RTLmain\RTL@outputdblcol\else\LTR@outputdblcol\fi}
24808 \newcommand{\RTLdblcol}{\renewcommand{\@@outputdblcol}{\RTL@outputdblcol}}
24809 \newcommand{\LTRdblcol}{\renewcommand{\@@outputdblcol}{\LTR@outputdblcol}}
24810
24811 \bidi@patchcmd\@makecol{%
24812   \ifvoid\footins
24813     \setbox\@outputbox \box\@cclv
24814   \else
24815     \setbox\@outputbox \vbox {%
24816       \boxmaxdepth \@maxdepth
24817       \unvbox \@cclv
24818       \vskip \skip\footins
24819       \color@begin@group
24820       \normalcolor
24821       \footnoterule
24822       \unvbox \footins
24823       \color@end@group
24824     }%
24825   \fi
24826 }{%
24827   \ifvoid\footins
24828     \ifvoid\@bidi@copyins@
24829       \setbox\@outputbox \box\@cclv
24830     \else
24831       \setbox\@outputbox \vbox {%
24832         \boxmaxdepth \@maxdepth
24833         \unvbox \@cclv
24834         \vskip \skip\@bidi@copyins@
24835         \color@begin@group
24836         \normalcolor
24837         \unvbox \@bidi@copyins@
24838         \color@end@group
24839       }%
24840     \fi
24841   \else

```



```

24842 \setbox\@outputbox \vbox {%
24843 \boxmaxdepth \@maxdepth
24844 \unvbox \ccclv
24845 \vskip \skip\footins
24846 \color@begingroup
24847 \normalcolor
24848 \footnoterule
24849 \unvbox \footins
24850 \color@endgroup
24851 \ifvoid\@bidi@copyins@
24852 \else
24853 \vskip \skip\@bidi@copyins@
24854 \color@begingroup
24855 \normalcolor
24856 \unvbox \@bidi@copyins@
24857 \color@endgroup
24858 \fi
24859 }%
24860 \fi
24861 }{}{}
24862
24863 \def\LTRmarginpar{%
24864 \ifhmode
24865 \@bsphack
24866 \@floatpenalty -\@Mii
24867 \else
24868 \@floatpenalty-\@Miii
24869 \fi
24870 \ifinner
24871 \@parmoderr
24872 \@floatpenalty\z@
24873 \else
24874 \@next\@currbox\@freelist{}{}%
24875 \@next\@marbox\@freelist{global\count\@marbox\m@ne}%
24876 {\@floatpenalty\z@
24877 \@fltovf\def\@currbox{\@tempboxa}\def\@marbox{\@tempboxa}}%
24878 \fi
24879 \@ifnextchar [\@LTRxmpar\@LTRympar}
24880 \long\def\@LTRxmpar[#1]#2{%
24881 \@LTRsavemarbox\@marbox{#1}%
24882 \@LTRsavemarbox\@currbox{#2}%
24883 \@xympar}
24884 \long\def\@LTRympar#1{%
24885 \@LTRsavemarbox\@marbox{#1}%
24886 \global\setbox\@currbox\copy\@marbox
24887 \@xympar}
24888 \long\def \@LTRsavemarbox #1#2{%
24889 \global\setbox #1%
24890 \color@vbox
24891 \vtop{%
24892 \hsize\marginparwidth
24893 \@parboxrestore
24894 \@LTRmarginparreset
24895 #2%

```



