



# The bidi Package

Source documentation for version 36.5

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/tex-persian/bidi/issues>

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

You may also have conversations, ask questions and post answers without opening issues using the Discussions space:

<https://github.com/tex-persian/bidi/discussions>

The announcements for the new releases of the package will also appear in the Discussions space under the Announcements category.

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# The *bidi* Package

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

Source documentation for [version 36.5](#)

Vafa Khalighi\*  
[tex-persian@vafa.ac](mailto:tex-persian@vafa.ac)

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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\csname r@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     \@makefntext{%
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 \ifRTL\ifLTR\bibitems\@RTLfalse\else\fi\else\ifRTL\bibitems\@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 \ifRTL\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   \uppercasenonmath\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 \@makefntext{%
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 \@makefnfntext{%
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@L@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 \@makefnfntext{%
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 $\if@RTLtab\endR\fi\egroup}
383 \expandafter\let\csname endtabular*\endcsname=\endtabular
384 \def\@array[#1]#2{%
385 \@tempdima \ht \strutbox
386 \advance \@tempdima by\extrarowheight
387 \setbox \@arstrutbox \hbox{\vrule
388 \@height \arraystretch \@tempdima
389 \@depth \arraystretch \dp \strutbox
390 \@width \z@}%
391 \beginR
392 \mkpream{#2}%
393 \xdef\@preamble{\noexpand \ialign \@halignto
394 \bgroup \@arstrut \@preamble
395 \tabskip \z@ \cr}%
396 \endgroup
397 \@arrayleft
398 \if #1t\vtop \else \if#1b\vbox \else \vcenter \fi \fi
399 \bgroup
400 \let \@sharp ##\let \protect \relax
401 \lineskip \z@
402 \baselineskip \z@
403 \m@th
404 \let\\\@arraycr \let\tabularnewline\\\let\par\@empty \if@RTLtab\hbox\bgroup\beginR\@hboxR
405 \def\@tabarray{\@ifnextchar{\@array}{\@array[c]}}
406 \def\endarray{\crrc \egroup\if@RTLtab\egroup\endR\egroup\fi \egroup \@arrayright \gdef\@pream
407 \def\array{\col@sep\arraycolsep
408 \def\d@llarbegin{$}\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{\@xmakefntext{%
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=\@ne
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\@makefntext##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{tabular}
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     \begingroup
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 bidi.sty

```

1501 \NeedsTeXFormat{LaTeX2e}
1502 \def\bididate{2022/02/04}
1503 \def\bidi@version{36.5}
1504 \ProvidesPackage{bidi}[\bididate\space v\bidi@version\space
1505 Bidirectional typesetting in plain TeX and LaTeX]
1506 \edef\@bidi@info{*****~J%
1507 * ~J%
1508 * bidi package (Bidirectional typesetting in~J%
1509 * plain TeX and LaTeX, using XeTeX engine)~J%
1510 * ~J%
1511 * Description: A convenient interface for~J%
1512 * typesetting bidirectional texts in plain TeX~J%
1513 * and LaTeX. The package includes adaptations~J%
1514 * for use with many other commonly-used packages.~J%
1515 * ~J%
1516 * Copyright (c) 2007--2022 Vafa Khalighi~J%
1517 * Copyright (c) 2018--2020 bidi-tex GitHub organization~J%
1518 * ~J%
1519 * v\bidi@version, \bididate~J%
1520 * ~J%
1521 * License: LaTeX Project Public License, version~J%
1522 * 1.3c or higher (your choice)~J%
1523 * ~J%
1524 * Location on CTAN: /macros/xetex/latex/bidi~J%
1525 * ~J%
1526 * Issue tracker: https://github.com/tex-persian/bidi/issues~J%

```



```

1527 * ^^J%
1528 * Discussions: https://github.com/tex-persian/bidi/discussions^^J%
1529 * ^^J%
1530 * Support Email: tex-persian@vafa.ac.ir^^J%
1531 * ^^J%
1532 * Primary author of bidi package: Vafa Khalighi.^^J%
1533 * ^^J%
1534 *****}
1535 \typeout{\@bidi@info}
1536 \edef\bidi@everyjob{\the\everyjob}
1537 \everyjob{\bidi@everyjob\typeout{\@bidi@info}}
1538 \newcommand*{\bidi@version}{\ensuremath\bidi@version}
1539 \newcommand*{\IfbidiPackageVersionLater}[1]{%
1540   \ifdim\bidi@version pt > #1 pt %
1541     \expandafter\@firstoftwo
1542   \else
1543     \expandafter\@secondoftwo
1544   \fi}
1545 \newcommand*{\IfbidiPackageVersionBefore}[1]{%
1546   \ifdim\bidi@version pt < #1 pt %
1547     \expandafter\@firstoftwo
1548   \else
1549     \expandafter\@secondoftwo
1550   \fi}
1551 \newcommand*{\IfbidiPackageVersion}[1]{%
1552   \ifdim\bidi@version pt = #1 pt %
1553     \expandafter\@firstoftwo
1554   \else
1555     \expandafter\@secondoftwo
1556   \fi}
1557 \RequirePackage{iftex}
1558 \RequireXeTeX
1559 \RequirePackage{biditools}
1560 \RequirePackage{zref-abspage}
1561 \RequirePackage{auxhook}
1562 \RequirePackage{ltxcmds}
1563 \RequirePackage{xkeyval}
1564 \eqnewif{\if@RTLmain}{\if@rlmain}
1565 \eqnewif{\if@RTL}{\if@rl}
1566 \newif\if@nonlatin
1567 \newif\if@bidi@perpage@footnote
1568 \newcommand*{\setlatin}{\@nonlatinfalse}
1569 \newcommand*{\setnonlatin}{\@nonlatintrue}
1570 \eqnewif{\if@RTLtab}{\if@tab@rl}
1571 \newif\if@hboxRconstruct
1572 \newif\if@bidi@pdfencrypt
1573 \newcommand*{\setRTLtable}{\@RTLtabtrue}
1574 \newcommand*{\setLTRtable}{\@RTLtabfalse}
1575 \newif\if@bidi@pdfmark
1576 \newif\if@RTLmarginpar
1577 \newif\if@LTRmarginpar
1578 \newif\if@LTRbibitems
1579 \newif\if@RTLbibitems
1580 \newif\if@extrafootnotefeatures

```



```

1581 \newif\if@RTLcolumnfootnotes
1582 \eqnewif{\if@RTL@footnote}{\if@rl@footnote}
1583 \newif\if@bidi@list@minipage@parbox
1584 \newif\if@bidi@list@minipage@parbox@not@nob
1585 \newcommand*{\@bidi@pdfcreator}{%
1586   The bidi package, v\bidi@version, \bididate
1587 }
1588 \newcommand*{\@bidi@pdfproducer}{%
1589   The bidi package, v\bidi@version, \bididate
1590 }
1591 \newcommand*{\@bidi@pdfcustomproperties}{%
1592   This is the bidi package, Version \bidi@version,
1593   Released February 27, 2022.
1594 }
1595 \RTLmainfalse
1596 \AtBeginDocument{%
1597   \if@RTLmain\else
1598     \if@RTL\@RTLmaintrue%
1599     \else\@RTLmainfalse%
1600     \fi%
1601   \fi%
1602 }
1603 \let\n@xt=\
1604 \bidi@newrobustcmd*{\LRE}{\protect\pLRE}%
1605 \def\pLRE{\protect\afterassignment\moreLRE \let\n@xt= }
1606 \bidi@newrobustcmd*{\RLE}{\protect\pRLE}
1607 \def\pRLE{\protect\afterassignment\moreRLE \let\n@xt= }
1608 \def\bracetext{\ifcat\n@xt{\else\ifcat\n@xt}\fi
1609   \errmessage{Missing left brace has been substituted}\fi \bgroup}
1610 \newinsert\@bidi@copyins@
1611 \skip\@bidi@copyins@=12\p@
1612 \dimen\@bidi@copyins@=40pc
1613 \count\@bidi@copyins@=1000
1614 \newcommand*{\@bidi@inslogo@}{\insert\@bidi@copyins@{\@bidi@logo@}}
1615 \newcommand*{\@bidi@logo@hb@xt@columnwidth}{%
1616   \if@RTLmain
1617     \if@twocolumn
1618       \hboxR to \columnwidth
1619     \else
1620       \hboxR to \textwidth
1621     \fi
1622   \else
1623     \if@twocolumn
1624       \hboxL to \columnwidth
1625     \else
1626       \hboxL to \textwidth
1627     \fi
1628   \fi
1629 }
1630 \newcommand*{\@bidi@logo}[1]{%
1631   \toks@{%
1632     \setbox\z@\hbox{%
1633       \special{%
1634         pdf:image width 50pt height 50pt (#1)%

```



```

1635     }
1636   }%
1637   \dp\z@\z@
1638   \ht\z@=50pt
1639   \wd\z@=50pt
1640   \beginL
1641     \lower20pt\box\z@
1642   \endL
1643 }%
1644 \the\toks@
1645 }
1646 \newcommand*{\@bidi@logo@}{%
1647   \@bidi@logo@hb@xt@columnwidth
1648   {\hss\LRE{\bfseries Typeset by the \textsf{bidi}
1649     package\quad\@bidi@logo{bidi-logo.pdf}}}}
1650 \define@key{bidi@pdfencrypt}{userpassword}[]{%
1651   \def\bidi@pdfencrypt@userpassword{#1}%
1652 }
1653 \define@key{bidi@pdfencrypt}{ownerpassword}[]{%
1654   \def\bidi@pdfencrypt@ownerpassword{#1}%
1655 }
1656 \define@key{bidi@pdfencrypt}{keylength}[128]{%
1657   \def\bidi@pdfencrypt@keylength{#1}%
1658 }
1659 \define@key{bidi@pdfencrypt}{permissionflags}[2052]{%
1660   \def\bidi@pdfencrypt@permissionflags{#1}%
1661 }
1662 \newcommand*{\pdfencryptsetup}{\setkeys{bidi@pdfencrypt}}
1663 \@onlypreamble\pdfencryptsetup
1664 \input{latex-xetex-bidi.def}
1665 \input{loadingorder-xetex-bidi.def}
1666 \define@choicekey{bidi.sty}{RTLdocument}[\bidi@tempa\bidi@tempb]{on,off}[on]{%
1667   \ifcase\bidi@tempb\relax
1668     \@RTLtrue
1669   \or
1670     \@RTLfalse
1671   \fi}
1672 \define@choicekey{bidi.sty}{documentdirection}[\bidi@tempa\bidi@tempb]{righttoleft,lefttoright}
1673 \ifcase\bidi@tempb\relax
1674   \@RTLtrue
1675 \or
1676   \@RTLfalse
1677 \fi}
1678 \define@choicekey{bidi.sty}{tabledirection}[\bidi@tempa\bidi@tempb]{righttoleft,lefttoright}
1679 \ifcase\bidi@tempb\relax
1680   \@RTLtabtrue
1681 \or
1682   \@RTLtabfalse
1683 \fi}
1684 \define@choicekey{bidi.sty}{script}[\bidi@tempa\bidi@tempb]{latin,nonlatin}[latin]{%
1685   \ifcase\bidi@tempb\relax
1686     \@nonlatinfalse
1687   \or
1688     \@nonlatintrue

```



```

1689 \fi}
1690 \define@choicekey{bidi.sty}{rldocument}[\bidi@tempa\bidi@tempb]{on,off}[on]{%
1691 \ifcase\bidi@tempb\relax
1692 \RTLtrue
1693 \or
1694 \RTLfalse
1695 \fi}
1696 \define@choicekey{bidi.sty}{footnoterule}[\bidi@tempa\bidi@tempb]{automatic,left,right,split}
1697 \ifcase\bidi@tempb\relax
1698 \autofootnoterule
1699 \or
1700 \leftfootnoterule
1701 \or
1702 \rightfootnoterule
1703 \or
1704 \SplitFootnoteRule
1705 \or
1706 \textwidthfootnoterule
1707 \fi}
1708 \define@choicekey{bidi.sty}{footnotedirection}[\bidi@tempa\bidi@tempb]{righttoleft,lefttoright}
1709 \ifcase\bidi@tempb\relax
1710 \RTL@footnotetrue
1711 \or
1712 \RTL@footnotefalse
1713 \fi}
1714 \define@choicekey{bidi.sty}{debugfootnotedirection}[\bidi@tempa\bidi@tempb]{on,off}[on]{%
1715 \ifcase\bidi@tempb\relax
1716 \footdir@debugtrue
1717 \or
1718 \footdir@debugfalse
1719 \fi}
1720 \define@choicekey{bidi.sty}{extrafootnotefeatures}[\bidi@tempa\bidi@tempb]{on,off}[on]{%
1721 \ifcase\bidi@tempb\relax
1722 \@extrafootnotefeaturestrue
1723 \or
1724 \@extrafootnotefeaturesfalse
1725 \fi}
1726
1727 \define@choicekey{bidi.sty}{DetectColumn}[\bidi@tempa\bidi@tempb]{on,off}[on]{%
1728 \ifcase\bidi@tempb\relax
1729 \def\bidi@firstcolumn@status@write{%
1730 \protected@write\@auxout{%
1731 \string\bidi@column@status
1732 {1}}}%
1733 \def\bidi@lastcolumn@status@write{%
1734 \protected@write\@auxout{%
1735 \string\bidi@column@status{2}}}%
1736 \or
1737 \let\bidi@firstcolumn@status@write\relax
1738 \let\bidi@lastcolumn@status@write\relax
1739 \fi}
1740
1741 \define@choicekey{bidi.sty}{logo}[\bidi@tempa\bidi@tempb]{on,off}[on]{%
1742 \ifcase\bidi@tempb\relax

```



```

1743 \AtBeginDocument{\@bidi@inslogo}%
1744 \or
1745 \let\@bidi@logo@\@empty \let\@bidi@inslogo@\@empty
1746 \fi}
1747
1748 \define@choicekey{bidi.sty}{pdfinfo}[\bidi@tempa\bidi@tempb]{on,off}[on]{%
1749 \ifcase\bidi@tempb\relax
1750 \bidi@pdfm@marktrue
1751 \or
1752 \bidi@pdfm@markfalse
1753 \fi}
1754
1755 % The `perpagefootnote' option is documented in UK TeX FAQ at
1756 % <https://texfaq.org/FAQ-footnpp> (see last paragraph)
1757
1758 \define@choicekey{bidi.sty}{perpagefootnote}[\bidi@tempa\bidi@tempb]{on,off}[on]{%
1759 \ifcase\bidi@tempb\relax
1760 \bidi@perpage@footnotetrue
1761 \or
1762 \bidi@perpage@footnotefalse
1763 \fi}
1764
1765 \ExecuteOptionsX{%
1766 DetectColumn=off%
1767 }
1768
1769 \ProcessOptionsX
1770
1771 \pdfencryptsetup{%
1772 userpassword,%
1773 ownerpassword,%
1774 keylength,%
1775 permissionflags%
1776 }
1777
1778 \if@extrafootnotefeatures
1779 \input{extrafootnotefeatures-xetex-bidi.def}
1780 \fi
1781 \newcount\bidi@digits
1782 \XeTeXinterchartokenstate=\@ne
1783 \newXeTeXintercharclass\bidi@digits@charclass
1784 \newXeTeXintercharclass\bidi@sepmark@charclass
1785 \XeTeXcharclass \. \bidi@sepmark@charclass
1786 \XeTeXcharclass \- \bidi@sepmark@charclass
1787 \bidi@digits=\0 \loop \XeTeXcharclass \bidi@digits \bidi@digits@charclass \ifnum\bidi@digit
1788 \bidi@digits=\ \loop \XeTeXcharclass \bidi@digits \bidi@digits@charclass \ifnum\bidi@digit
1789 \bidi@digits=\ \loop \XeTeXcharclass \bidi@digits \bidi@digits@charclass \ifnum\bidi@digit
1790 \XeTeXinterchartoks \bidi@sepmark@charclass \bidi@digits@charclass = {\DigitsDotDashInterCh
1791 \newcommand*{\DigitsDotDashInterCharToks}{\if@nonlatin\char"200F \fi}
1792 \bidi@AtEndPreamble{%
1793 \if@bidi@perpage@footnote
1794 \RequirePackage{bidi-perpage}%
1795 \ResetCounterPerPage{footnote}%
1796 \fi

```



```

1797 \ifx\bidipdfencrypt@ownerpassword\bidipdfempty
1798 \ifx\bidipdfencrypt@userpassword\bidipdfempty
1799 \@bidipdfencryptfalse
1800 \else
1801 \@bidipdfencrypttrue
1802 \fi
1803 \else
1804 \@bidipdfencrypttrue
1805 \fi
1806 \if@bidipdfencrypt
1807 \special{pdf:encrypt
1808 userpw (\bidipdfencrypt@userpassword)
1809 ownerpw (\bidipdfencrypt@ownerpassword)
1810 length \bidipdfencrypt@keylength
1811 perm \bidipdfencrypt@permissionflags
1812 }%
1813 \fi
1814 }
1815 \AtEndDocument{%
1816 \special{pdf:
1817 docinfo<<%
1818 \if@bidipdfmark
1819 /Creator(\@bidipdfcreator)%
1820 /Producer(\@bidipdfproducer)%
1821 \fi
1822 /BIDI.Fullbanner(\@bidipdfcustomproperties)%
1823 \if@bidicsdef{xepersian@pdfcustomproperties}{%
1824 /XEPERSIAN.Fullbanner(\@xepersian@pdfcustomproperties)%
1825 }{}%
1826 >>%
1827 }%
1828 }

```

## 15 File bidi.tex

```

1829 \def\bididate{2022/02/04}
1830 \catcode`@=11
1831 \def\bidiversion{36.5}
1832 \let \protect \relax
1833 \newlinechar`^^J
1834 \edef\@bidi@info{*****^^J%
1835 * ^^J%
1836 * bidi package (Bidirectional typesetting in^^J%
1837 * plain TeX and LaTeX, using XeTeX engine)^^J%
1838 * ^^J%
1839 * Description: A convenient interface for^^J%
1840 * typesetting bidirectional texts in plain TeX^^J%
1841 * and LaTeX. The package includes adaptations^^J%
1842 * for use with many other commonly-used packages.^^J%
1843 * ^^J%
1844 * Copyright (c) 2007--2022 Vafa Khalighi^^J%
1845 * Copyright (c) 2018--2020 bidi-tex GitHub organization^^J%
1846 * ^^J%
1847 * v\bidiversion, \bididate^^J%

```



```

1848 * ^^J%
1849 * License: LaTeX Project Public License, version^^J%
1850 * 1.3c or higher (your choice)^^J%
1851 * ^^J%
1852 * Location on CTAN: /macros/xetex/latex/bidi^^J%
1853 * ^^J%
1854 * Issue tracker: https://github.com/tex-persian/bidi/issues^^J%
1855 * ^^J%
1856 * Discussions: https://github.com/tex-persian/bidi/discussions^^J%
1857 * ^^J%
1858 * Support Email: tex-persian@vafa.ac^^J%
1859 * ^^J%
1860 * Primary author of bidi package: Vafa Khalighi.^^J%
1861 * ^^J%
1862 *****}
1863 \message{\@bidi@info}
1864 \edef\bidi@everyjob{\the\everyjob}
1865 \everyjob{\bidi@everyjob\message{\@bidi@info}}
1866 \def\bdiversion{%
1867   \relax
1868   \ifmmode
1869     \bidi@version
1870   \else
1871     $\bidi@version$
1872   \fi
1873 }
1874 \input iftex.sty
1875 \RequireXeTeX
1876 \newif\if@bidi@pdfm@mark
1877 \newif\if@RTLmain
1878 \newif\if@RTL
1879 \newif\if@hboxRconstruct
1880 \newif\if@sentedir
1881 \newif\if@RTL@footnote
1882 \@RTLmainfalse
1883 \def\setRTLmain{%
1884   \if@RTLmain\else
1885     \if@RTL\@RTLmaintrue%
1886     \else\@RTLmainfalse%
1887   \fi%
1888   \fi%
1889 }
1890 \let\n@xt=\
1891 \protected\def\LRE{\protect\pLRE}%
1892 \def\pLRE{\protect\afterassignment\moreLRE \let\n@xt= }
1893 \protected\def\RLE{\protect\pRLE}
1894 \def\pRLE{\protect\afterassignment\moreRLE \let\n@xt= }
1895 \def\bracetext{\ifcat\n@xt{\else\ifcat\n@xt}\fi
1896   \errmessage{Missing left brace has been substituted}\fi \bgroup}
1897 \newinsert\@bidi@copyins@
1898 \skip\@bidi@copyins@=12\p@
1899 \dimen\@bidi@copyins@=40pc
1900 \count\@bidi@copyins@=1000
1901 \def\@bidi@inslogo{\insert\@bidi@copyins@\@bidi@logo}}

```





```

1902 \def\@bidi@logo@hb@xt@{%
1903   \if@RTLmain
1904     \hboxR to
1905   \else
1906     \hboxL to
1907   \fi
1908 }
1909 \def\@bidi@logo#1{%
1910   \toks@{%
1911     \setbox\z@\hbox{%
1912       \special{%
1913         pdf:image width 50pt height 50pt (#1)%
1914       }
1915     }%
1916     \dp\z@\z@
1917     \ht\z@=50pt
1918     \wd\z@=50pt
1919     \beginL
1920     \lower20pt\box\z@
1921     \endL
1922   }%
1923   \the\toks@
1924 }
1925 \def\@bidi@logo@{\@bidi@logo@hb@xt@\hsize{\hss\LRE{\bf Typeset by the bidi package\quad\@bidi@logo}}
1926 \def\nobidilogo{\let\@bidi@logo@\@empty \let\@bidi@inslogo@\@empty}
1927 \def\@bidi@pdfcreator{%
1928   The bidi package, v\@bidi@version, \@bididate
1929 }
1930 \def\@bidi@pdfproducer{%
1931   The bidi package, v\@bidi@version, \@bididate
1932 }
1933 \def\@bidi@pdfcustomproperties{%
1934   This is the bidi package, Version \@bidi@version,
1935   Released February 27, 2022.
1936 }
1937 \def\bidi@pdfm@mark{%
1938   \special{pdf:%
1939     docinfo<<%
1940     \if\bidi@pdfm@mark
1941       /Creator(\@bidi@pdfcreator)%
1942       /Producer(\@bidi@pdfproducer)%
1943     \fi
1944     /BIDI.Fullbanner(\@bidi@pdfcustomproperties)%
1945     >>%
1946   }%
1947 }
1948 \def\bidipdfinfoon{\@bidi@pdfm@marktrue}
1949 \def\bidipdfinfooff{\@bidi@pdfm@markfalse}
1950 \input plain-xetex-bidi.def
1951 \@bidi@inslogo@
1952 \outer\def\bye{\par\vfill\supereject\bidi@pdfm@mark\end}
1953 \catcode`\@=12
1954 \bidipdfinfoon

```



## 16 File bidi2in1.sty

```
1955 \NeedsTeXFormat{LaTeX2e}
1956 \ProvidesPackage{bidi2in1}
1957 \pagestyle{plain}
1958 \newcount\evenpage
1959 \newcount\oddpager
1960 \twocolumn
1961 \def\@oddfoot{\evenpage=\thepage%
1962 \multiply\evenpage by 2%
1963 \oddpager=\the\evenpage%
1964 \advance\oddpager by -1%
1965 \hfil\the\evenpage\hfil\hfil\the\oddpager\hfil}%
1966 \def\@evenfoot{\evenpage=\thepage%
1967 \multiply\evenpage by 2%
1968 \oddpager=\the\evenpage%
1969 \advance\oddpager by -1%
1970 \hfil\the\oddpager\hfil\hfil\the\evenpage\hfil}%
1971 \textwidth 9.49in
1972 \textheight 6.7in
1973 \columnsep 0.9in
1974 \columnseprule 0.125pt
1975 \headheight 0cm
1976 \topmargin 0in
1977 \marginparwidth 0in
1978 \marginparsep 0in
1979 \hoffset 0.05in % Corrected
1980 \voffset -0.5in %top margin space is 1.0in by default
1981 \oddsidemargin 0in
1982 \evensidemargin 0in
1983 \headsep 0cm
1984 \topskip 0cm
1985 \parskip 0.15in %
1986 \headsep 0pt
1987 \special{papersize=11.69in,8.26in}
1988 \renewcommand\maketitle{\par
1989 \begingroup
1990 \renewcommand\thefootnote{\@fnsymbol\c@footnote}%
1991 \def\@makefnmark{\rlap{\@textsuperscript{\normalfont\@thefnmark}}}%
1992 \long\def\@makefntext##1{\parindent 1em\noindent
1993 \hb@xt@1.8em{%
1994 \hss\@textsuperscript{\normalfont\@thefnmark}}\##1}%
1995 \@maketitle
1996 \@thanks
1997 \endgroup
1998 \setcounter{footnote}{0}%
1999 \global\let\thanks\relax
2000 \global\let\maketitle\relax
2001 \global\let\@maketitle\relax
2002 \global\let\@thanks\@empty
2003 \global\let\@author\@empty
2004 \global\let\@date\@empty
2005 \global\let\@title\@empty
2006 \global\let\title\relax
```



```

2007 \global\let\author\relax
2008 \global\let\date\relax
2009 \global\let\and\relax
2010 }

```

## 17 File bidicode.sty

```

2011 \NeedsTeXFormat{LaTeX2e}
2012 \ProvidesPackage{bidicode}
2013 \RequirePackage{xcolor}
2014 \RequirePackage{showexpl}
2015 \definecolor{hellgelb}{rgb}{1,1,0.85}
2016 \definecolor{colKeys}{rgb}{0,0,1}
2017 \definecolor{colIdentifier}{rgb}{0,0,0}
2018 \definecolor{colComments}{rgb}{1,0,0}
2019 \definecolor{colString}{rgb}{0,0.5,0}
2020 \lstset{
2021     language=[LaTeX]TEX,
2022     float=hbp,
2023     basicstyle=\ttfamily\small,
2024     identifierstyle=\color{colIdentifier},
2025     keywordstyle=\color{colKeys},
2026     stringstyle=\color{colString},
2027     commentstyle=\color{colComments},
2028     backgroundcolor=\color{hellgelb},
2029     columns=flexible,
2030     tabsize=4,
2031     extendedchars=true,
2032     showspaces=false,
2033     showstringspaces=false,
2034     numbers=left,
2035     numbersep=0.9em,
2036     numberstyle=\tiny, %
2037     frame=single,
2038     captionpos=b,
2039     xleftmargin=1em,
2040     breaklines=true,
2041     breakautoindent=false,
2042     breakindent=0pt,
2043     escapeinside=**,
2044     pos=r,
2045     explpreset={%
2046     xleftmargin=1em,columns=flexible,language=[LaTeX]TEX},
2047     morekeywords={setLTR,setLR,setRTL,setRL,LRE,LR,RLE,RL,lr,bidiversion,bididate}
2048 }
2049 \newcommand\HLON{%
2050     \gdef\lst@alloverstyle##1{%
2051         \fboxrule=0pt
2052         \fboxsep=0pt
2053         \fcolorbox{hellgelb}{hellgelb}{\bfseries\strut##1}%
2054     }}
2055 \newcommand\HLOFF{%
2056     \xdef\lst@alloverstyle##1{##1}%
2057 }

```



```

2058 \newcommand\Larg [1]{\normalfont\itshape#1\/\}}
2059 \newcommand\Larga[1]{\langle$\Larg{#1}$\rangle$}
2060 \newcommand\Largb[1]{\lcb\Larg{#1}\rcb}
2061 \newcommand\Largs[1]{\lsb\Larg{#1}\rsb}
2062 \newcommand\Largr[1]{\lrb\Larg{#1}\rrb}
2063 \newcommand\LBEG[1]{\normalfont\ttfamily\bs{}begin\lcb#1\rcb}}
2064 \newcommand\LEND[1]{\normalfont\ttfamily\bs{}end\lcb#1\rcb}}
2065
2066 \DeclareRobustCommand\bs{\normalfont\ttfamily\symbol{92}}
2067 \DeclareRobustCommand\lcb{\normalfont\ttfamily\char`\{}}
2068 \DeclareRobustCommand\rcb{\normalfont\ttfamily\char`\}}
2069 \DeclareRobustCommand\lsb{\normalfont\ttfamily\{}}
2070 \DeclareRobustCommand\rsb{\normalfont\ttfamily\}}
2071 \DeclareRobustCommand\lrb{\normalfont\ttfamily\{}}
2072 \DeclareRobustCommand\rrb{\normalfont\ttfamily\}}
2073
2074 \def\Lcs#1{\nxLcs{#1}}
2075 \def\LcsStar#1{\nxLcs{#1}\OptArg*{}}
2076 \def\nxLcs#1{\texttt{\symbol{92}#1}}
2077
2078 \def\Coordx#1{$x_{#1}$}
2079 \def\Coordy#1{$y_{#1}$}
2080 \def\Coordz#1{$z_{#1}$}
2081 \def\Coord#1{\Coordx{#1},\kern 1pt\Coordy{#1}}
2082 \def\Coordn{\Coordx{n},\kern 1pt\Coordy{n}}
2083 \def\CoordIII#1{\Coordx{#1},\kern 1pt\Coordy{#1},\kern 1pt\Coordz{#1}}
2084 \def\CAny{\Coordx{},\kern 1pt\Coordy{}}
2085 \def\CIIIIAny{\Coordx{},\kern 1pt\Coordy{},\kern 1pt\Coordz{}}
2086 \def\coord#1{(\Coordx{#1},\kern 1pt\Coordy{#1})}
2087 \def\coordn{(\Coordx{n},\kern 1pt\Coordy{n})}
2088 \def\coordiii#1{(\Coordx{#1},\kern 1pt\Coordy{#1},\kern 1pt\Coordz{#1})}
2089 \def\coordx#1{($x_{#1}$)}
2090 \def\coordy#1{($y_{#1}$)}
2091 \def\coordz#1{($z_{#1}$)}
2092 \def\cAny{(\Coordx{},\kern 1pt\Coordy{}}
2093 \def\ciiiiAny{(\Coordx{},\kern 1pt\Coordy{},\kern 1pt\Coordz{}}
2094
2095 \newsavebox{\boxdef}
2096 \newenvironment{BDef}
2097   {\begin{lrbox}\boxdef
2098     \def\arraystretch{1.0}
2099     \begin{tabular}{@{}l@{}l@{}l@{}}
2100   }
2101   {\end{tabular}\end{lrbox}}
2102
2103   {\BCmd\fbbox{\usebox\boxdef}\endBCmd}
2104   \aftergroup\@afterindentfalse\aftergroup\@afterheading
2105   }
2106
2107 \newenvironment{BDef*}
2108   {\begin{lrbox}\boxdef
2109     \def\arraystretch{1.0}
2110     \begin{tabular}{@{}l@{}l@{}l@{}}
2111   }

```



```

2112 {\end{tabular}}\end{lrbox}
2113 {\begin{BCmd*}}\fbox{\usebox\boxdef}\end{BCmd*}}
2114 \aftergroup\@afterindentfalse\aftergroup\@afterheading
2115 }
2116 \newenvironment{BCmd}{
2117 \@beginparpenalty-\@lowpenalty
2118 \topsep\BDefaboveskip
2119 \fboxsep3pt
2120 \flushleft}
2121 {\@endparpenalty\@M
2122 \topsepadd\BDefbelowskip
2123 \endflushleft}
2124
2125 \newenvironment{BCmd*}{
2126 \@beginparpenalty\@M
2127 \topsep\BDefinlineskip
2128 \fboxsep3pt
2129 \flushleft}
2130 {\@endparpenalty5000
2131 \endflushleft}
2132
2133 \newskip\BDefaboveskip
2134 \newskip\BDefbelowskip
2135 \newskip\BDefinlineskip
2136 \setlength\BDefaboveskip{10pt plus 4pt}
2137 \setlength\BDefbelowskip{6pt}
2138 \setlength\BDefinlineskip{6pt}
2139
2140 \def\OptArgs{\colorbox{black!20}{\texttt{[Options]}}}\kern1pt}
2141 \def\OptArg{\@ifnextchar*\OptArg@i{\OptArg@ii*}}
2142 \def\OptArg@i*#1{\colorbox{black!20}{\texttt{#1}}}\kern1pt}
2143 \def\OptArg@ii*#1{\colorbox{black!20}{\texttt{[#1]}}}\kern1pt}

```

## 18 File bidiftnxtra.sty

```

2144 \NeedsTeXFormat{LaTeX2e}
2145 \ProvidesPackage{bidiftnxtra}
2146 \newtoks\bidip@ftn
2147 \let\FN@sffootnote\footnote
2148 \let\FN@sffootnote\LTRfootnote
2149 \let\FN@sffootnote\RTLfootnote
2150 \def\footnote{\ifx\protect\@typeset@protect
2151 \expandafter\FN@sffootnote
2152 \else
2153 \expandafter\FN@sfgobble@opt
2154 \fi
2155 }
2156 \def\LTRfootnote{\ifx\protect\@typeset@protect
2157 \expandafter\FN@sffootnote
2158 \else
2159 \expandafter\FN@sfgobble@opt
2160 \fi
2161 }
2162 \def\RTLfootnote{\ifx\protect\@typeset@protect

```



```

2163 \expandafter\FN@sff@RTLfootnote
2164 \else
2165 \expandafter\FN@sff@gobble@opt
2166 \fi
2167 }
2168 \edef\FN@sff@gobble@opt{\noexpand\protect
2169 \expandafter\noexpand\csname FN@sff@gobble@opt \endcsname}
2170 \expandafter\def\csname FN@sff@gobble@opt \endcsname{%
2171 \ifnextchar[%]
2172 \FN@sff@gobble@twobrace
2173 \@gobble
2174 }
2175 \def\FN@sff@gobble@twobrace[#1]#2{%
2176 \let\FN@sff@footnotemark\footnotemark
2177 \def\footnotemark{\ifx\protect\@typeset@protect
2178 \expandafter\FN@sff@footnotemark
2179 \else
2180 \expandafter\FN@sff@gobble@optonly
2181 \fi
2182 }
2183 \edef\FN@sff@gobble@optonly{\noexpand\protect
2184 \expandafter\noexpand\csname FN@sff@gobble@optonly \endcsname}
2185 \expandafter\def\csname FN@sff@gobble@optonly \endcsname{%
2186 \ifnextchar[%]
2187 \FN@sff@gobble@brace
2188 }%
2189 }
2190 \def\FN@sff@gobble@brace[#1]{%
2191 \def\@tabular{%
2192 \leavevmode \hbox \bgroup
2193 \let\@footnotetext\@bidi@p@ftntext
2194 \let\@LTRfootnotetext\@bidi@p@LTRftntext
2195 \let\@RTLfootnotetext\@bidi@p@RTLftntext
2196 \let\@xfootnotenext\@bidi@p@xftntext
2197 \let\@xfootnote\@bidi@p@xfootnote
2198 \let\@xLTRfootnotenext\@bidi@p@xLTRftntext
2199 \let\@xLTRfootnote\@bidi@p@xLTRfootnote
2200 \let\@xRTLfootnotenext\@bidi@p@xRTLftntext
2201 \let\@xRTLfootnote\@bidi@p@xRTLfootnote
2202 \if@RTLtab\beginR \fi
2203 $\let\@acol\@tabacol
2204 \let\@classz\@tabclassz
2205 \let\@classiv\@tabclassiv \let\\\@tabularcr\@tabarray}
2206 \def\endtabular{\crr\egroup\if@RTLtab\egroup\endR\egroup\fi
2207 \egroup $\if@RTLtab\endR\fi\egroup
2208 \ifx\@captive\@undefined
2209 \global\@bidi@p@ftn\expandafter{\expandafter}\the\@bidi@p@ftn\fi}
2210 \long\def\@bidi@p@ftntext#1{%
2211 \edef\@tempy{\the\@bidi@p@ftn\noexpand\footnotetext[\the\csname c@\@mpfn\endcsname]}}%
2212 \global\@bidi@p@ftn\expandafter{\@tempy{#1}}}%
2213 \long\def\@bidi@p@LTRftntext#1{%
2214 \edef\@tempyi{\the\@bidi@p@ftn\noexpand\LTRfootnotetext[\the\csname c@\@mpfn\endcsname]}}%
2215 \global\@bidi@p@ftn\expandafter{\@tempyi{#1}}}%
2216 \long\def\@bidi@p@RTLftntext#1{%

```



```

2217 \edef\@tempyii{\the\bidip@ftn\noexpand\RTLfootnotetext[\the\csname c@\mpfn\endcsname]}}%
2218 \global\bidip@ftn\expandafter{\@tempyii{#1}}}%
2219
2220
2221 \long\def\bidip@xftntext[#1]#2{%
2222 \global\bidip@ftn\expandafter{\the\bidip@ftn\footnotetext[#1]{#2}}}
2223
2224 \long\def\bidip@xLTRftntext[#1]#2{%
2225 \global\bidip@ftn\expandafter{\the\bidip@ftn\LTRfootnotetext[#1]{#2}}}
2226
2227 \long\def\bidip@xRTLftntext[#1]#2{%
2228 \global\bidip@ftn\expandafter{\the\bidip@ftn\RTLfootnotetext[#1]{#2}}}
2229
2230
2231 \def\bidip@xfootnote[#1]{%
2232 \begingroup
2233 \csname c@\mpfn\endcsname #1\relax
2234 \unrestored@protected@xdef\@thefnmark{\thempfn}%
2235 \endgroup
2236 \@footnotemark\bidip@xftntext[#1]}
2237
2238
2239 \def\bidip@xLTRfootnote[#1]{%
2240 \begingroup
2241 \csname c@\mpfn\endcsname #1\relax
2242 \unrestored@protected@xdef\@thefnmark{\thempfn}%
2243 \endgroup
2244 \@footnotemark\bidip@xLTRftntext[#1]}
2245
2246
2247 \def\bidip@xRTLfootnote[#1]{%
2248 \begingroup
2249 \csname c@\mpfn\endcsname #1\relax
2250 \unrestored@protected@xdef\@thefnmark{\thempfn}%
2251 \endgroup
2252 \@footnotemark\bidip@xRTLftntext[#1]}
2253
2254 \def\@xfloat #1[#2]{%
2255 \@nodocument
2256 \def \@cuptype {#1}%
2257 \def \@fps {#2}%
2258 \@onelevel@sanitize \@fps
2259 \def \reserved@b {!}%
2260 \ifx \reserved@b \@fps
2261 \@fpsadddefault
2262 \else
2263 \ifx \@fps \@empty
2264 \@fpsadddefault
2265 \fi
2266 \fi
2267 \ifhmode
2268 \@bsphack
2269 \@floatpenalty -\@Mii
2270 \else

```



```

2271 \floatpenalty-\@Miii
2272 \fi
2273 \ifinner
2274 \@parmoderr\floatpenalty\z@
2275 \else
2276 \@next\@currbox\@freelist
2277 {%
2278 \@tempcnta \sixt@@n
2279 \expandafter \@tfor \expandafter \reserved@a
2280 \expandafter :\expandafter =\@fps
2281 \do
2282 {%
2283 \if \reserved@a h%
2284 \ifodd \@tempcnta
2285 \else
2286 \advance \@tempcnta \@ne
2287 \fi
2288 \fi
2289 \if \reserved@a t%
2290 \setfpsbit \tw@
2291 \fi
2292 \if \reserved@a b%
2293 \setfpsbit 4%
2294 \fi
2295 \if \reserved@a p%
2296 \setfpsbit 8%
2297 \fi
2298 \if \reserved@a !%
2299 \ifnum \@tempcnta>15
2300 \advance\@tempcnta -\sixt@@n\relax
2301 \fi
2302 \fi
2303 }%
2304 \@tempcntb \csname ftype@\@capytype \endcsname
2305 \multiply \@tempcntb \xxxii
2306 \advance \@tempcnta \@tempcntb
2307 \global \count\@currbox \@tempcnta
2308 }%
2309 \@fltovf
2310 \fi
2311 \global \setbox\@currbox
2312 \color@vbox
2313 \normalcolor
2314 \vbox \bgroup
2315 \let\@footnotetext\@bidi@p@ftntext
2316 \let\@LTRfootnotetext\@bidi@p@LTRftntext
2317 \let\@RTLfootnotetext\@bidi@p@RTLftntext
2318 \let\@xfootnotenext\@bidi@p@xftntext
2319 \let\@xfootnote\@bidi@p@xfootnote
2320 \let\@xLTRfootnotenext\@bidi@p@xLTRftntext
2321 \let\@xLTRfootnote\@bidi@p@xLTRfootnote
2322 \let\@xRTLfootnotenext\@bidi@p@xRTLftntext
2323 \let\@xRTLfootnote\@bidi@p@xRTLfootnote
2324 \hsize\columnwidth

```





```

2325         \@parboxrestore
2326         \@floatboxreset
2327 }
2328 \def \@endfloatbox{%
2329     \par\vskip\z@skip      %% \par\vskip\z@ added 15 Dec 87
2330     \@minipagefalse
2331     \outer@nobreak
2332     \egroup                %% end of vbox
2333     \global\@bidi@p@ftn\expandafter{\expandafter}\the\@bidi@p@ftn
2334     \color@endbox
2335 }

```

## 19 File `bidimoderncv.cls`

```

2336 \NeedsTeXFormat{LaTeX2e}
2337 \ProvidesClass{bidimoderncv}
2338 \newif\if@DEBUG\@DEBUGfalse
2339 \DeclareOption{a4paper}{
2340     \setlength\paperheight{297mm}
2341     \setlength\paperwidth{210mm}}
2342 \DeclareOption{a5paper}{
2343     \setlength\paperheight{210mm}
2344     \setlength\paperwidth{148mm}}
2345 \DeclareOption{b5paper}{
2346     \setlength\paperheight{250mm}
2347     \setlength\paperwidth{176mm}}
2348 \DeclareOption{letterpaper}{
2349     \setlength\paperheight{11in}
2350     \setlength\paperwidth{8.5in}}
2351 \DeclareOption{legalpaper}{
2352     \setlength\paperheight{14in}
2353     \setlength\paperwidth{8.5in}}
2354 \DeclareOption{executivepaper}{
2355     \setlength\paperheight{10.5in}
2356     \setlength\paperwidth{7.25in}}
2357 \DeclareOption{landscape}{
2358     \setlength\@tempdima{\paperheight}
2359     \setlength\paperheight{\paperwidth}
2360     \setlength\paperwidth{\@tempdima}}
2361 \newcommand\@ptsize{}
2362 \DeclareOption{10pt}{\renewcommand\@ptsize{0}}
2363 \DeclareOption{11pt}{\renewcommand\@ptsize{1}}
2364 \DeclareOption{12pt}{\renewcommand\@ptsize{2}}
2365 \DeclareOption{draft}{\setlength\overfullrule{5pt}}
2366 \DeclareOption{final}{\setlength\overfullrule{0pt}}
2367 \newif\if@colour\@colourtrue
2368 \DeclareOption{nocolour}{\@colourfalse}
2369 \ExecuteOptions{a4paper,11pt,colour,final}
2370 \ProcessOptions\relax
2371 \input{size1\@ptsize.clo}
2372 \RequirePackage{color}
2373 \RequirePackage{graphicx}
2374 \RequirePackage{ifthen}
2375 \RequirePackage{marvosym}