```

24896         \@minipagefalse
24897         \outer@nobreak
24898     }%
24899     \color@endbox
24900 }
24901 \def \@LTRmarginparreset {%
24902     \reset@font
24903     \normalsize
24904     \@minipagetrue
24905     \everypar{\@minipagefalse\everypar{}\beginL}%
24906 }
24907 \def\RTLmarginpar{%
24908     \ifhmode
24909         \@bsphack
24910         \@floatpenalty -\@Mii
24911     \else
24912         \@floatpenalty-\@Miii
24913     \fi
24914     \ifinner
24915         \@parmoderr
24916         \@floatpenalty\z@
24917     \else
24918         \@next\@currbox\@freelist{}\}%
24919         \@next\@marbox\@freelist{\global\count\@marbox\m@ne}%
24920         {\@floatpenalty\z@
24921         \@fltovf\def\@currbox{\@tempboxa}\def\@marbox{\@tempboxa}}}%
24922     \fi
24923     \ifnextchar [\@RTLxmpar\@RTLympar}
24924 \long\def\@RTLxmpar[#1]#2{%
24925     \@RTLSavemarbox\@marbox{#1}%
24926     \@RTLSavemarbox\@currbox{#2}%
24927     \@xympar}
24928 \long\def\@RTLympar#1{%
24929     \@RTLSavemarbox\@marbox{#1}%
24930     \global\setbox\@currbox\copy\@marbox
24931     \@xympar}
24932 \long\def \@RTLSavemarbox #1#2{%
24933     \global\setbox #1%
24934         \color@vbox
24935         \vtop{%
24936             \hsize\marginparwidth
24937             \@parboxrestore
24938             \@RTLmarginparreset
24939             #2%
24940             \@minipagefalse
24941             \outer@nobreak
24942         }%
24943     \color@endbox
24944 }
24945 \def \@RTLmarginparreset {%
24946     \reset@font
24947     \normalsize
24948     \@minipagetrue
24949     \everypar{\@minipagefalse\everypar{}\beginR}%

```



```

24950 }
24951 \def\addmarginpar{\@next\@marbox\@currlist{\@cons\@freelist\@marbox
24952   \@cons\@freelist\@currbox}\@latexbug\@tempcnta\@ne
24953   \if@twocolumn
24954     \if@firstcolumn \@tempcnta\m@ne \fi
24955   \else
24956     \if@mparswitch
24957       \ifodd\c@page \else\@tempcnta\m@ne \fi
24958     \fi
24959     \if@reversemargin \@tempcnta -\@tempcnta \fi
24960   \fi
24961   \ifnum\@tempcnta <\z@ \global\setbox\@marbox\box\@currbox \fi
24962   \@tempdima\@mparbottom
24963   \advance\@tempdima -\@pageht
24964   \advance\@tempdima\ht\@marbox
24965   \ifdim\@tempdima >\z@
24966     \@latex@warning@no@line {Marginpar on page \thepage\space moved}%
24967   \else
24968     \@tempdima\z@
24969   \fi
24970   \global\@mparbottom\@pageht
24971   \global\advance\@mparbottom\@tempdima
24972   \global\advance\@mparbottom\dp\@marbox
24973   \global\advance\@mparbottom\marginparpush
24974   \advance\@tempdima -\ht\@marbox
24975   \global\setbox \@marbox
24976     \vbox {\vskip \@tempdima
24977       \box \@marbox}%
24978   \global \ht\@marbox \z@
24979   \global \dp\@marbox \z@
24980   \kern -\@pagedp
24981   \nointerlineskip
24982   \hb@xt@\columnwidth
24983     {\if@RTL\if@LTRmarginpar\beginL\else\beginR\fi\else\if@RTLmarginpar\beginR\else\beginL
24984       \hskip\columnwidth \hskip\marginparsep
24985     \else
24986       \hskip -\marginparsep \hskip -\marginparwidth
24987     \fi
24988     \box\@marbox \hss\if@RTL\if@LTRmarginpar\endL\else\endR\fi\else\if@RTLmarginpar\endR
24989   \nointerlineskip
24990   \hbox{\vrule \@height\z@ \@width\z@ \@depth\@pagedp}}
24991 \long\def\@ympar#1{%
24992   \@savemarbox\@marbox{\if@RTL\if@LTRmarginpar\@RTLfalse\else\@RTLtrue\fi\else\if@RTLmarginpar
24993   \global\setbox\@currbox\copy\@marbox
24994   \@xympar}
24995 \def\setRTLmarginpar{\@RTLmarginpartrue\@LTRmarginparfalse}
24996 \def\setLTRmarginpar{\@LTRmarginpartrue\@RTLmarginparfalse}
24997 \def\setdefaultmarginpar{\@RTLmarginparfalse\@LTRmarginparfalse}
24998 \def\@stopline{\unskip\@stopfield\if@rjfield \global\@rjfieldfalse
24999   \@tempdima\@totalleftmargin \advance\@tempdima\linewidth
25000 \hbox to\@tempdima{\if@RTL\beginR\fi\@itemfudge\hskip\dimen\@curtabmar
25001   \box\@curline\hfil\box\@curfield\if@RTL\endR\fi}\else\@addfield
25002   \hbox to\linewidth{\if@RTL\beginR\fi\@itemfudge
25003   \hskip\dimen\@curtabmar\box\@curline\hfil\if@RTL\endR\fi}}%

```