```



```

2376 \addtolength{\oddsidemargin}{-54pt}
2377 \addtolength{\textwidth}{109pt}
2378 \addtolength{\topmargin}{-70pt}
2379 \addtolength{\textheight}{122pt}
2380 \addtolength{\marginparsep}{-5pt}
2381 \addtolength{\marginparwidth}{-10pt}
2382 \RequirePackage{url}
2383 \RequirePackage{hyperref}
2384 \hypersetup{%
2385     breaklinks,
2386     baseurl      = http://,%
2387     pdfborder    = 0 0 0,%
2388     pdfpagemode  = UseNone,%
2389     pdfstartpage = 1}
2390 \AtEndOfClass{%
2391     \AtBeginDocument{%
2392         \hypersetup{%
2393             pdfauthor      = \@firstname~\@familyname,%
2394             pdftitle       = \@title,%
2395             pdfsubject     = \@firstname~\@familyname,%
2396             pdfkeywords    = \@resumename~\@firstname~\@familyname}}}
2397 \urlstyle{tt}
2398 \RequirePackage{fancyhdr}
2399 \fancypagestyle{plain}{%
2400     \renewcommand{\headrulewidth}{0pt}
2401     \renewcommand{\footrulewidth}{0pt}
2402     \fancyhf{}}
2403 \pagestyle{plain}
2404 \setlength\lineskip{1\p@}
2405 \setlength\normallineskip{1\p@}
2406 \renewcommand\baselinestretch{}
2407 \setlength{\parindent}{0pt}
2408 \setlength{\parskip}{0pt}
2409 \setlength\columnsep{10\p@}
2410 \setlength\columnseprule{0\p@}
2411 \pagestyle{empty}
2412 \pagenumbering{arabic}
2413 \raggedbottom
2414 \onecolumn
2415 \providecommand*\listitemsymbol{\textbullet}
2416 \providecommand*\addresssymbol{}
2417 \providecommand*\mobilesymbol{\Mobilefone}
2418 \providecommand*\phonesymbol{\Telefon}
2419 \providecommand*\faxsymbol{\FAX}
2420 \providecommand*\emailsymbol{\Letter}
2421 \definecolor{firstnamecolour}{rgb}{0,0,0}
2422 \def\firstnamecolour#1{\gdef\@firstnamecolour{\addfontfeature{Color=#1}}}
2423 \def\familynamecolour#1{\gdef\@familynamecolour{\addfontfeature{Color=#1}}}
2424 \def\titlecolour#1{\gdef\@titlecolour{\addfontfeature{Color=#1}}}
2425 \def\addresscolour#1{\gdef\@addresscolour{\addfontfeature{Color=#1}}}
2426 \def\quotecolour#1{\gdef\@quotecolour{\addfontfeature{Color=#1}}}
2427 \def\sectiontitlecolour#1{\gdef\@sectiontitlecolour{\addfontfeature{Color=#1}}}
2428 \definecolor{sectionrectanglecolor}{rgb}{0,0,0}
2429 \def\subsectioncolour#1{\gdef\@subsectioncolour{\addfontfeature{Color=#1}}}

```



```

2430 \def\hintcolour#1{\gdef\@hintcolour{\addfontfeature{Color=#1}}}
2431 \providecommand*\{firstnamefont}\{}
2432 \providecommand*\{familynamefont}\{}
2433 \providecommand*\{titlefont}\{}
2434 \providecommand*\{addressfont}\{}
2435 \providecommand*\{quote\font}\{}
2436 \providecommand*\{sectionfont}\{}
2437 \providecommand*\{subsectionfont}\{}
2438 \providecommand*\{hintfont}\small}
2439 \providecommand*\{firstnamestyle}[1]{\{firstnamefont\@firstnamecolour#1}}
2440 \providecommand*\{familynamestyle}[1]{\{familynamefont\@familynamecolour#1}}
2441 \providecommand*\{titlestyle}[1]{\{titlefont\@titlecolour#1}}
2442 \providecommand*\{addresstyle}[1]{\{addressfont\@addresscolour#1}}
2443 \providecommand*\{quotestyle}[1]{\{quote\font\@quotecolour#1}}
2444 \providecommand*\{sectionstyle}[1]{\{sectionfont\@sectiontitlecolour#1}}
2445 \providecommand*\{subsectionstyle}[1]{\{subsectionfont\@subsectioncolour#1}}
2446 \providecommand*\{hintstyle}[1]{\{hintfont\@hintcolour#1}}
2447 \newcommand*\{cvtheme}[2][{}{
2448   \def\@cvtheme{#2}
2449   \def\@cvthemeoptions{#1}}
2450 \cvtheme{bidi-casual}
2451 \AtBeginDocument{\RequirePackage[\@cvthemeoptions]{cvtheme\@cvtheme}}
2452 \newcommand*\{resumename}[1]{\def\@resumename{#1}}
2453 \newcommand*\{firstname}[1]{\def\@firstname{#1}}
2454 \newcommand*\{familyname}[1]{\def\@familyname{#1}}
2455 \renewcommand*\{title}[1]{\def\@title{#1}}
2456 \newcommand*\{address}[1]{\def\@address{#1}}
2457 \newcommand*\{mobile}[1]{\def\@mobile{#1}}
2458 \newcommand*\{phone}[1]{\def\@phone{#1}}
2459 \renewcommand*\{fax}[1]{\def\@fax{#1}}
2460 \newcommand*\{email}[1]{\def\@email{#1}}
2461 \newcommand*\{extrainfo}[1]{\def\@extrainfo{#1}}
2462 \def\@photowidth{0pt}
2463 \newcommand*\{photo}[2][64pt]{\def\@photowidth{#1}\def\@photo{#2}}
2464 \newcommand*\{quote}[1]{\def\@quote{#1}}
2465 \newlength{\quotewidth}
2466 \newlength{\hintscolumnwidth}
2467 \newlength{\separatorcolumnwidth}
2468 \setlength{\separatorcolumnwidth}{0.025\textwidth}
2469 \newlength{\maincolumnwidth}
2470 \newlength{\doubleitemmaincolumnwidth}
2471 \newlength{\listitemsymbolwidth}
2472 \settowidth{\listitemsymbolwidth}{\listitemsymbol{}}
2473 \newlength{\listitemmaincolumnwidth}
2474 \newlength{\listdoubleitemmaincolumnwidth}
2475 \newcommand*\{recomputethemelengths}\{}
2476 \newcommand*\{recomputelengths}\{%
2477   \setlength{\quotewidth}{0.65\textwidth}%
2478   \setlength{\maincolumnwidth}{\textwidth}%
2479   \addtolength{\maincolumnwidth}{-\separatorcolumnwidth}%
2480   \addtolength{\maincolumnwidth}{-\hintscolumnwidth}%
2481   \setlength{\listitemmaincolumnwidth}{\maincolumnwidth}%
2482   \addtolength{\listitemmaincolumnwidth}{-\listitemsymbolwidth}%
2483   \setlength{\doubleitemmaincolumnwidth}{\maincolumnwidth}%

```



```

2484 \addtolength{\doubleitemmaincolumnwidth}{-\hintscolumnwidth}%
2485 \addtolength{\doubleitemmaincolumnwidth}{-\separatorcolumnwidth}%
2486 \setlength{\doubleitemmaincolumnwidth}{0.5\doubleitemmaincolumnwidth}%
2487 \setlength{\listdoubleitemmaincolumnwidth}{\maincolumnwidth}%
2488 \addtolength{\listdoubleitemmaincolumnwidth}{-\listitemsymbolwidth}%
2489 \setlength{\listdoubleitemmaincolumnwidth}{0.475\listdoubleitemmaincolumnwidth}%
2490 \renewcommand{\headwidth}{\textwidth}%
2491 \recomputethemelengths}
2492 \setlength{\hintscolumnwidth}{0.15\textwidth}
2493 \recomputelengths
2494 \title{}
2495 \renewcommand*{\maketitle}{}
2496 \newcommand*{\section}[1]{%
2497 \vspace*{2.5ex \@plus 1ex \@minus .2ex}%
2498 \phantomsection}%
2499 \addcontentsline{toc}{part}{#1}%
2500 \parbox[m]{\hintscolumnwidth}{\bidi@raggedleft\hintfont{\leavevmode\color{sectionrectangle}
2501 \hspace{\separatorcolumnwidth}%
2502 \parbox[m]{\maincolumnwidth}{\sectionstyle{#1}}\ll[1ex]}
2503 \newcommand*{\subsection}[1]{%
2504 \cvline[0.45em]{\subsectionstyle{#1}}%
2505 \newcommand*{\cvline}[3][.25em]{%
2506 \begin{tabular}{@{}p{\hintscolumnwidth}@{\hspace{\separatorcolumnwidth}}p{\maincolumnwidth}
2507 \bidi@raggedleft\hintfont{#2} &{#3}%
2508 \end{tabular}\ll[#1]}
2509 \newcommand*{\cvdoubleitem}[4]{%
2510 \cvline{#1}{\begin{minipage}[t]{\doubleitemmaincolumnwidth}#2\end{minipage}}%
2511 \hfill%
2512 \begin{minipage}[t]{\hintscolumnwidth}\bidi@raggedleft\hintfont{#3}\end{minipage}\hspace*{
2513 \newcommand*{\cvlistitem}[2][\listitemsymbol]{%
2514 \cvline[0pt]{\begin{minipage}[t]{\listitemmaincolumnwidth}#2\end{minipage}}%
2515 \newcommand*{\cvlistdoubleitem}[3][\listitemsymbol]{%
2516 \cvline[0pt]{\begin{minipage}[t]{\listdoubleitemmaincolumnwidth}#2\end{minipage}}%
2517 \hfill%
2518 \ifthenelse{\equal{#3}{}}%
2519 {}%
2520 {#1~\begin{minipage}[t]{\listdoubleitemmaincolumnwidth}#3\end{minipage}}}%
2521 \newcommand*{\cventry}[6]{%
2522 \cvline{#1}{%
2523 {\bfseries#2}%
2524 \ifx#3\else{, {\slshape#3}}\fi%
2525 \ifx#4\else{, #4}\fi%
2526 \ifx#5\else{, #5}\fi%
2527 .%
2528 \ifx#6\else{\newline{}\begin{minipage}[t]{\linewidth}\small#6\end{minipage}}\fi
2529 }%
2530 \newcommand*{\cvlanguage}[3]{%
2531 \cvline{#1}{\begin{minipage}[t]{.225\maincolumnwidth}\textbf{#2}\end{minipage}\hfill\begin
2532 \newcommand*{\cvcomputer}[4]{%
2533 \cvdoubleitem{#1}{\small#2}{#3}{\small#4}}
2534 \newcommand*{\link}[2][{}]{%
2535 \ifthenelse{\equal{#1}{}}%
2536 {\href{#2}{#2}}%
2537 {\href{#2}{#1}}}

```



```

2538 \newcommand*{\httplink}[2] [] {%
2539   \ifthenelse{\equal{#1}{}}{%
2540     {\href{http://#2}{#2}}%
2541     {\href{http://#2}{#1}}}
2542 \newcommand*{\emailink}[2] [] {%
2543   \ifthenelse{\equal{#1}{}}{%
2544     {\href{mailto:#2}{#2}}%
2545     {\href{mailto:#2}{#1}}}
2546 \newif\if@displaypagenumbers\@displaypagenumberstrue
2547 \newcommand*{\nopagenumbers}{\@displaypagenumbersfalse}
2548 \AtBeginDocument{%
2549   \if@displaypagenumbers%
2550     \ifundefined{r@lastpage}{}%
2551     \ifthenelse{\pageref{lastpage} > 1}{%
2552       \fancypagestyle{plain}{%
2553         \fancyfoot[r]{\beginL\addressfont\@quotecolour\footnotesize\thepage\beginL/\endL\pag
2554         \pagestyle{plain}}}%
2555     \AtEndDocument{\label{lastpage}}%
2556   \fi}
2557 \newlength{\bibindent}
2558 \setlength{\bibindent}{1.5em}
2559 \newcommand*{\bibliographyitemlabel}{\includegraphics{bidi-bibitem.pdf}}
2560 \newenvironment{thebibliography}[1]%
2561   {%
2562     \section{\refname}%
2563     \small%
2564     \if@RTL\if@LTRbibitems\@RTLfalse\else\fi\else\if@RTLbibitems\@RTLtrue\else\fi\fi
2565     \bidi@thebibliography@font@hook%
2566     \begin{list}{\bibliographyitemlabel}%
2567       {%
2568         \setlength{\topsep}{0pt}%
2569         \setlength{\labelwidth}{\hintscolumnwidth}%
2570         \setlength{\labelsep}{\separatorcolumnwidth}%
2571         \leftmargin\labelwidth%
2572         \advance\leftmargin\labelsep%
2573         \@openbib@code%
2574         \usecounter{enumiv}%
2575         \let\p@enumiv\@empty%
2576         \renewcommand\theenumiv{\@arabic\c@enumiv}}%
2577       \sloppy\clubpenalty4000\widowpenalty4000%
2578     }%
2579   {%
2580     \def\@noitemerr{\@latex@warning{Empty `thebibliography' environment}}%
2581     \end{list}%
2582   }
2583 \newcommand\newblock{\hskip .11em\@plus.33em\@minus.07em}
2584 \let\@openbib@code\@empty

```

## 20 File bidi-perpage.sty

```

2585 \NeedsTeXFormat{LaTeX2e}
2586 \ProvidesPackage{bidi-perpage}[2018/10/04 v0.4 Reset counter(s) on every page]
2587 \newcount\bidi@page@count
2588 \bidi@page@count\@ne

```



```

2589 \newcommand*{\ResetCounterPerPage}[2][\z@]{%
2590   \if@bidi@csundef{bidi@stepcounterhook@@#2}{%
2591     \expandafter\gdef\csname bidi@stepcounterhook@@#2\endcsname{%
2592       }{}%
2593   \if@bidi@csundef{if@bidi@reset@#2@rerun}{%
2594     \expandafter\newif\csname if@bidi@reset@#2@rerun\endcsname
2595   }{}%
2596   \if@bidi@csundef{bidi@#2@count}{%
2597     \expandafter\newcount\csname bidi@#2@count\endcsname
2598   }{}%
2599   \csname bidi@#2@count\endcsname\z@
2600   \if@bidi@csundef{bidi@previous@page@@#2@count}{%
2601     \expandafter\newcount\csname
2602       bidi@previous@page@@#2@count\endcsname
2603   }{}%
2604   \csname bidi@previous@page@@#2@count\endcsname\z@
2605   \if@bidi@csundef{bidi@reset@#2@perpage}{%
2606     \bidi@AfterEndDocumentCheckLabelsRerun{%
2607       \csname if@bidi@reset@#2@rerun\endcsname
2608       \PackageWarningNoLine{bidi-perpage}{%
2609         Counter `#2' may not have been reset per page.
2610         Rerun to reset counter `#2' per page%
2611       }%
2612     \fi
2613   }%
2614 }{}%
2615 \expandafter\gdef\csname bidi@reset@#2@perpage\endcsname{%
2616   \global\advance\csname bidi@#2@count\endcsname\@ne
2617   \if@filesw
2618     \edef\@tempa{%
2619       \write\@auxout{%
2620         \string\bidi@counter@page{#2}%
2621         {\number\csname bidi@#2@count\endcsname}%
2622         {\noexpand\number\noexpand\bidi@page@count}%
2623       }%
2624     }%
2625     \@tempa
2626   \fi
2627 \begingroup\expandafter\expandafter\expandafter\endgroup
2628 \expandafter\ifx\csname bidi@#2@@\number\csname
2629   bidi@#2@count\endcsname\endcsname\relax
2630   \global\csname @bidi@reset@#2@reruntrue\endcsname
2631 \else
2632   \global\csname @bidi@reset@#2@rerunfalse\endcsname
2633   \expandafter\@tempcnta\csname bidi@#2@@\number
2634     \csname bidi@#2@count\endcsname\endcsname\relax
2635   \ifnum\@tempcnta=\csname
2636     bidi@previous@page@@#2@count\endcsname
2637   \else
2638     \global\csname
2639       bidi@previous@page@@#2@count\endcsname\@tempcnta
2640     \global\csname c@#2\endcsname#1\relax
2641   \fi
2642 \fi

```



```

2643 }%
2644 \expandafter\bidigappto\csname
2645 bidi@stepcounterhook@@#2\endcsname{%
2646   \csname bidi@reset@#2@perpage\endcsname
2647 }%
2648 }
2649 \def\bidicounter@page#1#2#3{\bidinamegdef{bidi@#1@@#2}{#3}}
2650 \bidi@AtEndOutputPage{%
2651   \global\advance\bidipage@count\@ne
2652 }

```

## 21 File biditools.sty

```

2653 \NeedsTeXFormat{LaTeX2e}
2654 \ProvidesPackage{biditools}[2022/02/01 v2.1 Programming tools for bidi package]
2655 \providecommand{\@bidi@saveprimitive}[2]{\begingroup\escapechar`\relax
2656   \edef\@tempa{\string#1}\edef\@tempb{\meaning#1}%
2657   \ifx\@tempa\@tempb \global\let#2#1%
2658   \else
2659     \edef\@tempb{\meaning#2}%
2660     \ifx\@tempa\@tempb
2661     \else
2662       \@latex@error{Unable to properly define \string#2; primitive
2663       \noexpand#1no longer primitive}\@eha
2664     \fi
2665   \fi
2666   \endgroup}
2667 \newtoks\@bidi@envbody
2668 \newtoks\@bidi@emptytoks
2669 \def\bidicaddto@envbody#1{\global\@bidi@envbody\expandafter{\the\@bidi@envbody#1}}
2670 \def\bidicollect@body#1{%
2671   \@bidi@envbody{\expandafter#1\expandafter{\the\@bidi@envbody}}%
2672   \edef\bidiprocess@envbody{\the\@bidi@envbody\noexpand\end{\@currenvir}}%
2673   \@bidi@envbody\@bidi@emptytoks \def\begin@bidi@stack{b}%
2674   \begingroup
2675   \expandafter\let\csname\@currenvir\endcsname\bidicollect@@body
2676   \edef\bidiprocess@envbody{\expandafter\noexpand\csname\@currenvir\endcsname}%
2677   \bidiprocess@envbody
2678 }
2679 \def\bidipush@begins#1\begin#2{%
2680   \ifx\end#2\else b\expandafter\bidipush@begins\fi
2681 }
2682 \def\bidicollect@@body#1\end#2{%
2683   \edef\begin@bidi@stack{\bidipush@begins#1\begin\end \expandafter\@gobble\begin@bidi@stack
2684   \ifx\@empty\begin@bidi@stack
2685     \endgroup
2686     \@checkend{#2}%
2687     \bidicaddto@envbody{#1}%
2688   \else
2689     \bidicaddto@envbody{#1\end{#2}}%
2690   \fi
2691   \bidiprocess@envbody % A little tricky! Note the grouping
2692 }
2693 \long\def\bidicaddto@long@envbody#1{\global\@bidi@envbody\expandafter{\the\@bidi@envbody#1}}

```



```

2694 \long\def\bidicollect@long@body#1{%
2695   \@bidi@envbody{\expandafter#1\expandafter{\the\@bidi@envbody}}%
2696   \edef\bidiprocess@envbody{\the\@bidi@envbody\noexpand\end{\@currenvir}}%
2697   \@bidi@envbody\@bidi@emptytoks \def\begin@bidi@stack{b}%
2698   \begingroup
2699   \expandafter\let\csname\@currenvir\endcsname\bidicollect@long@@body
2700   \edef\bidiprocess@envbody{\expandafter\noexpand\csname\@currenvir\endcsname}%
2701   \bidiprocess@envbody
2702 }
2703 \long\def\bidipush@long@begins#1\begin#2{%
2704   \ifx\end#2\else b\expandafter\bidipush@long@begins\fi
2705 }
2706 \long\def\bidicollect@long@@body#1\end#2{%
2707   \edef\begin@bidi@stack{\bidipush@long@begins#1\begin\end \expandafter\@gobble\begin@bidi@stack}
2708   \ifx\@empty\begin@bidi@stack
2709     \endgroup
2710     \@checkend{#2}%
2711     \bidi@addto@long@envbody{#1}%
2712   \else
2713     \bidi@addto@long@envbody{#1\end{#2}}%
2714   \fi
2715   \bidiprocess@envbody % A little tricky! Note the grouping
2716 }
2717 \long\def\bidinew@ifnextchar#1#2#3{%
2718   \let\reserved@d= #1%
2719   \def\reserved@a{#2}\def\reserved@b{#3}%
2720   \futurelet\@let@token\bidinew@ifnch
2721 }
2722 \def\bidinew@ifnch{%
2723   \ifx\@let@token\reserved@d \let\reserved@b\reserved@a \fi
2724   \reserved@b
2725 }
2726 \def\bidimatrix@check#1{%
2727   \expandafter\ifx\csname\@currenvir\endcsname#1%
2728   \else\bidimatrix@error#1%
2729   \expandafter\@gobble
2730   \fi
2731 }
2732 \def\bidimatrix@error#1{%
2733   \PackageError{biditools}{%
2734     Old form '\string#1' should be \string\begin{\expandafter\@gobble\string#1}%
2735   }{%
2736     '\string#1{...}' is old bidi package syntax whose use is
2737     ill-advised in the old versions of bidi package.%
2738   }%
2739 }
2740 \def\@tagsextension{clo}
2741 \def\@definitionfileextension{def}
2742 \def\@texfileextension{tex}
2743 \def\@iftagsloaded{\@ifl@aded\@tagsextension}
2744 \def\@ifdefinitionfileloaded{\@ifl@aded\@definitionfileextension}
2745 \def\@iftexfileloaded{\@ifl@aded\@texfileextension}
2746 \def\eqnewif#1#2{%
2747   \count@\escapechar \escapechar\m@ne

```





```

2748 \let#1\iffalse
2749 \let#2\iffalse
2750 \eq@if#1#2\iftrue
2751 \eq@if#1#2\iffalse
2752 \escapechar\count@}
2753 \def\eq@if#1#2#3{%
2754 \expandafter\def\csname\expandafter@gobbletwo\string#1%
2755 \expandafter@gobbletwo\string#3\endcsname
2756 {\let#1#3%
2757 \let#2#3}%
2758 \expandafter\def\csname\expandafter@gobbletwo\string#2%
2759 \expandafter@gobbletwo\string#3\endcsname
2760 {\let#2#3%
2761 \let#1#3}}
2762 \newcommand*\SetBoolean}[2]{%
2763 \lowercase{\def\@tempa{#2}}%
2764 \@ifundefined{@tempwa\@tempa}%
2765 {\PackageError{biditools}%
2766 {You can only set a boolean to `true' or `false'}\@ehc}%
2767 {\@ifundefined{#1\@tempa}%
2768 {\PackageError{biditools}{Boolean #1 undefined}\@ehc}%
2769 {\csname#1\@tempa\endcsname}}}
2770 \newcommand*\GlobalSetBoolean}[2]{%
2771 \lowercase{\def\@tempa{#2}}%
2772 \@ifundefined{@tempwa\@tempa}%
2773 {\PackageError{biditools}%
2774 {You can only set a boolean to `true' or `false'}\@ehc}%
2775 {\@ifundefined{#1\@tempa}%
2776 {\PackageError{biditools}{Boolean #1 undefined}\@ehc}%
2777 {\global\csname#1\@tempa\endcsname}}}
2778 \newcommand*\SetatBoolean}[2]{%
2779 \lowercase{\def\@tempa{#2}}%
2780 \@ifundefined{@tempwa\@tempa}%
2781 {\PackageError{biditools}%
2782 {You can only set a boolean to `true' or `false'}\@ehc}%
2783 {\@ifundefined{@#1\@tempa}%
2784 {\PackageError{biditools}{Boolean @#1 undefined}\@ehc}%
2785 {\csname @#1\@tempa\endcsname}}}
2786 \newcommand*\GlobalSetatBoolean}[2]{%
2787 \lowercase{\def\@tempa{#2}}%
2788 \@ifundefined{@tempwa\@tempa}%
2789 {\PackageError{biditools}%
2790 {You can only set a boolean to `true' or `false'}\@ehc}%
2791 {\@ifundefined{@#1\@tempa}%
2792 {\PackageError{biditools}{Boolean @#1 undefined}\@ehc}%
2793 {\global\csname @#1\@tempa\endcsname}}}
2794 \def\@bidi@removefromreset#1#2{%
2795 \expandafter\let\csname c@#1\endcsname\@bidi@removefromreset
2796 \def\@elt##1{%
2797 \expandafter\ifx\csname c@##1\endcsname\@bidi@removefromreset
2798 \else
2799 \noexpand\@elt{##1}%
2800 \fi}%
2801 \expandafter\xdef\csname cl@#2\endcsname{%

```



```

2802 \csname cl@#2\endcsname}}
2803 \newcommand*{\ifRtoL}{%
2804 \if@RTL
2805 \expandafter\@firstoftwo
2806 \else
2807 \expandafter\@secondoftwo
2808 \fi}
2809 \newcommand*{\ifLtoR}{%
2810 \if@RTL
2811 \expandafter\@secondoftwo
2812 \else
2813 \expandafter\@firstoftwo
2814 \fi}
2815 \newcommand*{\ifRtoLtable}{%
2816 \if@RTLtab
2817 \expandafter\@firstoftwo
2818 \else
2819 \expandafter\@secondoftwo
2820 \fi}
2821 \newcommand*{\ifLtoRtable}{%
2822 \if@RTLtab
2823 \expandafter\@secondoftwo
2824 \else
2825 \expandafter\@firstoftwo
2826 \fi}
2827 \newcommand*{\ifRtoLhboxconstruct}{%
2828 \if@hboxRconstruct
2829 \expandafter\@firstoftwo
2830 \else
2831 \expandafter\@secondoftwo
2832 \fi}
2833 \newcommand*{\ifLtoRhboxconstruct}{%
2834 \if@hboxRconstruct
2835 \expandafter\@secondoftwo
2836 \else
2837 \expandafter\@firstoftwo
2838 \fi}
2839 \newcommand*{\iflatin}{%
2840 \if@nonlatin
2841 \expandafter\@secondoftwo
2842 \else
2843 \expandafter\@firstoftwo
2844 \fi}
2845 \newcommand*{\ifnonlatin}{%
2846 \if@nonlatin
2847 \expandafter\@firstoftwo
2848 \else
2849 \expandafter\@secondoftwo
2850 \fi}
2851
2852 \newcommand*{\bidi@convert@dimen@t@unit}[2]{%
2853 \strip@pt\dimexpr #1*65536/\dimexpr 1#2\relax #2}
2854
2855 \newcommand*{\bidi@convert@dimen@t@pt}[1]{%

```



```

2856 \dimexpr #1*65536/\dimexpr 1pt\relax}
2857
2858 \newcommand*{\if@bidi@csdef}[1]{%
2859 \ifcsname#1\endcsname
2860 \expandafter\@firstoftwo
2861 \else
2862 \expandafter\@secondoftwo
2863 \fi}
2864 \newcommand*{\if@bidi@csundef}[1]{%
2865 \ifcsname#1\endcsname
2866 \expandafter\ifx\csname#1\endcsname\relax
2867 \expandafter\expandafter
2868 \expandafter\@firstoftwo
2869 \else
2870 \expandafter\expandafter
2871 \expandafter\@secondoftwo
2872 \fi
2873 \else
2874 \expandafter\@firstoftwo
2875 \fi}
2876 \newcommand{\if@bidi@def}[1]{%
2877 \ifdefined#1%
2878 \expandafter\@firstoftwo
2879 \else
2880 \expandafter\@secondoftwo
2881 \fi}
2882 \newcommand{\if@bidi@undef}[1]{%
2883 \ifdefined#1%
2884 \ifx#1\relax
2885 \expandafter\expandafter
2886 \expandafter\@firstoftwo
2887 \else
2888 \expandafter\expandafter
2889 \expandafter\@secondoftwo
2890 \fi
2891 \else
2892 \expandafter\@firstoftwo
2893 \fi}
2894 \newcommand{\if@bidi@blank}[1]{% from url.sty
2895 \bidi@ifblank@i#1&&\@secondoftwo\@firstoftwo:}
2896 \long\def\bidi@ifblank@i#1#2&#3#4#5:{#4}
2897 \newcommand{\bidi@notblank}[1]{%
2898 \bidi@ifblank@i#1&&\@firstoftwo\@secondoftwo:}
2899 \newcommand{\if@bidi@defmacro}{%
2900 \long\edef\if@bidi@defmacro#1{%
2901 \noexpand\expandafter\noexpand\bidi@ifdefmacro
2902 \noexpand\meaning#1\detokenize{macro}:&}
2903 \edef\bidi@ifdefmacro{%
2904 \def\noexpand\bidi@ifdefmacro##1\detokenize{macro}:##2&
2905 \bidi@ifdefmacro{\bidi@notblank{#2}}
2906 \newcommand*{\if@bidi@csmacro}[1]{%
2907 \if@bidi@csdef{#1}
2908 {\expandafter\if@bidi@defmacro\csname#1\endcsname}
2909 {\@secondoftwo}}

```



```

2910 \newcommand{\if@bidi@defprimitive}[1]{%
2911   \ifprimitive#1%
2912     \expandafter\@firstoftwo
2913   \else
2914     \expandafter\@secondoftwo
2915   \fi}
2916 \newcommand{\if@bidi@csprimitive}[1]{%
2917   \begingroup\expandafter\expandafter\expandafter\endgroup%
2918   \expandafter\ifprimitive\csname#1\endcsname%
2919     \expandafter\@firstoftwo
2920   \else
2921     \expandafter\@secondoftwo
2922   \fi}
2923 \newcommand*{\bidi@csdefcs}[2]{%
2924   \expandafter\@ifdefinable \csname#1\endcsname{%
2925     \expandafter\def\csname#1\expandafter\endcsname{\csname#2\endcsname}}%
2926   \newcommand*{\bidi@csletcs}[2]{%
2927     \expandafter\@ifdefinable \csname#1\endcsname{%
2928       \expandafter\let\csname#1\expandafter\endcsname\csname#2\endcsname}%
2929     \newcommand*{\bidi@cslet}[2]{%
2930       \expandafter\@ifdefinable \csname#1\endcsname{%
2931         \expandafter\let\csname#1\endcsname#2}%
2932       \newcommand{\bidi@namelongdef}[1]{%
2933         \long\expandafter\def\csname #1\endcsname%
2934         \def\bidi@ensure@newcommand{\@star@or@long\bidi@ensure@new@command}%
2935         \def\bidi@ensure@new@command#1{%
2936           \begingroup \escapechar\m@ne\xdef\@tempa{\string#1}\endgroup
2937           \expandafter\if@bidi@csundef\@tempa
2938             {\new@command#1}{\relax%
2939             \let\@ifdefinable\@rc@ifdefinable%
2940             \new@command#1}}
2941         \def\bidi@ensure@newlength#1{\if@bidi@undef#1{\newskip#1}{}}
2942       }
2943     \protected\def\bidi@error{\PackageError{bidi}}
2944     \protected\def\bidi@warning{\PackageWarning{bidi}}
2945     \protected\def\bidi@info{\PackageInfo{bidi}}
2946   }
2947   \def\bidi@pos#1#2#3#4{\bidi@namegdef\bidi@#1pos@#2@#3}{#4}}
2948
2949 \newcount\bidi@poscount
2950
2951 \newcommand*{\WriteStartXPostoaux}{%
2952   \global\advance\bidi@poscount\@ne
2953   \edef\@tempa{%
2954     \write\@auxout{%
2955       \string\bidi@pos{x}{start}{\number\bidi@poscount}{\noexpand\number\noexpand\pdflastx
2956       }%
2957     }%
2958   \ifvmode
2959     \leavevmode
2960   \fi
2961   \if@RTL
2962     \if@filesw
2963     \@tempa

```



```

2964 \fi
2965 \pdfsavepos
2966 \else
2967 \pdfsavepos
2968 \if@filesw
2969 \@tempa
2970 \fi
2971 \fi
2972 \if@bidi@csundef{bidi@xpos@@start@\number\bidi@poscount}{%
2973 \PackageWarningNoLine{biditools}{%
2974 The start x position `\'number\bidi@poscount' is not known yet.
2975 Rerun to get this x position%
2976 }%
2977 }{}%
2978 }
2979
2980 \newcommand*{\WriteEndXPostoaux}{%
2981 \edef\@tempa{%
2982 \write\@auxout{%
2983 \string\bidi@pos{x}{end}{\'number\bidi@poscount}{\'noexpand\'number\'noexpand\'pdflastx
2984 }%
2985 }%
2986 \if@RTL
2987 \if@filesw
2988 \@tempa
2989 \fi
2990 \pdfsavepos
2991 \else
2992 \pdfsavepos
2993 \if@filesw
2994 \@tempa
2995 \fi
2996 \fi
2997 \if@bidi@csundef{bidi@xpos@@end@\number\bidi@poscount}{%
2998 \PackageWarningNoLine{biditools}{%
2999 The end x position `\'number\bidi@poscount' is not known yet.
3000 Rerun to get this x position%
3001 }%
3002 }{}%
3003 }
3004
3005 \newcommand*{\WriteStartYPostoaux}{%
3006 \global\advance\bidi@poscount\@ne
3007 \edef\@tempa{%
3008 \write\@auxout{%
3009 \string\bidi@pos{y}{start}{\'number\bidi@poscount}{\'noexpand\'number\'noexpand\'pdflasty
3010 }%
3011 }%
3012 \ifvmode
3013 \leavevmode
3014 \fi
3015 \if@RTL
3016 \if@filesw
3017 \@tempa

```



```

3018 \fi
3019 \pdfsavepos
3020 \else
3021 \pdfsavepos
3022 \if@filesw
3023 \@tempa
3024 \fi
3025 \fi
3026 \if@bidi@csundef{bidi@ypos@@start@\number\bidi@poscount}{%
3027 \PackageWarningNoLine{biditools}{%
3028 The start y position ``\number\bidi@poscount' is not known yet.
3029 Rerun to get this y position%
3030 }%
3031 }{}%
3032 }
3033
3034 \newcommand*{\WriteEndYPostoaux}{%
3035 \edef\@tempa{%
3036 \write\@auxout{%
3037 \string\bidi@pos{y}{end}{\number\bidi@poscount}{\noexpand\number\noexpand\pdflastx
3038 }%
3039 }%
3040 \if@RTL
3041 \if@filesw
3042 \@tempa
3043 \fi
3044 \pdfsavepos
3045 \else
3046 \pdfsavepos
3047 \if@filesw
3048 \@tempa
3049 \fi
3050 \fi
3051 \if@bidi@csundef{bidi@ypos@@end@\number\bidi@poscount}{%
3052 \PackageWarningNoLine{biditools}{%
3053 The end y position ``\number\bidi@poscount' is not known yet.
3054 Rerun to get this y position%
3055 }%
3056 }{}%
3057 }
3058
3059 \newcommand*{\WriteStartXYPostoaux}{%
3060 \global\advance\bidi@poscount\@ne
3061 \edef\@tempa{%
3062 \write\@auxout{%
3063 \string\bidi@pos{x}{start}{\number\bidi@poscount}{\noexpand\number\noexpand\pdflastx
3064 }%
3065 \write\@auxout{%
3066 \string\bidi@pos{y}{start}{\number\bidi@poscount}{\noexpand\number\noexpand\pdflastx
3067 }%
3068 }%
3069 \ifvmode
3070 \leavevmode
3071 \fi

```



```

3072 \if@RTL
3073   \if@filesw
3074     \@tempa
3075   \fi
3076   \pdfsavepos
3077   \else
3078     \pdfsavepos
3079   \if@filesw
3080     \@tempa
3081   \fi
3082 \fi
3083 \if@bidi@csundef{bidi@xpos@@start@\number\bidi@poscount}{%
3084   \PackageWarningNoLine{biditools}{%
3085     The start x position ``\number\bidi@poscount' is not known yet.
3086     Rerun to get this x position%
3087   }%
3088 }{}%
3089 \if@bidi@csundef{bidi@ypos@@start@\number\bidi@poscount}{%
3090   \PackageWarningNoLine{biditools}{%
3091     The start y position ``\number\bidi@poscount' is not known yet.
3092     Rerun to get this y position%
3093   }%
3094 }{}%
3095 }
3096
3097 \newcommand*{\WriteEndXYPostoaux}{%
3098   \edef\@tempa{%
3099     \write\@auxout{%
3100       \string\bidi@pos{x}{end}{\number\bidi@poscount}{\noexpand\number\noexpand\pdflastx
3101     }%
3102     \write\@auxout{%
3103       \string\bidi@pos{y}{end}{\number\bidi@poscount}{\noexpand\number\noexpand\pdflasty
3104     }%
3105   }%
3106 \if@RTL
3107   \if@filesw
3108     \@tempa
3109   \fi
3110   \pdfsavepos
3111   \else
3112     \pdfsavepos
3113   \if@filesw
3114     \@tempa
3115   \fi
3116 \fi
3117 \if@bidi@csundef{bidi@xpos@@end@\number\bidi@poscount}{%
3118   \PackageWarningNoLine{biditools}{%
3119     The end x position ``\number\bidi@poscount' is not known yet.
3120     Rerun to get this x position%
3121   }%
3122 }{}%
3123 \if@bidi@csundef{bidi@ypos@@end@\number\bidi@poscount}{%
3124   \PackageWarningNoLine{biditools}{%
3125     The end y position ``\number\bidi@poscount' is not known yet.

```



```

3126         Rerun to get this y position%
3127     }%
3128 }{}%
3129 }
3130
3131 \newcommand*{\currentposxwidth}{%
3132   \if@bidi@csundef{bidi@xpos@@end@\number\bidi@poscount}{\z@}
3133   {%
3134     \ifnum\csname bidi@xpos@@start@\number\bidi@poscount
3135     \endcsname < \csname bidi@xpos@@end@\number\bidi@poscount
3136     \endcsname
3137     \dimexpr \csname bidi@xpos@@end@\number\bidi@poscount
3138     \endcsname sp - \csname bidi@xpos@@start@\number\bidi@poscount
3139     \endcsname sp\relax
3140   \else
3141     \dimexpr \csname bidi@xpos@@start@\number\bidi@poscount
3142     \endcsname sp - \csname bidi@xpos@@end@\number\bidi@poscount
3143     \endcsname sp\relax
3144   \fi
3145 }%
3146 }
3147
3148 \newcommand*{\currentposyheight}{%
3149   \if@bidi@csundef{bidi@ypos@@end@\number\bidi@poscount}{\z@}
3150   {%
3151     \dimexpr \csname bidi@ypos@@start@\number\bidi@poscount
3152     \endcsname sp - \csname bidi@ypos@@end@\number\bidi@poscount
3153     \endcsname sp\relax
3154   }%
3155 }
3156
3157
3158
3159 \newcommand*{\setbaselineskip}[1]{%
3160   \linespread{\strip@pt\dimexpr\numexpr\dimexpr#1\relax*65536/\dimexpr\baselineskip\relax}
3161   \selectfont
3162 }
3163
3164
3165 \newcommand*{\bidi@newrobustcmd}{%
3166   \protected\def\bidi@newrobustcmd{\@star@or@long\bidi@new@command}
3167
3168   \def\bidi@new@command#1{\@testopt{\bidi@newcommand#1}0}
3169
3170   \def\bidi@newcommand#1[#2]{%
3171     \ifnextchar[%
3172       {\bidi@xargdef#1[#2]}
3173       {\ifx\l@ngrel@x\relax
3174         \let\l@ngrel@x\protected
3175       \else
3176         \protected\def\l@ngrel@x{\protected\long}%
3177       \fi
3178       \@argdef#1[#2]}}
3179

```





```

3180 \long\def\bidi@xargdef#1[#2][#3]#4{%
3181   \@ifdefinable#1{%
3182     \expandafter\protected
3183     \expandafter\def
3184     \expandafter#1%
3185     \expandafter{%
3186       \expandafter\@testopt
3187       \csname\string#1\endcsname{#3}}%
3188     \expandafter\@yargdef\csname\string#1\endcsname\tw@{#2}{#4}}
3189
3190 \bidi@newrobustcmd*{\bidi@renewrobustcmd}{\@star@or@long\bidi@renew@command}
3191
3192 \def\bidi@renew@command#1{%
3193   \if@bidi@undef{#1}
3194     {\bidi@error{\string#1 undefined}\@ehc}
3195     {}%
3196   \let\@ifdefinable\@rc@ifdefinable
3197   \bidi@new@command#1}
3198
3199
3200
3201 \bidi@newrobustcmd*{\bidi@providerobustcmd}{\@star@or@long\bidi@provide@command}
3202
3203 \def\bidi@provide@command#1{%
3204   \if@bidi@undef{#1}
3205     {\def\reserved@a{\bidi@new@command#1}}
3206     {\def\reserved@a{\bidi@renew@command\reserved@a}}%
3207   \reserved@a}
3208
3209 \newcommand*{\bidi@csuse}[1]{%
3210   \ifcsname#1\endcsname
3211     \csname#1\expandafter\endcsname
3212     \fi}
3213
3214 \newcommand{\bidi@expandonce}[1]{%
3215   \unexpanded\expandafter{#1}}
3216
3217 \def\bidi@protected{%
3218   \let\@@protect\protect
3219   \let\protect\@unexpandable@protect
3220   \afterassignment\restore@protect}
3221
3222 \bidi@newrobustcmd{\bidi@appto}[2]{%
3223   \if@bidi@undef{#1}
3224     {\edef#1{\unexpanded{#2}}}
3225     {\edef#1{\bidi@expandonce#1\unexpanded{#2}}}}
3226 \bidi@newrobustcmd{\bidi@eappto}[2]{%
3227   \if@bidi@undef{#1}
3228     {\edef#1{#2}}
3229     {\edef#1{\bidi@expandonce#1#2}}}}
3230 \bidi@newrobustcmd{\bidi@gappto}[2]{%
3231   \if@bidi@undef{#1}
3232     {\xdef#1{\unexpanded{#2}}}
3233     {\xdef#1{\bidi@expandonce#1\unexpanded{#2}}}}

```



```

3234 \bidi@newrobustcmd{\bidi@xappto}[2]{%
3235   \if@bidi@undef{#1}
3236     {\xdef#1{#2}}
3237     {\xdef#1{\bidi@expandonce#1#2}}}
3238
3239 \bidi@newrobustcmd*{\bidi@protected@eappto}{\bidi@protected\bidi@eappto}
3240 \bidi@newrobustcmd*{\bidi@protected@xappto}{\bidi@protected\bidi@xappto}
3241
3242
3243
3244 \bidi@newrobustcmd{\bidi@preto}[2]{%
3245   \if@bidi@undef{#1}
3246     {\edef#1{\unexpanded{#2}}}
3247     {\edef#1{\unexpanded{#2}\bidi@expandonce#1}}}
3248 \bidi@newrobustcmd{\bidi@epreto}[2]{%
3249   \if@bidi@undef{#1}
3250     {\edef#1{#2}}
3251     {\edef#1{#2\bidi@expandonce#1}}}
3252 \bidi@newrobustcmd{\bidi@gpreto}[2]{%
3253   \if@bidi@undef{#1}
3254     {\xdef#1{\unexpanded{#2}}}
3255     {\xdef#1{\unexpanded{#2}\bidi@expandonce#1}}}
3256 \bidi@newrobustcmd{\bidi@xpreto}[2]{%
3257   \if@bidi@undef{#1}
3258     {\xdef#1{#2}}
3259     {\xdef#1{#2\bidi@expandonce#1}}}
3260
3261 \bidi@newrobustcmd*{\bidi@protected@epreto}{\bidi@protected\bidi@epreto}
3262 \bidi@newrobustcmd*{\bidi@protected@xpreto}{\bidi@protected\bidi@xpreto}
3263
3264
3265
3266 \bidi@newrobustcmd*{\bidi@csappto}[1]{\expandafter\bidi@appto\csname#1\endcsname}
3267 \bidi@newrobustcmd*{\bidi@cseappto}[1]{\expandafter\bidi@eappto\csname#1\endcsname}
3268 \bidi@newrobustcmd*{\bidi@csgappto}[1]{\expandafter\bidi@gappto\csname#1\endcsname}
3269 \bidi@newrobustcmd*{\bidi@csxappto}[1]{\expandafter\bidi@xappto\csname#1\endcsname}
3270 \bidi@newrobustcmd*{\bidi@protected@cseappto}{\bidi@protected\bidi@cseappto}
3271 \bidi@newrobustcmd*{\bidi@protected@csxappto}{\bidi@protected\bidi@csxappto}
3272
3273
3274
3275 \bidi@newrobustcmd*{\bidi@cspreto}[1]{\expandafter\bidi@preto\csname#1\endcsname}
3276 \bidi@newrobustcmd*{\bidi@csepreto}[1]{\expandafter\bidi@epreto\csname#1\endcsname}
3277 \bidi@newrobustcmd*{\bidi@csgpreto}[1]{\expandafter\bidi@gpreto\csname#1\endcsname}
3278 \bidi@newrobustcmd*{\bidi@csxpreto}[1]{\expandafter\bidi@xpreto\csname#1\endcsname}
3279 \bidi@newrobustcmd*{\bidi@protected@csepreto}{\bidi@protected\bidi@csepreto}
3280 \bidi@newrobustcmd*{\bidi@protected@csxpreto}{\bidi@protected\bidi@csxpreto}
3281
3282
3283
3284 \bidi@newrobustcmd{\if@bidi@patchable}{%
3285   \bidi@dbg@trce\if@bidi@patchable
3286   \begingroup
3287   \@makeother\%

```



```

3288 \@ifstar\bid@ifpatchable@i\bid@ifpatchable}
3289
3290 \long\def\bid@ifpatchable#1#2{%
3291   \endgroup
3292   \bid@dbg@init#1%
3293   \if@bid@undef{#1}
3294     {\bid@dbg@fail{def}\@secondoftwo}
3295     {\bid@dbg@info{def}%
3296       \if@bid@defmacro{#1}
3297         {\bid@dbg@info{mac}%
3298           \bid@ifscanable{#1}
3299             {\bid@ifhashcheck{#2}
3300               {\bid@dbg@info{tok}%
3301                 \bid@ifpattern#1{#2}
3302                   {\bid@dbg@info{pat}%
3303                     \bid@dbg@info{pos}\@firstoftwo}
3304                     {\bid@dbg@fail{pat}\@secondoftwo}}
3305                   {\bid@dbg@fail{hsh}\@secondoftwo}}
3306                   {\bid@dbg@fail{tok}\@secondoftwo}}
3307                   {\bid@dbg@fail{mac}\@secondoftwo}}}
3308   }
3309 \long\def\bid@ifpatchable@i#1{%
3310   \endgroup
3311   \bid@dbg@init#1%
3312   \if@bid@undef{#1}
3313     {\bid@dbg@fail{def}\@secondoftwo}
3314     {\bid@dbg@info{def}%
3315       \if@bid@defmacro{#1}
3316         {\bid@dbg@info{mac}%
3317           \if@bid@defparam{#1}
3318             {\bid@dbg@info{prm}%
3319               \bid@ifscanable{#1}
3320                 {\bid@dbg@info{tok}%
3321                   \bid@dbg@info{pos}\@firstoftwo}
3322                   {\bid@dbg@fail{tok}\@secondoftwo}}
3323                 {\bid@dbg@info{prl}%
3324                   \if@bid@defprotected{#1}
3325                     {\bid@dbg@info{pro}}
3326                     {}%
3327                   \bid@dbg@info{pos}\@firstoftwo}}
3328                 {\bid@dbg@fail{mac}\@secondoftwo}}}
3329   }
3330 \bid@newrobustcmd*{\bid@patchcmd}{%
3331   \bid@dbg@trce\bid@patchcmd
3332   \begingroup
3333   \@makeother\#%
3334   \bid@@patchcmd}
3335
3336 \newcommand{\bid@@patchcmd}[4][#####1]{%
3337   \bid@ifpatchable#2{#3}
3338   {\bid@dbg@succ{ret}%
3339     \begingroup
3340     \edef\bid@resrvda{%
3341       \def\noexpand\bid@resrvda####1\detokenize{macro:}####2->####3&{%

```



```

3342      #1\def\string\bidiresrvda\space####2{\noexpand\bidiresrvdb####3&}}%
3343      \def\noexpand\bidiresrvdb####1\detokenize{#3}####2&{%
3344      ####1\detokenize{#4}####2}%
3345      \edef\noexpand\bidiresrvda{%
3346      \noexpand\bidiresrvda\meaning#2&}}%
3347      \bidiresrvda
3348      \bidipatchcmd@scantoks\bidiresrvda
3349      \let#2\bidiresrvda
3350      \bidi@undef\bidiresrvda
3351      \@firstoftwo}
3352      {\@secondoftwo}}
3353
3354 \def\bidipatchcmd@scantoks#1{%
3355   \edef\bidiresrvda{\endgroup
3356     \unexpanded{\makeatletter\scantokens}{#1}%
3357     \catcode\number`\@=\the\catcode`\@ \relax}%
3358   \bidiresrvda}
3359
3360 \newcommand\bidisloaded[2][{}]{
3361   \expandafter\ifx\csname if@bidic#2loaded@ \endcsname \relax
3362     \expandafter\newif\csname if@bidic#2loaded@ \endcsname
3363     \fi
3364     \@ifpackageloaded{#2}
3365     {\csname @bidic#2loaded@true \endcsname #1}
3366     {\csname @bidic#2loaded@false \endcsname}}
3367
3368 \protected\def\bidifscanable#1{%
3369   \begingroup
3370   \edef\bidiresrvda{%
3371     \def\noexpand\bidiresrvda####1\detokenize{macro}:####2->####3&{%
3372     ####1\def\string\bidiresrvda####2{####3}}}%
3373     \edef\noexpand\bidiresrvda{\noexpand\bidiresrvda\meaning#1&}}%
3374     \bidiresrvda
3375     \makeatletter
3376     \scantokens\expandafter{\bidiresrvda}%
3377     \expandafter\endgroup\ifx#1\bidiresrvda
3378       \expandafter\@firstoftwo
3379     \else
3380       \expandafter\@secondoftwo
3381     \fi}
3382
3383
3384 \protected\long\def\bidifhashcheck#1{%
3385   \begingroup
3386   \edef\bidiresrvda{\detokenize{#1}}}%
3387   \expandafter\endgroup
3388   \expandafter\bidifhashcheck@i\meaning\bidiresrvda&}
3389
3390 \edef\bidifhashcheck@i#1&{%
3391   \noexpand\expandafter
3392   \noexpand\bidifhashcheck@ii
3393   \noexpand\strip@prefix#1\string#\string#&}
3394
3395 \edef\bidifhashcheck@ii{%

```



```

3396 \def\noexpand\bidiiifhashcheck@ii##1\string#\string###2&}
3397 \bidiiifhashcheck@ii{\if@bidi@blank{#2}}
3398
3399
3400 \protected\long\def\bidiiifpattern#1#2{%
3401 \begingroup
3402 \edef\bidii@resrvda{%
3403 \def\noexpand\bidii@resrvda####1\detokenize{#2}###2&{%
3404 \endgroup\noexpand\noexpand\noexpand\noexpand\if@bidi@blank{####2}}}%
3405 \edef\noexpand\bidii@resrvda{\noexpand\bidii@resrvda
3406 \expandafter\strip@prefix\meaning#1\detokenize{#2}&}%
3407 \noexpand\bidii@resrvda}
3408 \bidii@resrvda\@secondoftwo\@firstoftwo}
3409
3410
3411 \newcommand{\if@bidi@defparam}{%
3412 \long\edef\if@bidi@defparam#1{%
3413 \noexpand\expandafter\noexpand\bidiiifdefparam
3414 \noexpand\meaning#1\detokenize{macro}:->&}
3415 \edef\bidiiifdefparam{%
3416 \def\noexpand\bidiiifdefparam##1\detokenize{macro}:##2->##3&}
3417 \bidiiifdefparam{\bidii@notblank{#2}}
3418
3419
3420 \newcommand{\if@bidi@defprotected}{%
3421 \long\edef\if@bidi@defprotected#1{%
3422 \noexpand\expandafter\noexpand\bidiiifdefprotected
3423 \noexpand\meaning#1\string\protected&}
3424 \edef\bidiiifdefprotected{%
3425 \def\noexpand\bidiiifdefprotected##1\string\protected##2&}
3426 \bidiiifdefprotected{\bidii@notblank{#2}}
3427
3428
3429 \bidii@newrobustcmd*\bidii@undef}[1]{\let#1\bidii@undefined}
3430
3431 \let\bidii@dbg@trce\@gobble
3432 \let\bidii@dbg@init\@gobble
3433 \let\bidii@dbg@info\@gobble
3434 \let\bidii@dbg@succ\@gobble
3435 \let\bidii@dbg@fail\@gobble
3436
3437
3438
3439 \bidii@newrobustcmd*\bidii@apptocmd}{%
3440 \bidii@dbg@trce\bidii@apptocmd
3441 \begingroup
3442 \@makeother\#%
3443 \bidii@hooktocmd\bidii@append}
3444
3445
3446
3447 \bidii@newrobustcmd*\bidii@pretocmd}{%
3448 \bidii@dbg@trce\bidii@pretocmd
3449 \begingroup

```



```

3450 \@makeother\#%
3451 \bidi@hooktocmd\bidi@prepend}
3452
3453 \long\def\bidi@hooktocmd#1#2#3{%
3454 \endgroup
3455 \bidi@dbg@init#2%
3456 \if@bidi@undef{#2}
3457 {\bidi@dbg@fail{def}\@secondoftwo}
3458 {\bidi@dbg@info{def}%
3459 \if@bidi@defmacro{#2}
3460 {\bidi@dbg@info{mac}%
3461 \if@bidi@defparam{#2}
3462 {\bidi@dbg@info{prm}%
3463 \bidi@ifscanable{#2}
3464 {\bidi@ifhashcheck{#3}
3465 {\bidi@dbg@info{tok}%
3466 \bidi@dbg@succ{ret}%
3467 \bidi@hooktocmd@i#1#2{#3}%
3468 \@firstoftwo}
3469 {\bidi@dbg@fail{hsh}\@secondoftwo}}
3470 {\bidi@dbg@fail{tok}\@secondoftwo}}
3471 {\bidi@dbg@info{prl}%
3472 \if@bidi@defprotected{#2}
3473 {\bidi@dbg@info{pro}%
3474 \bidi@dbg@succ{red}%
3475 \protected}
3476 {\bidi@dbg@succ{red}}}%
3477 \edef#2{#1{\bidi@expandonce#2}{\unexpanded{#3}}}%
3478 \@firstoftwo}}
3479 {\bidi@dbg@fail{mac}\@secondoftwo}}
3480
3481 \long\def\bidi@hooktocmd@i#1#2#3{%
3482 \begingroup
3483 \edef\bidi@resrvda{%
3484 \def\noexpand\bidi@resrvda####1\detokenize{macro}:####2->####3&{%
3485 ####1\def\string\bidi@resrvda\space####2{#1{####3}{\detokenize{#3}}}}%
3486 \edef\noexpand\bidi@resrvda{%
3487 \noexpand\bidi@resrvda\meaning#2&}}%
3488 \bidi@resrvda
3489 \bidi@patchcmd@scantoks\bidi@resrvda
3490 \let#2\bidi@resrvda
3491 \bidi@undef\bidi@resrvda}
3492
3493 \long\def\bidi@append#1#2{#1#2}
3494 \long\def\bidi@prepend#1#2{#2#1}
3495
3496 %\bidi@newrobustcmd*{\bidi@AtEndPreamble}{\bidi@gappto\bidi@endpreamblehook}
3497 %\newcommand*{\bidi@endpreamblehook}{%
3498
3499 \bidi@newrobustcmd*{\bidi@AtEndPreamble}{\AddToHook{begindocument/before}}%
3500
3501 \bidi@newrobustcmd*{\bidi@BeforeOutputPageShipOut}{\bidi@gappto\bidi@beforeoutputpageshipout}
3502 \newcommand*{\bidi@beforeoutputpageshipouthook}{%
3503

```



```

3504 \bidi@newrobustcmd*{\bidi@BeforeHeader}{\bidi@gappto\bidi@BeforeHeaderhook}
3505 \newcommand*{\bidi@BeforeHeaderhook}{}
3506
3507 \bidi@newrobustcmd*{\bidi@BeforeOutputBoxOutputPage}{\bidi@gappto\bidi@BeforeOutputBoxOutputPagehook}
3508 \newcommand*{\bidi@BeforeOutputBoxOutputPagehook}{}
3509
3510 \bidi@newrobustcmd*{\bidi@AfterOutputBoxOutputPage}{\bidi@gappto\bidi@AfterOutputBoxOutputPagehook}
3511 \newcommand*{\bidi@AfterOutputBoxOutputPagehook}{}
3512
3513 \bidi@newrobustcmd*{\bidi@BeforeFooter}{\bidi@gappto\bidi@BeforeFooterhook}
3514 \newcommand*{\bidi@BeforeFooterhook}{}
3515
3516 \bidi@newrobustcmd*{\bidi@AfterFooter}{\bidi@gappto\bidi@AfterFooterhook}
3517 \newcommand*{\bidi@AfterFooterhook}{}
3518
3519
3520 \bidi@newrobustcmd*{\bidi@AfterOutputPageShipOut}{\bidi@gappto\bidi@AfterOutputPageShipOuthook}
3521 \newcommand*{\bidi@AfterOutputPageShipOuthook}{}
3522
3523 \bidi@newrobustcmd*{\bidi@AtEndOutputPage}{\bidi@gappto\bidi@AtEndOutputPagehook}
3524 \newcommand*{\bidi@AtEndOutputPagehook}{}
3525
3526 %\bidi@preto\document{%
3527 % \endgroup
3528 % \let\bidi@AtEndPreamble\@firstofone
3529 % \bidi@endpreamblehook
3530 % \protected\def\bidi@AtEndPreamble{\@notprerr\@gobble}%
3531 % \bidi@undef\bidi@endpreamblehook
3532 % \begingroup}
3533
3534 \bidi@newrobustcmd*{\bidi@AfterPreamble}{\AtBeginDocument}
3535 \bidi@AtEndPreamble{\let\bidi@AfterPreamble\@firstofone}
3536
3537 %\bidi@newrobustcmd*{\bidi@AfterEndPreamble}{\bidi@gappto\bidi@AfterEndPreamblehook}
3538 %\newcommand*{\bidi@AfterEndPreamblehook}{}
3539
3540 \bidi@newrobustcmd*{\bidi@AfterEndPreamble}{\AddToHook{begindocument/end}}%
3541
3542 %\bidi@appto\document{%
3543 % \let\bidi@AfterEndPreamble\@firstofone
3544 % \bidi@afterendpreamblehook
3545 % \protected\def\bidi@AfterEndPreamble{\@notprerr\@gobble}%
3546 % \bidi@undef\bidi@afterendpreamblehook
3547 % \ignorespaces}
3548
3549 \bidi@newrobustcmd*{\bidi@AfterEndDocumentCheckLabelsRerun}{\bidi@gappto\bidi@AfterEndDocumentCheckLabelsRerunhook}
3550 \newcommand*{\bidi@AfterEndDocumentCheckLabelsRerunhook}{}
3551
3552 \bidi@patchcmd\enddocument
3553 {\fi}
3554 {\let\bidi@AfterEndDocumentCheckLabelsRerun\@firstofone
3555 \bidi@afterenddocumentchecklabelsrerunhook
3556 \fi}
3557 {}

```



```

3558   {\PackageWarning{biditools}{Patching '\string\enddocument' failed}}
3559
3560 \AtEndDocument{\let\bid@AfterEndPreamble@gobble}
3561
3562 \bid@newrobustcmd*{\bid@AfterLastShipout}{\bid@gappto\bid@afterlastshipouthook}
3563 \newcommand*{\bid@afterlastshipouthook}{}
3564
3565 \bid@patchcmd\enddocument
3566   {\clearpage}
3567   {\clearpage
3568     \let\bid@AfterLastShipout\@firstofone
3569     \bid@afterlastshipouthook}
3570   {}
3571   {\let\bid@clearpage\clearpage
3572     \def\clearpage{%
3573       \bid@clearpage
3574       \let\bid@AfterLastShipout\@firstofone
3575       \bid@afterlastshipouthook}}
3576
3577 %\bid@newrobustcmd*{\bid@AfterEndDocument}{\bid@gappto\bid@afterenddocumenthook}
3578 %\newcommand*{\bid@afterenddocumenthook}{}
3579
3580 \bid@newrobustcmd*{\bid@AfterEndDocument}{\AddToHook{enddocument/end}}%
3581
3582 %\bid@patchcmd\enddocument
3583 %   {\deadcycles}
3584 %   {\let\bid@AfterEndDocument\@firstofone
3585 %     \bid@afterenddocumenthook
3586 %     \deadcycles}
3587 %   {}
3588 %   {\let\bid@@end\@end
3589 %     \def\@end{%
3590 %       \let\bid@AfterEndDocument\@firstofone
3591 %       \bid@afterenddocumenthook
3592 %       \bid@@end}}
3593
3594 \bid@newrobustcmd{\bid@AtBeginEnvironment}[1]{%
3595   \bid@csgappto{\bid@begin@#1@hook}}
3596
3597 % Patch \begin<space> and \end<space> in newer LaTeX releases
3598 % \begin and \end in older ones.
3599 \expandafter\bid@patchcmd\csname begin\ifcsname begin\endcsname\space\fi\endcsname
3600   {\csname #1\endcsname}
3601   {\bid@csuse{\bid@begin@#1@hook}%
3602     \csname #1\endcsname}
3603   {}
3604   {\bid@warning{%
3605     Patching '\string\begin' failed!\MessageBreak
3606     '\string\bid@AtBeginEnvironment' will not work@gobble}}
3607
3608
3609
3610 \bid@newrobustcmd{\bid@AtEndEnvironment}[1]{%
3611   \bid@csgappto{\bid@end@#1@hook}}

```





```

3612
3613 \expandafter\@bidi@patchcmd\csname end\ifcsname end \endcsname\space\fi\endcsname
3614 {\csname end#1\endcsname}
3615 {\@bidi@csuse{\@bidi@end@#1@hook}%
3616 \csname end#1\endcsname}
3617 {}
3618 {\@bidi@warning{%
3619   Patching '\string\end' failed!\MessageBreak
3620   '\string\@bidi@AtEndEnvironment' will not work\@gobble}}
3621
3622
3623
3624 \@bidi@newrobustcmd{\@bidi@BeforeBeginEnvironment}[1]{%
3625 \@bidi@csgappto{\@bidi@beforebegin@#1@hook}}
3626
3627 \expandafter\@bidi@pretocmd\csname begin\ifcsname begin \endcsname\space\fi\endcsname
3628 {\@bidi@csuse{\@bidi@beforebegin@#1@hook}}
3629 {}
3630 {\@bidi@warning{%
3631   Patching '\string\begin' failed!\MessageBreak
3632   '\string\@bidi@BeforeBeginEnvironment' will not work\@gobble}}
3633
3634 \@bidi@newrobustcmd{\@bidi@AfterEndEnvironment}[1]{%
3635 \@bidi@csgappto{\@bidi@afterend@#1@hook}}
3636
3637 \expandafter\@bidi@patchcmd\csname end\ifcsname end \endcsname\space\fi\endcsname
3638 {\if@ignore}
3639 {\@bidi@csuse{\@bidi@afterend@#1@hook}%
3640 \if@ignore}
3641 {}
3642 {\@bidi@warning{%
3643   Patching '\string\end' failed!\MessageBreak
3644   '\string\@bidi@AfterEndEnvironment' will not work\@gobble}}
3645
3646 \def\@bidi@namedef#1{\expandafter\def\csname #1\endcsname}
3647 \def\@bidi@namegdef#1{\expandafter\gdef\csname #1\endcsname}
3648 \def\@bidi@nameedef#1{\expandafter\edef\csname #1\endcsname}
3649 \def\@bidi@namexdef#1{\expandafter\xdef\csname #1\endcsname}
3650
3651 % From David Carlisle:
3652 % The \@stpelt redefinition below belongs to Heiko Oberdiek
3653 % See also https://github.com/ho-tex/oberdiek/issues/26
3654
3655 \let\@bidi@stepcounter\stepcounter
3656 \let\@bidi@@stpelt\@stpelt
3657
3658 \def\@bidi@stpelt#1{%
3659 \ifcsname bidi@reset@#1@perpage\endcsname
3660 \begingroup
3661 \let\stepcounter\@bidi@stepcounter
3662 \@bidi@@stpelt{#1}%
3663 \endgroup
3664 \expandafter\@gobbletwo
3665 \fi

```



```

3666 \@bidi@stpelt{#1}%
3667 }
3668
3669 \bidi@pretocmd\stepcounter
3670 {%
3671   \if@bidi@csundef\bidi@stepcounterhook@@#1}{%
3672     \csname bidi@stepcounterhook@@#1\endcsname
3673   }%
3674 }{%
3675   {\PackageWarning{biditools}{Patching `string\stepcounter' failed}}
3676
3677 \chardef\bidi@backslash`\\
3678 \def\bidics#1{\texttt{\char\bidi@backslash#1}}
3679
3680 % anonymous control sequences
3681 \newcount\bidi@tempcountb
3682 \newtoks\bidi@temptoksa
3683 \newtoks\bidi@temptoksb
3684
3685 % Catcode (re)storing
3686 %
3687 \def\bidi@storecatcode#1%
3688   {\escapechar\m@ne
3689     \bidi@csarg\edef\bidi@restorecatcode\string#1}%
3690     {\catcode`\string#1=
3691       \the\catcode\expandafter`\string#1}%
3692     \catcode\expandafter`\string#1=12\relax
3693     \escapechar`\\relax}
3694 \def\bidi@restorecatcode#1%
3695   {\escapechar\m@ne
3696     \csname bidi@restorecatcode\string#1\endcsname
3697     \escapechar`\\relax}
3698
3699 % Construct a control sequence inside \edef
3700 %
3701 \def\bidi@csname#1{\expandafter\noexpand\csname#1\endcsname}
3702
3703 % Construct a control sequence out of #2, and give it to #1
3704 %
3705 \def\bidi@csarg#1#2{\expandafter#1\csname#2\endcsname}
3706
3707 % Pick an escapecharacter
3708 % this presumes that its argument is a character.
3709 %
3710 \def\bidi@pickescape#1{\ifnum`#1=\escapechar\else#1\fi}
3711
3712 % Equality of strings.
3713 % the fast approach: does not work in expansion-only environment.
3714 %
3715 \def\bidi@EqualString#1#2{00\fi\def\bidi@eqs@a{#1}\def\bidi@eqs@b{#2}%
3716   \ifx\bidi@eqs@a\bidi@eqs@b}
3717
3718 % Test by expansion only
3719 %

```



```

3720 \def\bidiequalstringX#1#2{00\fi
3721   \csname if\@bidiequalstringX#1&#2&#3\endcsname}
3722 \def\@bidiequalstringX#1#2$#3$#4${\ifx#1#3%
3723   \ifx#1&true\else\bidihop@ES\@bidiequalstringX#2$#4$\fi
3724   \else false\fi}
3725 \def\bidihop@ES#1\fi#2\fi{\fi\fi#1}
3726
3727 % Lexicographic ordering
3728 % note the use of \def
3729 % also note the characters 0,127,255 that are used,
3730 % these are not supposed to appear in the strings
3731 %
3732 {\catcode0=12 \catcode255=12 \catcode127=12
3733 \gdef\bidistringbeforeNC#1#2{00\fi
3734   \bidicharsbefore#1^^@^^?#2^^ff^^?}%
3735 \gdef\bidicharsbeforeNC#1#2^^?#3#4^^?{%
3736   \ifcat#1\relax\def\bidinext{\bidicharsbefore#2^^@^^?#3#4^^ff^^?}%
3737   \else\ifcat#3\relax\def\bidinext{\bidicharsbefore#1#2^^@^^?#4^^ff^^?}%
3738   \else\ifnum\lccode`#1<\lccode`#3
3739     \def\bidinext{\csname iftrue\endcsname}%
3740   \else\ifnum\lccode`#1>\lccode`#3
3741     \def\bidinext{\csname iffalse\endcsname}%
3742   \else\def\bidinext{\bidicharsbefore#2^^?#4^^?}%
3743   \fi \fi \fi \fi
3744   \bidinext}
3745 \gdef\bidistringbefore#1#2{00\fi
3746   \bidicharsbefore#1^^@^^?#2^^ff^^?}%
3747 \gdef\bidicharsbefore#1#2^^?#3#4^^?{%
3748   \ifnum`#1<`#3
3749     \def\bidinext{\csname iftrue\endcsname}%
3750   \else\ifnum`#1>`#3
3751     \def\bidinext{\csname iffalse\endcsname}%
3752   \else\def\bidinext{\bidicharsbefore#2^^?#4^^?}%
3753   \fi\fi
3754   \bidinext}
3755 }
3756
3757 % Null argument test
3758 %
3759 \def\bidieempty{}
3760 \def\bidieifempty#1{00\fi\expandafter\ifx\csname bidi@#1@null\endcsname\bidie@null}
3761 \def\bidieifemptyX#1{\expandafter\ifx\csname bidi@#1@null\endcsname\bidie@null}
3762 %\def\bidieifempty#1{\def\bidiecs@a{#1}\ifx\bidiecs@a\bidieempty}
3763 \def\bidieisemptylist#1{00\fi\def\bidiecs@a{#1}\ifx\cs@a\bidieempty}
3764
3765 % Next character test
3766 %
3767 \def\bidienxtchar#1#2#3{00\fi
3768   \let\bidienxt@ch#1\def\bidienxt@a{#2}\def\bidienxt@b{#3}%
3769   \futurelet\bidienxt@c\@bidieifnxtc}
3770 \def\bidieifnextchar#1#2#3{%
3771   \let\bidienxt@ch#1\def\bidienxt@a{#2}\def\bidienxt@b{#3}%
3772   \futurelet\bidienxt@c\@bidieifnxtc}
3773 \def\@bidieifnxtc{\ifx\bidienxt@ch\bidienxt@c \expandafter\bidienxt@a

```



```

3774     \else \expandafter\bidinxt@b \fi}
3775
3776 % Test for defined-ness of string as control sequence.
3777 % works inside \edef
3778 %
3779 \def\bididefcs#1{00\fi\bidicsarg\ifx{#1}\relax}
3780
3781 % Define uniquely defined dummy macros,
3782 % usually to serve as bumper blocks at the end of a list
3783 %
3784 \newcount\bididummies
3785 \def\DefNewDummy#1{
3786     \if\bididefcs{#1}\bidicsarg\edef{#1}{\bididum\the\bididummies}
3787         \advance\bididummies\@ne
3788     \else
3789         \bidierro{Attempt at second definition of `#1'}
3790     \fi}
3791
3792 % string case statement
3793 % use: \bidiswitch \iftest{...} in:
3794 %     item1 action1
3795 %     ...
3796 %     itemn actionn
3797 %     default defaultaction [optional]
3798 %     \endbidiswitch
3799 % inspired by Jonathan Fine: Some Basic Control Macros
3800 % Tugboat 12 #4
3801 %
3802 \let\@bidifi\fi \let\endbidiswitch\relax \DefNewDummy{\bididef}
3803 \def\bidiswitch@exit #1 \@bidifi #2 \endbidiswitch {\fi #1}
3804 \def\bidiswitch #1#2#3{\bidicsarg\ifx{#2}\bididef\bidiswitch@exit #3 \@bidifi
3805 #1{#2}\bidiswitch@exit #3 \@bidifi
3806 \bidiswitch {#1}
3807 }
3808 % this version puts the test object in {}
3809 \def\bidioswitch #1 in: #2 #3; {\bidicsarg\ifx{#2}\bididef\bidiswitch@exit #3 \@bidifi
3810 #1{#2}\bidiswitch@exit #3 \@bidifi
3811 \bidiswitch #1 in:
3812 }
3813 % this version assumes that the test object is just one character
3814 \def\bidicswitch #1 in: #2 #3; {\bidicsarg\ifx{#2}\bididef\bidiswitch@exit #3 \@bidifi
3815 #1#2\bidiswitch@exit #3 \@bidifi
3816 \bidicswitch #1 in:
3817 }
3818 % this version assumes that the test object can have an optional space
3819 \def\bidibswitch #1 in: #2 #3; {\bidicsarg\ifx{#2}\bididef\bidiswitch@exit #3 \@bidifi
3820 #1#2 \bidiswitch@exit #3 \@bidifi
3821 \bidibswitch #1 in:
3822 }
3823 % this version can cope with significant spaces at the start of #3;
3824 % #2 is macro argument
3825 \def\bidimswitch #1 in: #2:#3; {\bidicsarg\ifx{#2}\bididef\bidiswitch@exit #3 \@bidifi
3826 #1{#2}\bidiswitch@exit #3 \@bidifi
3827 \bidimswitch #1 in:

```



```

3828 }
3829 % idem; #2 does not have to be enclosed in braces
3830 \def\bidifswitch #1 in: #2:#3; {\bidicsarg\ifx{#2}\bidi@default\bidi@switch@exit #3 \@bidi
3831 #1#2 \bidi@switch@exit #3 \@bidi@fi
3832 \bidifswitch #1 in:
3833 }
3834
3835 % Routines for taking the value of a string:
3836 % if the string is defined as control sequence
3837 % take the value of that, otherwise take the string itself
3838
3839 % String or value of control sequence
3840 %
3841 \def\bidifww#1{\if\bidifundefinedcs{#1}#1\else \the\csname#1\endcsname\fi}
3842
3843 % String or control sequence
3844 %
3845 \def\@bidifww#1{\if\bidifundefinedcs{#1}#1\else \csname#1\endcsname \fi}
3846
3847 % String or \noexpand-ed control sequence;
3848 % for use in \edef
3849 %
3850 \newif\ifbidi@in@label
3851 \def\@bidifww#1{\if\bidifundefinedcs{#1}#1\else
3852 \ifbidi@in@label\noexpand\protect\fi \bidi@csname{#1}\fi}
3853 \newtoks\bidi@are@these@correct
3854 \def\bidi@t@w@w#1{%
3855 \if\bidifundefinedcs{#1}#1%
3856 \ifdefining\bidi@append@to@list\bidi@are@these@correct{#1 }\fi
3857 \else
3858 \ifin@label\noexpand\protect\fi \bidi@csname{#1}\fi}
3859
3860 % List Manipulation .....
3861 % this assumes that #1 is a list of tokens, #2 is the name of a list
3862 %
3863 % Names of lists (and of items to pop into) are given as strings;
3864 % not as control sequences.
3865 %
3866 \newtoks\bidi@toks@lista \newtoks\bidi@toks@listb
3867 % basic append/prepend macro
3868 \long\def\@bidi@append@to@cslist#1#2#3{\begingroup\bidi@toks@lista=#2{#3}%
3869 \global#1=\expandafter\expandafter\expandafter{\expandafter\the\expandafter#1\the\bidi@toks@listb}
3870 \long\def\@bidi@prepend@to@cslist#1#2#3{\begingroup\bidi@toks@lista=#2{#3}%
3871 \global#1=\expandafter\expandafter\expandafter{\expandafter\the\expandafter\bidi@toks@listb}
3872 \def\@bidi@append@to@list{\bidi@csarg\@bidi@append@to@cslist}
3873 \def\@bidi@prepend@to@list{\bidi@csarg\@bidi@prepend@to@cslist}
3874 % variations:
3875 \long\def\bidi@append@to@list#1#2{\@bidi@append@to@list{#1}{-}{#2}}
3876 \long\def\bidi@prepend@to@list#1#2{\@bidi@prepend@to@list{#1}{-}{#2}}
3877 \def\bidi@append@list@to@list#1#2{%
3878 \@bidi@append@to@list{#1}{\expandafter\expandafter\expandafter}{\expandafter\the\csname#2\endcsname}
3879 \def\bidi@prepend@list@to@list#1#2{%
3880 \@bidi@prepend@to@list{#1}{\expandafter\expandafter\expandafter}{\expandafter\the\csname#2\endcsname}
3881 \def\bidi@append@cslist@to@cslist#1#2{%

```



```

3882 \@bidi@append@to@cslst{#1}\expandafter{\the#2}}
3883 \def\bidi@prepend@cslst@to@cslst#1#2{%
3884 \@bidi@prepend@to@cslst{#1}\expandafter{\the#2}}
3885 \def\bidi@append@toks@cs@to@list#1#2{\@bidi@append@to@list{#1}\expandafter{\the#2}}
3886 \def\bidi@prepend@toks@cs@to@list#1#2{\@bidi@prepend@to@list{#1}\expandafter{\the#2}}
3887
3888 \let\bidi@willbeunhskip\unhskip
3889
3890 % A few list macros for the user
3891 \def\NewTokenList:#1 {\bidi@csarg\newtoks{#1}\global\csname#1\endcsname{}}
3892 \def\EmptyTokenList:#1 {\global\csname#1\endcsname{}}
3893 \long\def\AppendToTokenList:#1=#2 {\@bidi@append@to@list{#1}{#2}}
3894 \long\def\PrependToTokenList:#1=#2 {\@bidi@prepend@to@list{#1}{#2}}
3895 \def\TheTokenList:#1 {\let\bidi@oldwbuskip\bidi@willbeunhskip \let\bidi@willbeunhskip\empty
3896 \if\bidi@undefinedcs{#1}\bidi@error{Token List <#1> undefined}
3897 \else\bidi@csarg\the{#1}\fi
3898 \let\bidi@willbeunhskip\bidi@oldwbuskip}
3899
3900 \def\bidi@del@tok@from@list#1#2{\begingroup
3901 \long\def\bidi@cs@liste##1#2##2\bidi@tok@SM
3902 {\bidi@toks@lista{##1}\bidi@toks@listb{##2}%
3903 \edef\bidi@cs@listb{\global\bidi@csname{#1}=
3904 {\the\bidi@toks@lista\the\bidi@toks@listb}}%
3905 \bidi@cs@listb}%
3906 \edef\bidi@cs@lista{\noexpand\bidi@cs@liste}\expandafter\the\csname#1\endcsname\noexpand
3907 \bidi@cs@lista \endgroup}
3908 \def\bidi@in@front@of@list#1{\bidi@csarg{\let\expandafter\bidi@cs@lista}{#1}%
3909 \bidi@in@front@of@cslst\bidi@cs@lista}
3910 \long\def\bidi@in@front@of@cslst#1#2{\begingroup\bidi@toks@lista={#2}%
3911 \global#1=\expandafter\expandafter\expandafter{\expandafter\the\expandafter\bidi@toks@list
3912 \endgroup}
3913 \long\def\bidi@local@in@front@of@list#1#2{\bidi@toks@lista={#2}%
3914 \csname#1\endcsname\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter
3915 {\expandafter\expandafter\expandafter\the\expandafter\expandafter\expandafter
3916 \expandafter\the\csname#1\endcsname}%
3917 }
3918 \def\bidi@set@list#1{\bidi@csarg{\let\expandafter\bidi@cs@lista}{#1}%
3919 \bidi@set@cslst\bidi@cs@lista}
3920 \long\def\bidi@set@cslst#1#2{\begingroup\bidi@toks@lista={#2}%
3921 \global#1=\expandafter{\the\bidi@toks@lista}\endgroup}
3922
3923 %%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%% Stack macros
3924 %
3925 % push in terms of prepending of lists
3926 \def\bidi@push@cs@onto@cs#1#2{\@bidi@prepend@to@cslst#1\expandafter{\expandafter\\expandafter
3927 \def\bidi@push@onto#1{\bidi@csarg\bidi@push@onto@cs{#1}}
3928 \def\bidi@push@onto@cs#1#2{\@bidi@prepend@to@cslst#1{\{\{#2\}\}}
3929 \def\bidi@local@push@onto#1#2{\let\=\relax
3930 \bidi@local@in@front@of@list{#1}{\{\{#2\}\}}
3931 % pop via auxiliary macro: #1 is result, #2 is stack
3932 % two cs arguments
3933 \def\bidi@pop@cs@into#1#2{\edef\bidi@cs@e
3934 {\noexpand\@bidi@popinto\noexpand#1\noexpand#2\the#2\noexpand\@bidi@pop}\bidi@cs@e}
3935 % two string arguments

```



```

3936 \def\bidipop@into#1#2{\edef\bidics@e
3937   {\noexpand\@bidipopinto\bidicsname{#1}\bidicsname{#2}\bidicsarg\the{#2}\noexpand\@b
3938 \long\def\@bidipopinto#1#2\#3#4\@bidipop{#1{#3}#2{#4}}
3939 \def\bidicopy@stacktop#1#2{%
3940   \edef\bidics@e{\noexpand\@bidicopy@stacktop
3941     {#1}\bidicsarg\the{#2}\noexpand\@bidipop}%
3942   \bidics@e}
3943 \def\@bidicopy@stacktop#1\#2#3\@bidipop{\csname#1\endcsname#2\relax}
3944 \newcount\bidistack@length \newtoks\bidie@empty@stack \bidie@empty@stack{\{\}}
3945 \def\bidilength@of@stack#1{\bidicsarg\bidilength@of@csstack{#1}}
3946 \def\bidilength@of@csstack#1{\def\##1{\advance\bidistack@length\@ne}%
3947   \bidistack@length\@m@ne \the#1}
3948 % turn a stack upside down
3949 \def\bidinvert@csstack#1{\bidilength@of@csstack{#1}%
3950   \biditempcountb\z@ \biditemptoksa\bidie@empty@stack
3951   \loop\ifnum\biditempcountb<\bidistack@length
3952     \bidipop@cs@into\biditemptoksb#1\advance\bidistack@length\@m@ne
3953     \bidipush@cs@onto@cs\biditemptoksa\biditemptoksb
3954 %   \bidic@append@cslist@to@cslist\biditemptoksb\biditemptoksa% append a to b
3955 %   \biditemptoksa\biditemptoksb
3956   \repeat% copy b to a
3957   #1\biditemptoksa \biditemptoksa\bidie@empty@toks}
3958 % invert a stack into a list
3959 \def\bidix@stack@to@list#1{\bidilength@of@stack{#1}%
3960   \biditempcountb\z@ \biditemptoksa\bidie@empty@toks
3961   \loop\ifnum\biditempcountb<\bidistack@length
3962     \bidipop@into\biditemptoksb{#1}\advance\bidistack@length\@m@ne
3963     \bidic@append@list@to@list\biditemptoksb{\biditemptoksa}\repeat
3964   \csname#1\endcsname\biditemptoksa \biditemptoksa\bidie@empty@toks}
3965
3966
3967 % General loop macro:
3968 % \looprepeat
3969 %   \forvariable{<var>} \fromvalue{<start>} \bystep{<step>} \tovalue{<end>} \downtovalue{<en
3970 %   \untilcondition{<cond>} \whilecondition{<cond>}
3971 %   \doloopbody { <loop body> }
3972 % where all control sequences in between \looprepeat and \doloopbody are optional.
3973 %
3974 % var: characters to form a control sequence;
3975 %   after \forvariable{index} you can access the loop counter as \index.
3976 %   This is a count register; to print it use \number\index.
3977 % start,step,end: integers with obvious relations to the loop counter;
3978 %   start and step have a default value of 1
3979 % cond: (sequence of commands ending in) any TeX \if... test.
3980 %
3981 % Count down instead of up with \downtovalue; the increment given in \bystep
3982 % is always positive, and is added or subtracted accordingly.
3983 %
3984 % Tests: \untilcondition is evaluated at the end of the loop body; \whilecondition
3985 % at the beginning of the loop body.
3986 %
3987 % Exit from middle of loop: \breaklooprepeat
3988 % use this at any place in the loop; in case of a conditional use
3989 % \ifsomething ... \expandafter \breaklooprepeat \fi