```

25004 \fi}
25005
25006 \newcommand*{\bidi@font@@outputpage}{}
25007
25008 \def\@outputpage{%
25009 \begingroup          % the \endgroup is put in by \aftergroup
25010 \let \protect \noexpand
25011 \@resetactivechars
25012 \global\let\@if@newlist@if@newlist
25013 \global\@newlistfalse
25014 \@parboxrestore
25015 \global\let\bidi@BeforeOutputPageShipOut\@firstofone
25016 \bidi@beforeoutputpageshipouthook
25017 \shipout \vbox{%
25018   \set@typeset@protect
25019   \aftergroup \endgroup
25020   \aftergroup \set@typeset@protect
25021                               % correct? or just restore by ending
25022                               % the group?
25023 \if@specialpage
25024   \global\@specialpagefalse\@nameuse{ps@\@specialstyle}%
25025 \fi
25026 \if@twoside
25027   \ifodd\count\z@ \let\@thehead\@oddhead \let\@thefoot\@oddfoot
25028   \ifRTLmain
25029     \let\@themargin\evensidemargin
25030   \else
25031     \let\@themargin\oddsidemargin
25032   \fi
25033 \else \let\@thehead\@evenhead \let\@thefoot\@evenfoot
25034   \ifRTLmain
25035     \let\@themargin\oddsidemargin
25036   \else
25037     \let\@themargin\evensidemargin
25038   \fi
25039 \fi
25040 \ifx\@thehead\@empty \let\@thehead\hfil \fi
25041 \ifx\@thefoot\@empty \let\@thefoot\hfil \fi
25042 \else %% not @twoside
25043   \ifx\@oddhead\@empty \let\@thehead\hfil \fi
25044   \ifx\@oddfoot\@empty \let\@thefoot\hfil \fi
25045 \fi
25046 \reset@font
25047 \normalsize
25048 \bidi@font@@outputpage
25049 \normalsfcodes
25050 \let\label\@gobble
25051 \let\index\@gobble
25052 \let\glossary\@gobble
25053 \baselineskip\z@skip \lineskip\z@skip \lineskiplimit\z@
25054 \@begindvi
25055 \vskip \topmargin
25056 \moveright\@themargin \vbox {%
25057   \global\let\bidi@BeforeHeader\@firstofone

```



```

25058 \bidi@beforeheaderhook
25059 \setbox\@tempboxa \vbox to\headheight{%
25060 \vfil
25061 \color@hbox
25062 \normalcolor
25063 \hb@xt@\textwidth{\if@RTLmain\@RTLtrue\beginR\else\@RTLfalse\beginL\fi\@thehead\if@
25064 \color@endbox
25065 }% %% 22 Feb 87
25066 \dp\@tempboxa \z@
25067 \box\@tempboxa
25068 \vskip \headsep
25069 \global\let\bidi@BeforeOutputBoxOutputPage\@firstofone
25070 \bidi@beforeoutputboxoutputpagehook
25071 \box\@outputbox
25072 \global\let\bidi@AfterOutputBoxOutputPage\@firstofone
25073 \bidi@afteroutputboxoutputpagehook
25074 \global\let\bidi@BeforeFooter\@firstofone
25075 \bidi@beforefooterhook
25076 \baselineskip \footskip
25077 \color@hbox
25078 \normalcolor
25079 \hb@xt@\textwidth{\if@RTLmain\@RTLtrue\beginR\else\@RTLfalse\beginL\fi\@thefoot\if@
25080 \color@endbox
25081 \global\let\bidi@AfterFooter\@firstofone
25082 \bidi@afterfooterhook
25083 }%
25084 }%
25085 \global\let\bidi@AfterOutputPageShipOut\@firstofone
25086 \bidi@afteroutputpageshipouthook
25087 \global\let\if@newlist\@if@newlist
25088 \global \colht \textheight
25089 \stepcounter{page}%
25090 \let\firstmark\botmark
25091 \global\let\bidi@AtEndOutputPage\@firstofone
25092 \bidi@atendoutputpagehook
25093 }
25094 \long\def\@makecaption#1#2{%
25095 \vskip\abovcaptionskip
25096 \sbox\@tempboxa{#1: #2}%
25097 \ifdim \wd\@tempboxa >\hsize
25098 \if@RTL\beginR\fi#1: #2\if@RTL\endR\fi\par
25099 \else
25100 \global \@minipagefalse
25101 \hb@xt@\hsize{\if@RTL\beginR\fi\hfil\box\@tempboxa\hfil\if@RTL\endR\fi}%
25102 \fi
25103 \vskip\belowcaptionskip}
25104 \let\bidi@samed@eqno=\eqno
25105 \let\bidi@samed@leqno=\leqno
25106 \def\eqno{\ifnum\predisplaydirection<\z@ \bidi@samed@leqno \else \bidi@samed@eqno \fi}
25107 \def\leqno{\ifnum\predisplaydirection<\z@ \bidi@samed@eqno \else \bidi@samed@leqno \fi}
25108 \@ifpackageloaded{amsmath}{-}{-}
25109 \def\@eqnnum{\normalfont \normalcolor \if@RTL\beginR\fi(\theequation)\if@RTL\endR\fi}}
25110 }
25111 \input{footnote-xetex-bidi.def}

```