```



```

3990 %
3991 % Note that the line ends do not cause spaces in the output.
3992 %
3993 % Technical details:
3994 % The loop body is not executed in a group: the braces are those
3995 % of a token list.
3996 % The 'forvariable' variable is \let to a \count register.
3997
3998
3999
4000 % Auxiliary stuff
4001 \def\bidilooprepeat@csarg#1#2{\expandafter#1\csname#2\endcsname}
4002 \def\bidilooprepeat@csromannumeral#1{\csname #1\romannumeral\bidilooprepeat@depth\endcsname}
4003 \def\bidilooprepeat@csargromannumeral#1#2{\expandafter#1\csname#2\romannumeral\bidilooprepeat@depth\endcsname}
4004
4005 \newcount\bidilooprepeat@depth
4006 \let\endlooprepeat\relax \def\bidicsprotect{}
4007 % Trace switches may later be defined by PAC_utils
4008 \let\bidilooprepeat@traceinit\relax \let\bidilooprepeat@traceexit\relax
4009
4010 % Main repeatloop macro
4011 % - go to next level and allocate unique counter/toks if this is the
4012 %   first time we visit this level
4013 % - setup: gather bounds and termination conditions
4014 % - scoop up body in token list; after the assignment define and
4015 %   execute body
4016 \def\looprepeat#1\doloopbody{\bidilooprepeat@traceinit % exit in \breakrepeatloop
4017   \advance\bidilooprepeat@depth\@ne\relax
4018   \bidilooprepeat@csargromannumeral\ifx\bidilooprepeat@count\relax
4019     \bidilooprepeat@csargromannumeral{\csname newcount\expandafter\endcsname}{\bidilooprepeat@depth}
4020     \bidilooprepeat@csargromannumeral{\csname newtoks\expandafter\endcsname}{\bidilooprepeat@depth}
4021     \bidilooprepeat@csargromannumeral{\csname newtoks\expandafter\endcsname}{\bidilooprepeat@depth}
4022     \bidilooprepeat@csargromannumeral{\csname newtoks\expandafter\endcsname}{\bidilooprepeat@depth}
4023   \fi \bidilooprepeat@zero \def\bidilooprepeat@sign{}\def\bidilooprepeat@comp{>}\bidilooprepeat@comp
4024   \edef\bidilooprepeat@tmp
4025     {\def\bidilooprepeat@csargromannumeral\noexpand{\bidilooprepeat@looprepeat}{\bidilooprepeat@body}%
4026     \afterassignment\bidilooprepeat@dxbody\bidilooprepeat@csromannumeral{\bidilooprepeat@body}%
4027   }
4028 % Define and execute loop body
4029 % This is done with an \edef to construct the actual sequence
4030 \def\bidilooprepeat@dxbody{\bidilooprepeat@csargromannumeral\edef{\bidilooprepeat@body}{%
4031   \bidilooprepeat@csargromannumeral\the{\bidilooprepeat@wtest}%
4032   \noexpand\the\bidilooprepeat@csargromannumeral\noexpand{\bidilooprepeat@toks}%
4033   \bidilooprepeat@csargromannumeral\the{\bidilooprepeat@utest}%
4034   \global\bidilooprepeat@csargromannumeral\advance{\bidilooprepeat@count} by \bidilooprepeat@depth\relax
4035   \noexpand\endlooprepeat
4036   \bidilooprepeat@csargromannumeral\noexpand{\bidilooprepeat@looprepeat}}}%
4037 \bidilooprepeat@csromannumeral{\bidilooprepeat@body}\ignorespaces}
4038
4039 % Stop test
4040 %% In order to stop, issue a
4041 % \breaklooprepeat which scoops up the rest of the body and exits
4042 \def\breaklooprepeat#1\endlooprepeat{\bidilooprepeat@zero\bidilooprepeat@csargromannumeral
4043   \advance\bidilooprepeat@depth\@m\@ne \bidilooprepeat@traceexit

```





```

4044 }
4045
4046
4047 % Setup
4048 % gather bounds and termination conditions
4049 \def\bidilooprepeat@setup#1{%
4050   \begingroup
4051     \def\forvariable##1{%
4052       \edef\bidilooprepeat@tmp{%
4053         \global\let\bidilooprepeat@csarg\noexpand{##1}\bidilooprepeat@csromannumeral{\bidilooprepeat@tmp}%
4054       }
4055       \def\fromvalue##1{\bidilooprepeat@csargromannumeral\global{\bidilooprepeat@count}##1\ignorespaces}%
4056       \def\tovalue##1{%
4057         \edef\bidilooprepeat@tmp{\global\bidilooprepeat@csargromannumeral\noexpand{\bidilooprepeat@tmp}%
4058           {\bidilooprepeat@csargromannumeral\the{\bidilooprepeat@wtest}}%
4059           \noexpand\ifnum\bidilooprepeat@csargromannumeral\noexpand{\bidilooprepeat@count}\bidilooprepeat@wtest%
4060           \noexpand\expandafter \noexpand\breaklooprepeat
4061           \noexpand\fi}\ignorespaces}%
4062       \bidilooprepeat@tmp}%
4063     \def\downtovalue##1{%
4064       \gdef\bidilooprepeat@sign{-}\gdef\bidilooprepeat@comp{<}\tovalue{##1}\ignorespaces}%
4065     \def\bystep##1{\ifnum##1<0 \bidilooprepeat@error{LOOPREPEAT: increment has to be a positive value}%
4066       \bidilooprepeat@csargromannumeral\gdef{\bidilooprepeat@inc}{-##1}\else
4067       \bidilooprepeat@csargromannumeral\gdef{\bidilooprepeat@inc}{##1}\fi\ignorespaces}%
4068     \def\untilcondition##1{%
4069       \edef\bidilooprepeat@tmp{\global\bidilooprepeat@csargromannumeral\noexpand{\bidilooprepeat@tmp}%
4070         {\noexpand##1\relax
4071         \noexpand\expandafter \noexpand\breaklooprepeat \noexpand\fi}\ignorespaces}%
4072       \bidilooprepeat@tmp}%
4073     \def\whilecondition##1{%
4074       \edef\bidilooprepeat@tmp{\global\bidilooprepeat@csargromannumeral\noexpand{\bidilooprepeat@tmp}%
4075         {\noexpand##1\relax \noexpand\else
4076         \noexpand\expandafter \noexpand\breaklooprepeat \noexpand\fi}\ignorespaces}%
4077       \bidilooprepeat@tmp}%
4078     \fromvalue{\@ne}\bystep{\@ne}#1%
4079   \endgroup}
4080 \def\bidilooprepeat@zero
4081   {\bidilooprepeat@csromannumeral{\bidilooprepeat@toks}{}}\bidilooprepeat@csromannumeral{\bidilooprepeat@body}{}
4082   \bidilooprepeat@csargromannumeral\def{\bidilooprepeat@body}{}
4083
4084 %\tracingmacros2
4085 %\newcount\tmpcount % used in some examples below
4086
4087 %\looprepeat \forvariable{i}
4088 %      \bystep{2}
4089 %  \doloopbody {%
4090 %    \ifnum i=13 \expandafter\breaklooprepeat \fi
4091 %    \number i}%
4092 %}%
4093
4094 %\looprepeat \forvariable{iii}
4095 %      \tovalue{8}
4096 %  \doloopbody {}
4097 %After loop: \number iii%

```



```

4098
4099 %\looprepeat \forvariable{i}
4100 %      \fromvalue{10}
4101 %      \bystep{2}
4102 %      \downtovalue{0}
4103 % \doloopbody {\number{i}} }
4104
4105 %\looprepeat \forvariable{x} \whilecondition{\ifnum x<7}
4106 % \doloopbody {\number{x}} }
4107
4108 %\looprepeat \tovalue{3} \doloopbody {Hello world! }
4109
4110 %\looprepeat \forvariable{j}
4111 %      \untilcondition{\tmpcount>j \divide\tmpcount by 37 \noexpand\ifnum\tmpcount=1}
4112 % \doloopbody {\number{j}} }
4113
4114 %\looprepeat \forvariable{i} \bystep{2} \tovalue{10} \doloopbody
4115 % {\looprepeat \forvariable{j} \fromvalue{i} \bystep{3} \tovalue{18}
4116 % \doloopbody {(\number{i}.\number{j}) }
4117 % }
4118
4119 % infinite loop
4120 %\looprepeat \doloopbody {}
4121
4122 \renewcommand{\InputIfFileExists}[2]{%
4123   \begingroup\expandafter\expandafter\expandafter\endgroup
4124   \expandafter\ifx\csname #1-@bidi@alias\endcsname\relax
4125     \expandafter\@secondoftwo
4126   \else
4127     \bidi@replacefile@msg{\csname #1-@bidi@alias\endcsname}{#1}%
4128     \expandafter\@firstoftwo
4129   \fi
4130   {%
4131     \expandafter\InputIfFileExists\expandafter{\csname
4132       #1-@bidi@alias\endcsname}{#2}%
4133   }%
4134   {\IfFileExists{#1}{%
4135     \bidi@load@hook{before}{#1}%
4136     #2\@addtofilelist{#1}%
4137     \@@input \@filef@und
4138     \bidi@load@hook{after}{#1}%
4139   }}%
4140 }
4141
4142 \newcommand*{\bidi@loadwithoptions}{}
4143 \newcommand*{\bidi@loadwithoptions}{}
4144 \let\bidi@loadwithoptions\@loadwithoptions
4145
4146 \renewcommand*{\@loadwithoptions}[3]{%
4147   \begingroup\expandafter\expandafter\expandafter\endgroup
4148   \expandafter\ifx\csname #3.#1-@bidi@aliasname\endcsname\relax
4149     \def\bidi@loadwithoptions{\bidi@loadwithoptions{#1}{#2}{#3}}%
4150   \else
4151     \bidi@replacefile@msg{\csname #3.#1-@bidi@aliasname\endcsname.#1}{#3.#1}%

```



```

4152 \def\bidid@loadwithoptions{%
4153 \loadwithoptions{#1}{#2}{\csname #3.#1-@bidid@aliasname\endcsname}%
4154 }%
4155 \fi
4156 \bidid@loadwithoptions
4157 }
4158
4159 \newcommand*{\bidid@onefilewithoptions}{%
4160 \let\bidid@onefilewithoptions\onefilewithoptions
4161 \def\@onefilewithoptions#1[#2][#3]#4{%
4162 \begingroup\expandafter\expandafter\expandafter\endgroup
4163 \expandafter\ifx\csname #1.#4-@bidid@aliasname\endcsname\relax
4164 \def\bidid@onefilewithoptions{\bidid@onefilewithoptions{#1}}%
4165 \else
4166 \bidid@replacefile@msg{\csname #1.#4-@bidid@aliasname\endcsname.#4}{#1.#4}%
4167 \edef\bidid@onefilewithoptions{%
4168 \noexpand\@onefilewithoptions{\csname #1.#4-@bidid@aliasname\endcsname}}%
4169 \fi
4170 \bidid@onefilewithoptions[#2][#3]{#4}%
4171 \bidid@load@hook{lateafter}{#1.#4}%
4172 }
4173
4174 \newcommand*{\bidid@ReplaceInput}[2]{%
4175 \expandafter\edef\csname #1-@bidid@alias\endcsname{#2}%
4176 }
4177
4178 \newcommand*{\bidid@UnReplaceInput}[1]{%
4179 \ifcsname #1-@bidid@alias\endcsname
4180 \expandafter\let\csname #1-@bidid@alias\endcsname\relax
4181 \fi
4182 }
4183
4184 \newcommand*{\@bidid@replacefilewithext}[3]{%
4185 \expandafter\edef\csname #1.#3-@bidid@aliasname\endcsname{#2}%
4186 }
4187 \newcommand*{\bidid@ReplacePackage}[2]{%
4188 \@bidid@replacefilewithext{#1}{#2}\@pkgextension
4189 }
4190 \newcommand*{\bidid@ReplaceClass}[2]{%
4191 \@bidid@replacefilewithext{#1}{#2}\@clsextension
4192 }
4193 \newcommand*{\@bidid@unreplacefilewithext}[2]{%
4194 \ifcsname #1.#2-@bidid@aliasname\endcsname
4195 \expandafter\let\csname #1.#2-@bidid@aliasname\endcsname\relax
4196 \fi
4197 }
4198 \newcommand*{\bidid@UnReplacePackage}[1]{%
4199 \@bidid@unreplacefilewithext{#1}\@pkgextension
4200 }
4201 \newcommand*{\bidid@UnReplaceClass}[1]{%
4202 \@bidid@unreplacefilewithext{#1}\@clsextension
4203 }
4204 \newcommand*{\bidid@replacefile@msg}[2]{%
4205 \PackageInfo{biditools}{inputing `#1' instead of `#2'}%

```



```

4206 }
4207
4208 \newcommand*{\bidi@load@hook}[2]{%
4209   \@ifundefined{#2-@#1}{}%
4210   \@nameuse{#2-@#1}%
4211   \expandafter\let\csname #2-@#1\endcsname=\relax}}
4212 \newcommand*{\bidi@set@load@hook}[2]{%
4213   \@ifundefined{#2-@#1}{\@namedef{#2-@#1}{}}}%
4214   \expandafter\g@addto@macro\csname #2-@#1\endcsname}
4215 \newcommand*{\bidi@BeforeFile}{\bidi@set@load@hook{before}}
4216 \newcommand*{\bidi@AfterFile}{\bidi@set@load@hook{after}}
4217 \newcommand*{\bidi@BeforeClass}[1]{%
4218   \bidi@set@load@hook{before}{#1.\@clsextension}}
4219 \newcommand*{\bidi@AfterClass}{%
4220   \ifstar {\@s@bidi@AfterClass}{%
4221     \ifnextchar +\@@bidi@AfterClass{%
4222       \ifnextchar !\@@@bidi@AfterClass\@bidi@AfterClass
4223     }%
4224   }%
4225 }
4226
4227 \newcommand*{\@@@bidi@AfterClass}[2]{%
4228   \begingroup\ifx\csname #2.\@clsextension-h@@k\endcsname\relax
4229     \aftergroup\@s@bidi@AfterClass
4230   \else
4231     \aftergroup\bidi@AfterAtEndOfClass
4232   \fi
4233   \endgroup{#2}%
4234 }
4235
4236 \newcommand*{\bidi@AfterAtEndOfClass}[1]{%
4237   \bidi@set@load@hook{lateafter}{#1.\@clsextension}}
4238 \newcommand*{\@@@bidi@AfterClass}[2]{%
4239   \begingroup
4240     \expandafter\ifx\csname #2.\@clsextension-h@@k\endcsname\relax
4241       \aftergroup\@s@bidi@AfterClass
4242     \else
4243       \aftergroup\@bidi@AfterClass
4244     \fi
4245   \endgroup{#2}%
4246 }
4247
4248 \newcommand*{\@bidi@AfterClass}[1]{%
4249   \bidi@set@load@hook{after}{#1.\@clsextension}}
4250 \newcommand*{\@s@bidi@AfterClass}[1]{%
4251   \begingroup
4252     \@ifclassloaded{#1}{%
4253       \aftergroup\@secondoftwo
4254     }{%
4255       \aftergroup\@bidi@AfterClass
4256     }%
4257   \endgroup
4258   {#1}%
4259 }

```



```

4260
4261
4262 \newcommand*{\bidi@BeforePackage}[1]{%
4263   \bidi@set@load@hook{before}{#1.\@pkgextension}}
4264 \newcommand*{\bidi@AfterPackage}{%
4265   \ifstar {\@s@bidi@AfterPackage}{%
4266     \ifnextchar +\@@bidi@AfterPackage{%
4267       \ifnextchar !\@@@bidi@AfterPackage\bidi@AfterPackage
4268     }%
4269   }%
4270 }
4271 \newcommand*{\@@@bidi@AfterPackage}[2]{%
4272   \begingroup\ifx\cname #2.\@pkgextension-h@@k\endcname\relax
4273     \aftergroup\@s@bidi@AfterPackage
4274   \else
4275     \aftergroup\bidi@AfterAtEndOfPackage
4276   \fi
4277   \endgroup{#2}%
4278 }
4279 \newcommand*{\bidi@AfterAtEndOfPackage}[1]{%
4280   \bidi@set@load@hook{lateafter}{#1.\@pkgextension}}
4281 \newcommand*{\@@@bidi@AfterPackage}[2]{%
4282   \begingroup
4283     \expandafter\ifx\cname #2.\@pkgextension-h@@k\endcname\relax
4284     \aftergroup\@s@bidi@AfterPackage
4285   \else
4286     \aftergroup\bidi@AfterPackage
4287   \fi
4288   \endgroup{#2}%
4289 }
4290 \newcommand*{\@bidi@AfterPackage}[1]{%
4291   \bidi@set@load@hook{after}{#1.\@pkgextension}}
4292 \newcommand*{\@s@bidi@AfterPackage}[1]{%
4293   \begingroup
4294     \ifpackageloaded{#1}{%
4295       \aftergroup\@secondoftwo
4296     }{%
4297       \aftergroup\bidi@AfterPackage
4298     }%
4299   \endgroup
4300   {#1}%
4301 }
4302
4303 \newcommand*{\bidi@excludedpackages}{%
4304   \let\bidi@excludedpackages\@empty
4305 \newcommand*{\bidi@saves@RequirePackage}{%
4306 \newcommand*{\bidi@PreventPackageFromLoading}{%
4307   \ifstar{\@bidi@PreventPackageFromLoading\PackageInfo}{%
4308     {\@bidi@PreventPackageFromLoading\PackageWarning}%
4309 }
4310 \newcommand*{\@bidi@PreventPackageFromLoading}[1]{%
4311   \ifnextchar [%]
4312     {\@@@bidi@PreventPackageFromLoading#1}{\@@bidi@PreventPackageFromLoading#1 []}%
4313 }

```



```

4314 \newcommand*{\@@bidi@PreventPackageFromLoading}{%
4315
4316 \def\@@bidi@PreventPackageFromLoading#1[#2]#3{%
4317   \edef\reserved@b{\zap@space#3 \@empty}%
4318   \ifx \reserved@b\@empty
4319     #1{biditools}{%
4320       \string\bidi@PreventPackageFromLoading\space with empty packages\MessageBreak
4321       argument ignored%
4322     }%
4323   \else
4324     \ifx\bidi@excludedpackages\@empty
4325       \let\bidi@saved@RequirePackage\RequirePackage
4326       \let\RequirePackage\bidi@RequirePackage
4327       \def\reserved@a##1##{%
4328         \@latex@error
4329         {\noexpand \usepackage before \string\documentclass}%
4330         {\noexpand \usepackage may only appear in the document
4331          preamble, i.e.,\MessageBreak
4332          between \noexpand\documentclass and
4333          \string\begin{document}.}%
4334         \@gobble}%
4335       \ifx\reserved@a\usepackage\else
4336         \ifx\usepackage\bidi@saved@RequirePackage\else
4337           \PackageWarning{biditools}{%
4338             Maybe serious problem: unexpected definition of\MessageBreak
4339             \string\usepackage
4340           }%
4341         \fi
4342         \let\usepackage\RequirePackage
4343       \fi
4344     \fi
4345     \expandafter\@for \expandafter\reserved@a\expandafter:\expandafter=%
4346     \reserved@b\do {%
4347       \ifx\reserved@a\@empty
4348         #1{biditools}{%
4349           empty package argument for
4350           \string\bidi@PreventPackageFromLoading\MessageBreak
4351           ignored%
4352         }%
4353       \else
4354         \expandafter\@ifpackageloaded\expandafter{\reserved@a}{%
4355           #1{biditools}{%
4356             package '\reserved@a' already loaded.\MessageBreak
4357             Cannot prevent it from being loaded%
4358           }%
4359         }{%
4360           \edef\bidi@excludedpackages{\bidi@excludedpackages,%
4361             \reserved@a}%
4362           \if\relax\detokenize{#2}\relax\else
4363             \ifundefined{bidi@exclude@package@\reserved@a @do}{%
4364               \@namedef{bidi@exclude@package@\reserved@a @do}{}%
4365             }{}%
4366           \expandafter\def
4367           \csname bidi@exclude@package@\reserved@a

```



```

4368             @do\expandafter\expandafter\expandafter\endcsname
4369             \expandafter\expandafter\expandafter{%
4370             \csname bidi@exclude@package@\reserved@a @do\endcsname
4371             #2%
4372             }%
4373         \fi
4374     }%
4375 \fi
4376 }%
4377 \ifx\bidi@excludedpackages\@empty
4378 \bidi@ResetPreventPackageFromLoading
4379 \fi
4380 \fi
4381 }
4382
4383 \@onlypreamble\bidi@PreventPackageFromLoading
4384 \newcommand*{\bidi@ResetPreventPackageFromLoading}{%
4385 \let\bidi@excludedpackages\@empty
4386 \ifx\RequirePackage\bidi@RequirePackage
4387 \ifx\usepackage\RequirePackage
4388 \let\usepackage\bidi@saved@RequirePackage
4389 \fi
4390 \let\RequirePackage\bidi@saved@RequirePackage
4391 \fi
4392 }
4393 \@onlypreamble\bidi@ResetPreventPackageFromLoading
4394 \newcommand*{\bidi@StorePreventPackageFromLoading}[1]{%
4395 \let#1\bidi@excludedpackages
4396 }
4397 \@onlypreamble\bidi@StorePreventPackageFromLoading
4398 \newcommand*{\bidi@UnPreventPackageFromLoading}{%
4399 \@ifstar {\@tempwatrue\bidi@UnPreventPackageFromLoading}%
4400 {\@tempwafalse\bidi@UnPreventPackageFromLoading}%
4401 }
4402
4403 \newcommand*{\@bidi@UnPreventPackageFromLoading}[1]{%
4404 \edef\reserved@b{\zap@space#1 \@empty}%
4405 \if@tempwa
4406 \for\reserved@a=\reserved@b\do {%
4407 \ifx\reserved@a\@empty \else
4408 \ifcsname bidi@exclude@package@\reserved@a @do\endcsname
4409 \expandafter\let
4410 \csname bidi@exclude@package@\reserved@a @do\endcsname
4411 \undefined
4412 \fi
4413 \fi
4414 }%
4415 \fi
4416 \ifcsname bidi@excludedpackages\endcsname
4417 \let\reserved@a\bidi@excludedpackages
4418 \let\bidi@excludedpackages\@empty
4419 \expandafter\for\expandafter\reserved@c
4420 \expandafter:\expandafter=\reserved@a
4421 \do{%

```



```

4422 \ifx\reserved@c\@empty\else
4423 \expandtwoargs\in{,\reserved@c,}{,\reserved@b,}%
4424 \ifin@
4425 \else
4426 \edef\bidix@excludedpackages{%
4427 \bidix@excludedpackages,\reserved@c
4428 }%
4429 \fi
4430 \fi
4431 }%
4432 \ifx\bidix@excludedpackages\@empty\bidix@ResetPreventPackageFromLoading\fi
4433 \fi
4434 }
4435
4436
4437 \newcommand*{\bidix@RequirePackage}[2][\]{%
4438 \let\reserved@c\@empty
4439 \let\reserved@d\@empty
4440 \edef\reserved@b{\zap@space#2 \@empty}%
4441 \expandafter\@for\expandafter\reserved@b\expandafter:\expandafter=\reserved@b
4442 \do {%
4443 \begingroup
4444 \@tempswatrue
4445 \@for\reserved@a:=\bidix@excludedpackages\do {%
4446 \ifx\reserved@a\reserved@b
4447 \@tempswafalse
4448 \fi
4449 }%
4450 \if@tempswa
4451 \xdef\reserved@c{\reserved@c,\reserved@b}%
4452 \else
4453 \ifx\reserved@b\@empty\else
4454 \PackageInfo{biditools}{Excluding package `'\reserved@b'\MessageBreak
4455 from loading}%
4456 \@ifundefined{bidix@exclude@package@\reserved@b @do}{%
4457 }{%
4458 \expandafter\g@addto@macro\expandafter\reserved@d
4459 \csname bidix@exclude@package@\reserved@b @do\endcsname
4460 }%
4461 \fi
4462 \fi
4463 \endgroup
4464 }%
4465 \ifx\reserved@c\@empty
4466 \let\reserved@a\bidix@gobbleopt
4467 \else
4468 \edef\reserved@a{\noexpand\bidix@saves@RequirePackage[#1]{%
4469 \expandafter\@gobble\reserved@c\@empty}}%
4470 \fi
4471 \expandafter\reserved@d
4472 \reserved@a
4473 }
4474
4475 \newcommand{\bidix@gobbleopt}[1][\]{%

```





```

4476 \AtEndDocument{%
4477   \let\bidisaved@checkend=\@checkend
4478   \renewcommand*{\@checkend}[1]{%
4479     \def\reserved@a{#1}\def\reserved@b{document}%
4480     \bidisaved@checkend{#1}%
4481     \ifx\reserved@a\reserved@b
4482       \let\bidisaved@clearpage=\clearpage
4483       \renewcommand*{\clearpage}{\bidisaved@clearpage
4484         \bidi@hook@bcma
4485         \bidi@restore@newpage
4486         \let\clearpage=\bidisaved@clearpage}%
4487     \fi%
4488     \let\bidisaved@dofilelist\@dofilelist
4489     \def\@dofilelist{%
4490       \bidi@hook@acma
4491       \let\@dofilelist\bidisaved@dofilelist
4492       \bidisaved@dofilelist
4493     }%
4494   }%
4495 }
4496
4497
4498 \newcommand*{\bidisaved@checkend}{}
4499 \newcommand*{\bidisaved@dofilelist}{}
4500 \newcommand*{\bidi@redefine@newpage}{%
4501   \let\bidisaved@newpage\newpage
4502   \def\bidi@restore@newpage{%
4503     \renewcommand*{\newpage}{%
4504       \PackageWarningNoLine{%
4505         biditools%
4506       }{%
4507         \string\newpage\space at main aux file!\MessageBreak
4508         You have output material at the main aux file.\MessageBreak
4509         Note, that the \string\bidi@BeforeClosingMainAux\space commands\MessageBreak
4510         are processed before the output from aux file%
4511       }%
4512       \let\newpage\bidisaved@newpage
4513       \newpage
4514     }%
4515   }%
4516   \renewcommand*{\newpage}{%
4517     \PackageError{%
4518       biditools%
4519     }{%
4520       \string\newpage\space at \string\bidi@BeforeClosingMainAux
4521     }{%
4522       You should never use \string\newpage\space or
4523       \string\clear(double)page or other output material at the\MessageBreak
4524       argument of \string\bidi@BeforeClosingMainAux!\MessageBreak
4525       If you'll continue, the \string\newpage\space will be ignored to
4526       avoid corruption of\MessageBreak
4527       every prior use of \string\bidi@BeforeClosingMainAux.
4528     }%
4529   }%

```



```

4530 }
4531
4532 \newcommand*{\bidi@restore@newpage}{}
4533 \newcommand*{\bidi@hook@bcma}{}
4534 \newcommand*{\bidi@hook@acma}{}
4535 \newcommand*{\bidi@BeforeClosingMainAux}{%
4536   \ifx\bidi@hook@bcma\@empty
4537     \gdef\bidi@hook@bcma{%
4538       \renewcommand*{\bidi@BeforeClosingMainAux}[1]{####1}%
4539       \let\protected@write\bidi@protected@immediate@write
4540       \bidi@redefine@newpage
4541     }%
4542   \fi
4543   \g@addto@macro\bidi@hook@bcma%
4544 }
4545
4546 \newcommand*{\bidi@AfterReadingMainAux}{%
4547   \ifx\bidi@hook@acma\@empty
4548     \gdef\bidi@hook@acma{%
4549       \renewcommand*{\bidi@AfterReadingMainAux}[1]{####1}%
4550       \let\protected@write\bidi@protected@immediate@write
4551     }%
4552   \fi
4553   \g@addto@macro\bidi@hook@acma%
4554 }
4555
4556 \long\def\bidi@protected@immediate@write#1#2#3{%
4557   \begingroup
4558     #2%
4559     \let\protect\@unexpandable@protect
4560     \edef\reserved@a{\immediate\write#1{#3}}%
4561     \reserved@a
4562   \endgroup
4563   \if@nobreak\ifvmode\nobreak\fi\fi
4564 }
4565
4566 \def\bidi@patch@counter{0}%
4567 \if@bidi@csundef{numexpr}{%
4568   \def\bidi@patch@stepcounter{%
4569     \begingroup
4570       \count@\bidi@patch@counter\relax
4571       \advance\count@\@ne\relax
4572     \edef\x{\endgroup
4573       \noexpand\def\noexpand\bidi@patch@counter{\the\count@}%
4574     }%
4575     \x
4576   }%
4577 }{%
4578   \def\bidi@patch@stepcounter{%
4579     \edef\bidi@patch@counter{%
4580       \the\numexpr\bidi@patch@counter+\@ne\relax
4581     }%
4582   }%
4583 }

```



```

4584 \def\bidipatch@list{}
4585 \def\bidipatch@Add{%
4586   \bidipatch@appto\bidipatch@list
4587 }
4588 \def\bidipatch@AfterPackage#1{%
4589   \@ifpackageloaded{#1}{%
4590     \@firstofone
4591   }{%
4592     \@bidipatch@AfterPackage{#1}%
4593   }%
4594 }
4595 \def\@bidipatch@AfterPackage#1{%
4596   \edef\bidipatch@temp{#1}%
4597   \bidipatch@stepcounter
4598   \expandafter\bidipatch@@AfterPackage
4599   \csname @bidipatch@\bidipatch@counter\expandafter\endcsname{%
4600     \bidipatch@temp
4601   }%
4602 }
4603 \def\bidipatch@@AfterPackage#1#2#3{%
4604   \begingroup
4605     \toks@{#3}%
4606     \xdef\bidipatch@gtemp{%
4607       \noexpand\@ifpackageloaded{#2}{%
4608         \noexpand\let\noexpand#1\noexpand\relax
4609         \the\toks@
4610       }{%
4611       }%
4612     }
4613     \endgroup
4614     \let#1\bidipatch@gtemp
4615     \bidipatch@try{\bidipatch@AfterPackage}{#2}#1%
4616 }
4617
4618 \def\bidipatch@try#1#2#3{%
4619   \if@bidipatch@csundef{#1}{%
4620     \csname #1\endcsname{#2}{#3}%
4621   }%
4622 }
4623
4624 \AtBeginDocument{\bidipatch@list}
4625
4626 \bidipatch@AtEndPreamble{\bidipatch@list}%
4627
4628 \bidipatch@AfterEndPreamble{%
4629   \let\bidipatch@OrgIfPackageLoaded\@ifpackageloaded
4630   \let\bidipatch@OrgIfPackageLater\@ifpackagelater
4631   \let\bidipatch@OrgIfClassLoaded\@ifclassloaded
4632   \let\bidipatch@OrgIfClassLater\@ifclasslater
4633   \bidipatch@list
4634   \let\@ifpackageloaded\bidipatch@OrgIfPackageLoaded
4635   \let\@ifpackagelater\bidipatch@OrgIfPackageLater
4636   \let\@ifclassloaded\bidipatch@OrgIfClassLoaded
4637   \let\@ifclasslater\bidipatch@OrgIfClassLater

```



4638 }%

## 22 File `bidituftefloat.sty`

```
4639 \NeedsTeXFormat{LaTeX2e}
4640 \ProvidesPackage{bidituftefloat}[2017/05/19 v0.2
4641 bidi implementation of tufte float]
4642 \RequirePackage{xifthen}
4643 \newcommand{\@bidituftefloat@pkgname}{bidituftefloat}
4644 \newcommand{\bidituftefloatError}[2]{\PackageError{\@bidituftefloat@pkgname}{#1}{#2}}
4645 \newcommand{\bidituftefloatDebugInfoNL}[1]{\ifthenelse{\boolean{@bidituftefloat@debug}}{\bid
4646 \newcommand{\bidituftefloatInfoNL}[1]{\PackageInfo{\@bidituftefloat@pkgname}{#1\@gobble}}
4647 \newboolean{@bidituftefloat@reversegeometry}
4648 \setboolean{@bidituftefloat@reversegeometry}{false}
4649 \DeclareOption{reversegeometry}{\setboolean{@bidituftefloat@reversegeometry}{true}}
4650 \newboolean{@bidituftefloat@a4paper}
4651 \DeclareOption{a4paper}{\setboolean{@bidituftefloat@a4paper}{true}}
4652 \newboolean{@bidituftefloat@b5paper}
4653 \DeclareOption{b5paper}{\setboolean{@bidituftefloat@b5paper}{true}}
4654 \newboolean{@bidituftefloat@symmetric}
4655 \newboolean{@bidituftefloat@twoside}
4656 \DeclareOption{twoside}{%
4657 \@twoside true \mparswitch true%
4658 \setboolean{@bidituftefloat@twoside}{true}%
4659 \setboolean{@bidituftefloat@symmetric}{true}%
4660 }
4661 \DeclareOption{oneside}{%
4662 \@twoside false \mparswitch false%
4663 \setboolean{@bidituftefloat@twoside}{false}%
4664 \setboolean{@bidituftefloat@symmetric}{false}%
4665 }
4666 \@ifclassloaded{book}{\ExecuteOptions{twoside}}{}
4667 \newboolean{@bidituftefloat@debug}
4668 \newcommand*{\@bidituftefloat@caption@justification}{\@bidituftefloat@justification@autodete
4669 \ProcessOptions
4670 %% Globally sets the length
4671 \newcommand*{\gsetlength}[2]{%
4672 \setlength{#1}{#2}%
4673 \global#1=#1\relax%
4674 }
4675
4676 %% Set the font sizes and baselines to match bidituftefloat's books
4677 \renewcommand\normalsize{%
4678 \setfontsize\normalsize\@xpt{14}%
4679 \abovedisplayskip 10\p@ \@plus2\p@ \@minus5\p@
4680 \abovedisplayshortskip \z@ \@plus3\p@
4681 \belowdisplayshortskip 6\p@ \@plus3\p@ \@minus3\p@
4682 \belowdisplayskip \abovedisplayskip
4683 \let\@listi\@listI}
4684 \normalbaselineskip=14pt
4685 \normalsize
4686 \renewcommand\footnotesize{%
4687 \setfontsize\footnotesize\@viipt{10}%
4688 \abovedisplayskip 6\p@ \@plus2\p@ \@minus4\p@
```



```

4689 \abovedisplayskip \z@ \@plus\p@
4690 \belowdisplayskip 3\p@ \@plus\p@ \@minus2\p@
4691 \def\@listi{\leftmargin\leftmargini
4692 \topsep 3\p@ \@plus\p@ \@minus\p@
4693 \parsep 2\p@ \@plus\p@ \@minus\p@
4694 \itemsep \parsep}%
4695 \belowdisplayskip \abovedisplayskip
4696 }
4697 %% Paragraph indentation and separation for marginal text
4698 \newcommand{\@bittuftefloat@margin@par}{%
4699 \setlength{\RaggedRightParindent}{0.5pc}%
4700 \setlength{\JustifyingParindent}{0.5pc}%
4701 \setlength{\parindent}{0.5pc}%
4702 \setlength{\parskip}{0pt}%
4703 }
4704 \RequirePackage{ragged2e}
4705 \ifthenelse{\boolean{@bittuftefloat@reversegeometry}}{%
4706 \RequirePackage[letterpaper,right=1in,top=1in,headsep=2\baselineskip,textwidth=26pc,marginpar
4707 \ifthenelse{\boolean{@bittuftefloat@a4paper}}
4708 {\geometry{a4paper,right=24.8mm,top=27.4mm,headsep=2\baselineskip,textwidth=107mm,marginpar
4709 {}
4710 \ifthenelse{\boolean{@bittuftefloat@b5paper}}
4711 {\geometry{paperwidth=176mm,paperheight=250mm,right=14.66mm,top=13.88mm,textwidth=102.66mm
4712 {}}%
4713 \RequirePackage[letterpaper,left=1in,top=1in,headsep=2\baselineskip,textwidth=26pc,marginpar
4714 \ifthenelse{\boolean{@bittuftefloat@a4paper}}
4715 {\geometry{a4paper,left=24.8mm,top=27.4mm,headsep=2\baselineskip,textwidth=107mm,marginpar
4716 {}
4717 \ifthenelse{\boolean{@bittuftefloat@b5paper}}
4718 {\geometry{paperwidth=176mm,paperheight=250mm,left=14.66mm,top=13.88mm,textwidth=102.66mm,
4719 {}
4720 \ifthenelse{\boolean{@bittuftefloat@symmetric}}
4721 {}
4722 {\geometry{asymmetric}}% forces internal LaTeX `twoside'
4723 \setlength{\marginparpush}{10pt}
4724 %% Font for margin items
4725 \newcommand{\@bittuftefloat@marginfont}{\normalfont\footnotesize}
4726 \newcommand*{\@bittuftefloat@captionfont}{\@bittuftefloat@marginfont}
4727 \newcommand*{\setcaptionfont}[1]{\renewcommand*{\@bittuftefloat@captionfont}{#1}}
4728 \newcommand{\@bittuftefloat@justification}{\justifying}%
4729 \setlength{\abovedisplayskip}{6pt plus 2pt minus 4pt}
4730 \setlength{\belowdisplayskip}{6pt plus 2pt minus 4pt}
4731 \newboolean{@bittuftefloat@changepage}
4732 \IfFileExists{changepage.sty}{%
4733 \bittuftefloatDebugInfoNL{Found changepage.sty}
4734 \RequirePackage[strict]{changepage}
4735 \setboolean{@bittuftefloat@changepage}{true}
4736 }{%
4737 \bittuftefloatDebugInfoNL{Found chngpage.sty}
4738 \RequirePackage[strict]{chngpage}
4739 \setboolean{@bittuftefloat@changepage}{false}
4740 }
4741 \newboolean{@bittuftefloat@odd@page}
4742 \setboolean{@bittuftefloat@odd@page}{true}

```



```

4743 \newcommand*{\@biditytfloat@checkoddpages}{%
4744 \checkoddpages%
4745 \ifthenelse{\boolean{@biditytfloat@changepages}}{%
4746 \ifoddpages%
4747 \setboolean{@biditytfloat@oddpages}{true}%
4748 \else%
4749 \setboolean{@biditytfloat@oddpages}{false}%
4750 \fi%
4751 }{%
4752 \ifcpoddpages%
4753 \setboolean{@biditytfloat@oddpages}{true}%
4754 \else%
4755 \setboolean{@biditytfloat@oddpages}{false}%
4756 \fi%
4757 }%
4758 }
4759 \newlength{\@biditytfloat@overhang}% used by the fullwidth environment and the running head
4760 \newlength{\@biditytfloat@fullwidth}
4761 \newlength{\@biditytfloat@caption@fill}
4762 \newcommand{\@biditytfloatRecalculate}{%
4763 \setlength{\@biditytfloat@overhang}{\marginparwidth}
4764 \addtolength{\@biditytfloat@overhang}{\marginparsep}
4765
4766 \setlength{\@biditytfloat@fullwidth}{\textwidth}
4767 \addtolength{\@biditytfloat@fullwidth}{\marginparsep}
4768 \addtolength{\@biditytfloat@fullwidth}{\marginparwidth}
4769
4770 \setlength{\@biditytfloat@caption@fill}{\textwidth}
4771 \addtolength{\@biditytfloat@caption@fill}{\marginparsep}
4772 }
4773 \AtBeginDocument{\@biditytfloatRecalculate}
4774 \RequirePackage{optparams}% provides multiple optional arguments for commands
4775 \RequirePackage{placeins}
4776 \newsavebox{\@biditytfloat@margin@floatbox}
4777 \newenvironment{@biditytfloat@margin@float}[2][-1.2ex]%
4778 {\FloatBarrier% process all floats before this point so the figure/table numbers stay in o
4779 \begin{lrbox}{\@biditytfloat@margin@floatbox}%
4780 \begin{minipage}{\marginparwidth}%
4781 \@biditytfloat@caption@font%
4782 \def\@capttype{#2}%
4783 \hbox{\vspace*{#1}%
4784 \@biditytfloat@caption@justification%
4785 \@biditytfloat@margin@par%
4786 \noindent%
4787 }
4788 {\end{minipage}%
4789 \end{lrbox}%
4790 \marginpar{\usebox{\@biditytfloat@margin@floatbox}}%
4791 }
4792 \newenvironment{marginfigure}[1][-1.2ex]%
4793 {\begin{@biditytfloat@margin@float}[#1]{figure}}
4794 {\end{@biditytfloat@margin@float}}
4795 \newenvironment{margintable}[1][-1.2ex]%
4796 {\begin{@biditytfloat@margin@float}[#1]{table}}

```



```

4797   {\end{@bidituftefloat@margin@float}}
4798 \newcommand*{\@bidituftefloat@justification@autodetect}{\justifying}%
4799
4800 \newcommand{\@bidituftefloat@float@debug@info}{}% contains debug info generated as the float
4801 \newcommand{\@bidituftefloat@float@debug}[1]{% adds debug info to the queue for output
4802   \ifthenelse{\equal{\@bidituftefloat@float@debug@info}{}}{%
4803     {\def\@bidituftefloat@float@debug@info{#1}}%
4804     {\g@addto@macro\@bidituftefloat@float@debug@info{\MessageBreak#1}}%
4805   }
4806 \newcommand{\floatalignment}{x}% holds the current float alignment (t, b, h, p)
4807 \newcommand{\setfloatalignment}[1]{\global\def\floatalignment{#1}\@bidituftefloat@float@debug{
4808 \newboolean{@bidituftefloat@float@recto}
4809 \newcommand{\forcerectoofloat}{\GlobalSetBoolean{@bidituftefloat@float@recto}{true}\@bidituf
4810 \newcommand{\forceversoofloat}{\GlobalSetBoolean{@bidituftefloat@float@recto}{false}\@bidituf
4811 \newsavebox{\@bidituftefloat@figure@box}
4812 \newsavebox{\@bidituftefloat@caption@box}
4813 \let\@bidituftefloat@orig@float\@float
4814 \let\@bidituftefloat@orig@endfloat\endfloat
4815 \newlength{\@bidituftefloat@caption@vertical@offset}
4816 \setlength{\@bidituftefloat@caption@vertical@offset}{0pt}
4817 \newcommand{\@bidituftefloat@stored@shortcaption}{%
4818 \newcommand{\@bidituftefloat@stored@caption}{%
4819 \newcommand{\@bidituftefloat@stored@label}{%
4820 \long\def\@bidituftefloat@caption[#1][#2]#3{%
4821   \ifthenelse{\isempty{#1}}{%
4822     {\gdef\@bidituftefloat@stored@shortcaption{#3}}%
4823     {\gdef\@bidituftefloat@stored@shortcaption{#1}}%
4824     \gsetlength{\@bidituftefloat@caption@vertical@offset}{-#2}% we want a positive offset to l
4825     \gdef\@bidituftefloat@stored@caption{#3}%
4826   }
4827 \newcommand{\@bidituftefloat@label}[1]{%
4828   \gdef\@bidituftefloat@stored@label{#1}%
4829 }
4830 \newcommand{\@bidituftefloat@fps}{%
4831 \newboolean{@bidituftefloat@float@star}
4832 \newlength{\@bidituftefloat@float@contents@width}
4833 \newenvironment{@bidituftefloat@float}[3][htbp]{%
4834   {% begin @bidituftefloat@float
4835     % Should this float be full-width or just text-width?
4836     \ifthenelse{\equal{#3}{star}}{%
4837       {\GlobalSetBoolean{@bidituftefloat@float@star}{true}}%
4838       {\GlobalSetBoolean{@bidituftefloat@float@star}{false}}%
4839     % Check page side (recto/verso) and store detected value -- can be overridden in environm
4840     \@bidituftefloat@checkoddpage%
4841     \ifthenelse{\boolean{@bidituftefloat@odd@page}}{%
4842       {\GlobalSetBoolean{@bidituftefloat@float@recto}{true}\@bidituftefloat@float@debug{Dete
4843       {\GlobalSetBoolean{@bidituftefloat@float@recto}{false}\@bidituftefloat@float@debug{Det
4844     % If the float placement specifier is 'b' and only 'b', then bottom-align the mini-pages
4845     \renewcommand{\@bidituftefloat@fps}{#1}%
4846     \@bidituftefloat@float@debug{Allowed positions: [ #1 ]}%
4847     \ifthenelse{\equal{#1}{b}\OR\equal{#1}{B}}{%
4848       {\renewcommand{\floatalignment}{b}\@bidituftefloat@float@debug{Presumed position: [bot
4849       {\renewcommand{\floatalignment}{t}\@bidituftefloat@float@debug{Presumed position: [top
4850     % Capture the contents of the \caption and \label commands to use later