```

25112 \if@twocolumn
25113   \let\autofootnoterule\relax
25114   \let\leftfootnoterule\relax
25115   \let\rightfootnoterule\relax
25116   \textwidthfootnoterule
25117 \fi
25118 \if@bidi@csundef{@idxitem}{\}%
25119 \renewcommand{\idxitem}{\par\hangindent \if@RTL-\fi40\p@}%
25120 }
25121 \@ifpackageloaded{tocbasic}{\input{tocbasic-xetex-bidi.def}}{}
25122 \@ifclassloaded{article}{\@ifclassloaded{svmult}}{\input{article-xetex-bidi.def}}{}
25123 \@ifclassloaded{extarticle}{\input{extarticle-xetex-bidi.def}}{}
25124 \@ifclassloaded{artikel1}{\input{artikel1-xetex-bidi.def}}{}
25125 \@ifclassloaded{artikel2}{\input{artikel2-xetex-bidi.def}}{}
25126 \@ifclassloaded{artikel3}{\input{artikel3-xetex-bidi.def}}{}
25127 \@ifclassloaded{amsart}{\input{amsart-xetex-bidi.def}}{}
25128 \@ifclassloaded{beamer}{\input{beamer-xetex-bidi.def}}{}
25129 \@ifclassloaded{letter}{\input{letter-xetex-bidi.def}}{}
25130 \@ifclassloaded{extletter}{\input{extletter-xetex-bidi.def}}{}
25131 \@ifclassloaded{memoir}{\input{memoir-xetex-bidi.def}}{}
25132 \@ifclassloaded{refrep}{\input{refrep-xetex-bidi.def}}{}
25133 \@ifclassloaded{extreport}{\input{extreport-xetex-bidi.def}}{}
25134 \@ifclassloaded{report}{\@ifpackageloaded{flowfram}}{\input{report-xetex-bidi.def}}{}
25135 \@ifclassloaded{rapport1}{\input{rapport1-xetex-bidi.def}}{}
25136 \@ifclassloaded{rapport3}{\input{rapport3-xetex-bidi.def}}{}
25137 \@ifclassloaded{scrartcl}{\input{scrartcl-xetex-bidi.def}}{}
25138 \@ifclassloaded{scrbook}{\input{scrbook-xetex-bidi.def}}{}
25139 \@ifclassloaded{scrreprt}{\input{scrreprt-xetex-bidi.def}}{}
25140 \@ifclassloaded{amsbook}{\input{amsbook-xetex-bidi.def}}{}
25141 \@ifclassloaded{extbook}{\input{extbook-xetex-bidi.def}}{}
25142 \@ifclassloaded{boek}{\input{boek-xetex-bidi.def}}{}
25143 \@ifclassloaded{boek3}{\input{boek3-xetex-bidi.def}}{}
25144 \@ifclassloaded{book}{\@ifpackageloaded{flowfram}}{\input{book-xetex-bidi.def}}{}
25145 \@ifclassloaded{bookest}{\input{bookest-xetex-bidi.def}}{}
25146 \@ifclassloaded{combine}{\input{combine-xetex-bidi.def}}{}
25147 \@ifclassloaded{imsproc}{\input{imsproc-xetex-bidi.def}}{}
25148 \@ifpackageloaded{amsmath}{\}%
25149 \@iftagsloaded{leqno}{\input{leqno-xetex-bidi.def}}{}
25150 \@iftagsloaded{fleqn}{\input{fleqn-xetex-bidi.def}}{}
25151 }
25152 \@ifpackageloaded{mathtools}{\%
25153   \RequirePackage{graphicx}%
25154   \input{mathtools-xetex-bidi.def}%
25155 }{}
25156 \@ifpackageloaded{crop}{\RequirePackage{graphicx}}{}
25157 \@ifpackageloaded{lscape}{\RequirePackage{graphicx}}{}
25158 \@ifpackageloaded{sidecap}{\RequirePackage{ragged2e}}{}
25159 \@ifpackageloaded{floatrow}{\RequirePackage{color}}{}
25160 \@ifpackageloaded{algorithm2e}{\input{algorithm2e-xetex-bidi.def}}{}
25161 \@ifpackagewith{algorithm2e}{algonl}{\%
25162 \renewcommand{\theAlgoLine}{\expandafter\csname the\algocf@float\endcsname\@SepMark\arabic{A
25163 }}{}
25164 \@ifpackagewith{algorithm2e}{algotpart}{\renewcommand{\algocf@within}{part}}{}
25165 \@ifpackagewith{algorithm2e}{algotchapter}{\renewcommand{\algocf@within}{chapter}}{}

```





```

25166 \@ifpackagewith{algorithm2e}{algorithsection}{\renewcommand{\algocf@within}{section}}{}
25167 \@ifpackageloaded{amsmath}{\input{amsmath-xetex-bidi.def}}{}
25168 \@ifpackageloaded{amstext}{\input{amstext-xetex-bidi.def}}{}
25169 \@ifpackageloaded{amsthm}{\input{amsthm-xetex-bidi.def}}{}
25170 \@ifpackageloaded{breqn}{\input{breqn-xetex-bidi.def}}{}
25171 \@ifpackageloaded{cals}{\input{cals-xetex-bidi.def}}{}
25172 \@ifpackageloaded{caption}{\input{caption-xetex-bidi.def}}{}
25173 \@ifpackageloaded{caption3}{\input{caption3-xetex-bidi.def}}{}
25174 \@ifpackageloaded{floatrow}{\input{floatrow-xetex-bidi.def}}{}
25175 \@ifpackageloaded{crop}{\@ifclassloaded{memoir}}{\input{crop-xetex-bidi.def}}{}
25176 \@ifpackageloaded{color}{\input{color-xetex-bidi.def}}{}
25177 \@ifpackageloaded{cutwin}{\input{cutwin-xetex-bidi.def}}{}
25178 \@ifpackageloaded{cuted}{\input{cuted-xetex-bidi.def}}{}
25179 \@ifpackageloaded{xcolor}{\input{xcolor-xetex-bidi.def}}{}
25180 \@ifpackageloaded{colortbl}{\input{colortbl-xetex-bidi.def}}{}
25181 \@ifpackageloaded{float}{\@ifpackageloaded{floatrow}}{\input{float-xetex-bidi.def}}{}
25182 \@ifpackageloaded{flowfram}{\input{flowfram-xetex-bidi.def}}{}
25183 \@ifpackageloaded{xltextra}{\input{xltextra-xetex-bidi.def}}{}
25184 \@ifpackageloaded{wrapfig}{\input{wrapfig-xetex-bidi.def}}{}
25185 \@ifpackageloaded{graphicx}{\input{graphicx-xetex-bidi.def}}{}
25186 \@ifpackageloaded{geometry}{\input{geometry-xetex-bidi.def}}{}
25187 \@ifpackageloaded{hvfloat}{\input{hvfloat-xetex-bidi.def}}{}
25188 \@ifpackageloaded{ntheorem}{\input{ntheorem-xetex-bidi.def}}{}
25189 \@ifpackageloaded{tabularx}{\input{tabularx-xetex-bidi.def}}{}
25190 \@ifpackageloaded{longtable}{\input{longtable-xetex-bidi.def}}{}
25191 \@ifpackageloaded{lscape}{\input{lscape-xetex-bidi.def}}{}
25192 \@ifpackageloaded{hyperref}{\input{hyperref-xetex-bidi.def}}{}