```



```

4851 \global\let\@biditytfloat@orig@caption\caption%
4852 \global\let\@biditytfloat@orig@label\label%
4853 \renewcommand{\caption}{\optparams{\@biditytfloat@caption}{[] [Opt]}}%
4854 \renewcommand{\label}[1]{\@biditytfloat@label{##1}}%
4855 % Handle subfigure package compatibility
4856 \ifthenelse{\boolean{\@biditytfloat@packages@subfigure}}{%
4857   \bidi@patchcmd{\subfigure}{%
4858     \let\subfig@oldlabel=\label
4859   }{%
4860     \let\subfig@oldlabel=\@biditytfloat@orig@label
4861   }
4862 }{}
4863 {}
4864 \let\subtable=\subfigure
4865 }{}% subfigure package is not loaded
4866 \@biditytfloat@orig@float{#2}[#1]%
4867 \ifthenelse{\boolean{\@biditytfloat@float@star}}{%
4868   {\setlength{\@biditytfloat@float@contents@width}{\@biditytfloat@fullwidth}}%
4869   {\setlength{\@biditytfloat@float@contents@width}{\textwidth}}%
4870 \begin{lrbox}{\@biditytfloat@figure@box}%
4871   \begin{minipage}[\floatalignment]{\@biditytfloat@float@contents@width}\hbox{%
4872 }{% end \@biditytfloat@float
4873   \par\hbox{}\vspace{-\baselineskip}\ifthenelse{\prevdepth>0}{\vspace{-\prevdepth}}{}% a
4874   \end{minipage}%
4875 \end{lrbox}%
4876 % build the caption box
4877 \begin{lrbox}{\@biditytfloat@caption@box}%
4878   \begin{minipage}[\floatalignment]{\marginparwidth}\hbox{%
4879     \ifthenelse{\NOT\equal{\@biditytfloat@stored@caption}{}}{\@biditytfloat@orig@cap
4880     \ifthenelse{\NOT\equal{\@biditytfloat@stored@label}{}}{\@biditytfloat@orig@label
4881     \par\vspace{-\prevdepth}}% TODO: DOUBLE-CHECK FOR SAFETY
4882   \end{minipage}%
4883 \end{lrbox}%
4884 % now typeset the stored boxes
4885 \begin{fullwidth}%
4886   \begin{minipage}[\floatalignment]{\linewidth}%
4887     \ifthenelse{\boolean{\@biditytfloat@float@star}}{%
4888       {\@biditytfloat@float@fullwidth[\@biditytfloat@caption@vertical@offset]{\@bidi
4889       {\@biditytfloat@float@textwidth[\@biditytfloat@caption@vertical@offset]{\@bidi
4890     \end{minipage}%
4891 \end{fullwidth}%
4892 \@biditytfloat@orig@endfloat% end original LaTeX float environment
4893 % output debug info
4894 \ifthenelse{\boolean{\@biditytfloat@debug}}{%
4895   \typeout{^^J^^J----- biditytfloat package float information -----}%
4896   \ifthenelse{\equal{\@biditytfloat@stored@label}{}}{%
4897     {\typeout{Warning: Float unlabeled!}}%
4898     {\typeout{Float label: [\@biditytfloat@stored@label]}}%
4899   \typeout{Page number: [\thepage]}%
4900   \def\MessageBreak{^^J}%
4901   \typeout{\@biditytfloat@float@debug@info}%
4902   \ifthenelse{\boolean{\@biditytfloat@symmetric}}{%
4903     {\typeout{Symmetric: [true]}}%
4904     {\typeout{Symmetric: [false]}}%

```





```

4905 \typeout{-----^^J^^J}%
4906 }{}%
4907 % reset commands and temp boxes and captions
4908 \gdef\@biditytfloat@float@debug@info{}%
4909 \let\caption\@biditytfloat@orig@caption%
4910 \let\label\@biditytfloat@orig@label%
4911 \begin{lrbox}{\@biditytfloat@figure@box}\hbox{}\end{lrbox}%
4912 \begin{lrbox}{\@biditytfloat@caption@box}\hbox{}\end{lrbox}%
4913 \gdef\@biditytfloat@stored@shortcaption{}%
4914 \gdef\@biditytfloat@stored@caption{}%
4915 \gdef\@biditytfloat@stored@label{}%
4916 \gsetlength{\@biditytfloat@caption@vertical@offset}{0pt}% reset caption offset
4917 }
4918 \newcommand{\@biditytfloat@float@textwidth}[3][Opt]{%
4919 \ifthenelse{NOT\boolean{@biditytfloat@symmetric}}OR\boolean{@biditytfloat@float@recto}
4920 % asymmetric or page is odd, so caption is on the right
4921 \hbox{%
4922 \usebox{#2}%
4923 \hspace{\marginparsep}%
4924 \smash{\raisebox{#1}{\usebox{#3}}}%
4925 }
4926 \@biditytfloat@float@debug{Caption position: [right]}%
4927 }{% symmetric pages and page is even, so caption is on the left
4928 \hbox{%
4929 \smash{\raisebox{#1}{\usebox{#3}}}%
4930 \hspace{\marginparsep}%
4931 \usebox{#2}%
4932 }
4933 \@biditytfloat@float@debug{Caption position: [left]}%
4934 }%
4935 }
4936 \newcommand{\@biditytfloat@float@fullwidth}[3][Opt]{%
4937 \ifthenelse{\equal{\floatalignment}{b}}%
4938 {% place caption above figure
4939 \ifthenelse{NOT\boolean{@biditytfloat@symmetric}}OR\boolean{@biditytfloat@float@recto}
4940 {\hfill\smash{\raisebox{#1}{\usebox{#3}}}\par\usebox{#2}\@biditytfloat@float@debug
4941 {\smash{\raisebox{#1}{\usebox{#3}}}\hfill\par\usebox{#2}\@biditytfloat@float@debug
4942 }{% place caption below figure
4943 \ifthenelse{NOT\boolean{@biditytfloat@symmetric}}OR\boolean{@biditytfloat@float@recto}
4944 {\usebox{#2}\par\hfill\smash{\raisebox{#1}{\usebox{#3}}}\@biditytfloat@float@debug
4945 {\usebox{#2}\par\smash{\raisebox{#1}{\usebox{#3}}}\hfill\@biditytfloat@float@debug
4946 }%
4947 }
4948 \renewenvironment{figure}[1][htbp]%
4949 {\ifvmode\else\unskip\fi\begin{@biditytfloat@float}[#1]{figure}{}}
4950 {\end{@biditytfloat@float}}
4951 \renewenvironment{table}[1][htbp]
4952 {\ifvmode\else\unskip\fi\begin{@biditytfloat@float}[#1]{table}{}}
4953 {\end{@biditytfloat@float}}
4954 \renewenvironment{figure*}[1][htbp]%
4955 {\ifvmode\else\unskip\fi\begin{@biditytfloat@float}[#1]{figure}{star}}
4956 {\end{@biditytfloat@float}}
4957 \renewenvironment{table*}[1][htbp]%
4958 {\ifvmode\else\unskip\fi\begin{@biditytfloat@float}[#1]{table}{star}}

```



```

4959 {\end{@biditytfloat@float}}
4960 \newenvironment{fullwidth}
4961 {\ifthenelse{\boolean{@biditytfloat@symmetric}}}%
4962   {\ifthenelse{\boolean{@biditytfloat@changepage}}{\begin{adjustwidth*}{-}\@biditytfloat@overhang}%
4963     {\begin{adjustwidth}{-}\@biditytfloat@overhang}}%
4964   }%
4965 {\ifthenelse{\boolean{@biditytfloat@symmetric}}}%
4966   {\ifthenelse{\boolean{@biditytfloat@changepage}}{\end{adjustwidth*}}{\end{adjustwidth}}}%
4967   {\end{adjustwidth}}%
4968 }
4969 \long\def\@caption#1[#2]#3{%
4970   \par%
4971   \addcontentsline{\csname ext@#1\endcsname}{#1}%
4972     {\protect\numberline{\csname the#1\endcsname}{\ignorespaces #2}}%
4973   \begingroup%
4974     \@parboxrestore%
4975     \if@minipage%
4976       \setminipage%
4977     \fi%
4978     \@biditytfloat@caption@font\@biditytfloat@caption@justification%
4979     \noindent\csname fnum@#1\endcsname: \ignorespaces#3\par%
4980     \%@makecaption{\csname fnum@#1\endcsname}{\ignorespaces #3}\par
4981   \endgroup}
4982 %%
4983 % Turns newlines into spaces. Based on code from the 'titlesec' package.
4984 \DeclareRobustCommand{\@biditytfloat@newlinetospace}{%
4985   \ifstar{\@biditytfloat@newlinetospace@i}{\@biditytfloat@newlinetospace@i}%
4986 }
4987 \def\@biditytfloat@newlinetospace@i{%
4988   \ifdim\lastskip>z@\else\space\fi
4989   \ignorespaces%
4990 }
4991 \DeclareRobustCommand{\newlinetospace}[1]{%
4992   \let\@biditytfloat@orig@cr\% save the original meaning of \
4993   \def\@biditytfloat@newlinetospace{% turn \ and \* into \space
4994   \let\newline\% turn \newline into \space
4995   #1%
4996   \let\@biditytfloat@orig@cr% revert to original meaning of \
4997 }
4998 \RequirePackage{fancyhdr}
4999 \pagestyle{fancy}
5000 \AtBeginDocument{%
5001   \ifthenelse{\boolean{@biditytfloat@symmetric}}
5002     {\fancyhfoffset[LE,RO]{\@biditytfloat@overhang}}
5003     {\fancyhfoffset[RE,RO]{\@biditytfloat@overhang}}
5004 }
5005 % The running heads/feet don't have rules
5006 \renewcommand{\headrulewidth}{0pt}
5007 \renewcommand{\footrulewidth}{0pt}
5008 % The 'fancy' page style is the default style for all pages.
5009 \fancyhf{} % clear header and footer fields
5010   \ifthenelse{\boolean{@biditytfloat@symmetric}}
5011     {\fancyhead[LE]{\thepage\quad\textsl{\newlinetospace{\plainauthor}}}%
5012     \fancyhead[RO]{\textsl{\newlinetospace{\plaintitle}}\quad\thepage}}%

```



```

5013     {\fancyhead[RE,RO]{\textsl{\newlinetospace{\plaintitle}}\quad\thepage}}%
5014 % The 'plain' page style is used on chapter opening pages.
5015 % In Tufte's /Beautiful Evidence/ he never puts page numbers at the
5016 % bottom of pages -- the folios are unexpressed.
5017 \fancypagestyle{plain}{
5018   \fancyhf{} % clear header and footer fields
5019   % Uncomment the following five lines of code if you want the opening page
5020   % of the chapter to express the folio in the lower outside corner.
5021   % \ifthenelse{\boolean{@biditytuftefloat@symmetric}}{
5022   %   {\fancyfoot[LE,RO]{\thepage}}
5023   %   {\fancyfoot[RE,RO]{\thepage}}
5024 }
5025 % The 'empty' page style suppresses all headers and footers.
5026 % It's used on title pages and 'intentionally blank' pages.
5027 \fancypagestyle{empty}{
5028   \fancyhf{} % clear header and footer fields
5029 }
5030 \def\morefloats{% provides a total of 52 floats
5031   \ifthenelse{\isundefined{\bx@S}}{%
5032     \biditytuftefloatDebugInfoNL{Adding 34 more float slots.}
5033     \newinsert\bx@S
5034     \newinsert\bx@T
5035     \newinsert\bx@U
5036     \newinsert\bx@V
5037     \newinsert\bx@W
5038     \newinsert\bx@X
5039     \newinsert\bx@Y
5040     \newinsert\bx@Z
5041     \newinsert\bx@a
5042     \newinsert\bx@b
5043     \newinsert\bx@c
5044     \newinsert\bx@d
5045     \newinsert\bx@e
5046     \newinsert\bx@f
5047     \newinsert\bx@g
5048     \newinsert\bx@h
5049     \newinsert\bx@i
5050     \newinsert\bx@j
5051     \newinsert\bx@k
5052     \newinsert\bx@l
5053     \newinsert\bx@m
5054     \newinsert\bx@n
5055     \newinsert\bx@o
5056     \newinsert\bx@p
5057     \newinsert\bx@q
5058     \newinsert\bx@r
5059     \newinsert\bx@s
5060     \newinsert\bx@t
5061     \newinsert\bx@u
5062     \newinsert\bx@v
5063     \newinsert\bx@w
5064     \newinsert\bx@x
5065     \newinsert\bx@y
5066     \newinsert\bx@z

```



```

5067 \gdef\@freelist{\@elt\bx@A\@elt\bx@B\@elt\bx@C\@elt\bx@D\@elt\bx@E
5068 \@elt\bx@F\@elt\bx@G\@elt\bx@H\@elt\bx@I\@elt\bx@J
5069 \@elt\bx@K\@elt\bx@L\@elt\bx@M\@elt\bx@N
5070 \@elt\bx@O\@elt\bx@P\@elt\bx@Q\@elt\bx@R
5071 \@elt\bx@S\@elt\bx@T\@elt\bx@U\@elt\bx@V
5072 \@elt\bx@W\@elt\bx@X\@elt\bx@Y\@elt\bx@Z
5073 \@elt\bx@a\@elt\bx@b\@elt\bx@c\@elt\bx@d\@elt\bx@e
5074 \@elt\bx@f\@elt\bx@g\@elt\bx@h\@elt\bx@i\@elt\bx@j
5075 \@elt\bx@k\@elt\bx@l\@elt\bx@m\@elt\bx@n
5076 \@elt\bx@o\@elt\bx@p\@elt\bx@q\@elt\bx@r
5077 \@elt\bx@s\@elt\bx@t\@elt\bx@u\@elt\bx@v
5078 \@elt\bx@w\@elt\bx@x\@elt\bx@y\@elt\bx@z}%
5079 }{% we've already added another 34 floats, so we'll add 26 more, but that's it!
5080 \ifthenelse{\isundefined{\bx@AA}}{%
5081 \bidituftefloatDebugInfoNL{Adding 26 more float slots.}
5082 \newinsert\bx@AA
5083 \newinsert\bx@BB
5084 \newinsert\bx@CC
5085 \newinsert\bx@DD
5086 \newinsert\bx@EE
5087 \newinsert\bx@FF
5088 \newinsert\bx@GG
5089 \newinsert\bx@HH
5090 \newinsert\bx@II
5091 \newinsert\bx@JJ
5092 \newinsert\bx@KK
5093 \newinsert\bx@LL
5094 \newinsert\bx@MM
5095 \newinsert\bx@NN
5096 \newinsert\bx@OO
5097 \newinsert\bx@PP
5098 \newinsert\bx@QQ
5099 \newinsert\bx@RR
5100 \newinsert\bx@SS
5101 \newinsert\bx@TT
5102 \newinsert\bx@UU
5103 \newinsert\bx@VV
5104 \newinsert\bx@WW
5105 \newinsert\bx@XX
5106 \newinsert\bx@YY
5107 \newinsert\bx@ZZ
5108 \gdef\@freelist{\@elt\bx@A\@elt\bx@B\@elt\bx@C\@elt\bx@D\@elt\bx@E
5109 \@elt\bx@F\@elt\bx@G\@elt\bx@H\@elt\bx@I\@elt\bx@J
5110 \@elt\bx@K\@elt\bx@L\@elt\bx@M\@elt\bx@N
5111 \@elt\bx@O\@elt\bx@P\@elt\bx@Q\@elt\bx@R
5112 \@elt\bx@S\@elt\bx@T\@elt\bx@U\@elt\bx@V
5113 \@elt\bx@W\@elt\bx@X\@elt\bx@Y\@elt\bx@Z
5114 \@elt\bx@a\@elt\bx@b\@elt\bx@c\@elt\bx@d\@elt\bx@e
5115 \@elt\bx@f\@elt\bx@g\@elt\bx@h\@elt\bx@i\@elt\bx@j
5116 \@elt\bx@k\@elt\bx@l\@elt\bx@m\@elt\bx@n
5117 \@elt\bx@o\@elt\bx@p\@elt\bx@q\@elt\bx@r
5118 \@elt\bx@s\@elt\bx@t\@elt\bx@u\@elt\bx@v
5119 \@elt\bx@w\@elt\bx@x\@elt\bx@y\@elt\bx@z
5120 \@elt\bx@AA\@elt\bx@BB\@elt\bx@CC\@elt\bx@DD\@elt\bx@EE

```



```

5121 \@elt\bx@FF\@elt\bx@GG\@elt\bx@HH\@elt\bx@II\@elt\bx@JJ
5122 \@elt\bx@KK\@elt\bx@LL\@elt\bx@MM\@elt\bx@NN
5123 \@elt\bx@OO\@elt\bx@PP\@elt\bx@QQ\@elt\bx@RR
5124 \@elt\bx@SS\@elt\bx@TT\@elt\bx@UU\@elt\bx@VV
5125 \@elt\bx@WW\@elt\bx@XX\@elt\bx@YY\@elt\bx@ZZ}%
5126 }{%
5127 \biditytfloatError{You may only call \string\morefloats\space twice. See the\Message
5128 {There are already 78 float slots allocated. Try using \string\FloatBarrier\space or
5129 }%
5130 }%
5131 }
5132 \newboolean{@biditytfloat@packages@subfigure}
5133 \setboolean{@biditytfloat@packages@subfigure}{false}
5134 \AtBeginDocument{%
5135 \ifpackageloaded{subfigure}
5136 {\GlobalSetBoolean{@biditytfloat@packages@subfigure}{true}}
5137 {\GlobalSetBoolean{@biditytfloat@packages@subfigure}{false}}%
5138 }
5139 \AtBeginDocument{%
5140 \ifpackageloaded{float}{%
5141 % Save the redefined float environment (instead of the LaTeX float environment)
5142 \let@biditytfloat@orig@float\@float
5143 \let@biditytfloat@orig@endfloat\end@float
5144
5145 % Define Tufte float styles (with the caption in the margin)
5146 \newcommand{\floatc@biditytfloatplain}[2]{%
5147 \begin{lrbox}{\@biditytfloat@caption@box}%
5148 \begin{minipage}[\floatalignment]{\marginparwidth}\hbox{%
5149 \@biditytfloat@caption@font{\@fs@cfont #1:} #2\par%
5150 \end{minipage}%
5151 \end{lrbox}%
5152 \smash{\hspace{\@biditytfloat@caption@fill}}\usebox{\@biditytfloat@caption@box}}%
5153 }
5154 \newcommand{\fs@biditytfloatplain}{%
5155 \def\@fs@cfont{\@biditytfloat@caption@font}%
5156 \let\@fs@capt\floatc@biditytfloatplain%
5157 \def\@fs@pre{%
5158 \def\@fs@post{%
5159 \def\@fs@mid{%
5160 \let\@fs@iftopcapt\iftrue%
5161 }
5162 \let\fs@biditytfloatplaintop=\fs@biditytfloatplain
5163 \let\floatc@biditytfloatplaintop=\floatc@biditytfloatplain
5164 \newcommand\floatc@biditytfloatruled[2]{%
5165 {\@fs@cfont #1} #2\par%
5166 }
5167 \newcommand\fs@biditytfloatruled{%
5168 \def\@fs@cfont{\@biditytfloat@caption@font}%
5169 \let\@fs@capt\floatc@biditytfloatplain%
5170 \def\@fs@pre{\hrule height.8pt depth0pt width\textwidth \kern2pt}%
5171 \def\@fs@post{\kern2pt\hrule width\textwidth\relax}%
5172 \def\@fs@mid{%
5173 \let\@fs@iftopcapt\iftrue%
5174 }

```



```

5175 \newcommand\fs@biditytuftefloatboxed{%
5176 \def\@fs@cfont{}}%
5177 \let\@fs@capt\floatc@biditytuftefloatplain%
5178 \def\@fs@pre{%
5179 \setbox\@currbox\vbox{\hbadness10000
5180 \moveleft3.4pt\vbox{\advance\hsize by6.8pt
5181 \hrule \hbox to\hsize{\vrule\kern3pt
5182 \vbox{\kern3pt\box\@currbox\kern3pt}\kern3pt\vrule}\hrule}}
5183 }%
5184 \def\@fs@mid{\kern2pt}%
5185 \def\@fs@post{}}%
5186 \let\@fs@iftopcapt\iftrue%
5187 }
5188 }{%
5189 % Nothing to do
5190 }
5191 }
5192 \AtBeginDocument{%
5193 \ifpackageloaded{algorithm}{%
5194 % Set the float style to the Tufte version
5195 \ifthenelse{\equal{\ALG@floatstyle}{plain}\OR\equal{\ALG@floatstyle}{ruled}\OR\equal{\ALG@floatstyle}{ALG}}{\@fs@pre}{\@fs@mid}%
5196 \biditytuftefloatInfoNL{Switching algorithm float style from \ALG@floatstyle\MessageBreak to \ALG@floatstyle}%
5197 \floatstyle{biditytuftefloat\ALG@floatstyle}%
5198 \restylefloat{algorithm}%
5199 }{}%
5200 }{%
5201 % Nothing to do
5202 }
5203 }
5204 \PassOptionsToPackage{caption=false}{subfig}

```

## 23 File biditytuftesidenote.sty

```

5205 \NeedsTeXFormat{LaTeX2e}
5206 \ProvidesPackage{biditytuftesidenote}[2017/08/09 v0.4
5207 bidi implementation of tufte sidenote]
5208 \RequirePackage{xifthen}
5209 \RequirePackage{ragged2e}
5210 \RequirePackage{setspace}
5211 \RequirePackage{biditytools}
5212 \def\biditytuftesidenotemarginpar{%
5213 \ifhmode
5214 \@bsphack
5215 \@floatpenalty -\@Mii
5216 \else
5217 \@floatpenalty -\@Miii
5218 \fi
5219 \ifinner
5220 \@parmoderr
5221 \@floatpenalty\z@
5222 \else
5223 \@next\@currbox\@freelist{}{}%
5224 \@next\@marbox\@freelist{\global\count\@marbox\m@ne}%
5225 {\@floatpenalty\z@

```



```

5226      \@fltovf\def\@currbox{\@tempboxa}\def\@marbox{\@tempboxa}}%
5227  \fi
5228  \@ifnextchar [\@bidityftesidenotexmpar\@bidityftesidenoteympar}
5229  \long\def\@bidityftesidenotexmpar[#1]#2{%
5230    \@bidityftesidenotesavemarbox\@marbox{#1}%
5231    \@bidityftesidenotesavemarbox\@currbox{#2}%
5232    \@xympar}
5233  \long\def\@bidityftesidenoteympar#1{%
5234    \@bidityftesidenotesavemarbox\@marbox{#1}%
5235    \global\setbox\@currbox\copy\@marbox
5236    \@xympar}
5237  \long\def \@bidityftesidenotesavemarbox #1#2{%
5238    \global\setbox #1%
5239      \color@vbox
5240      \vtop{%
5241        \hsize\marginparwidth
5242        \@parboxrestore
5243        \@bidityftesidenotemarginparreset
5244        #2%
5245        \@minipagefalse
5246        \outer@nobreak
5247      }%
5248    \color@endbox
5249  }
5250  \def \@bidityftesidenotemarginparreset {%
5251    \reset@font
5252    \normalsize
5253    \@minipagetrue
5254    \everypar{\@minipagefalse\everypar{}\if@RTL@footnote\beginR\else\beginL\fi}%
5255  }
5256  \def\LTRbidityftesidenotemarginpar{%
5257    \ifhmode
5258      \@bsphack
5259      \@floatpenalty -\@Mii
5260    \else
5261      \@floatpenalty-\@Miii
5262    \fi
5263    \ifinner
5264      \@parmoderr
5265      \@floatpenalty\z@
5266    \else
5267      \@next\@currbox\@freelist{}\{}%
5268      \@next\@marbox\@freelist{\global\count\@marbox\m@ne}%
5269      {\@floatpenalty\z@
5270      \@fltovf\def\@currbox{\@tempboxa}\def\@marbox{\@tempboxa}}%
5271    \fi
5272    \@ifnextchar [\@LTRbidityftesidenotexmpar\@LTRbidityftesidenoteympar}
5273    \long\def\@LTRbidityftesidenotexmpar[#1]#2{%
5274      \@LTRbidityftesidenotesavemarbox\@marbox{#1}%
5275      \@LTRbidityftesidenotesavemarbox\@currbox{#2}%
5276      \@xympar}
5277    \long\def\@LTRbidityftesidenoteympar#1{%
5278      \@LTRbidityftesidenotesavemarbox\@marbox{#1}%
5279      \global\setbox\@currbox\copy\@marbox

```



```

5280 \xympar}
5281 \long\def \@LTRbidityftesidenotesavemarbox #1#2{%
5282 \global\setbox #1%
5283 \color@vbox
5284 \vtop{%
5285 \hsize\marginparwidth
5286 \@parboxrestore
5287 \@LTRbidityftesidenotemarginparreset
5288 #2%
5289 \@minipagefalse
5290 \outer@nobreak
5291 }%
5292 \color@endbox
5293 }
5294 \def \@LTRbidityftesidenotemarginparreset {%
5295 \reset@font
5296 \normalsize
5297 \@minipagetrue
5298 \everypar{\@minipagefalse\everypar{}\beginL}%
5299 }
5300 \def\RTLbidityftesidenotemarginpar{%
5301 \ifhmode
5302 \@bsphack
5303 \@floatpenalty -\@Mii
5304 \else
5305 \@floatpenalty-\@Miii
5306 \fi
5307 \ifinner
5308 \@parmoderr
5309 \@floatpenalty\z@
5310 \else
5311 \@next\@currbox\@freelist{}\{}%
5312 \@next\@marbox\@freelist{\global\count\@marbox\m@ne}%
5313 {\@floatpenalty\z@
5314 \@fltovf\def\@currbox{\@tempboxa}\def\@marbox{\@tempboxa}}%
5315 \fi
5316 \ifnextchar [\@RTLbidityftesidenotexmpar\@RTLbidityftesidenoteympar}
5317 \long\def\@RTLbidityftesidenotexmpar[#1]#2{%
5318 \@RTLbidityftesidenotesavemarbox\@marbox{#1}%
5319 \@RTLbidityftesidenotesavemarbox\@currbox{#2}%
5320 \xympar}
5321 \long\def\@RTLbidityftesidenoteympar#1{%
5322 \@RTLbidityftesidenotesavemarbox\@marbox{#1}%
5323 \global\setbox\@currbox\copy\@marbox
5324 \xympar}
5325 \long\def \@RTLbidityftesidenotesavemarbox #1#2{%
5326 \global\setbox #1%
5327 \color@vbox
5328 \vtop{%
5329 \hsize\marginparwidth
5330 \@parboxrestore
5331 \@RTLbidityftesidenotemarginparreset
5332 #2%
5333 \@minipagefalse

```





```

5334         \outer@nobreak
5335     }%
5336     \color@endbox
5337 }
5338 \def \@RTLbidityftesidenotemarginparreset {%
5339     \reset@font
5340     \normalsize
5341     \@minipagetrue
5342     \everypar{\@minipagefalse\everypar{}\beginR}%
5343 }
5344 \newcommand*{\@bidityftesidenote@marginfont}{\normalfont\footnotesize}
5345 \newcommand*{\@bidityftesidenote@LTRmarginfont}{\normalfont\footnotesize}
5346 \newcommand*{\@bidityftesidenote@RTLmarginfont}{\normalfont\footnotesize}
5347 \newcommand*{\@bidityftesidenote@sidenote@font}{\@bidityftesidenote@marginfont}
5348 \newcommand*{\@bidityftesidenote@LTRsidenote@font}{\@bidityftesidenote@LTRmarginfont}
5349 \newcommand*{\@bidityftesidenote@RTLsidenote@font}{\@bidityftesidenote@RTLmarginfont}
5350 \newcommand*{\@bidityftesidenote@marginnote@font}{\@bidityftesidenote@marginfont}
5351 \newcommand*{\@bidityftesidenote@LTRmarginnote@font}{\@bidityftesidenote@LTRmarginfont}
5352 \newcommand*{\@bidityftesidenote@RTLmarginnote@font}{\@bidityftesidenote@RTLmarginfont}
5353 \newcommand*{\@bidityftesidenote@citation@font}{\@bidityftesidenote@marginfont}
5354 \newcommand*{\@bidityftesidenote@LTRcitation@font}{\@bidityftesidenote@LTRmarginfont}
5355 \newcommand*{\@bidityftesidenote@RTLcitation@font}{\@bidityftesidenote@RTLmarginfont}
5356 \newcommand*{\setsidenote@font}[1]{\renewcommand*{\@bidityftesidenote@sidenote@font}{#1}}
5357 \newcommand*{\setLTRsidenote@font}[1]{\renewcommand*{\@bidityftesidenote@LTRsidenote@font}{#1}}
5358 \newcommand*{\setRTLsidenote@font}[1]{\renewcommand*{\@bidityftesidenote@RTLsidenote@font}{#1}}
5359 \newcommand*{\setmarginnote@font}[1]{\renewcommand*{\@bidityftesidenote@marginnote@font}{#1}}
5360 \newcommand*{\setLTRmarginnote@font}[1]{\renewcommand*{\@bidityftesidenote@LTRmarginnote@font}{#1}}
5361 \newcommand*{\setRTLmarginnote@font}[1]{\renewcommand*{\@bidityftesidenote@RTLmarginnote@font}{#1}}
5362 \newcommand*{\setcitation@font}[1]{\renewcommand*{\@bidityftesidenote@citation@font}{#1}}
5363 \newcommand*{\setLTRcitation@font}[1]{\renewcommand*{\@bidityftesidenote@LTRcitation@font}{#1}}
5364 \newcommand*{\setRTLcitation@font}[1]{\renewcommand*{\@bidityftesidenote@RTLcitation@font}{#1}}
5365 \newcommand*{\@bidityftesidenote@sidenote@justification}{\@bidityftesidenote@justification@auto}
5366 \newcommand*{\@bidityftesidenote@marginnote@justification}{\@bidityftesidenote@justification@auto}
5367 \newcommand*{\@bidityftesidenote@citation@justification}{\@bidityftesidenote@justification@auto}
5368 \newcommand*{\@bidityftesidenote@justification@autodetect}{\justifying}%
5369 \newcommand{\@bidityftesidenote@margin@par}{%
5370     \setlength{\RaggedRightParindent}{0.5pc}%
5371     \setlength{\JustifyingParindent}{0.5pc}%
5372     \setlength{\parindent}{0.5pc}%
5373     \setlength{\parskip}{0pt}%
5374 }
5375 %%
5376 % Globally sets the length
5377 \ifundefined{gsetlength}{%
5378     \newcommand*{gsetlength}[2]{%
5379         \setlength{#1}{#2}%
5380         \global#1=#1\relax%
5381     }%
5382 }{}
5383
5384 %%
5385 % A function that removes leading and trailing spaces from the supplied macro.
5386 % Based on code written by Michael Downes (See ``Around the Bend'', #15.)
5387 % Executing \@bidityftesidenote@trim@spaces\xyzzy will result in the contents of \xyzzy

```



```

5388 % being trimmed of leading and trailing white space.
5389 \catcode\Q=3
5390 \def\@bidityftesidenote@trim@spaces#1{%
5391   % Use grouping to emulate a multi-token afterassignment queue
5392   \begingroup%
5393   % Put \toks 0 {' into the afterassignment queue
5394   \aftergroup\toks\aftergroup0\aftergroup{%
5395   % Apply \trimb to the replacement text of #1, adding a leading
5396   % \noexpand to prevent brace stripping and to serve another purpose
5397   % later.
5398   \expandafter\@bidityftesidenote@trim@b\expandafter\noexpand#1Q Q}%
5399   % Transfer the trimmed text back into #1.
5400   \edef#1{\the\toks0}%
5401 }
5402 % \trimb removes a trailing space if present, then calls \@bidityftesidenote@trim@c to
5403 % clean up any leftover bizarre Qs, and trim a leading space. In
5404 % order for \trimc to work properly we need to put back a Q first.
5405 \def\@bidityftesidenote@trim@b#1 Q{\@bidityftesidenote@trim@c#1Q}
5406 % Execute \vfuzz assignment to remove leading space; the \noexpand
5407 % will now prevent unwanted expansion of a macro or other expandable
5408 % token at the beginning of the trimmed text. The \endgroup will feed
5409 % in the \aftergroup tokens after the \vfuzz assignment is completed.
5410 \def\@bidityftesidenote@trim@c#1Q#2{\afterassignment\endgroup \vfuzz\the\vfuzz#1}
5411 \catcode\Q=11
5412 %%
5413 % Citations should go in the margin as sidenotes
5414
5415 \RequirePackage{natbib}
5416 \RequirePackage{bibentry} % allows bibitems to be typeset outside thebibliography env
5417 % Redefine the \BR@b@bibitem command to fix a bug with bibentry+chicago style
5418 \renewcommand\BR@b@bibitem[2][]{%
5419   \ifthenelse{\isempty{#1}}{%
5420     {\BR@bibitem{#2}}%
5421     {\BR@bibitem{#1}{#2}}%
5422   \BR@c@bibitem{#2}%
5423 }
5424 \bidi@AtEndPreamble{\nobibliography*} % pre-loads the bibliography keys
5425 %%
5426 % Normal \cite behavior
5427 \newcounter{@bidityftesidenote@num@bibkeys}%
5428 \newcommand{\@bidityftesidenote@normal@cite}[2][Opt]{%
5429   % Snag the last bibentry in the list for later comparison
5430   \let\@temp@last@bibkey\@empty%
5431   \@for\@temp@bibkey:=#2\do{\let\@temp@last@bibkey\@temp@bibkey}%
5432   \sidenote[] [#1]{%
5433     % Loop through all the bibentries, separating them with semicolons and spaces
5434     \normalsize\normalfont\@bidityftesidenote@citation@font%
5435     \setcounter{@bidityftesidenote@num@bibkeys}{0}%
5436     \@for\@temp@bibkeyx:=#2\do{%
5437       \ifthenelse{\equal{\@temp@last@bibkey}{\@temp@bibkeyx}}{%
5438         {\ifthenelse{\equal{value{@bidityftesidenote@num@bibkeys}}{0}}{\{and\ }%
5439           \@bidityftesidenote@trim@spaces\@temp@bibkeyx% trim spaces around bibkey
5440           \bibentry{\@temp@bibkeyx}}%
5441         {\@bidityftesidenote@trim@spaces\@temp@bibkeyx% trim spaces around bibkey

```



```

5442         \bibentry{\@temp@bibkeyx};\ }%
5443         \stepcounter{@bidituftesidenote@num@bibkeys}%
5444     }%
5445 }%
5446 }
5447 \newcommand{\@bidituftelTRsidenote@normal@cite}[2][Opt]{%
5448 % Snag the last bibentry in the list for later comparison
5449 \let\@temp@last@bibkey\@empty%
5450 \@for\@temp@bibkey:=#2\do{\let\@temp@last@bibkey\@temp@bibkey}%
5451 \LTRsidenote[] [#1]{%
5452 % Loop through all the bibentries, separating them with semicolons and spaces
5453 \normalsize\normalfont\@bidituftesidenote@LTR@citation@font%
5454 \setcounter{@bidituftesidenote@num@bibkeys}{0}%
5455 \@for\@temp@bibkeyx:=#2\do{%
5456 \ifthenelse{\equal{\@temp@last@bibkey}{\@temp@bibkeyx}}{%
5457     {\ifthenelse{\equal{\value{@bidituftesidenote@num@bibkeys}}{0}}{\}{and\ }%
5458     \@bidituftesidenote@trim@spaces\@temp@bibkeyx% trim spaces around bibkey
5459     \bibentry{\@temp@bibkeyx}}%
5460     {\@bidituftesidenote@trim@spaces\@temp@bibkeyx% trim spaces around bibkey
5461     \bibentry{\@temp@bibkeyx};\ }%
5462     \stepcounter{@bidituftesidenote@num@bibkeys}%
5463     }%
5464 }%
5465 }
5466 \newcommand{\@biditufterTLsidenote@normal@cite}[2][Opt]{%
5467 % Snag the last bibentry in the list for later comparison
5468 \let\@temp@last@bibkey\@empty%
5469 \@for\@temp@bibkey:=#2\do{\let\@temp@last@bibkey\@temp@bibkey}%
5470 \RTLsidenote[] [#1]{%
5471 % Loop through all the bibentries, separating them with semicolons and spaces
5472 \normalsize\normalfont\@bidituftesidenote@citation@font%
5473 \setcounter{@bidituftesidenote@num@bibkeys}{0}%
5474 \@for\@temp@bibkeyx:=#2\do{%
5475 \ifthenelse{\equal{\@temp@last@bibkey}{\@temp@bibkeyx}}{%
5476     {\ifthenelse{\equal{\value{@bidituftesidenote@num@bibkeys}}{0}}{\}{and\ }%
5477     \@bidituftesidenote@trim@spaces\@temp@bibkeyx% trim spaces around bibkey
5478     \bibentry{\@temp@bibkeyx}}%
5479     {\@bidituftesidenote@trim@spaces\@temp@bibkeyx% trim spaces around bibkey
5480     \bibentry{\@temp@bibkeyx};\ }%
5481     \stepcounter{@bidituftesidenote@num@bibkeys}%
5482     }%
5483 }%
5484 }
5485 %%
5486 % Macros for holding the list of cite keys until after the \sidenote
5487 \gdef\@bidituftesidenote@citations{}% list of cite keys
5488 \newcommand\@bidituftesidenote@add@citation[1]{\relax% adds a new bibkey to the list of cite
5489 \ifx\@bidituftesidenote@citations\@empty\else
5490 \g@addto@macro\@bidituftesidenote@citations{,}% separate by commas
5491 \fi
5492 \g@addto@macro\@bidituftesidenote@citations{#1}
5493 }
5494 \newcommand{\@bidituftesidenote@print@citations}[1][Opt]{% puts the citations in a margin no
5495 % Snag the last bibentry in the list for later comparison

```



```

5496 \let\@temp@last@bibkey\@empty%
5497 \@for\@temp@bibkey:=\@bidityftesidenote@citations\do{\let\@temp@last@bibkey\@temp@bibkey}%
5498 \marginpar{%
5499   \hbox{}\vspace*{#1}%
5500   \@bidityftesidenote@citation@font%
5501   \@bidityftesidenote@citation@justification%
5502   \@bidityftesidenote@margin@par% use parindent and parskip settings for marginal text
5503   \vspace*{-1\baselineskip}%
5504   % Loop through all the bibentries, separating them with semicolons and spaces
5505   \setcounter{\@bidityftesidenote@num@bibkeys}{0}%
5506   \@for\@temp@bibkeyx:=\@bidityftesidenote@citations\do{%
5507     \ifthenelse{\equal{\@temp@last@bibkey}{\@temp@bibkeyx}}{%
5508       {\ifthenelse{\equal{\value{\@bidityftesidenote@num@bibkeys}}{0}}{\and\ }%
5509        \@bidityftesidenote@trim@spaces\@temp@bibkeyx% trim spaces around bibkey
5510        \bibentry{\@temp@bibkeyx}}%
5511       {\@bidityftesidenote@trim@spaces\@temp@bibkeyx% trim spaces around bibkey
5512        \bibentry{\@temp@bibkeyx};\ }%
5513       \stepcounter{\@bidityftesidenote@num@bibkeys}%
5514     }%
5515   }%
5516 }
5517 %%
5518 % \cite behavior when executed within a sidenote
5519 \newcommand{\@bidityftesidenote@sidenote@citations}{}% contains list of \cites in sidenote
5520 \newcommand{\@bidityftesidenote@infootnote@cite}[1]{%
5521   \@bidityftesidenote@add@citation{#1}
5522 }
5523 %%
5524 % Set the default \cite style. This is set and reset by the \sidenote command.
5525 \let\cite\@bidityftesidenote@normal@cite
5526 \let\LTRcite\@bidityftesidenote@normal@cite
5527 \let\RTLcite\@bidityftesidenote@normal@cite
5528 %%
5529 % Transform existing \footnotes into \sidenotes
5530 % Sidenote: ``Where God meant footnotes to go.''' ---bidityftesidenote
5531 \RequirePackage{optparams}% for our new sidenote commands -- provides multiple optional arguments
5532 \providecommand{\footnotelayout}{\@bidityftesidenote@sidenote@font\@bidityftesidenote@sidenote@font}%
5533 \renewcommand{\footnotelayout}{\@bidityftesidenote@sidenote@font\@bidityftesidenote@sidenote@font}%
5534 % Override footmisc's definition to set the sidenote marks (numbers) inside the
5535 % sidenote's text block.
5536 \bidi@patch@AfterPackage{bidi}{\long\def\@makefnmark{\@textsuperscript{\@bidityftesidenote@sidenote@font}%
5537 % Set the in-text footnote mark in the same typeface as the body text itself.
5538 \bidi@patch@AfterPackage{bidi}{\def\@makefnmark{\hbox{\@textsuperscript{\normalfont\footnote@font}%
5539 \providecommand*{\multiplefootnotemark}{3sp}
5540 \providecommand*{\multfootsep}{,}
5541 \bidi@patch@AfterPackage{bidi}{%
5542 \renewcommand{\footnotemark}{%
5543   \leavevmode%
5544   \ifhmode%
5545     \edef\x{\sf\the\spacefactor}%
5546     \@bidityftesidenote@check@multiple@sidenotes%
5547     \nobreak%
5548   \fi%
5549   \@makefnmark%