25193 \@ifpackageloaded{footnotebackref}{\input{footnotebackref-xetex-bidi.def}}{}
25194 \@ifpackageloaded{ntheorem-hyper}{\input{ntheorem-hyper-xetex-bidi.def}}{}
25195 \@ifpackageloaded{fancybox}{\input{fancybox-xetex-bidi.def}}{}
25196 \@ifpackageloaded{fancyhdr}{\input{fancyhdr-xetex-bidi.def}}{}
25197 \@ifpackageloaded{fix2col}{\input{fix2col-xetex-bidi.def}}{}
25198 \@ifpackageloaded{ftnright}{\input{ftnright-xetex-bidi.def}}{}
25199 \@ifpackageloaded{midfloat}{\input{midfloat-xetex-bidi.def}}{}
25200 \@ifpackageloaded{draftwatermark}{\input{draftwatermark-xetex-bidi.def}}{}
25201 \@ifpackageloaded{dblfnote}{\input{dblfnote-xetex-bidi.def}}{}
25202 \@ifpackageloaded{diagbox}{\input{diagbox-xetex-bidi.def}}{}
25203 \@ifpackageloaded{eso-pic}{\input{eso-pic-xetex-bidi.def}}{}
25204 \@ifpackageloaded{empheq}{\input{empheq-xetex-bidi.def}}{}
25205 \@ifpackageloaded{framed}{\input{framed-xetex-bidi.def}}{}
25206 \@ifpackageloaded{overpic}{\input{overpic-xetex-bidi.def}}{}
25207 \@ifpackageloaded{pdfbase}{\input{pdfbase-xetex-bidi.def}}{}
25208 \@ifpackageloaded{pdfscape}{\input{pdfscape-xetex-bidi.def}}{}
25209 \@ifpackageloaded{pdfpages}{\input{pdfpages-xetex-bidi.def}}{}
25210 \@ifpackageloaded{lettrine}{\input{lettrine-xetex-bidi.def}}{}
25211 \@ifpackageloaded{lineno}{\input{lineno-xetex-bidi.def}}{}
25212 \@ifpackageloaded{listings}{\input{listings-xetex-bidi.def}}{}
25213 \@ifpackageloaded{media9}{\RequirePackage{bidi-media9}}{}
25214 \@ifxfileloaded{pstricks}{\input{pstricks-xetex-bidi.def}}{}
25215 \@ifxfileloaded{pgfcorescopes.code}{\input{pgfcorescopes.code-xetex-bidi.def}}{}
25216 \@ifpackageloaded{titlesec}{\input{titlesec-xetex-bidi.def}}{}
25217 \@ifpackageloaded{titletoc}{\input{titletoc-xetex-bidi.def}}{}
25218 \@ifpackageloaded{array}{\input{array-xetex-bidi.def}}{}
25219 \@ifpackageloaded{sidecap}{\input{sidecap-xetex-bidi.def}}{}

```