```



```

5550 \ifhmode\spacefactor\@x@sf\fi%
5551 \relax%
5552 }%
5553 }
5554 \newcommand{\@bidityftesidenote@check@multiple@sidenotes}{%
5555 \ifdim\lastkern=\multiplefootnotemarker\relax%
5556 \edef\@x@sf{\the\spacefactor}%
5557 \unkern%
5558 \textsuperscript{\multfootsep}%
5559 \spacefactor\@x@sf\relax%
5560 \fi
5561 }
5562 \bidi@patch@AfterPackage{bidi}{%
5563 \renewcommand\@footnotetext[2][Opt]{%
5564 \bidityftesidenotemarginpar{%
5565 \hbox{}}\vspace*{#1}%
5566 \def\baselinestretch {\setspace@singlespace}%
5567 \reset@font%
5568 \bidi@@footnotetext@font% \reset@font\footnotesize%
5569 \@bidityftesidenote@margin@par% use parindent and parskip settings for marginal text
5570 \vspace*{-1\baselineskip}\noindent%
5571 \protected@edef\@currentlabel{%
5572 \csname p@footnote\endcsname\@thefnmark%
5573 }%
5574 \color@begingroup%
5575 \makefnintext{%
5576 \ignorespaces#2%
5577 }%
5578 \color@endgroup%
5579 }%
5580 }%
5581 \renewcommand\@LTRfootnotetext[2][Opt]{%
5582 \LTRbidityftesidenotemarginpar{%
5583 \hbox{}}\vspace*{#1}%
5584 \def\baselinestretch {\setspace@singlespace}%
5585 \reset@font%
5586 \bidi@@LTRfootnotetext@font% \reset@font\footnotesize%
5587 \@bidityftesidenote@margin@par% use parindent and parskip settings for marginal text
5588 \vspace*{-1\baselineskip}\noindent%
5589 \protected@edef\@currentlabel{%
5590 \csname p@footnote\endcsname\@thefnmark%
5591 }%
5592 \color@begingroup%
5593 \makefnintext{%
5594 \ignorespaces#2%
5595 }%
5596 \color@endgroup%
5597 }%
5598 }%
5599 \renewcommand\@RTLfootnotetext[2][Opt]{%
5600 \RTLbidityftesidenotemarginpar{%
5601 \hbox{}}\vspace*{#1}%
5602 \def\baselinestretch {\setspace@singlespace}%
5603 \reset@font%

```



```

5604 \bidi@RTLfootnotetext@font% \reset@font\footnotesize%
5605 \@bidityftesidenote@margin@par% use parindent and parskip settings for marginal text
5606 \vspace*{-1\baselineskip}\noindent%
5607 \protected@edef\@currentlabel{%
5608     \csname p@footnote\endcsname\@thefnmark%
5609 }%
5610 \color@begingroup%
5611     \@makefnintext{%
5612         \ignorespaces#2%
5613     }%
5614 \color@endgroup%
5615 }%
5616 }%
5617 }
5618 %
5619 % Define \sidenote command. Can handle \cite.
5620 \newlength{\@bidityftesidenote@sidenote@vertical@offset}
5621 \setlength{\@bidityftesidenote@sidenote@vertical@offset}{0pt}
5622 % #1 = footnote num, #2 = vertical offset, #3 = footnote text
5623 \long\def\@bidityftesidenote@sidenote[#1][#2]#3{%
5624     \let\cite\@bidityftesidenote@infootnote@cite% use the in-sidenote \cite command
5625     \gdef\@bidityftesidenote@citations{}% clear out any old citations
5626     \ifthenelse{\NOT\isempty{#2}}{%
5627         \gsetlength{\@bidityftesidenote@sidenote@vertical@offset}{#2}%
5628     }{%
5629         \gsetlength{\@bidityftesidenote@sidenote@vertical@offset}{0pt}%
5630     }%
5631     \ifthenelse{\isempty{#1}}{%
5632         % no specific footnote number provided
5633         \stepcounter\@mpfn%
5634         \protected@xdef\@thefnmark{\thempfn}%
5635         \@footnotemark\@footnotetext[\@bidityftesidenote@sidenote@vertical@offset]{#3}%
5636     }{%
5637         % specific footnote number provided
5638         \begingroup%
5639         \csname c@\@mpfn\endcsname #1\relax%
5640         \unrestored@protected@xdef\@thefnmark{\thempfn}%
5641         \endgroup%
5642         \@footnotemark\@footnotetext[\@bidityftesidenote@sidenote@vertical@offset]{#3}%
5643     }%
5644     \@bidityftesidenote@print@citations% print any citations
5645     \let\cite\@bidityftesidenote@normal@cite% go back to using normal in-text \cite comm
5646     \let\LTRcite\@bidityfteLTRsidenote@normal@cite% go back to using normal in-text \LTR
5647     \let\RTLCite\@bidityfteRTLsidenote@normal@cite% go back to using normal in-text \RTL
5648     \unskip\ignorespaces% remove extra white space
5649     \kern-\multiplefootnotemarker% remove \kern left behind by sidenote
5650     \kern\multiplefootnotemarker\relax% add new \kern here to replace the one we yanked
5651 }
5652 \long\def\@LTRbidityftesidenote@sidenote[#1][#2]#3{%
5653     \let\cite\@bidityftesidenote@infootnote@cite% use the in-sidenote \cite command
5654     \gdef\@bidityftesidenote@citations{}% clear out any old citations
5655     \ifthenelse{\NOT\isempty{#2}}{%
5656         \gsetlength{\@bidityftesidenote@sidenote@vertical@offset}{#2}%
5657     }{%

```



```

5658 \gsetlength{\@bidituftesidenote@sidenote@vertical@offset}{0pt}%
5659 }%
5660 \ifthenelse{\isempty{#1}}{%
5661 % no specific footnote number provided
5662 \stepcounter{\mpfn}%
5663 \protected@xdef\@thefnmark{\thempfn}%
5664 \@footnotemark\@LTRfootnotetext[\@bidituftesidenote@sidenote@vertical@offset]{#3}%
5665 }{%
5666 % specific footnote number provided
5667 \begingroup%
5668 \csname c@\mpfn\endcsname #1\relax%
5669 \unrestored@protected@xdef\@thefnmark{\thempfn}%
5670 \endgroup%
5671 \@footnotemark\@LTRfootnotetext[\@bidituftesidenote@sidenote@vertical@offset]{#3}%
5672 }%
5673 \@bidituftesidenote@print@citations% print any citations
5674 \let\cite\@bidituftesidenote@normal@cite% go back to using normal in-text \cite comm
5675 \let\LTRcite\@bidituftesidenote@normal@cite% go back to using normal in-text \LTR
5676 \let\RTLcite\@bidituftesidenote@normal@cite% go back to using normal in-text \RTL
5677 \unskip\ignorespaces% remove extra white space
5678 \kern-\multiplefootnotemarker% remove \kern left behind by sidenote
5679 \kern\multiplefootnotemarker\relax% add new \kern here to replace the one we yanked
5680 }
5681 \long\def\@RTLbidituftesidenote@sidenote[#1][#2]#3{%
5682 \let\cite\@bidituftesidenote@infootnote@cite% use the in-sidenote \cite command
5683 \gdef\@bidituftesidenote@citations{}% clear out any old citations
5684 \ifthenelse{\NOT\isempty{#2}}{%
5685 \gsetlength{\@bidituftesidenote@sidenote@vertical@offset}{#2}%
5686 }{%
5687 \gsetlength{\@bidituftesidenote@sidenote@vertical@offset}{0pt}%
5688 }%
5689 \ifthenelse{\isempty{#1}}{%
5690 % no specific footnote number provided
5691 \stepcounter{\mpfn}%
5692 \protected@xdef\@thefnmark{\thempfn}%
5693 \@footnotemark\@RTLfootnotetext[\@bidituftesidenote@sidenote@vertical@offset]{#3}%
5694 }{%
5695 % specific footnote number provided
5696 \begingroup%
5697 \csname c@\mpfn\endcsname #1\relax%
5698 \unrestored@protected@xdef\@thefnmark{\thempfn}%
5699 \endgroup%
5700 \@footnotemark\@RTLfootnotetext[\@bidituftesidenote@sidenote@vertical@offset]{#3}%
5701 }%
5702 \@bidituftesidenote@print@citations% print any citations
5703 \let\cite\@bidituftesidenote@normal@cite% go back to using normal in-text \cite comm
5704 \let\LTRcite\@bidituftesidenote@normal@cite% go back to using normal in-text \LTR
5705 \let\RTLcite\@bidituftesidenote@normal@cite% go back to using normal in-text \RTL
5706 \unskip\ignorespaces% remove extra white space
5707 \kern-\multiplefootnotemarker% remove \kern left behind by sidenote
5708 \kern\multiplefootnotemarker\relax% add new \kern here to replace the one we yanked
5709 }
5710 \newcommand{\sidenote}{\optparams{\@bidituftesidenote@sidenote}{[] [Opt]}}
5711 \newcommand{\LTRsidenote}{\optparams{\@LTRbidituftesidenote@sidenote}{[] [Opt]}}

```





```

5712 \newcommand{\RTLsidenote}{\optparams{\@RTLbidityftesidenote@sidenote}{[] [Opt]}}
5713 \bidi@patch@AfterPackage{bidi}{%
5714 \renewcommand{\footnote}{\optparams{\@bidityftesidenote@sidenote}{[] [Opt]}}%
5715 \renewcommand{\LTRfootnote}{\optparams{\@LTRbidityftesidenote@sidenote}{[] [Opt]}}%
5716 \renewcommand{\RTLfootnote}{\optparams{\@RTLbidityftesidenote@sidenote}{[] [Opt]}}%
5717 }
5718 %%
5719 % Sidenote without the footnote mark
5720 \newcommand\marginnote[2] [Opt]{%
5721 \let\cite\@bidityftesidenote@infootnote@cite% use the in-sidenote \cite command
5722 \gdef\@bidityftesidenote@citations{}% clear out any old citations
5723 \bidityftesidenotemarginpar{\hbox{} \vspace*{#1}}\@bidityftesidenote@marginnote@font\@bidityftesidenote@print@citations% print any citations
5724 \@bidityftesidenote@print@citations%
5725 \let\cite\@bidityftesidenote@normal@cite% go back to using normal in-text \cite command
5726 \let\LTRcite\@bidityfteLTRsidenote@normal@cite% go back to using normal in-text \LTR
5727 \let\RLcite\@bidityfteRTLsidenote@normal@cite% go back to using normal in-text \RTL
5728 }
5729 \newcommand\LTRmarginnote[2] [Opt]{%
5730 \let\cite\@bidityftesidenote@infootnote@cite% use the in-sidenote \cite command
5731 \gdef\@bidityftesidenote@citations{}% clear out any old citations
5732 \LTRbidityftesidenotemarginpar{\hbox{} \vspace*{#1}}\@bidityftesidenote@LTRmarginnote@font\@bidityftesidenote@print@citations% print any citations
5733 \@bidityftesidenote@print@citations%
5734 \let\cite\@bidityftesidenote@normal@cite% go back to using normal in-text \cite command
5735 \let\LTRcite\@bidityfteLTRsidenote@normal@cite% go back to using normal in-text \LTR
5736 \let\RLcite\@bidityfteRTLsidenote@normal@cite% go back to using normal in-text \RTL
5737 }
5738 \newcommand\RTLmarginnote[2] [Opt]{%
5739 \let\cite\@bidityftesidenote@infootnote@cite% use the in-sidenote \cite command
5740 \gdef\@bidityftesidenote@citations{}% clear out any old citations
5741 \RTLbidityftesidenotemarginpar{\hbox{} \vspace*{#1}}\@bidityftesidenote@RTLmarginnote@font\@bidityftesidenote@print@citations% print any citations
5742 \@bidityftesidenote@print@citations%
5743 \let\cite\@bidityftesidenote@normal@cite% go back to using normal in-text \cite command
5744 \let\LTRcite\@bidityfteLTRsidenote@normal@cite% go back to using normal in-text \LTR
5745 \let\RLcite\@bidityfteRTLsidenote@normal@cite% go back to using normal in-text \RTL
5746 }

```

## 24 File bidityftetoc.sty

```

5747 \NeedsTeXFormat{LaTeX2e}
5748 \ProvidesPackage{bidityftetoc}[2011/06/17 v0.1
5749 bidi implementation of tufte toc]
5750 \RequirePackage{titlesec,titletoc,xifthen,biditytools}
5751 \newcommand{\@bidityftetoc@pkgname}{bidityftetoc}
5752 \newcommand{\bidityftetocError}[2]{\PackageError{\@bidityftetoc@pkgname}{#1}{#2}}
5753 %%
5754 % Turn off section numbering
5755 \setcounter{secnumdepth}{-1}
5756 \newboolean{\@bidityftetoc@toc}
5757 \setboolean{\@bidityftetoc@toc}{true}
5758 \DeclareOption{notoc}{\setboolean{\@bidityftetoc@toc}{false}}
5759 \DeclareOption{toc}{\setboolean{\@bidityftetoc@toc}{true}}
5760 \ProcessOptions
5761 %%
5762 % Make Tuftean-style section headings and TOC formatting

```





```

5763 \bidi@patch@AfterPackage{bidi}{%
5764 \titleformat{\chapter}%
5765 [display]% shape
5766 {\relax\ifthenelse{\NOT\boolean{@biditytfloat@symmetric}}{\begin{fullwidth}}{}}% format
5767 {\itshape\huge\thechapter}% label
5768 {0pt}% horizontal separation between label and title body
5769 {\huge\rmfamily\itshape}% before the title body
5770 [\ifthenelse{\NOT\boolean{@biditytfloat@symmetric}}{\end{fullwidth}}{}}% after the title
5771 \titleformat{\section}%
5772 [hang]% shape
5773 {\normalfont\Large\itshape}% format applied to label+text
5774 {\thesection}% label
5775 {1em}% horizontal separation between label and title body
5776 {}% before the title body
5777 []% after the title body
5778 \titleformat{\subsection}%
5779 [hang]% shape
5780 {\normalfont\large\itshape}% format applied to label+text
5781 {\thesubsection}% label
5782 {1em}% horizontal separation between label and title body
5783 {}% before the title body
5784 []% after the title body
5785 \titleformat{\paragraph}%
5786 [runin]% shape
5787 {\normalfont\itshape}% format applied to label+text
5788 {\theparagraph}% label
5789 {1em}% horizontal separation between label and title body
5790 {}% before the title body
5791 []% after the title body
5792 \titlespacing*{\chapter}{0pt}{50pt}{40pt}
5793 \titlespacing*{\section}{0pt}{3.5ex plus 1ex minus .2ex}{2.3ex plus .2ex}
5794 \titlespacing*{\subsection}{0pt}{3.25ex plus 1ex minus .2ex}{1.5ex plus .2ex}
5795 }
5796 % Subsubsection and following section headings shouldn't be used.
5797 % See Bringhurst's _The Elements of Typography_, section 4.2.2.
5798 \renewcommand\subsubsection{%
5799 \biditytetocError{\noexpand\subsubsection is undefined by this class.%
5800 \MessageBreak See Robert Bringhurst's _The Elements of
5801 \MessageBreak Typographic Style_, section 4.2.2.
5802 \MessageBreak \noexpand\subsubsection was used}
5803 {From Bringhurst's _The Elements of Typographic Style_, section 4.2.2: Use as
5804 \MessageBreak many levels of headings as you need, no more and no fewer. Also see the m
5805 \MessageBreak related threads on Ask E.T. at http://www.edwardbiditytetoc.com/.}
5806 }
5807 \renewcommand\subparagraph{%
5808 \biditytetocError{\noexpand\subparagraph is undefined by this class.%
5809 \MessageBreak See Robert Bringhurst's _The Elements of
5810 \MessageBreak Typographic Style_, section 4.2.2.
5811 \MessageBreak \noexpand\subparagraph was used}
5812 {From Bringhurst's _The Elements of Typographic Style_, section 4.2.2: Use as
5813 \MessageBreak many levels of headings as you need, no more and no fewer. Also see the m
5814 \MessageBreak related threads on Ask E.T. at http://www.edwardbiditytetoc.com/.}
5815 }
5816 % Formatting for main TOC (printed in front matter)

```



```

5817% {section} [left] {above} {before w/label} {before w/o label} {filler + page} [after]
5818\ifthenelse{\boolean{@biditytftoc@toc}}{%
5819  \bidi@patch@AfterPackage{bidi}{%
5820    \titlecontents{part}% FIXME
5821      [0em] % distance from left margin
5822      {\vspace{1.5\baselineskip}\begin{fullwidth}\LARGE\rmfamily\itshape} % above (global format
5823      {\contentslabel{2em}} % before w/label (label = ``II'')
5824      {} % before w/o label
5825      {\rmfamily\upshape\qqquad\thecontentspage} % filler + page (leaders and page num)
5826      [\end{fullwidth}] % after
5827  \titlecontents{chapter}%
5828    [0em] % distance from left margin
5829    {\vspace{1.5\baselineskip}\begin{fullwidth}\LARGE\rmfamily\itshape} % above (global format
5830    {\hspace*{0em}\contentslabel{2em}} % before w/label (label = ``2'')
5831    {\hspace*{0em}} % before w/o label
5832    {\rmfamily\upshape\qqquad\thecontentspage} % filler + page (leaders and page num)
5833    [\end{fullwidth}] % after
5834  \titlecontents{section}% FIXME
5835    [0em] % distance from left margin
5836    {\vspace{0\baselineskip}\begin{fullwidth}\Large\rmfamily\itshape} % above (global format
5837    {\hspace*{2em}\contentslabel{2em}} % before w/label (label = ``2.6'')
5838    {\hspace*{2em}} % before w/o label
5839    {\rmfamily\upshape\qqquad\thecontentspage} % filler + page (leaders and page num)
5840    [\end{fullwidth}] % after
5841  \titlecontents{subsection}% FIXME
5842    [0em] % distance from left margin
5843    {\vspace{0\baselineskip}\begin{fullwidth}\large\rmfamily\itshape} % above (global format
5844    {\hspace*{4em}\contentslabel{4em}} % before w/label (label = ``2.6.1'')
5845    {\hspace*{4em}} % before w/o label
5846    {\rmfamily\upshape\qqquad\thecontentspage} % filler + page (leaders and page num)
5847    [\end{fullwidth}] % after
5848  \titlecontents{paragraph}% FIXME
5849    [0em] % distance from left margin
5850    {\vspace{0\baselineskip}\begin{fullwidth}\normalsize\rmfamily\itshape} % above (global format
5851    {\hspace*{6em}\contentslabel{2em}} % before w/label (label = ``2.6.0.0.1'')
5852    {\hspace*{6em}} % before w/o label
5853    {\rmfamily\upshape\qqquad\thecontentspage} % filler + page (leaders and page num)
5854    [\end{fullwidth}] % after
5855}%
5856}{%
5857%%
5858% Format lists of figures/tables
5859\renewcommand\listoffigures{%
5860  \@ifundefined{chapter}%
5861    {\section*{\listfigurename}}%
5862    {\chapter*{\listfigurename}}%
5863% \begin{fullwidth}%
5864% \@starttoc{lof}%
5865% \end{fullwidth}%
5866}%
5867\renewcommand\listoftables{%
5868  \@ifundefined{chapter}%
5869    {\section*{\listtablename}}%
5870    {\chapter*{\listtablename}}%

```



```

5871 % \begin{fullwidth}%
5872 \starttoc{lot}%
5873 % \end{fullwidth}%
5874 }
5875 \newcommand{\@bidityfttoc@lof@line}[2]{%
5876 % #1 is the figure/table number and its caption text
5877 % #2 is the page number on which the figure/table appears
5878 \leftskip 0.0em
5879 \rightskip 0em
5880 \parfillskip 0em plus 1fil
5881 \parindent 0.0em
5882 \@afterindenttrue
5883 \interlinepenalty\M
5884 \leavevmode
5885 \@tempdima 2.0em
5886 \if@RTL\advance\rightskip\@tempdima\else\advance\leftskip\@tempdima\fi
5887 \null\nobreak\hskip -\if@RTL\rightskip\else\leftskip\fi
5888 {#1}\nobreak\quad\nobreak#2%
5889 \par%
5890 }
5891 \renewcommand*\l@figure{\@bidityfttoc@lof@line}
5892 \let\l@table\l@figure

```

## 25 File bidityftgeneralstructure.sty

```

5893 \NeedsTeXFormat{LaTeX2e}
5894 \ProvidesPackage{bidityftgeneralstructure}[2011/06/18 v0.1
5895 bidi implementation of tufte general structure]
5896 \renewcommand\small{%
5897 \setfontsize\small\@ixpt{12}%
5898 \abovedisplayskip 8.5\p@ \@plus3\p@ \@minus4\p@
5899 \abovedisplayshortskip \z@ \@plus2\p@
5900 \belowdisplayshortskip 4\p@ \@plus2\p@ \@minus2\p@
5901 \def\@listi{\leftmargin\leftmargini
5902 \topsep 4\p@ \@plus2\p@ \@minus2\p@
5903 \parsep 2\p@ \@plus\p@ \@minus\p@
5904 \itemsep \parsep}%
5905 \belowdisplayskip \abovedisplayskip
5906 }
5907 \renewcommand\scriptsize{\setfontsize\scriptsize\@viipt\@viiipt}
5908 \renewcommand\tiny{\setfontsize\tiny\@vpt\@vipt}
5909 \renewcommand\large{\setfontsize\large\@xipt{15}}
5910 \renewcommand\Large{\setfontsize\Large\@xiipt{16}}
5911 \renewcommand\LARGE{\setfontsize\LARGE\@xivpt{18}}
5912 \renewcommand\huge{\setfontsize\huge\@xxpt{30}}
5913 \renewcommand\Huge{\setfontsize\Huge{24}{36}}
5914 \setlength\leftmargini {1pc}
5915 \setlength\leftmarginii {1pc}
5916 \setlength\leftmarginiii {1pc}
5917 \setlength\leftmarginiv {1pc}
5918 \setlength\leftmarginv {1pc}
5919 \setlength\leftmarginvi {1pc}
5920 \setlength\labelsep {0.5pc}
5921 \setlength\labelwidth {\leftmargini}

```



```

5922 \addtolength\labelwidth{-\labelsep}
5923 \setlength{\parindent}{1.0pc}%
5924 \setlength{\parskip}{0pt}%
5925 \RequirePackage{ragged2e}
5926 \setlength{\RaggedRightRightskip}{\z@ plus 0.08\hsize}
5927 % Paragraph indentation and separation for normal text
5928 \newcommand{\@biditytgeneralstructure@reset@par}{%
5929   \setlength{\RaggedRightParindent}{1.0pc}%
5930   \setlength{\JustifyingParindent}{1.0pc}%
5931   \setlength{\parindent}{1pc}%
5932   \setlength{\parskip}{0pt}%
5933 }
5934 \@biditytgeneralstructure@reset@par
5935 % Require paralist package for tighter lists
5936 \RequirePackage{paralist}
5937 % Add rightmargin to compactenum
5938 \def\@compactenum{%
5939   \expandafter\list\csname label\@enumctr\endcsname{%
5940     \usecounter{\@enumctr}%
5941     \rightmargin=2em% added this
5942     \parsep\plparsep
5943     \itemsep\plitemsep
5944     \topsep\pltopsep
5945     \partopsep\plpartopsep
5946     \def\makelabel##1{\hss\llap{##1}}}%
5947 %%
5948 % An environment for paragraph-style section
5949 \providecommand\newthought[1]{%
5950   \addvspace{1.0\baselineskip plus 0.5ex minus 0.2ex}%
5951   \noindent\textbf{#1}%
5952 }
5953 %%
5954 % Redefine the display environments (quote, quotation, etc.)
5955 \renewenvironment{verse}
5956   {\let\\\@centercr
5957    \list{}{\itemsep \z@
5958             \itemindent -1pc%
5959             \listparindent\itemindent
5960             \rightmargin \leftmargin
5961             \advance\leftmargin 1pc}%
5962    \small%
5963    \item\relax}
5964   {\endlist}
5965 \renewenvironment{quotation}
5966   {\list{}{\listparindent 1pc%
5967            \itemindent \listparindent
5968            \rightmargin \leftmargin
5969            \parsep \z@ \@plus\p@}%
5970    \small%
5971    \item\relax\noindent\ignorespaces}
5972   {\endlist}
5973 \renewenvironment{quote}
5974   {\list{}{\rightmargin\leftmargin}%
5975    \small%

```



```

5976             \item\relax}
5977         {\endlist}
5978 % Italicize description run-in headings (instead of the default bold)
5979 \renewcommand*{\descriptionlabel[1]{\hspace\labelsep\normalfont\em #1}
5980 %%
5981 % Redefine \bibsection to not mark the running heads.
5982 % (Code modified from natbib.sty.)
5983 \@ifundefined{chapter}%
5984   {\renewcommand\bibsection{\section*{\refname}}}
5985   {\@ifundefined{NAT@sectionbib}%
5986     {\renewcommand\bibsection{\chapter{\bibname}}}
5987     {\renewcommand\bibsection{\section*{\bibname}}}}
5988 \RequirePackage{multicol}
5989 \renewenvironment{theindex}{%
5990   \@ifundefined{chapter}%
5991     {\section*{\indexname}}%
5992     {\chapter{\indexname}}%
5993   \begin{fullwidth}%
5994     \small%
5995     \parskip0pt%
5996     \parindent0pt%
5997     \let\item\@idxitem%
5998     \begin{multicols}{3}%
5999   }{%
6000     \end{multicols}%
6001     \end{fullwidth}%
6002 }
6003 \AtBeginDocument{%
6004 \renewcommand\@idxitem{\par\hangindent \if@RTL-\fi2em}%
6005 \renewcommand\subitem{\par\hangindent \if@RTL-\fi3em\hspace*{1em}}%
6006 \renewcommand\subsubitem{\par\hangindent \if@RTL-\fi4em\hspace*{2em}}%
6007 \renewcommand\indexspace{\par\addvspace{1.0\baselineskip plus 0.5ex minus 0.2ex}\relax}%
6008 \newcommand{\lettergroup}[1]{% swallow the letter heading in the index

```

## 26 File `bidituftehyperref.sty`

```

6009 \NeedsTeXFormat{LaTeX2e}
6010 \ProvidesPackage{bidituftehyperref}[2011/06/18 v0.1
6011 bidi implementation of tufte hyperref]
6012 %%
6013 % Color
6014 \RequirePackage[usenames,dvipsnames,svgnames]{xcolor}%
6015 \newboolean{@bidituftehyperref@loadhyper}
6016 \setboolean{@bidituftehyperref@loadhyper}{true}
6017 \DeclareOption{hyper}{\setboolean{@bidituftehyperref@loadhyper}{true}}
6018 \DeclareOption{nohyper}{\setboolean{@bidituftehyperref@loadhyper}{false}}
6019 \ProcessOptions
6020 %% Loads the hyperref package and sets some default options.
6021 \newcommand{\bidituftehyperrefLoadHyperref}{%
6022 \RequirePackage[hyperfootnotes=false,colorlinks=true]{hyperref}
6023 \hypersetup{%
6024   bookmarksdepth = section,
6025   citecolor = DarkGreen,
6026   linkcolor = DarkBlue,

```



```

6027 %    pagecolor = DarkBlue,
6028     urlcolor = DarkGreen,
6029 }%
6030 }
6031 \ifthenelse{\boolean{@biditytftt@loadhyper}}{%
6032   \biditytftt@loadhyperref%
6033 }{% hyperfootnotes override our modifications to the \footnote* and \@footnote* commands.
6034   \PassOptionsToPackage{hyperfootnotes=false}{hyperref}
6035 }

```

## 27 File biditytftttitle.sty

```

6036 \NeedsTeXFormat{LaTeX2e}
6037 \ProvidesPackage{biditytftttitle}[2011/06/18 v0.1
6038   bidi implementation of tufte title]
6039 \RequirePackage{biditytools}
6040 %%
6041 % 'titlepage' option -- creates a full title page with \maketitle
6042 \newboolean{@biditytftt@titlepage}
6043 \DeclareOption{titlepage}{\setboolean{@biditytftt@titlepage}{true}}
6044 \DeclareOption{notitlepage}{\setboolean{@biditytftt@titlepage}{false}}
6045 % Default 'book' and 'handout' options
6046 \ifclassloaded{book}{%
6047   \ExecuteOptions{titlepage}}{%
6048   \ifclassloaded{article}{%
6049     \ExecuteOptions{notitlepage}}%
6050 {}%
6051 \ProcessOptions
6052 %%
6053 % Modified \title, \author, and \date commands. These store the
6054 % (footnote-less) values in \plaintitle, \plainauthor, and \thedata, respectively.
6055 \newcommand{\plaintitle}{}% plain-text-only title
6056 \newcommand{\plainauthor}{}% plain-text-only author
6057 \newcommand{\plainpublisher}{}% plain-text-only publisher
6058 \newcommand{\thanklesstitle}{}% full title text minus \thanks{}
6059 \newcommand{\thanklessauthor}{}% full author text minus \thanks{}
6060 \newcommand{\thanklesspublisher}{}% full publisher minus \thanks{}
6061 \newcommand{\@publisher}{}% full publisher with \thanks{}
6062 \newcommand{\thedata}{\today}
6063 \bidity@patch@AfterPackage{bidi}{%
6064   \renewcommand{\thanks}[1]{\footnote{#1}}
6065   \renewcommand{\LTRthanks}[1]{\LTRfootnote{#1}}
6066   \renewcommand{\RTLthanks}[1]{\RTLfootnote{#1}}
6067 }
6068 \renewcommand{\title}[2]{}%
6069 \gdef\@title{#2}%
6070 \begingroup%
6071   % TODO store contents of \thanks command
6072   \renewcommand{\thanks}[1]{}% swallow \thanks contents
6073   \renewcommand{\LTRthanks}[1]{}% swallow \LTRthanks contents
6074   \renewcommand{\RTLthanks}[1]{}% swallow \RTLthanks contents
6075   \protected@xdef\thanklesstitle{#2}%
6076 \endgroup%
6077 \ifthenelse{\isempty{#1}}%

```



```

6078     {\renewcommand{\plaintitle}{\thanklesstitle}}% use thankless title
6079     {\renewcommand{\plaintitle}{#1}}% use provided plain-text title
6080 \@ifundefined{hypersetup}%
6081 {}% hyperref is not loaded; do nothing
6082     {\hypersetup{pdftitle={\plaintitle}}}% set the PDF metadata title
6083 }
6084 \let\@author\@empty% suppress default latex.ltx ``no author'' warning
6085 \renewcommand{\author}[2][]{%
6086     \ifthenelse{\isempty{#2}}{\gdef\@author{#2}}%
6087     \begingroup%
6088         % TODO store contents of \thanks command
6089         \renewcommand{\thanks}[1]{}% swallow \thanks contents
6090         \renewcommand{\LTRthanks}[1]{}% swallow \LTRthanks contents
6091         \renewcommand{\RTLthanks}[1]{}% swallow \RTLthanks contents
6092         \protected@xdef\thanklessauthor{#2}%
6093     \endgroup%
6094     \ifthenelse{\isempty{#1}}%
6095         {\renewcommand{\plainauthor}{\thanklessauthor}}% use thankless author
6096         {\renewcommand{\plainauthor}{#1}}% use provided plain-text author
6097     \@ifundefined{hypersetup}%
6098     {}% hyperref is not loaded; do nothing
6099     {\hypersetup{pdfauthor={\plainauthor}}}% set the PDF metadata author
6100 }
6101 \renewcommand{\date}[1]{%
6102     \gdef\@date{#1}%
6103     \begingroup%
6104         % TODO store contents of \thanks command
6105         \renewcommand{\thanks}[1]{}% swallow \thanks contents
6106         \renewcommand{\LTRthanks}[1]{}% swallow \LTRthanks contents
6107         \renewcommand{\RTLthanks}[1]{}% swallow \RTLthanks contents
6108         \protected@xdef\thedata{#1}%
6109     \endgroup%
6110 }
6111 %%
6112 % Provides a \publisher command to set the publisher
6113 \newcommand{\publisher}[2][]{%
6114     \gdef\@publisher{#2}%
6115     \begingroup%
6116         \renewcommand{\thanks}[1]{}% swallow \thanks contents
6117         \renewcommand{\LTRthanks}[1]{}% swallow \LTRthanks contents
6118         \renewcommand{\RTLthanks}[1]{}% swallow \RTLthanks contents
6119         \protected@xdef\thanklesspublisher{#2}%
6120     \endgroup%
6121     \ifthenelse{\isempty{#1}}%
6122         {\renewcommand{\plainpublisher}{\thanklesspublisher}}% use thankless publisher
6123         {\renewcommand{\plainpublisher}{#1}}% use provided plain-text publisher
6124 }
6125 %%
6126 % Produces a full title page
6127 \newcommand{\maketitlepage}[0]{%
6128     \cleardoublepage%
6129     {%
6130         \bfseries%
6131         \begin{fullwidth}%

```



```

6132 \fontsize{18}{20}\selectfont\par\noindent\thanklessauthor%
6133 \vspace{11.5pc}%
6134 \fontsize{36}{40}\selectfont\par\noindent\thanklesstitle%
6135 \vfill%
6136 \fontsize{14}{16}\selectfont\par\noindent\thanklesspublisher%
6137 \end{fullwidth}%
6138 }
6139 \thispagestyle{empty}%
6140 \clearpage%
6141 }
6142 %%
6143 % Title block
6144 \bidi@AfterEndPreamble{%
6145 \renewcommand{\maketitle}{%
6146 \newpage%
6147 \global\topnum\z@% prevent floats from being placed at the top of the page
6148 \begin{group}%
6149 \setlength{\parindent}{0pt}%
6150 \setlength{\parskip}{4pt}%
6151 \let\@title\@empty%
6152 \let\@author\@empty%
6153 \let\@date\@empty%
6154 \gdef\@title{\LARGE\itshape\@title\par}%
6155 \gdef\@author{\Large\itshape\@author\par}%
6156 \gdef\@date{\Large\itshape\@date\par}%
6157 \@title%
6158 \@author%
6159 \@date%
6160 \end{group}%
6161 \thispagestyle{plain}% suppress the running head
6162 }%
6163 }
6164 %%
6165 % Title page (if the 'titlepage' option was passed to the bidentuftetitle-handout
6166 % class.)
6167 \bidi@AfterEndPreamble{%
6168 \ifthenelse{\boolean{@bidentuftetitle@titlepage}}{
6169 {\renewcommand{\maketitle}{\maketitlepage}}
6170 {}
6171 }
6172 %%
6173 % When \cleardoublepage is called, produce a blank (empty) page -- i.e.,
6174 % without headers and footers
6175 \def\cleardoublepage{\clearpage\if@twoside\ifodd\c@page\else
6176 \hbox{}
6177 %\vspace*{\fill}
6178 %\begin{center}
6179 % This page intentionally contains only this sentence.
6180 %\end{center}
6181 %\vspace{\fill}
6182 \thispagestyle{empty}
6183 \newpage
6184 \if@twocolumn\hbox{}\newpage\fi\fi\fi}

```





## 28 File `biditufte-handout.cls`

```
6185 \NeedsTeXFormat{LaTeX2e}[1994/06/01]
6186 \ProvidesClass{biditufte-handout}[2011/06/18 v0.1 biditufte-handout class]
6187 \DeclareOption*{\PassOptionsToClass{\CurrentOption}{article}}
6188 \DeclareOption*{\PassOptionsToClass{\CurrentOption}{bidituftefloat}}
6189 \DeclareOption*{\PassOptionsToClass{\CurrentOption}{bidituftetoc}}
6190 \DeclareOption*{\PassOptionsToClass{\CurrentOption}{bidituftehyperref}}
6191 \DeclareOption*{\PassOptionsToClass{\CurrentOption}{bidituftetitle}}
6192 \ProcessOptions\relax
6193 \LoadClass{article}
6194 \RequirePackage{bidituftefloat}
6195 \RequirePackage{bidituftesidenote}
6196 \RequirePackage{bidituftetoc}
6197 \RequirePackage{bidituftegeneralstructure}
6198 \RequirePackage{bidituftehyperref}
6199 \RequirePackage{bidituftetitle}
6200 \renewenvironment{abstract}
6201   {\begin{quotation}}
6202   {\end{quotation}}
6203 \AtBeginDocument{%
6204   \IfFileExists{biditufte-handout.cfg}
6205   {\input{biditufte-handout.cfg}
6206     \ClassInfo{biditufte-handout}{Loading biditufte-handout configuration file \@gobble}}
6207   {}%
6208 }
```

## 29 File `biditufte-book.cls`

```
6209 \NeedsTeXFormat{LaTeX2e}[1994/06/01]
6210 \ProvidesClass{biditufte-book}[2011/06/18 v0.1 biditufte-book class]
6211 \DeclareOption*{\PassOptionsToClass{\CurrentOption}{book}}
6212 \DeclareOption*{\PassOptionsToClass{\CurrentOption}{bidituftefloat}}
6213 \DeclareOption*{\PassOptionsToClass{\CurrentOption}{bidituftetoc}}
6214 \DeclareOption*{\PassOptionsToClass{\CurrentOption}{bidituftehyperref}}
6215 \DeclareOption*{\PassOptionsToClass{\CurrentOption}{bidituftetitle}}
6216 \ProcessOptions\relax
6217 \LoadClass{book}
6218 \RequirePackage{bidituftefloat}
6219 \RequirePackage{bidituftesidenote}
6220 \RequirePackage{bidituftetoc}
6221 \RequirePackage{bidituftegeneralstructure}
6222 \RequirePackage{bidituftehyperref}
6223 \RequirePackage{bidituftetitle}
6224 %%
6225 % Set up any book-specific stuff now
6226 %%
6227 % The front matter in Tufte's /Beautiful Evidence/ contains everything up
6228 % to the opening page of Chapter 1. The running heads, when they appear,
6229 % contain only the (arabic) page number in the outside corner.
6230 %\newif\if@mainmatter \@mainmattertrue
6231 \renewcommand\frontmatter{%
6232   \cleardoublepage%
6233   \@mainmatterfalse%
```



```

6234 \pagenumbering{arabic}%
6235 %\pagestyle{plain}%
6236 \fancyhf{}%
6237 \ifthenelse{\boolean{@bidituftefloat@twoside}}%
6238 {\fancyhead[LE,RO]{\thepage}}%
6239 {\fancyhead[RE,RO]{\thepage}}%
6240 }
6241 %%
6242 % The main matter in Tufte's /Beautiful Evidence/ doesn't restart the page
6243 % numbering---it continues where it left off in the front matter.
6244 \renewcommand\mainmatter{%
6245 \cleardoublepage%
6246 \@mainmattertrue%
6247 \fancyhf{}%
6248 \ifthenelse{\boolean{@bidituftefloat@twoside}}%
6249 {\renewcommand{\chaptermark}[1]{\markboth{##1}{}}}%
6250 \fancyhead[LE]{\thepage\quad\smallcaps{\newlinetospace{\plaintitle}}}% book title
6251 \fancyhead[RO]{\smallcaps{\newlinetospace{\leftmark}}\quad\thepage}% chapter title
6252 {\fancyhead[RE,RO]{\smallcaps{\newlinetospace{\plaintitle}}\quad\thepage}}% book title
6253 }
6254 %%
6255 % The back matter contains appendices, indices, glossaries, endnotes,
6256 % bibliographies, list of contributors, illustration credits, etc.
6257 \renewcommand\backmatter{%
6258 \if@openright%
6259 \cleardoublepage%
6260 \else%
6261 \clearpage%
6262 \fi%
6263 \@mainmatterfalse%
6264 }
6265 %%
6266 % Only show the chapter titles in the table of contents
6267 \setcounter{tocdepth}{0}
6268 \AtBeginDocument{%
6269 \IfFileExists{biditufte-book.cfg}
6270 {\input{biditufte-book.cfg}
6271 \ClassInfo{biditufte-book}{Loading biditufte-book configuration file \@gobble}}
6272 {}%
6273 }

```

### 30 File bidipoem.sty

```

6274 \NeedsTeXFormat{LaTeX2e}
6275 \ProvidesPackage{bidipoem}%
6276 [2019/03/03 v1.0 Environments for typesetting Persian traditional and modern poems]
6277
6278 % Usage:
6279 %
6280 % \Setversedim #1#2 % define the layout (within a group):
6281 % #1 = length of both half-verses
6282 % #2 = separation distance = length of a connection, if present
6283 % Variant:
6284 % \Setversedim #1[#2]#3 % for half-verses of unequal length

```



```

6285 % #1 = length of first (=right) half-verse
6286 % #2 = length of second (=left) half-verse
6287 % #3 = separation distance = length of a connection, if present
6288 %
6289 % \traditionalhalfverses #1#2 % typeset two separated half-verses
6290 % #1 = text of first (=right) half-verse
6291 % #2 = text of second (=left) half-verse
6292 % Variant:
6293 % \traditionalhalfverses #1[#2]#3 % typeset two connected half-verses
6294 % #1 = text of first (=right) half-verse
6295 % #2 = text of connection
6296 % #3 = text of second (=left) half-verse
6297 %
6298 % Alternative (if preferred):
6299 %
6300 % \traditionalconnverses #1#2#3 % = \traditionalhalfverses #1[#2]#3
6301
6302
6303 \newcommand*{\bidipoem@spreadbox}[2]{\hbox to #1{#2}}
6304
6305 % define the layout, verses will be centered
6306
6307 \newdimen \bidipoem@hvlen \newdimen \bidipoem@hvsep
6308 \newdimen \bidipoem@hvind \newdimen \bidipoem@@hvlen
6309
6310 \newcommand*{\Setversedim}[2]{% set lengths of half-verse, [separation]
6311 \bidipoem@hvind \textwidth
6312 \bidipoem@hvlen #1\relax \advance \bidipoem@hvind -\bidipoem@hvlen
6313 \ifx [#2\def \bidipoem@next {\bidipoem@set@verseI []}\else
6314 \bidipoem@@hvlen \bidipoem@hvlen \def \bidipoem@next {\bidipoem@set@@verse {#2}}\fi \bidipoem@
6315
6316 \def \bidipoem@set@verseI [#1]{% optional parameter
6317 \bidipoem@@hvlen #1\relax \bidipoem@set@@verse }
6318
6319 \newcommand*{\bidipoem@set@@verse}[1]{% separation
6320 \advance \bidipoem@hvind -\bidipoem@@hvlen \bidipoem@hvsep #1\relax
6321 \advance \bidipoem@hvind -\bidipoem@hvsep \divide \bidipoem@hvind 2 }
6322
6323 \newcommand*{\traditionalconnverses}[3]{% first half-verse, connection, second half-verse
6324 \ifdim Opt > \bidipoem@hvind %
6325 \bidipoem@spreadbox \bidipoem@hvlen {#1}\ \hfill % first block
6326 \else
6327 \noindent \hskip \bidipoem@hvind \relax \bidipoem@spreadbox \bidipoem@hvlen {#1}\fi
6328 \bidipoem@spreadbox \bidipoem@hvsep {#2}% separator
6329 \bidipoem@spreadbox \bidipoem@@hvlen {#3}% second block
6330 \par }
6331
6332 % macro for two half verses
6333 \newcommand*{\traditionalhalfverses}[2]{% optional parameter?
6334 \ifx [#2\def \bidipoem@half@verses@next {\bidipoem@half@verses {#1}[]}%
6335 \else \def \bidipoem@half@verses@next {\bidipoem@half@verses {#1}[\hfill]{#2}}\fi%
6336 \bidipoem@half@verses@next}
6337
6338 \def \bidipoem@half@verses #1[#2]#3{% first[mid]second

```



```

6339 \traditionalconnverses {#1}{#2}{#3}}
6340
6341
6342 {\catcode`\^^M=\active % these lines must end with %
6343 \gdef\traditionalpoem@obeylines{\catcode`\^^M\active \let^^M\traditionalpoem@par}%
6344 \global\let^^M\traditionalpoem@par} % this is in case ^^M appears in a \write
6345 {\catcode`\^^M=\active % these lines must end with %
6346 \gdef\modernpoem@obeylines{\catcode`\^^M\active \let^^M\modernpoem@par}%
6347 \global\let^^M\modernpoem@par} % this is in case ^^M appears in a \write
6348 \def\poemcolsepskip{.1\versewidth plus .1\versewidth minus .05\versewidth}
6349 \def\poemmarginskip{1em plus 1fil minus 1em}
6350 \def\poemextrabaseskip{0\baselineskip}
6351 \def\poemskip{\medskip}
6352 \newcommand{\bidipoem@openbox}{\leavevmode
6353 \hbox to.77778em{%
6354 \hfil\vrule
6355 \vbox to.675em{\hrule width.6em\vfil\hrule}%
6356 \vrule\hfil}}
6357 \def\poemblocksep{\quad\hbox{\bidipoem@openbox}}
6358 \newdimen\versewidth
6359 \newtoks\bidipoem@p@ftn
6360 \def\poem@verse#1{%
6361 \ifdim\wd#1>\new@poem@width
6362 \xdef\new@poem@width{\the\wd#1}%
6363 \ifdim\new@poem@width>\poem@width
6364 \xdef\poem@width{\new@poem@width}%
6365 \global\let\poem@needrun\relax
6366 \fi
6367 \fi
6368 \hbox to\poem@width{\unhbox#1}%
6369 \global\bidipoem@p@ftn\expandafter{\expandafter}\the\bidipoem@p@ftn%
6370 }
6371 \def\poem@linebegin{\vadjust{}\hskip\@flushglue\hskip\poemmarginskip\relax}
6372 \def\poem@lineend{\nobreak\hskip\poemmarginskip\hskip\@flushglue\vadjust{}}
6373 \def\poem@lineversesep{%
6374 \nobreak
6375 \hskip\z@ plus 1filll%
6376 \penalty600%
6377 \hskip\poemcolsepskip
6378 \hskip\z@ plus -2filll%
6379 \vadjust{}}%
6380 \nobreak
6381 \hskip\z@ plus 1filll%
6382 }
6383 \def\poem@lineparsebegin{%
6384 \halign\bgroup
6385 \global\setbox\verse@i=\hbox{%
6386 \let\@footnotetext\bidipoem@p@ftntext%
6387 \let\@LTrfootnotetext\bidipoem@p@LTRftntext%
6388 \let\@RTLfootnotetext\bidipoem@p@RTLftntext%
6389 \let\@xfootnotenext\bidipoem@p@xftntext%
6390 \let\@xfootnote\bidipoem@p@xfootnote%
6391 \let\@xLTRfootnotenext\bidipoem@p@xLTRftntext%
6392 \let\@xLTRfootnote\bidipoem@p@xLTRfootnote%

```



```

6393 \let\@xRTLfootnotenext\bidipoem@p@xRTLftntext%
6394 \let\@xRTLfootnote\bidipoem@p@xRTLfootnote%
6395 \ignorespaces##\unskip}&&
6396 \global\setbox\verse@ii=\hbox{%
6397 \let\@footnotetext\bidipoem@p@ftntext%
6398 \let\@LTRfootnotetext\bidipoem@p@LTRftntext%
6399 \let\@RTLfootnotetext\bidipoem@p@RTLftntext%
6400 \let\@xfootnotenext\bidipoem@p@xftntext%
6401 \let\@xfootnote\bidipoem@p@xfootnote%
6402 \let\@xLTRfootnotenext\bidipoem@p@xLTRftntext%
6403 \let\@xLTRfootnote\bidipoem@p@xLTRfootnote%
6404 \let\@xRTLfootnotenext\bidipoem@p@xRTLftntext%
6405 \let\@xRTLfootnote\bidipoem@p@xRTLfootnote%
6406 \ignorespaces##\unskip}
6407 \cr
6408 }
6409 \def\poem@lineparseend{%
6410 \crr\egroup
6411 \vskip-\baselineskip
6412 }
6413 \def\traditionalpoem@cr{%
6414 \cr\poem@line
6415 }
6416 \newbox\verse@i
6417 \newbox\verse@ii
6418 \newif\ifpoem@started
6419
6420 \def\poem@line{%
6421 \poem@lineparseend
6422 \ifdim\wd\verse@i>\z@\global\poem@startedtrue\fi
6423 \ifdim\wd\verse@ii>\z@\global\poem@startedtrue\fi
6424 \ifpoem@started
6425 \ifdim\wd\verse@ii>\z@\else
6426 \nopagebreak[3]
6427 \fi
6428 \leavevmode
6429 \poem@linebegin
6430 \poem@verse\verse@i
6431 \ifdim\wd\verse@ii>\z@
6432 \poem@lineversesep
6433 \poem@verse\verse@ii
6434 \fi
6435 \poem@lineend
6436 % \nopagebreak
6437 \par
6438 \vskip\poemextrabaselineskip
6439 \fi
6440 \poem@lineparsebegin
6441 }
6442 \def\@traditionalpoem{%
6443 \stepcounter{poem@no}
6444 \ifnum\max@poem@no<\number\c@poem@no%
6445 \xdef\poem@width{\z@}%
6446 \else

```



```

6447 \xdef\poem@width{\poem@prop{poem@width}}%
6448 \fi
6449 \xdef\new@poem@width{\z@}%
6450 \global\versewidth=\poem@width
6451 \poemskip\par
6452 \begingroup
6453 \tabskip=\z@
6454 \parskip=\z@
6455 \parindent=\z@
6456 \parfillskip=\z@
6457 \rightskip=\z@
6458 \leftskip=\z@
6459 \widowpenalty=10000% No break between verses of the same line.
6460 \clubpenalty=10000% Same as above. Not really needed.
6461 \def\newblock{\hfil\poemblocksep\hfil\null}%
6462 \def\traditionalpoem@par{\traditionalpoem@cr}% Redefine \par for possible \obeylines
6463 \def\{\global\poem@startedtrue\traditionalpoem@cr}%
6464 \global\poem@startedfalse
6465 \csname poem@obeylines\endcsname
6466 \let\poem@obeylines\relax
6467 \poem@lineparsebegin
6468 }
6469 \def\@endtraditionalpoem{%
6470 \cr
6471 \ifdim\wd\verse@i>\z@\poem@line\else\ifdim\wd\verse@ii>\z@\poem@line\else
6472 \noalign{%
6473 \skip0=\poemextrabaselineskip
6474 \vskip-\skip0
6475 \vskip-\baselineskip
6476 }%
6477 \fi\fi
6478 \poem@lineparseend
6479 \endgroup
6480 \par
6481 \vskip\baselineskip
6482 \poemskip
6483 \ifdim\new@poem@width<\poem@width
6484 \global\let\poem@needrun\relax
6485 \fi
6486 \poem@write@aux{poem@width@romannumeral\c@poem@no}{\new@poem@width}%
6487 \ifx\AtEndDocument\undefined\poem@finish\fi
6488 \@endparenv
6489 }
6490
6491
6492 \long\def\bidipoem@p@ftntext#1{%
6493 \edef\@tempxi{\the\bidipoem@p@ftn\noexpand\footnotetext[\the\csname c@\mpfn\endcsname]]}%
6494 \global\bidipoem@p@ftn\expandafter{\@tempxi{#1}}}%
6495 \long\def\bidipoem@p@LTRftntext#1{%
6496 \edef\@tempxi{\the\bidipoem@p@ftn\noexpand\LTRfootnotetext[\the\csname c@\mpfn\endcsname]]}%
6497 \global\bidipoem@p@ftn\expandafter{\@tempxi{#1}}}%
6498 \long\def\bidipoem@p@RTLftntext#1{%
6499 \edef\@tempxii{\the\bidipoem@p@ftn\noexpand\RTLfootnotetext[\the\csname c@\mpfn\endcsname]]}%
6500 \global\bidipoem@p@ftn\expandafter{\@tempxii{#1}}}%

```



```

6501
6502 \long\def\bidipoem@p@xftntext[#1]#2{%
6503   \global\bidipoem@p@ftn\expandafter{\the\bidipoem@p@ftn\footnotetext[#1]{#2}}
6504
6505 \long\def\bidipoem@p@xLTRftntext[#1]#2{%
6506   \global\bidipoem@p@ftn\expandafter{\the\bidipoem@p@ftn\LTRfootnotetext[#1]{#2}}
6507
6508 \long\def\bidipoem@p@xRTLftntext[#1]#2{%
6509   \global\bidipoem@p@ftn\expandafter{\the\bidipoem@p@ftn\RTLfootnotetext[#1]{#2}}
6510
6511 \def\bidipoem@p@xfootnote[#1]{%
6512   \begingroup
6513     \csname c@\mpfn\endcsname #1\relax
6514     \unrestored@protected@xdef\@thefnmark{\thempfn}%
6515   \endgroup
6516   \@footnotemark\bidipoem@p@xftntext[#1]}
6517
6518 \def\bidipoem@p@xLTRfootnote[#1]{%
6519   \begingroup
6520     \csname c@\mpfn\endcsname #1\relax
6521     \unrestored@protected@xdef\@thefnmark{\thempfn}%
6522   \endgroup
6523   \@footnotemark\bidipoem@p@xLTRftntext[#1]}
6524
6525 \def\bidipoem@p@xRTLfootnote[#1]{%
6526   \begingroup
6527     \csname c@\mpfn\endcsname #1\relax
6528     \unrestored@protected@xdef\@thefnmark{\thempfn}%
6529   \endgroup
6530   \@footnotemark\bidipoem@p@xRTLftntext[#1]}
6531
6532
6533
6534 \newenvironment{traditionalpoem}{\@traditionalpoem}{\@endtraditionalpoem}
6535 \expandafter\def\csname traditionalpoem*\endcsname{\let\poem@obeylines=\traditionalpoem@obey
6536 \expandafter\def\csname endtraditionalpoem*\endcsname{\endtraditionalpoem}
6537 \def\poem@finish{%
6538 \poem@write@aux{max@poem@no}{\number\c@poem@no}%
6539 \ifx\poem@needrun\relax
6540 \PackageWarning{bidipoem}{Unjustified poem. Rerun XeLaTeX to get poem right}%
6541 \global\let\poem@needrun\undefined
6542 \fi
6543 }
6544 \ifx\AtEndDocument\undefined\else\AtEndDocument\poem@finish\fi
6545 \newcounter{poem@no}\setcounter{poem@no}{\z@}
6546 \ifx\max@poem@no\undefined
6547   \def\max@poem@no{0}%
6548 \fi
6549 \newcommand{\poem@prop}[1]{\@nameuse{#1@romannumeral\c@poem@no}}
6550 \newcommand{\poem@write@aux}[2]{%
6551   \def\@x{\immediate\write\@auxout{\global\noexpand\@namedef{#1}{#2}}}%
6552   \@x
6553 }
6554 \def\@modernpoem{%

```



```

6555 \par
6556 \begingroup
6557 \parskip=\z@
6558 \parindent=\z@
6559 \def\[{ \settab\@tabplus\ignorespaces}%
6560 \def\] { \settab\@tabminus\ignorespaces}%
6561 \def\newblock { \poemblocksep}%
6562 \let\newpoem@tabcr\@tabcr
6563 \def\modernpoem@par { % Redefine \par for possible \obeylines
6564   \ifpoem@started\else
6565     \ifdim\wd\@curline > \z@ \global\poem@startedtrue\else
6566       \stopfield
6567     \ifdim\wd\@curfield > \z@ \global\poem@startedtrue\fi
6568     \contfield
6569   \fi
6570 \fi
6571 \ifpoem@started\newpoem@tabcr\fi}%
6572 \def\@tabcr { \global\poem@startedtrue\newpoem@tabcr}%
6573 \global\poem@startedfalse
6574 \csname poem@obeylines\endcsname
6575 \let\poem@obeylines\relax
6576 \begin{tabbing}%
6577 }
6578 \def\@endmodernpoem { %
6579 \global\poem@startedfalse
6580 \ifdim\wd\@curline > \z@ \global\poem@startedtrue\else
6581   \stopfield
6582   \ifdim\wd\@curfield > \z@ \global\poem@startedtrue\fi
6583   \contfield
6584 \fi
6585 \ifpoem@started\else\let\@stopline\@stopfield\fi
6586 \end{tabbing}%
6587 \endgroup
6588 \par
6589 \if@nparlist \else
6590   \ifdim\lastskip > \z@
6591     \tempkipa\lastskip \vskip -\lastskip
6592     \advance\@tempkipa\parskip \advance\@tempkipa -\@outerparskip
6593     \vskip\@tempkipa
6594   \fi
6595   \@endparenv
6596 \fi
6597 }
6598 \newenvironment{modernpoem} { \@modernpoem } { \@endmodernpoem }
6599 \expandafter\def\csname modernpoem*\endcsname { \let\poem@obeylines=\modernpoem@obeylines\mode
6600 \expandafter\def\csname endmodernpoem*\endcsname { \endmodernpoem }
6601 \gdef\@startfield { %
6602 \global\setbox\@curfield\hbox\bgroup%
6603 \let\@footnotetext\bidipoem@p@ftntext%
6604 \let\@LTRfootnotetext\bidipoem@p@LTRftntext%
6605 \let\@RTLfootnotetext\bidipoem@p@RTLftntext%
6606 \let\@xfootnotenext\bidipoem@p@xftntext%
6607 \let\@xfootnote\bidipoem@p@xfootnote%
6608 \let\@xLTRfootnotenext\bidipoem@p@xLTRftntext%

```





```

6609 \let\@xLTRfootnote\bidipoem@p@xLTRfootnote%
6610 \let\@xRTLfootnotenext\bidipoem@p@xRTLftntext%
6611 \let\@xRTLfootnote\bidipoem@p@xRTLfootnote%
6612 \color@begingroup}
6613 \gdef\@stopfield{%
6614   \color@endgroup\egroup\global\bidipoem@p@ftn\expandafter{\expandafter}\the\bidipoem@p@ftn}
6615 \gdef\@contfield{%
6616   \global\setbox\@curfield\hbox\bgroup%
6617   \let\@footnotetext\bidipoem@p@ftntext%
6618   \let\@LTRfootnotetext\bidipoem@p@LTRftntext%
6619   \let\@RTLfootnotetext\bidipoem@p@RTLftntext%
6620   \let\@xfootnotenext\bidipoem@p@xftntext%
6621   \let\@xfootnote\bidipoem@p@xfootnote%
6622   \let\@xLTRfootnotenext\bidipoem@p@xLTRftntext%
6623   \let\@xLTRfootnote\bidipoem@p@xLTRfootnote%
6624   \let\@xRTLfootnotenext\bidipoem@p@xRTLftntext%
6625   \let\@xRTLfootnote\bidipoem@p@xRTLfootnote%
6626   \color@begingroup\unhbox\@curfield}

```

### 31 File boek3-xetex-bidi.def

```

6627 \ProvidesFile{boek3-xetex-bidi.def}[2017/06/09 v0.4 bidi adaptations for boek3 class for XeT
6628 \renewenvironment{theindex}{%
6629   \if@twocolumn
6630     \@restonecolfalse
6631   \else
6632     \@restonecoltrue
6633   \fi
6634   \columnseprule \z@
6635   \columnsep 35\p@
6636   \twocolumn[\@makeschapterhead{\indexname}]%
6637   \@mkboth{\MakeUppercase{\indexname}}{\MakeUppercase{\indexname}}%
6638   \thispagestyle{plain}\parindent\z@
6639   \parskip\z@ \@plus .3\p@\relax
6640   \let\item\@idxitem
6641 }{%
6642   \if@restonecol\onecolumn\else\clearpage\fi}
6643 \renewcommand*\head@style{%
6644   \interlinepenalty \@M
6645   \hyphenpenalty=\@M \exhyphenpenalty=\@M
6646   \if@RTL\leftskip\else\rightskip\fi=0cm plus .7\hsize\relax}
6647 \renewcommand*\@regtocline[3]{%
6648   \ifnum #1>\c@tocdepth
6649   \else
6650     \vskip\z@\@plus.2\p@
6651     {\hangindent\z@ \@afterindenttrue \interlinepenalty\@M
6652     \if@RTL\rightskip\else\leftskip\fi\unitindent
6653     \if@RTL\leftskip\else\rightskip\fi\unitindent\@plus 1fil
6654     \parfillskip\z@
6655     \@tempdima\unitindent
6656     \parindent\z@
6657     \leavevmode
6658     \hbox{}\hskip -\if@RTL\rightskip\else\leftskip\fi\relax#2\nobreak
6659     \hskip 1em \nobreak{\slshape #3}\par

```



```

6660     }%
6661   \fi}
6662 \if@oldtoc
6663 \renewcommand*\l@part[2]{%
6664   \ifnum \c@tocdepth >-2\relax
6665     \addpenalty{-\@highpenalty}%
6666     \addvspace{2.25em \@plus\p@}%
6667     \begingroup
6668       \setlength\@tempdima{3em}%
6669       \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
6670       \parfillskip -\@pnumwidth
6671       {\leavevmode
6672         \large \bfseries #1\hfil \hb@xt@\@pnumwidth{\hss #2}}\par
6673         \nobreak
6674         \global\@nobreaktrue
6675         \everypar{\global\@nobreakfalse\everypar{}}%
6676       \endgroup
6677   \fi}
6678 \else
6679   \renewcommand*\l@part{%
6680     \ifnum \c@tocdepth >-2\relax
6681       \addpenalty{-\@highpenalty}%
6682       \addvspace{2.25em \@plus \p@}%
6683       \regtocline{0}%
6684     \fi}
6685 \fi
6686 \if@oldtoc
6687 \renewcommand*\l@chapter[2]{%
6688   \addpenalty{-\@highpenalty}%
6689   \vskip 1.0em \@plus\p@
6690   \setlength\@tempdima{1.5em}%
6691   \begingroup
6692     \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
6693     \parfillskip -\@pnumwidth
6694     \leavevmode \bfseries
6695     \advance\if@RTL\rightskip\else\leftskip\fi\@tempdima
6696     \hskip -\if@RTL\rightskip\else\leftskip\fi
6697     #1\nobreak\hfil \nobreak\hb@xt@\@pnumwidth{\hss #2}\par
6698     \penalty\@highpenalty
6699   \endgroup}
6700 \else
6701   \renewcommand*\l@chapter{\@regtocline{0}}
6702 \fi
6703 \renewenvironment{abstract}{%
6704   \titlepage
6705   \null\vfil
6706   \section*{\SectFont \abstractname}
6707   \noindent\ignorespaces}
6708   {\par\vfil\null\endtitlepage}
6709 \renewenvironment{thebibliography}[1]
6710   {\chapter*{\bibname}%
6711     \@mkboth{\MakeUppercase\bibname}{\MakeUppercase\bibname}%
6712     \if@RTL\if@LTRbibitems\@RTLfalse\else\fi\else\if@RTLbibitems\@RTLtrue\else\fi\fi
6713     \bidi@thebibliography@font@hook%

```



```

6714 \list{\@biblabel{\@arabic\c@enumiv}}%
6715 {\settowidth\labelwidth{\@biblabel{#1}}%
6716 \leftmargin\labelwidth
6717 \advance\leftmargin\labelsep
6718 \openbib@code
6719 \usecounter{enumiv}}%
6720 \let\p@enumiv\@empty
6721 \renewcommand*\theenumiv{\@arabic\c@enumiv}}%
6722 \sloppy\clubpenalty4000\widowpenalty4000%
6723 \sfcode\.\@m}
6724 {\def\@noitemerr
6725 {\@latex@warning{Empty `thebibliography' environment}}}%
6726 \endlist}
6727 \renewcommand*\left@footnoterule{%
6728 \kern-3\p@
6729 \kern.5\baselineskip
6730 \hrule\@width\unitindent
6731 \kern.4\baselineskip
6732 }
6733 \renewcommand*\right@footnoterule{%
6734 \kern-3\p@
6735 \kern.5\baselineskip
6736 \hbox to \columnwidth{\hskip \dimexpr\columnwidth-\unitindent\relax \hrulefill }
6737 \kern.4\baselineskip}
6738 \renewcommand*\thesection{\thechapter\@SepMark\@arabic\c@section}
6739 \renewcommand*\thesubsection{\thesection\@SepMark\@arabic\c@subsection}
6740 \renewcommand*\thesubsubsection{\thesubsection\@SepMark\@arabic\c@subsubsection}
6741 \renewcommand*\theparagraph{\thesubsubsection\@SepMark\@arabic\c@paragraph}
6742 \renewcommand*\thesubparagraph{\theparagraph\@SepMark\@arabic\c@subparagraph}
6743 \renewcommand*\theequation{%
6744 \ifnum \c@chapter>\z@ \thechapter\@SepMark\fi\@arabic\c@equation}
6745 \renewcommand*\thefigure{%
6746 \ifnum \c@chapter>\z@ \thechapter\@SepMark\fi\@arabic\c@figure}
6747 \renewcommand*\thetable{%
6748 \ifnum \c@chapter>\z@ \thechapter\@SepMark\fi\@arabic\c@table}
6749 \renewcommand*\maketitle{%
6750 \begin{titlepage}%
6751 \let\footnotesize\small
6752 \let\right@footnoterule\relax
6753 \let\left@footnoterule\relax
6754 \let\textwidth\footnoterule\relax
6755 \let \footnote \thanks
6756 \long\def\@makefntext##1{\parindent\z@
6757 \def\labelitemi{\textendash}\@revlabeltrue
6758 \leavevmode\@textsuperscript{\@thefnmark}\kern1em\relax ##1}
6759 \renewcommand*\thefootnote{\@fnsymbol\c@footnote}%
6760 \if@compatibility\setcounter{page}{0}\fi
6761 \null\vfil
6762 \vskip 60\p@
6763 \begin{center}%
6764 \TitleFont
6765 {\LARGE \def\\{\penalty -\@M}
6766 \if@allcaps
6767 \expandafter\uc@nothanks\@title\thanks\relax

```



```

6768         \else
6769             \@title
6770             \fi\par}%
6771         \vskip 3em%
6772     {\large
6773         \lineskip .75em \parindent\z@
6774         \begin{tabular}[t]{c}%
6775             \if@allcaps
6776                 \expandafter\uc@authornothanks\@author\and\relax
6777             \else
6778                 \@author
6779             \fi
6780         \end{tabular}\par}%
6781     \vskip 1.5em%
6782 {\large
6783     \if@allcaps
6784         \uppercase\expandafter{\@date}%
6785     \else
6786         \@date
6787     \fi\par}%
6788 \end{center}\par
6789 \@thanks
6790 \vfil\null
6791 \end{titlepage}%
6792 \setcounter{footnote}{0}%
6793 \global\let\thanks\relax
6794 \global\let\maketitle\relax
6795 \global\let\@thanks\@empty
6796 \global\let\@author\@empty
6797 \global\let\@title\@empty
6798 \global\let\@date\@empty
6799 \global\let\title\relax
6800 \global\let\author\relax
6801 \global\let\date\relax
6802 \global\let\and\relax
6803 }

```

## 32 File boek-xetex-bidi.def

```

6804 \ProvidesFile{boek-xetex-bidi.def}[2017/06/09 v0.4 bidi adaptations for boek class for XeTeX]
6805 \renewenvironment{theindex}{%
6806     \if@twocolumn
6807         \@restonecolfalse
6808     \else
6809         \@restonecoltrue
6810     \fi
6811     \columnseprule \z@
6812     \columnsep 35\p@
6813     \twocolumn[\@makeschapterhead{\indexname}]%
6814     \@mkboth{\MakeUppercase{\indexname}}{\MakeUppercase{\indexname}}%
6815     \thispagestyle{plain}\parindent\z@
6816     \parskip\z@ \@plus .3\p@\relax
6817     \let\item\@idxitem
6818 }{%

```



```

6819 \if@restonecol\onecolumn\else\clearpage\fi}
6820 \renewcommand*\head@style{%
6821   \interlinepenalty \@M
6822   \hyphenpenalty=\@M \exhyphenpenalty=\@M
6823   \if@RTL\leftskip\else\rightskip\fi=0cm plus .7\hsize\relax}
6824 \renewcommand*\@regtocline[3]{%
6825   \ifnum #1>\c@tocdepth
6826   \else
6827     \vskip\z@\@plus.2\p@
6828     {\hangindent\z@ \@afterindenttrue \interlinepenalty\@M
6829     \if@RTL\rightskip\else\leftskip\fi\unitindent
6830     \if@RTL\leftskip\else\rightskip\fi\unitindent\@plus 1fil
6831     \parfillskip\z@
6832     \@tempdima\unitindent
6833     \parindent\z@
6834     \leavevmode
6835     \hbox{}\hskip -\if@RTL\rightskip\else\leftskip\fi\relax#2\nobreak
6836     \hskip 1em \nobreak{\slshape #3}\par
6837   }%
6838 \fi}
6839 \if@oldtoc
6840 \renewcommand*\l@part[2]{%
6841   \ifnum \c@tocdepth >-2\relax
6842     \addpenalty{-\@highpenalty}%
6843     \addvspace{2.25em \@plus\p@}%
6844     \begingroup
6845       \setlength\@tempdima{3em}%
6846       \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
6847       \parfillskip -\@pnumwidth
6848       {\leavevmode
6849         \large \bfseries #1\hfil \hb@xt@\@pnumwidth{\hss #2}}\par
6850         \nobreak
6851         \global\@nobreaktrue
6852         \everypar{\global\@nobreakfalse\everypar{}}%
6853       \endgroup
6854 \fi}
6855 \else
6856   \renewcommand*\l@part{%
6857     \ifnum \c@tocdepth >-2\relax
6858       \addpenalty{-\@highpenalty}%
6859       \addvspace{2.25em \@plus \p@}%
6860       \@regtocline{0}%
6861     \fi}
6862 \fi
6863 \if@oldtoc
6864 \renewcommand*\l@chapter[2]{%
6865   \addpenalty{-\@highpenalty}%
6866   \vskip 1.0em \@plus\p@
6867   \setlength\@tempdima{1.5em}%
6868   \begingroup
6869   \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
6870   \parfillskip -\@pnumwidth
6871   \leavevmode \bfseries
6872   \advance\if@RTL\rightskip\else\leftskip\fi\@tempdima

```



```

6873 \hskip -\if@RTL\rightskip\else\leftskip\fi
6874 #1\nobreak\hfil \nobreak\hb@xt@\@pnumwidth{\hss #2}\par
6875 \penalty\@highpenalty
6876 \endgroup}
6877 \else
6878 \renewcommand*\l@chapter{\@regtocline{0}}
6879 \fi
6880 \renewcommand*\left@footnoterule{%
6881 \kern-3\p@
6882 \kern.5\baselineskip
6883 \hrule\@width\unitindent
6884 \kern.4\baselineskip
6885 }
6886 \renewcommand*\right@footnoterule{%
6887 \kern-3\p@
6888 \kern.5\baselineskip
6889 \hbox to \columnwidth{\hskip \dimexpr\columnwidth-\unitindent\relax \hrulefill }
6890 \kern.4\baselineskip}
6891 \renewenvironment{abstract}{%
6892 \titlepage
6893 \null\vfil
6894 \section*\SectFont \abstractname}
6895 \noindent\ignorespaces}
6896 {\par\vfil\null\endtitlepage}
6897 \renewenvironment{thebibliography}[1]
6898 {\chapter*{\bibname}%
6899 \mkboth{\MakeUppercase\bibname}{\MakeUppercase\bibname}%
6900 \if@RTL\if@LTRbibitems\@RTLfalse\else\fi\else\if@RTLbibitems\@RTLtrue\else\fi\fi
6901 \bidi@thebibliography@font@hook%
6902 \list{\@biblabel{\@arabic\c@enumiv}}%
6903 {\settowidth\labelwidth{\@biblabel{#1}}%
6904 \leftmargin\labelwidth
6905 \advance\leftmargin\labelsep
6906 \@openbib@code
6907 \usecounter{enumiv}%
6908 \let\p@enumiv\@empty
6909 \renewcommand*\theenumiv{\@arabic\c@enumiv}}%
6910 \sloppy\clubpenalty4000\widowpenalty4000%
6911 \sfcode\.\@m}
6912 {\def\@noitemerr
6913 {\@latex@warning{Empty `thebibliography' environment}}}%
6914 \endlist}
6915 \renewcommand*\thesection{\thechapter\@SepMark\@arabic\c@section}
6916 \renewcommand*\thesubsection{\thesection\@SepMark\@arabic\c@subsection}
6917 \renewcommand*\thesubsubsection{\thesubsection\@SepMark\@arabic\c@subsubsection}
6918 \renewcommand*\theparagraph{\thesubsubsection\@SepMark\@arabic\c@paragraph}
6919 \renewcommand*\thesubparagraph{\theparagraph\@SepMark\@arabic\c@subparagraph}
6920 \renewcommand*\theequation{%
6921 \ifnum \c@chapter>\z@ \thechapter\@SepMark\fi\@arabic\c@equation}
6922 \renewcommand*\thefigure{%
6923 \ifnum \c@chapter>\z@ \thechapter\@SepMark\fi\@arabic\c@figure}
6924 \renewcommand*\thetable{%
6925 \ifnum \c@chapter>\z@ \thechapter\@SepMark\fi\@arabic\c@table}
6926 \renewcommand*\maketitle{%

```



```

6927 \begin{titlepage}%
6928   \let\footnotesize\small
6929   \let\right@footnoterule\relax
6930   \let\left@footnoterule\relax
6931   \let\textwidth@footnoterule\relax
6932   \let \footnote \thanks
6933   \long\def\@makefntext##1{\parindent\z@
6934     \def\labelitemi{\textendash}\@revlabeltrue
6935     \leavevmode\@textsuperscript{\@thefnmark}\kern1em\relax ##1}
6936   \renewcommand*\thefootnote{\@fnsymbol\c@footnote}%
6937   \if@compatibility\setcounter{page}{0}\fi
6938   \null\vfil
6939   \vskip 60\p@
6940   \begin{center}%
6941     \TitleFont
6942     {\LARGE \def\\{\penalty -\@M}
6943       \if@allcaps
6944         \expandafter\uc@nothanks\@title\thanks\relax
6945       \else
6946         \@title
6947       \fi\par}%
6948   \vskip 3em%
6949   {\large
6950     \lineskip .75em \parindent\z@
6951     \begin{tabular}[t]{c}%
6952       \if@allcaps
6953         \expandafter\uc@authornothanks\@author\and\relax
6954       \else
6955         \@author
6956       \fi
6957     \end{tabular}\par}%
6958   \vskip 1.5em%
6959   {\large
6960     \if@allcaps
6961       \uppercase\expandafter{\@date}%
6962     \else
6963       \@date
6964     \fi\par}%
6965   \end{center}\par
6966   \@thanks
6967   \vfil\null
6968 \end{titlepage}%
6969 \setcounter{footnote}{0}%
6970 \global\let\thanks\relax
6971 \global\let\maketitle\relax
6972 \global\let\@thanks\@empty
6973 \global\let\@author\@empty
6974 \global\let\@title\@empty
6975 \global\let\@date\@empty
6976 \global\let\title\relax
6977 \global\let\author\relax
6978 \global\let\date\relax
6979 \global\let\and\relax
6980 }

```



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

```
6981 \ProvidesFile{bookest-xetex-bidi.def}[2010/07/25 v0.4 bidi adaptations for bookest class for
6982 \def\@makechapterhead#1{%
6983   \vspace*{20\p@}
6984   {\parindent \z@ \if@RTL\raggedleft\else\raggedright\fi \normalfont
6985     \ifnum \c@secnumdepth >\m@ne
6986       \if@mainmatter
6987         {\colorA\huge\scshape \@chapapp\space \thechapter}
6988         \par\nobreak
6989         \vskip 10\p@
6990       \fi
6991     \fi
6992     \interlinepenalty\@M
6993     {\colorB\hrule}
6994     \vskip 15\p@
6995     \if@RTL\begin{flushleft}\else\begin{flushright}\fi
6996       {\colorA\Huge \bfseries #1}\par\nobreak
6997     \if@RTL\end{flushleft}\else\end{flushright}\fi
6998     \vskip 5\p@
6999     {\colorB\hrule}
7000     \vskip 30\p@
7001   }}
7002 \def\@makeschapterhead#1{%
7003   \vspace*{20\p@}
7004   {\parindent \z@ \raggedright \normalfont
7005     {\colorB\hrule}
7006     \vskip 15\p@
7007     \begin{center}
7008       {\colorA\Huge \bfseries #1}\par\nobreak
7009     \end{center}
7010     \vskip 5\p@
7011     {\colorB\hrule}
7012     \vskip 30\p@
7013   }}
```

### 34 File `book-xetex-bidi.def`

```
7014 \ProvidesFile{book-xetex-bidi.def}[2017/06/09 v1.0 bidi adaptations for standard book class
7015 \renewenvironment{theindex}
7016   {\if@twocolumn
7017     \@restonecolfalse
7018   \else
7019     \@restonecoltrue
7020   \fi
7021   \columnseprule \z@
7022   \columnsep 35\p@
7023   \twocolumn[\@makeschapterhead{\indexname}]%
7024   \@mkboth{\MakeUppercase\indexname}%
7025     {\MakeUppercase\indexname}%
7026   \thispagestyle{plain}\parindent\z@
7027   \parskip\z@ \@plus .3\p@\relax
7028   \let\item\@idxitem}
7029   {\if@restonecol\onecolumn\else\clearpage\fi}
```





```

7030 \@ifclassloaded{bookest}{}{%
7031   \if@titlepage
7032     \renewcommand\maketitle{\begin{titlepage}%
7033       \let\footnotesize\small
7034       \let\right@footnoterule\relax
7035       \let\left@footnoterule\relax
7036       \let\textwidth@footnoterule\relax
7037       \let \footnote \thanks
7038       \let \LTRfootnote \LTRthanks
7039       \let \RTLfootnote \RTLthanks
7040       \null\vfil
7041       \vskip 60\p@
7042       \begin{center}%
7043         {\LARGE \@title \par}%
7044         \vskip 3em%
7045         {\large
7046           \lineskip .75em%
7047           \begin{tabular}[t]{c}%
7048             \@author
7049             \end{tabular}\par}%
7050           \vskip 1.5em%
7051           {\large \@date \par}%           % Set date in \large size.
7052       \end{center}\par
7053       \@thanks
7054       \vfil\null
7055     \end{titlepage}%
7056     \setcounter{footnote}{0}%
7057     \global\let\thanks\relax
7058     \global\let\LTRthanks\relax
7059     \global\let\RTLthanks\relax
7060     \global\let\maketitle\relax
7061     \global\let\@thanks\@empty
7062     \global\let\@author\@empty
7063     \global\let\@date\@empty
7064     \global\let\@title\@empty
7065     \global\let\title\relax
7066     \global\let\author\relax
7067     \global\let\date\relax
7068     \global\let\and\relax
7069 }
7070 \else
7071 \renewcommand\maketitle{\par
7072   \begingroup
7073     \renewcommand\thefootnote{\@fnsymbol\c@footnote}%
7074     \def\@makefnmark{\rlap{\@textsuperscript{\normalfont\@thefnmark}}}%
7075     \long\def\@makefntext#1{\parindent 1em\noindent
7076       \hb@xt@1.8em{%
7077         \hss\@textsuperscript{\normalfont\@thefnmark}}#1}%
7078     \if@twocolumn
7079       \ifnum \col@number=\@ne
7080         \@maketitle
7081       \else
7082         \twocolumn[\@maketitle]%
7083       \fi

```



```

7084 \else
7085 \newpage
7086 \global\let\topnum\z@ % Prevents figures from going at top of page.
7087 \maketitle
7088 \fi
7089 \thispagestyle{plain}\@thanks
7090 \endgroup
7091 \setcounter{footnote}{0}%
7092 \global\let\thanks\relax
7093 \global\let\LTRthanks\relax
7094 \global\let\RTLthanks\relax
7095 \global\let\maketitle\relax
7096 \global\let\@maketitle\relax
7097 \global\let\@thanks\@empty
7098 \global\let\@author\@empty
7099 \global\let\@date\@empty
7100 \global\let\@title\@empty
7101 \global\let\title\relax
7102 \global\let\author\relax
7103 \global\let\date\relax
7104 \global\let\and\relax
7105 }
7106 \def\@maketitle{%
7107 \newpage
7108 \null
7109 \vskip 2em%
7110 \begin{center}%
7111 \let \footnote \thanks
7112 \let \LTRfootnote \LTRthanks
7113 \let \RTLfootnote \RTLthanks
7114 {\LARGE \@title \par}%
7115 \vskip 1.5em%
7116 {\large
7117 \lineskip .5em%
7118 \begin{tabular}[t]{c}%
7119 \@author
7120 \end{tabular}\par}%
7121 \vskip 1em%
7122 {\large \@date}%
7123 \end{center}%
7124 \par
7125 \vskip 1.5em}
7126 \fi}
7127 \renewcommand*\l@part[2]{%
7128 \ifnum \c@tocdepth >-2\relax
7129 \addpenalty{-\@highpenalty}%
7130 \addvspace{2.25em \@plus\p}%
7131 \setlength\@tempdima{3em}%
7132 \begin{group
7133 \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
7134 \parfillskip -\@pnumwidth
7135 {\leavevmode
7136 \large \bfseries #1\hfil \hb@xt@\@pnumwidth{\hss #2}}\par
7137 \nobreak

```



```

7138         \global\@nbreaktrue
7139         \everypar{\global\@nbreakfalse\everypar{}}%
7140     \endgroup
7141 \fi}
7142 \renewcommand*{\l@chapter[2]{%
7143     \ifnum \c@tocdepth >\m@ne
7144         \addpenalty{-\@highpenalty}%
7145         \vskip 1.0em \@plus\p@
7146         \setlength\@tempdima{1.5em}%
7147         \begingroup
7148             \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
7149             \parfillskip -\@pnumwidth
7150             \leavevmode \bfseries
7151             \advance\if@RTL\rightskip\else\leftskip\fi\@tempdima
7152             \hskip -\if@RTL\rightskip\else\leftskip\fi
7153             #1\nobreak\hfil \nobreak\hb@xt@\@pnumwidth{\hss #2}\par
7154             \penalty\@highpenalty
7155         \endgroup
7156 \fi}
7157 \renewcommand\left@footnoterule{%
7158     \kern-3\p@
7159     \hrule\@width.4\columnwidth
7160     \kern2.6\p@}
7161 \renewcommand\right@footnoterule{%
7162     \kern-3\p@
7163     \hbox to \columnwidth{\hskip .6\columnwidth \hrulefill }
7164     \kern2.6\p@}
7165 \renewcommand\theequation
7166     {\ifnum \c@chapter>\z@ \thechapter\@SepMark\fi \@arabic\c@equation}
7167 \renewcommand \thefigure
7168     {\ifnum \c@chapter>\z@ \thechapter\@SepMark\fi \@arabic\c@figure}
7169 \renewcommand \thetable
7170     {\ifnum \c@chapter>\z@ \thechapter\@SepMark\fi \@arabic\c@table}
7171 \renewcommand \thechapter {\@arabic\c@chapter}
7172 \renewcommand \thesection {\thechapter\@SepMark\@arabic\c@section}
7173 \renewcommand \thesubsection {\thesection\@SepMark\@arabic\c@subsection}
7174 \renewcommand \thesubsubsection {\thesubsection \@SepMark\@arabic\c@subsubsection}
7175 \renewcommand \theparagraph {\thesubsubsection \@SepMark\@arabic\c@paragraph}
7176 \renewcommand \thesubparagraph {\theparagraph \@SepMark\@arabic\c@subparagraph}
7177 \def\@makechapterhead#1{%
7178     \vspace*{50\p@}%
7179     {\parindent \z@ \if@RTL\raggedleft\else\raggedright\fi \normalfont
7180         \ifnum \c@secnumdepth >\m@ne
7181             \if@mainmatter
7182                 \huge\bfseries \chapapp\space \thechapter
7183                 \par\nobreak
7184                 \vskip 20\p@
7185             \fi
7186         \fi
7187         \interlinepenalty\@M
7188         \Huge \bfseries #1\par\nobreak
7189         \vskip 40\p@
7190     }}
7191 \def\@makeschapterhead#1{%

```



```

7192 \vspace*{50\p@}%
7193 {\parindent \z@ \if@RTL\raggedleft\else\raggedright\fi
7194 \normalfont
7195 \interlinepenalty\@M
7196 \Huge \bfseries #1\par\nobreak
7197 \vskip 40\p@
7198 }}
7199 \renewcommand\backmatter{%
7200 \if@openright
7201 \cleardoublepage
7202 \else
7203 \clearpage
7204 \fi
7205 \@mainmatterfalse}
7206 \renewenvironment{thebibliography}[1]
7207 {\chapter*{\bibname}%
7208 \@mkboth{\MakeUppercase\bibname}{\MakeUppercase\bibname}%
7209 \if@RTL\if@LTRbibitems\@RTLfalse\else\fi\else\if@RTLbibitems\@RTLtrue\else\fi\fi
7210 \bidi@thebibliography@font@hook%
7211 \list{\@biblabel{\@arabic\c@enumiv}}%
7212 {\settowidth\labelwidth{\@biblabel{#1}}%
7213 \leftmargin\labelwidth
7214 \advance\leftmargin\labelsep
7215 \@openbib@code
7216 \usecounter{enumiv}%
7217 \let\p@enumiv\@empty
7218 \renewcommand\theenumiv{\@arabic\c@enumiv}}%
7219 \sloppy
7220 \clubpenalty4000
7221 \@clubpenalty \clubpenalty
7222 \widowpenalty4000%
7223 \sfcode`. \m}
7224 {\def\@noitemerr
7225 {\@latex@warning{Empty `thebibliography' environment}}}%
7226 \endlist}