```

25220 \@ifpackagewith{sidecap}{innercaption}{%
25221 \if@RTL \renewcommand*{\SC@FLOAT}[2]{%
25222 \isSC@ODD{#2}\hspace{\sidecaptionsep}{#1}} {{#1}\hspace{\sidecaptionsep}{#2}}
25223 \renewcommand*{\SC@justify@caption{%
25224 \isSC@ODD{\RaggedRight}{\RaggedLeft}}\else
25225 \renewcommand*{\SC@FLOAT}[2]{%
25226 \isSC@ODD{#1}\hspace{\sidecaptionsep}{#2}} {{#2}\hspace{\sidecaptionsep}{#1}}
25227 \renewcommand*{\SC@justify@caption{%
25228 \isSC@ODD{\RaggedLeft}{\RaggedRight}}\fi
25229 }{}
25230 \@ifpackagewith{sidecap}{rightcaption}{%
25231 \if@RTL\renewcommand*{\SC@FLOAT}[2]{{#1}\hspace{\sidecaptionsep}{#2}}
25232 \def\SC@justify@caption{\RaggedLeft}\else%
25233 \renewcommand*{\SC@FLOAT}[2]{{#2}\hspace{\sidecaptionsep}{#1}}
25234 \def\SC@justify@caption{\RaggedRight}\fi%
25235 }{}
25236 \@ifpackagewith{sidecap}{leftcaption}{%
25237 \if@RTL \renewcommand*{\SC@FLOAT}[2]{{#2}\hspace{\sidecaptionsep}{#1}}
25238 \def\SC@justify@caption{\RaggedRight}\else%
25239 \renewcommand*{\SC@FLOAT}[2]{{#1}\hspace{\sidecaptionsep}{#2}}
25240 \def\SC@justify@caption{\RaggedLeft}\fi%
25241 }{}
25242 \@ifpackageloaded{soul}{\input{soul-xetex-bidi.def}}{}
25243 \@ifpackageloaded{stabular}{\input{stabular-xetex-bidi.def}}{}
25244 \@ifpackageloaded{subfigure}{\input{subfigure-xetex-bidi.def}}{}
25245 \@ifpackageloaded{arydshln}{\input{arydshln-xetex-bidi.def}}{}
25246 \@ifpackageloaded{mdframed}{\input{mdframed-xetex-bidi.def}}{}
25247 \@ifpackageloaded{multicol}{\input{multicol-xetex-bidi.def}}{}
25248 \@ifpackageloaded{adjmulticol}{\input{adjmulticol-xetex-bidi.def}}{}
25249 \@ifpackageloaded{multienum}{\input{multienum-xetex-bidi.def}}{}
25250 \@ifpackageloaded{natbib}{\input{natbib-xetex-bidi.def}}{}
25251 \@ifpackageloaded{newfloat}{\input{newfloat-xetex-bidi.def}}{}
25252 \@ifpackageloaded{nicematrix}{\input{nicematrix-xetex-bidi.def}}{}
25253 \@ifpackageloaded{minitoc}{\input{minitoc-xetex-bidi.def}}{}
25254 \@ifpackageloaded{pgfsys}{\input{pgfsys.code-xetex-bidi.def}}{}
25255 \@ifpackageloaded{picinpar}{\input{picinpar-xetex-bidi.def}}{}
25256 \@ifpackageloaded{quotchap}{\input{quotchap-xetex-bidi.def}}{}
25257 \@ifpackageloaded{ragged2e}{\input{ragged2e-xetex-bidi.def}}{}
25258 \@ifpackageloaded{rotating}{\input{rotating-xetex-bidi.def}}{}
25259 \@ifpackageloaded{tabls}{\input{tabls-xetex-bidi.def}}{}
25260 \@ifpackageloaded{tabulary}{\input{tabulary-xetex-bidi.def}}{}
25261 \@ifpackageloaded{tcolorbox}{\input{tcolorbox-xetex-bidi.def}}{}
25262 \@ifpackageloaded{tocstyle}{\input{tocstyle-xetex-bidi.def}}{}
25263 \@ifpackageloaded{tocbibind}{\@ifclassloaded{memoir}{\input{tocbibind-xetex-bidi.def}}{}}
25264 \@ifpackageloaded{tocloft}{\@ifclassloaded{memoir}{\input{tocloft-xetex-bidi.def}}{}}
25265 \@ifdefinitionfileloaded{tc-xetex}{\input{tc-xetex-bidi.def}}{}
25266 \@ifpackageloaded{todonotes}{\input{todonotes-xetex-bidi.def}}{}
25267 \@ifpackageloaded{beamerbaseauxtemplates}{\input{beamerbaseauxtemplates-xetex-bidi.def}}{}
25268 \@ifpackageloaded{beamerbaseboxes}{\input{beamerbaseboxes-xetex-bidi.def}}{}
25269 \@ifpackageloaded{beamerbasecolor}{\input{beamerbasecolor-xetex-bidi.def}}{}
25270 \@ifpackageloaded{beamerbasecompatibility}{\input{beamerbasecompatibility-xetex-bidi.def}}{}
25271 \@ifpackageloaded{beamerbaseframecomponents}{\input{beamerbaseframecomponents-xetex-bidi.def}}{}
25272 \@ifpackageloaded{beamerbaseframesize}{\input{beamerbaseframesize-xetex-bidi.def}}{}
25273 \@ifpackageloaded{beamerbaselocalstructure}{\input{beamerbaselocalstructure-xetex-bidi.def}}{}

```



```

25274 \@ifpackageloaded{beamerbasemisc}{\input{beamerbasemisc-xetex-bidi.def}}{}
25275 \@ifpackageloaded{beamerbasenavigation}{\input{beamerbasenavigation-xetex-bidi.def}}{}
25276 \@ifpackageloaded{beamerbaseoverlay}{\input{beamerbaseoverlay-xetex-bidi.def}}{}
25277 \@ifpackageloaded{beamerinnerthemedefault}{\input{beamerinnerthemedefault-xetex-bidi.def}}{}
25278 \@ifpackageloaded{beamerinnerthemecircles}{\input{beamerinnerthemecircles-xetex-bidi.def}}{}
25279 \@ifpackageloaded{beamerinnerthemefocus}{\input{beamerinnerthemefocus-xetex-bidi.def}}{}
25280 \@ifpackageloaded{beamerinnerthemeinmargin}{\input{beamerinnerthemeinmargin-xetex-bidi.def}}{}
25281 \@ifpackageloaded{beamerinnerthememetropolis}{\input{beamerinnerthememetropolis-xetex-bidi.d
25282 \@ifpackageloaded{beamerinnerthemerectangles}{\input{beamerinnerthemerectangles-xetex-bidi.d
25283 \@ifpackageloaded{beamerinnerthemrounded}{\input{beamerinnerthemrounded-xetex-bidi.def}}{}
25284 \@ifpackageloaded{beamerouterthemedefault}{\input{beamerouterthemedefault-xetex-bidi.def}}{}
25285 \@ifpackageloaded{beamerouterthemefocus}{\input{beamerouterthemefocus-xetex-bidi.def}}{}
25286 \@ifpackageloaded{beamerouterthemeinfolines}{\input{beamerouterthemeinfolines-xetex-bidi.def
25287 \@ifpackageloaded{beamerouterthememetropolis}{\input{beamerouterthememetropolis-xetex-bidi.d
25288 \@ifpackageloaded{beamerouterthememiniframes}{\input{beamerouterthememiniframes-xetex-bidi.d
25289 \@ifpackageloaded{beamerouterthemesidebar}{\input{beamerouterthemesidebar-xetex-bidi.def}}{}
25290 \@ifpackageloaded{beamerouterthemesplit}{\input{beamerouterthemesplit-xetex-bidi.def}}{}
25291 \@ifpackageloaded{beamerouterthemeshadow}{\input{beamerouterthemeshadow-xetex-bidi.def}}{}
25292 \@ifpackageloaded{beamerouterthesmoothbars}{\input{beamerouterthesmoothbars-xetex-bidi.d
25293 \@ifpackageloaded{beamerouterthesmoothtree}{\input{beamerouterthesmoothtree-xetex-bidi.d
25294 \@ifpackageloaded{beamerouterthemetree}{\input{beamerouterthemetree-xetex-bidi.def}}{}
25295 \@ifpackageloaded{beamerthemeHannover}{\input{beamerthemeHannover-xetex-bidi.def}}{}
25296 \@ifpackageloaded{beamerthemeSingapore}{\input{beamerthemeSingapore-xetex-bidi.def}}{}

```

## 163 File xltextra-xetex-bidi.def

```

25297 \ProvidesFile{xltextra-xetex-bidi.def}[2010/07/25 v0.1 bidi adaptations for xltextra package f
25298 \let\@XeTeX\XeTeX
25299 \def\XeTeX{\@ensure@LTR{\@XeTeX}}
25300 \let\@XeLaTeX\XeLaTeX
25301 \def\XeLaTeX{\@ensure@LTR{\@XeLaTeX}}

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