```

### 35 File breqn-xetex-bidi.def

```

7227 \ProvidesFile{breqn-xetex-bidi.def}[2016/09/12 v0.2 bidi adaptations for breqn package for X
7228 \def\@dmath[#1]{\if@RTL\@RTLfalse\fi%
7229 \everydisplay\expandafter{\the\everydisplay \display@setup}%
7230 \if@noskipsec \leavevmode \fi
7231 \if@inlabel \leavevmode \global\@inlabelfalse \fi
7232 \if@eq@group\else\eq@prelim\fi
7233 \setkeys{breqn}{#1}%
7234 \the\eqstyle
7235 \eq@setnumber
7236 \begin@group
7237 \eq@setup@a
7238 \eq@startup
7239 }
7240 \def\@dgroup[#1]{\if@RTL\@RTLfalse\fi%
7241 \let\eq@group\@True \global\let\eq@GRP@first@dmath\@True
7242 \global\GRP@queue\@emptytoks \global\setbox\GRP@box\box\voidb@x

```



```

7243 \global\let\GRP@label\@empty
7244 \global\grp@wdL\z@\global\grp@wdR\z@\global\grp@wdT\z@
7245 \global\grp@linewidth\z@\global\grp@wdNum\z@
7246 \global\let\grp@eqs@numbered\@False
7247 \global\let\grp@aligned\@True
7248 \global\let\grp@shiftnumber\@False
7249 \eq@prelim
7250 \setkeys{breqn}{#1}%
7251 \if\grp@hasNumber \grp@setnumber \fi
7252 }
7253 \def\@dseries[#1]{\if@RTL\@RTLfalse\fi%
7254 \let\display@setup\dseries@display@setup
7255 % Question: should this be the default for dseries???
7256 \global\eq@wdCond\z@
7257 \@dmath[layout={M},#1]%
7258 \mathsurround\z@\@math \penalty\@Mi
7259 \let\endmath\ends@math
7260 \def\premath{%
7261 \ifdim\lastskip<.3em \unskip
7262 \else\ifnum\lastpenalty<\@M \dquad\fi\fi
7263 }%
7264 \def\postmath{\unpenalty\eq@addpunct \penalty\intermath@penalty \dquad \@ignoretrue}%
7265 \ignorespaces
7266 }
7267 \def\eqnumform#1{\if@nonlatin\beginR\@RTLtrue\fi(#1\@@italiccorr)\if@nonlatin\endR\fi}
7268 \renewenvironment{dsuspend}{%
7269 \global\setbox\EQ@box\vbox\bgroup\if@nonlatin\@RTLtrue\fi \@parboxrestore
7270 \parshape 1 \displayindent \displaywidth\relax
7271 \hsize=\columnwidth \noindent\ignorespaces
7272 }{%
7273 \par\egroup
7274 \global\setbox\GRP@box\vbox{%
7275 \hbox{\copy\EQ@box\topof\unvbox\EQ@box}}%
7276 \unvbox\GRP@box
7277 }%
7278 \global\GRP@queue\@xp{\the\GRP@queue
7279 \@elt{\let\eq@isIntertext\@True}}%
7280 }%
7281 }

```

## 36 File cals-xetex-bidi.def

```

7282 \ProvidesFile{cals-xetex-bidi.def}[2016/11/30 v0.4 bidi adaptations for cals package for XeT
7283 \renewcommand\cals@setup@alignment[1]{%
7284 \if c#1\relax \cals@vfillAdd \leftskip \cals@vfillAdd \rightskip \fi
7285 \if l#1\relax \cals@vfillDrop\leftskip \cals@vfillDrop\rightskip \fi
7286 \if r#1\relax \cals@vfillAdd \leftskip \cals@vfillDrop\rightskip \fi
7287 }
7288 \renewcommand\cals@table@alignment{\if@RTLtab r\else l\fi}
7289 \renewenvironment{calstable}[1][\cals@table@alignment]{%
7290 \if@RTLtab\cals@activate@rtl\fi
7291 \let\cals@thead@tokens=\relax
7292 \let\cals@tfoot@tokens=\relax
7293 \let\cals@tbody@tokens=\relax

```



```

7294 \cals@tfoot@height=0pt \relax
7295 \let\cals@last@context=n%
7296 \let\cals@current@context=b%
7297 \parindent=0pt \relax%
7298 \cals@setup@alignment{#1}%
7299 \cals@setpadding{Ag}\cals@setcellprevdepth{Al}\cals@set@tohsize%
7300 %% Alignment inside is independent on center/flushright outside
7301 \parfillskip=0pt plus1fil\relax
7302 \let\cals@borderL=\relax
7303 \let\cals@borderR=\relax
7304 \let\cals@borderT=\relax
7305 \let\cals@borderB=\relax
7306 \setbox\cals@backup@row=\box\voidb@x\relax
7307 \cals@AtBeginTable
7308 }{% End of the table
7309 \cals@tfoot@tokens\lastrule\cals@AtEndTable}
7310 \renewcommand\alignL{%
7311 \if@RTLtab
7312 \cals@vfillAdd\cals@paddingL
7313 \else
7314 \cals@vfillDrop\cals@paddingL
7315 \fi
7316 \cals@vfillDrop\cals@paddingR}
7317 \renewcommand\alignR{%
7318 \if@RTLtab
7319 \cals@vfillDrop\cals@paddingL
7320 \else
7321 \cals@vfillAdd\cals@paddingL
7322 \fi
7323 \cals@vfillDrop\cals@paddingR}

```

### 37 File caption-xetex-bidi.def

```

7324 \ProvidesFile{caption-xetex-bidi.def}[2010/07/25 v0.1 bidi adaptations for caption package f
7325 \let\makecaption\caption@makecaption

```

### 38 File caption3-xetex-bidi.def

```

7326 \ProvidesFile{caption3-xetex-bidi.def}[2013/04/01 v0.1 bidi adaptations for caption3 package
7327 \renewcommand*\caption@par{%
7328 \parindent\caption@parindent\hangindent\if@RTL-\fi\caption@hangindent}%

```

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

```

7329 \ProvidesFile{colortbl-xetex-bidi.def}[2012/06/10 v0.2 bidi adaptations for colortbl package
7330 \def\CT@setup{%
7331 \@tempdimb\col@sep
7332 \@tempdimc\col@sep
7333 \def\CT@color{%
7334 \global\let\CT@do@color\CT@@do@color
7335 \bidicolor}}
7336 \def\@classz{\@classx
7337 \@tempcnta \count@
7338 \prepnext@tok

```



```

7339 \expandafter\CT@extract\the\toks\@tempcnta\columncolor!\@nil
7340 \@addtopreamble{\if@RTLtab\beginL\fi%
7341 \setbox\z@\hbox\bgroup\bgroup\if@RTLtab\beginR\fi
7342 \ifcase \@chnum
7343 \hskip\stretch{.5}\kern\z@
7344 \d@llarbegin
7345 \insert@column
7346 \d@llarend\hskip\stretch{.5}\or
7347 \d@llarbegin \insert@column \d@llarend \hfill \or
7348 \hfill\kern\z@ \d@llarbegin \insert@column \d@llarend \or
7349 $\vcenter
7350 \@startpbox{\@nextchar}\insert@column \@endpbox $\or
7351 \vtop \@startpbox{\@nextchar}\insert@column \@endpbox \or
7352 \vbox \@startpbox{\@nextchar}\insert@column \@endpbox
7353 \fi
7354 \if@RTLtab\endR\fi\egroup\egroup
7355 \begingroup
7356 \CT@setup
7357 \CT@column@color
7358 \CT@row@color
7359 \CT@cell@color
7360 \CT@do@color
7361 \endgroup
7362 \@tempdima\ht\z@
7363 \advance\@tempdima\minrowclearance
7364 \vrule\@height\@tempdima\@width\z@
7365 \unhbox\z@\if@RTLtab\endL\fi}%
7366 \prepnext@tok}

```

## 40 File color-xetex-bidi.def

```

7367 \ProvidesFile{color-xetex-bidi.def}[2013/04/08 v0.2 bidi adaptations for color package for X
7368 \long\def\color@b@x#1#2#3{%
7369 \leavevmode\ifmmode\else\if@RTL\beginL\fi\fi
7370 \setbox\z@\hbox{\kern\fboxsep\set@color\if@RTL\beginR\fi#3\if@RTL\endR\fi}\kern\fboxsep}%
7371 \dimen@ht\z@\advance\dimen@\fboxsepht\z@\dimen@
7372 \dimen@dp\z@\advance\dimen@\fboxsepdp\z@\dimen@
7373 {#1{#2\color@block{\wd\z@}{\ht\z@}{\dp\z@}%
7374 \box\z@}}\ifmmode\else\if@RTL\endL\fi\fi}
7375 \def\normalcolor{\let\current@color\default@color\ifhmode\if@RTL\beginL\aftergroup\endR\fi\fi}
7376 \DeclareRobustCommand\color{%
7377 \ifhmode\if@RTL\beginL\aftergroup\endR\fi\fi\@ifnextchar[\@undeclaredcolor\@declaredcolor}%
7378 \def\@declaredcolor#1{%
7379 \@ifundefined{\string\color @#1}%
7380 {\c@lor@error{`#1'}}%
7381 {\expandafter\let\expandafter\current@color
7382 \csname\string\color @#1\endcsname
7383 \set@color}%
7384 \ifhmode\if@RTL\beginR\aftergroup\endL\fi\fi\ignorespaces}
7385 \def\@undeclaredcolor[#1]#2{%
7386 \@ifundefined{color@#1}%
7387 {\c@lor@error{model `#1'}}%
7388 {\csname color@#1\endcsname\current@color{#2}%
7389 \set@color}%

```



```

7390 \ifhmode\if@RTL\beginR\aftergroup\endL\fi\fi\ignorespaces}
7391 \DeclareRobustCommand\bidicolor{%
7392   \@ifnextchar[\@bidiundeclaredcolor\@bidideclaredcolor}
7393 \def\@bidiundeclaredcolor[#1]#2{%
7394   \@ifundefined{color@#1}%
7395     {\color@error{model `#1'}}%
7396     {\csname color@#1\endcsname\current@color{#2}%
7397     \set@color}%
7398   \ignorespaces}
7399 \def\@bidideclaredcolor#1{%
7400   \@ifundefined{\string\color @#1}%
7401     {\color@error{`#1'}}%
7402     {\expandafter\let\expandafter\current@color
7403     \csname\string\color @#1\endcsname
7404     \set@color}%
7405   \ignorespaces}
7406 \def\color@box#1#2{\color@b@x\relax{\bidicolor#1{#2}}}
7407 \def\color@fbox#1#2#3{%
7408   \color@b@x{\fboxsep\z@\bidicolor#1{#2}\fbox}{\bidicolor#1{#3}}}
7409 \def\color@setgroup{\begingroup\ifhmode\if@RTL\beginL\aftergroup\endR\fi\fi\set@color\ifhmod

```

## 41 File combine-xetex-bidi.def

```

7410 \ProvidesFile{combine-xetex-bidi.def}[2011/09/23 v0.1 bidi adaptations for combine class for
7411 \renewcommand{\c@ll@chapsecii}[2]{%
7412   \if@RTL\advance\rightskip\@tempdima\else\advance\leftskip\@tempdima\fi
7413   \if@RTL\hskip -\rightskip\else\hskip -\leftskip\fi
7414   #1\nobreak\hfil \nobreak\hb@xt@\@pnumwidth{\hss #2}\par
7415 }
7416 \renewcommand{\c@ll@chapseci}{%
7417   \setlength\@tempdima{0em}%
7418   \begingroup
7419     \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
7420     \parfillskip -\@pnumwidth
7421     \leavevmode
7422 }
7423 \renewenvironment{tocindent}[1]{%
7424   \hangindent \if@RTL-\fi#1 \hangafter -100\relax}{%

```

## 42 File crop-xetex-bidi.def

```

7425 \ProvidesFile{crop-xetex-bidi.def}[2013/04/10 v0.2 bidi adaptations for crop package for XeT
7426 \renewcommand*\CROP@ulc{%
7427   \if@RTLmain%
7428     \begin{picture}(0,0)
7429       \unitlength\p@\thinline
7430       \put(-40,0){\circle{10}}
7431       \put(-30,-5){\line(0,1){10}}
7432       \put(-35,0){\line(1,0){30}}
7433       \put(-10,30){\circle{10}}
7434       \put(-5,30){\line(1,0){10}}
7435       \put(0,35){\line(0,-1){30}}
7436     \end{picture}%
7437   \else%

```





```

7438 \begin{picture}(0,0)
7439 \unitlength\p@\thinline
7440 \put(-30,0){\circle{10}}
7441 \put(-30,-5){\line(0,1){10}}
7442 \put(-35,0){\line(1,0){30}}
7443 \put(0,30){\circle{10}}
7444 \put(-5,30){\line(1,0){10}}
7445 \put(0,35){\line(0,-1){30}}
7446 \end{picture}%
7447 \fi%
7448 }
7449 \renewcommand*\CROP@urc{%
7450 \if@RTLmain%
7451 \begin{picture}(0,0)
7452 \unitlength\p@\thinline
7453 \put(20,0){\circle{10}}
7454 \put(30,-5){\line(0,1){10}}
7455 \put(35,0){\line(-1,0){30}}
7456 \put(-10,30){\circle{10}}
7457 \put(-5,30){\line(1,0){10}}
7458 \put(0,35){\line(0,-1){30}}
7459 \end{picture}%
7460 \else%
7461 \begin{picture}(0,0)
7462 \unitlength\p@\thinline
7463 \put(30,0){\circle{10}}
7464 \put(30,-5){\line(0,1){10}}
7465 \put(35,0){\line(-1,0){30}}
7466 \put(0,30){\circle{10}}
7467 \put(-5,30){\line(1,0){10}}
7468 \put(0,35){\line(0,-1){30}}
7469 \end{picture}%
7470 \fi%
7471 }
7472 \renewcommand*\CROP@llc{%
7473 \if@RTLmain%
7474 \begin{picture}(0,0)
7475 \unitlength\p@\thinline
7476 \put(-40,0){\circle{10}}
7477 \put(-30,-5){\line(0,1){10}}
7478 \put(-35,0){\line(1,0){30}}
7479 \put(-10,-30){\circle{10}}
7480 \put(-5,-30){\line(1,0){10}}
7481 \put(0,-35){\line(0,1){30}}
7482 \end{picture}%
7483 \else%
7484 \begin{picture}(0,0)
7485 \unitlength\p@\thinline
7486 \put(-30,0){\circle{10}}
7487 \put(-30,-5){\line(0,1){10}}
7488 \put(-35,0){\line(1,0){30}}
7489 \put(0,-30){\circle{10}}
7490 \put(-5,-30){\line(1,0){10}}
7491 \put(0,-35){\line(0,1){30}}

```



```

7492 \end{picture}%
7493 \fi%
7494 }
7495 \renewcommand*\CROP@lrc{%
7496 \if@RTLmain%
7497 \begin{picture}(0,0)
7498 \unitlength\p@\thinline
7499 \put(20,0){\circle{10}}
7500 \put(30,-5){\line(0,1){10}}
7501 \put(35,0){\line(-1,0){30}}
7502 \put(-10,-30){\circle{10}}
7503 \put(-5,-30){\line(1,0){10}}
7504 \put(0,-35){\line(0,1){30}}
7505 \end{picture}%
7506 \else%
7507 \begin{picture}(0,0)
7508 \unitlength\p@\thinline
7509 \put(30,0){\circle{10}}
7510 \put(30,-5){\line(0,1){10}}
7511 \put(35,0){\line(-1,0){30}}
7512 \put(0,-30){\circle{10}}
7513 \put(-5,-30){\line(1,0){10}}
7514 \put(0,-35){\line(0,1){30}}
7515 \end{picture}%
7516 \fi%
7517 }
7518 \@ifpackagewith{crop}{cam}{%
7519 \CROP@except{cam}%
7520 }{}

```

## 43 File cutwin-xetex-bidi.def

```

7521 \ProvidesFile{cutwin-xetex-bidi.def}[2011/11/12 v0.1 bidi adaptations for cutwin package for
7522 \renewcommand*\c@twcompctr}[2]{%
7523 \def\c@twfirst{1}
7524 \loop\advance\c@twinlines\m@ne
7525 \setbox\c@twslicea=\vsplit#1 to\baselineskip
7526 \setbox\c@twsliceb=\vsplit#1 to\baselineskip
7527 \c@twprune{\c@twslicea}{\c@twlftside}%
7528 \c@twprune{\c@twsliceb}{\c@twrtside}%
7529 \ifnum\c@twfirst=\@ne
7530 \setbox#2=\vbox{\unvbox#2\hbox
7531 to\hsize{\if@RTL\box\c@twsliceb\else\box\c@twslicea\fi\pageinwindow\hfil\if@RTL\box\c@tw
7532 \else
7533 \setbox#2=\vbox{\unvbox#2\hbox
7534 to\hsize{\if@RTL\box\c@twsliceb\else\box\c@twslicea\fi\hfil\if@RTL\box\c@twslicea\else\box
7535 \fi
7536 \def\c@twfirst{2}
7537 \ifnum\c@twinlines>\z@\repeat}
7538 \renewcommand*\c@twcompodctr}[2]{%
7539 \def\c@twrounds{1}
7540 \def\c@twfirst{1}
7541 \@for\c@twlspec:=\c@twb\do{%
7542 \ifnum\c@twrounds=1

```



```

7543     \setbox\c@twslicea=\vsplit#1 to\baselineskip % first of pair
7544     \c@twprune{\c@twslicea}{\c@twlspec}%
7545     \def\c@twrounds{2}
7546   \else
7547     \setbox\c@twsliceb=\vsplit#1 to\baselineskip % second of pair
7548     \c@twprune{\c@twsliceb}{\c@twlspec}%
7549     \ifnum\c@twfirst=1
7550       \setbox#2=\vbox{\unvbox#2\hbox
7551         to\hsize{\ifRTL\box\c@twsliceb\else\box\c@twslicea\fi\hfil\picinwindow\hfil\ifRTL\
7552       \def\c@twfirst{2}
7553     \else
7554       \setbox#2=\vbox{\unvbox#2\hbox
7555         to\hsize{\ifRTL\box\c@twsliceb\else\box\c@twslicea\fi\hfil\ifRTL\box\c@twslicea\el
7556     \fi
7557     \def\c@twrounds{1}
7558   \fi}}

```

## 44 File cuted-xetex-bidi.def

```

7559 \ProvidesFile{cuted-xetex-bidi.def}[2017/05/06 v0.6 bidi adaptations for cuted package for X
7560
7561 \def\RTL@outputdblcol{%
7562   \if@firstcolumn
7563     \global\@firstcolumnfalse
7564     \global\setbox\@leftcolumn\copy\@outputbox
7565     \splitmaxdepth\maxdimen
7566     \vbadness\maxdimen
7567     \setbox\@outputbox\vbox{\unvbox\@outputbox\unskip}%
7568     \setbox\@outputbox\vsplit\@outputbox to\maxdimen
7569     \toks@\expandafter{\topmark}%
7570     \xdef\@firstcoltopmark{\the\toks@}%
7571     \toks@\expandafter{\splitfirstmark}%
7572     \xdef\@firstcolfirstmark{\the\toks@}%
7573     \ifx\@firstcolfirstmark\@empty
7574       \global\let\@setmarks\relax
7575     \else
7576       \gdef\@setmarks{%
7577         \let\firstmark\@firstcolfirstmark
7578         \let\topmark\@firstcoltopmark}%
7579     \fi
7580   \else
7581     \global\@firstcolumntrue
7582     \setbox\@outputbox\vbox{%
7583       \hb@xt@\textwidth{%
7584         \hskip \columnwidth
7585         \hfil
7586         {\normalcolor\vrule \@width\columnseprule}%
7587         \hfil
7588         \hb@xt@\columnwidth{%
7589           \bidi@firstcolumn@status@write%
7590           \box\@leftcolumn \hss}%
7591         \hskip -\textwidth
7592         \hb@xt@\columnwidth{%
7593           \bidi@lastcolumn@status@write%

```



```

7594     \box\@outputbox \hss}%
7595     \hskip \columnsep
7596     \hskip \columnwidth }}%
7597     \ifvoid\hold@viper
7598     \else
7599         \setbox\@outputbox \vbox to\textheight{%
7600             \box\hold@viper
7601             \box\@outputbox
7602             \vss
7603         }%
7604     \fi
7605 \@@combinedblfloats
7606 \@@setmarks
7607 \@@outputpage
7608 \beginingroup
7609     \@@dblfloatplacement
7610     \@@startdblcolumn
7611     \@@whilesw\if@fcolmade \fi{\@@outputpage
7612     \@@startdblcolumn}%
7613     \ifvoid\@viper
7614     \else
7615         \global\setbox\@viper\vbox{%
7616             \vskip-\stripsep
7617             \unvbox\@viper
7618         }%
7619         \@@viperoutput
7620     \fi
7621 \endgroup
7622 \fi}%
7623
7624 \def\LTR@outputdblcol{%
7625     \if@firstcolumn
7626         \global\@firstcolumnfalse
7627         \global\setbox\@leftcolumn\copy\@outputbox
7628         \splitmaxdepth\maxdimen
7629         \vbadness\maxdimen
7630         \setbox\@outputbox\vbox{\unvbox\@outputbox\unskip}%
7631         \setbox\@outputbox\vsplit\@outputbox to\maxdimen
7632         \toks@\expandafter{\topmark}%
7633         \xdef\@firstcoltopmark{\the\toks@}%
7634         \toks@\expandafter{\splitfirstmark}%
7635         \xdef\@firstcolfirstmark{\the\toks@}%
7636         \ifx\@firstcolfirstmark\@empty
7637             \global\let\@setmarks\relax
7638         \else
7639             \gdef\@setmarks{%
7640                 \let\firstmark\@firstcolfirstmark
7641                 \let\topmark\@firstcoltopmark}%
7642         \fi
7643     \else
7644         \global\@firstcolumntrue
7645         \setbox\@outputbox\vbox{%
7646             \hb@xt@\textwidth{%
7647                 \hb@xt@\columnwidth{%

```



```

7648     \bidi@firstcolumn@status@write%
7649     \box\@leftcolumn \hss}%
7650     \hfil
7651     {\normalcolor\vrule \@width\columnseprule}%
7652     \hfil
7653     \hb@xt@\columnwidth{%
7654     \bidi@lastcolumn@status@write%
7655     \box\@outputbox \hss}}}%
7656 \ifvoid\hold@viper
7657 \else
7658     \setbox\@outputbox \vbox to\textheight{%
7659         \box\hold@viper
7660         \box\@outputbox
7661         \vss
7662     }%
7663 \fi
7664 \@combinedblfloats
7665 \@setmarks
7666 \@outputpage
7667 \begingroup
7668     \@dblfloatplacement
7669     \@startdblcolumn
7670     \@whiles\if@fcolmade \fi{\@outputpage
7671     \@startdblcolumn}%
7672     \ifvoid\@viper
7673     \else
7674         \global\setbox\@viper\vbox{%
7675             \vskip-\stripsep
7676             \unvbox\@viper
7677         }%
7678     \@viperoutput
7679     \fi
7680 \endgroup
7681 \fi}%
7682
7683
7684 \def \@addviper {%
7685     \if@firstcolumn
7686     \@insertfalse
7687     \@reqcolroom .5\@pageht
7688     \ht@viper\@reqcolroom
7689     \advance \@reqcolroom \ht\@viper
7690     \advance \@reqcolroom \stripsep
7691     \ifvoid\hold@viper\@tempdima=\z@\else\@tempdima\ht\hold@viper\fi
7692 %%
7693     \@tempdimb \ht@viper
7694     \loop
7695     \setbox\v@aaa\copy\@holdpg
7696     \setbox\v@ccc\vbox to\@tempdimb{%
7697         \vsplit\v@aaa to\@tempdimb\vss\vsplit\v@aaa to\@tempdimb}%
7698     \wlog{Extra height:\the\ht\v@aaa space when \the\@tempdimb}%
7699     \ifvoid\v@aaa \else \advance\@tempdimb 1pt \repeat
7700     \loop
7701     \setbox\v@aaa\copy\@holdpg

```



```

7702 \setbox\v@ccc\vbox to\@tempdimb{%
7703     \vsplit\v@aaa to\@tempdimb\vss}%
7704 \wlog{(2)Left:\the\ht\v@ccc\space Right:\the\ht\v@aaa\space Output:\the\@tempdimb}%
7705 \ifdim \ht\v@ccc<\ht\v@aaa \@tempdimb \the\ht\v@aaa \repeat
7706 \wlog{- LAST -^^JLeft:\the\ht\v@ccc^^JRight:\the\ht\v@aaa^^JOutput:\the\@tempdimb}%
7707 \setbox\v@ccc\vbox to\@tempdimb{%
7708     \vsplit\@holdpg to\@tempdimb\vss}%
7709 %%
7710 \setbox\@tempboxa \vbox {%
7711     \hb@xt@\textwidth {%
7712         \if@RTLmain%
7713             \hskip \columnwidth
7714             \hfil \vrule width\columnseprule \hfil
7715             \hb@xt@\columnwidth {%
7716                 \vbox to\ht@viper{\box\v@ccc\vss} \hss}%
7717             \hskip -\textwidth
7718             \hb@xt@\columnwidth {%
7719                 \vbox to\ht@viper{\box\@holdpg\vss} \hss}%
7720             \hskip \columnsep
7721             \hskip \columnwidth
7722         \else%
7723             \hb@xt@\columnwidth {%
7724                 \vbox to\ht@viper{\box\v@ccc\vss} \hss}%
7725             \hfil
7726             \vrule \@width\columnseprule
7727             \hfil
7728             \hb@xt@\columnwidth {%
7729                 \vbox to\ht@viper{\box\@holdpg\vss} \hss}%
7730             \fi}%
7731     }%
7732 \ifvoid\hold@viper
7733     \global\setbox\hold@viper \vbox {%
7734         \unvbox\@tempboxa
7735         \penalty\interlinepenalty
7736         \vskip\stripsep
7737         \ifnum\outputpenalty <-\@Mii \vskip -\parskip\fi
7738         \outputpenalty \z@
7739     }%
7740 \else
7741     \global\setbox\hold@viper \vbox {%
7742         \unvbox\hold@viper
7743         \unvbox\@tempboxa
7744         \penalty\interlinepenalty
7745         \vskip\stripsep
7746         \ifnum\outputpenalty <-\@Mii \vskip -\parskip\fi
7747         \outputpenalty \z@
7748     }%
7749 \fi
7750 \ifdim \@colroom>\@reqcolroom
7751     \global\setbox\hold@viper \vbox {%
7752         \unvbox\hold@viper
7753         \box\@viper
7754         \penalty\interlinepenalty
7755         \vskip\stripsep

```



```

7756         \ifnum\outputpenalty <-\@Mii \vskip -\parskip\fi
7757         \outputpenalty \z@
7758         }%
7759     \@inserttrue
7760     \advance\@tempdima by-\ht\hold@viper
7761     \global \advance \@colht \@tempdima
7762     \ifdim \@colht<2.5\baselineskip
7763         \@latex@warning@no@line {Optional argument of \noexpand\twocolumn
7764             too tall on page \thepage (1 stulpelis)}%
7765         \@emptycol
7766         \if@firstcolumn
7767         \else
7768             \@emptycol
7769         \fi
7770         \global\@lastvipertrue
7771     \else
7772         \global \vsize \@colht
7773         \global \@colroom \@colht
7774         \check@floats
7775         \ifdim\@tempdima>\z@
7776             \global\advance\@colroom by-\@tempdima
7777         \fi
7778         \ifdim\@colroom<\z@
7779             \global\@colroom 1pt
7780             \ifdim\@tempdima>\@colht
7781                 \@latex@warning@no@line {TOP ir/ar BOT FLOAT's
7782                     netelpa lape \thepage (1 stulpelis)}%
7783             \fi
7784             \@emptycol
7785             \if@firstcolumn
7786             \else
7787                 \@emptycol
7788             \fi
7789             \global\@lastvipertrue
7790         \fi
7791     \fi
7792 \fi
7793 \else
7794     \@insertfalse
7795     \@reqcolroom\@colht
7796     \advance\@reqcolroom \@pageht
7797     \ht@viper.5\@reqcolroom
7798     \@reqcolroom\ht@viper
7799     \advance \@reqcolroom \ht\@viper
7800     \advance \@reqcolroom \stripsep
7801     \if@flushend@auto@baselineskip
7802         \setbox\@tempboxa\vbox{\unvcopy\@leftcolumn
7803             \global\lastskip@d\lastskip
7804             \global\lastskip@b\lastskip
7805         \loop
7806             \global\lastskip@a\lastskip@b
7807             \unskip\unpenalty
7808             \global\lastskip@b\lastskip
7809             \global\advance\lastskip@d by\lastskip

```



```

7810         \ifdim\lastskip@b=-\lastskip@a
7811         \global\advance\lastskip@d by-\lastskip
7812     \else
7813     \repeat
7814     \ifdim\lastskip@b=-\lastskip@a
7815         \ifdim\lastskip@b=\z@
7816             \setbox\lastbox@a\lastbox
7817             \global\advance\lastskip@d by\ht\lastbox@a
7818             \global\advance\lastskip@d by\lastskip
7819             \unskip\unpenalty
7820             \setbox\lastbox@a\lastbox
7821             \global\advance\lastskip@d by\dp\lastbox@a
7822         \else
7823             \global\lastskip@d\lastskip
7824             \global\advance\lastskip@d by\topskip
7825         \fi
7826     \fi
7827     \global\advance\lastskip@d by-\topskip
7828 }%
7829 \ifdim\ht\@holdpg>\@colht
7830     \global\setbox\@holdpg\vbox{\unvbox\@leftcolumn\unskip\unpenalty
7831     \par\eject
7832     \vbox to \@colht{\unvbox\@holdpg\unskip}}%
7833 }%
7834 \else
7835     \global\setbox\@holdpg\vbox{%
7836     \unvbox\@leftcolumn\unskip\unpenalty
7837     \vskip\lastskip@d
7838     \the\At@ViperColsBreak
7839     \unvbox\@holdpg
7840     \unskip
7841     }%
7842 \fi
7843 \else
7844     \global\setbox\@holdpg\vbox{%
7845     \unvbox\@leftcolumn
7846     \setbox\@tempboxa\lastbox
7847     \on@stripcols@break
7848     \the\At@ViperColsBreak
7849     \unvbox\@holdpg
7850     }%
7851 \fi
7852 \global\At@ViperColsBreak{}%
7853 \ht@viper .5\ht\@holdpg
7854 \ifdim \ht@viper>\@colht
7855     \ht@viper \@colht
7856 \fi
7857 \ifvoid\hold@viper\@tempdima=\z@\else\@tempdima\ht\hold@viper\fi
7858 %%
7859 \@tempdimb \ht@viper
7860 \loop
7861     \setbox\v@aaa\copy\@holdpg
7862     \setbox\v@ccc\vbox to\@tempdimb{%
7863         \vsplit\v@aaa to\@tempdimb

```





```

7864         \vss
7865         \vsplit\v@aaa to\@tempdimb
7866     }%
7867     \wlog{Extra height:\the\ht\v@aaa\space when \the\@tempdimb}%
7868     \ifvoid\v@aaa
7869     \else
7870         \advance\@tempdimb 1\p@
7871     \repeat
7872     \loop
7873         \setbox\v@aaa\copy\@holdpg
7874         \setbox\v@ccc\vbox to\@tempdimb{\vsplit\v@aaa to\@tempdimb\vss}%
7875         \wlog{(2)Left:\the\ht\v@ccc\space
7876             Right:\the\ht\v@aaa\space
7877             Output:\the\@tempdimb
7878         }%
7879     \ifdim\ht\v@ccc<\ht\v@aaa
7880         \@tempdimb \the\ht\v@aaa
7881     \repeat
7882     \wlog{- LAST -^^JLeft:\the\ht\v@ccc
7883         ^^JRight:\the\ht\v@aaa
7884         ^^JOutput:\the\@tempdimb
7885     }%
7886     \setbox\v@ccc\vbox to\@tempdimb{\vsplit\@holdpg to\@tempdimb\vss}%
7887     \setbox\@tempboxa\vbox{%
7888         \hb@xt@\textwidth {%
7889             \if@RTLmain%
7890                 \hskip \columnwidth
7891                 \hfil \vrule width\columnseprule \hfil
7892                 \hb@xt@\columnwidth{\vbox to\ht@viper{\box\v@ccc\vss} \hss}%
7893                 \hskip -\textwidth
7894                 \hb@xt@\columnwidth {\vbox to\ht@viper{\box\@holdpg\vss} \hss}%
7895                 \hskip \columnsep
7896                 \hskip \columnwidth
7897             \else
7898                 \hb@xt@\columnwidth{\vbox to\ht@viper{\box\v@ccc\vss} \hss}%
7899                 \hfil
7900                 \vrule \@width\columnseprule
7901                 \hfil
7902                 \hb@xt@\columnwidth {\vbox to\ht@viper{\box\@holdpg\vss} \hss}%
7903             \fi%
7904         }%
7905     }%
7906     \ifvoid\hold@viper
7907         \global\setbox\hold@viper \vbox {%
7908             \unvbox\@tempboxa
7909             \penalty\interlinepenalty
7910             \vskip\stripsep
7911             \ifnum\outputpenalty <-\@Mii \vskip -\parskip\fi
7912             \outputpenalty \z@
7913         }%
7914     \else
7915         \global\setbox\hold@viper \vbox {%
7916             \unvbox\hold@viper
7917             \unvbox\@tempboxa

```



```

7918         \penalty\interlinepenalty
7919         \vskip\stripsep
7920         \ifnum\outputpenalty <-\@Mii \vskip -\parskip\fi
7921         \outputpenalty \z@
7922         }%
7923     \fi
7924     \ifdim \@colht>\@reqcolroom
7925         \global\setbox\hold@viper \vbox {%
7926             \unvbox\hold@viper
7927             \box\@viper
7928             \penalty\interlinepenalty
7929             \vskip\stripsep
7930             \ifnum\outputpenalty <-\@Mii \vskip -\parskip\fi
7931             \outputpenalty \z@
7932             }%
7933     \@inserttrue
7934     \global\@firstcolumntrue
7935     \advance\@tempdima by-\ht\hold@viper
7936     \global \advance \@colht \@tempdima
7937     \ifdim \@colht<2.5\baselineskip
7938         \@latex@warning@no@line {Optional argument of \noexpand\twocolumn
7939                                     too tall on page \thepage (2 stulpelis)}%
7940         \@emptycol
7941         \if@firstcolumn
7942             \else
7943                 \@emptycol
7944             \fi
7945         \global\@lastvipertrue
7946     \else
7947         \global \vsize \@colht
7948         \global \@colroom \@colht
7949         \check@floats
7950         \ifdim\@tempdima>\z@
7951             \global\advance\@colroom by-\@tempdima
7952         \fi
7953         \ifdim\@colroom<\z@
7954             \global\@colroom 1pt
7955             \ifdim\@tempdima>\@colht
7956                 \@latex@warning@no@line {TOP ir/ar BOT FLOAT's
7957                                         netelpa lape \thepage (2 stulpelis)}%
7958             \fi
7959             \@emptycol
7960             \if@firstcolumn
7961                 \else
7962                     \@emptycol
7963                 \fi
7964             \global\@lastvipertrue
7965         \fi
7966     \fi
7967 \fi
7968 \fi
7969 \if@insert
7970 \else
7971     \advance\@tempdima by-\ht\hold@viper

```



```

7972     \global \advance \@colht \@tempdima
7973     \global\setbox\hold@viper \vbox {%
7974                                     \unvbox\hold@viper
7975                                     \csname viper@top@hook\endcsname
7976                                     \vsplit\@viper to \@colht
7977                                     \vss
7978                                     }%
7979     \vbox{}}%
7980     \global\@firstcolumnfalse
7981     \newpage
7982 \fi
7983 }

```

## 45 File cvthemebidicasual.sty

```

7984 \NeedsTeXFormat{LaTeX2e}
7985 \ProvidesPackage{cvthemebidicasual}
7986 \DeclareOption{blue}{}
7987 \newif\if@colourorange\@colourorangefalse
7988 \DeclareOption{orange}{\@colourorangetrue}
7989 \newif\if@colourgreen\@colourgreenfalse
7990 \DeclareOption{green}{\@colourgreentrue}
7991 \newif\if@coloured\@colouredfalse
7992 \DeclareOption{red}{\@colouredtrue}
7993 \newif\if@colourgrey\@colourgreyfalse
7994 \DeclareOption{grey}{\@colourgreytrue}
7995 \DeclareOption*{
7996   \PackageWarning{cvthemebidicasual}{Unknown option ‘\CurrentOption’}}
7997 \ExecuteOptions{colour}
7998 \ProcessOptions\relax
7999 \renewcommand*{\listitemsymbol}{\textbullet}
8000 \definecolor{firstnamecolor}{rgb}{0.65,0.65,0.65}
8001 \familynamecolour{808080}
8002 \firstnamecolour{A9A9A9}
8003 \quotecolour{696969}
8004 \addresscolour{696969}
8005 \definecolor{sectionrectanglecolor}{rgb}{0.25,0.50,0.75}
8006 \sectiontitlecolour{1E90FF}
8007 \subsectioncolour{4682B4}
8008 \definecolor{rulecolour}{gray}{0.6}
8009 \definecolor{footersymbolcolour}{rgb}{0.25,0.50,0.75}
8010 \definecolor{footersymbolcolor}{rgb}{0.25,0.50,0.75}
8011 \if@colourorange
8012   \definecolor{sectionrectanglecolor}{rgb}{1.00,0.65,0.20}
8013   \definecolor{sectionrectanglecolor}{rgb}{1.00,0.65,0.20}
8014   \sectiontitlecolour{FF8C00}
8015   \subsectioncolour{FF8C00}
8016   \definecolor{footersymbolcolour}{rgb}{0.95,0.55,0.15}
8017   \definecolor{footersymbolcolor}{rgb}{0.95,0.55,0.15}\fi
8018 \if@colourgreen
8019   \definecolor{sectionrectanglecolor}{rgb}{0.55,0.85,0.35}
8020   \definecolor{sectionrectanglecolour}{rgb}{0.55,0.85,0.35}
8021   \sectiontitlecolour{008000}
8022   \subsectioncolour{008000}

```



```

8023 \definecolor{footersymbolcolour}{rgb}{0.30,0.65,0.15}
8024 \definecolor{footersymbolcolor}{rgb}{0.30,0.65,0.15}\fi
8025 \if@coloured
8026 \definecolor{sectionrectanglecolor}{rgb}{1.00,0.30,0.30}
8027 \definecolor{sectionrectanglecolour}{rgb}{1.00,0.30,0.30}
8028 \sectiontitlecolour{FF0000}
8029 \subsectioncolour{FF0000}
8030 \definecolor{footersymbolcolour}{rgb}{0.95,0.20,0.20}
8031 \definecolor{footersymbolcolor}{rgb}{0.95,0.20,0.20}\fi
8032 \if@colourgrey
8033 \definecolor{sectionrectanglecolor}{rgb}{0.75,0.75,0.75}
8034 \definecolor{sectionrectanglecolour}{rgb}{0.75,0.75,0.75}
8035 \sectiontitlecolour{808080}
8036 \subsectioncolour{808080}
8037 \definecolor{footersymbolcolour}{rgb}{0.35,0.35,0.35}
8038 \definecolor{footersymbolcolor}{rgb}{0.35,0.35,0.35}\fi
8039 \renewcommand*{\ttdefault}{pcr}
8040 \renewcommand*{\firstnamefont}{\fontsize{38}{40}\mdseries\upshape}
8041 \renewcommand*{\familynamefont}{\firstnamefont}
8042 \renewcommand*{\addressfont}{\normalsize\mdseries\slshape}
8043 \renewcommand*{\quoteont}{\large\slshape}
8044 \renewcommand*{\sectionfont}{\Large\mdseries\upshape}
8045 \renewcommand*{\subsectionfont}{\large\mdseries\upshape}
8046 \renewcommand*{\maketitle}{%
8047   {%
8048     \ifthenelse{\isundefined{\@photo}}{%
8049       {}%
8050       {\color{firstnamecolor}\framebox{\includegraphics[width=\@photowidth]{\@photo}}}%
8051       \hfill%
8052       \bidi@raggedleft{\firstnamestyle{\@firstname}~\familynamestyle{\@familyname}}\[-.35em]}%
8053     {\color{firstnamecolor}\rule{\textwidth}{.25ex}\[2.5em]}%
8054     \ifthenelse{\isundefined{\@quote}}{%
8055       {}%
8056       {\centering{\begin{minipage}{\quotewidth}\centering\quotestyle{\@quote}\end{minipage}}\%
8057     }%
8058 \newif\if@firstfooterelement\@firstfooterelementtrue
8059 \providecommand*{\footersymbol}{%
8060 \renewcommand*{\footersymbol}{%
8061 \if@firstfooterelement%
8062 \else%
8063 { ~\color{footersymbolcolor}\textbullet~~}\fi}
8064 \providecommand*{\makefooter}{%
8065 \renewcommand*{\makefooter}{%
8066 \fancypagestyle{plain}{%
8067 \fancyfoot[c]{%
8068 \parbox{0.8\textwidth}{%
8069 \centering%
8070 \addressfont\@addresscolour%
8071 \ifthenelse{\isundefined{\@address}}{}{}%
8072 \addresssymbol~\@address\%
8073 \@firstfooterelementfalse}%
8074 \ifthenelse{\isundefined{\@mobile}}{}{\mobilesymbol~\@mobile\@firstfooterelementfalse}%
8075 \ifthenelse{\isundefined{\@phone}}{}{\footersymbol\phonesymbol~\@phone\@firstfooterelementfalse}%
8076 \ifthenelse{\isundefined{\@fax}}{}{\footersymbol\faxsymbol~\@fax\@firstfooterelementfalse}%

```



```

8077     \ifthenelse{\isundefined{\@email}}{\footersymbol\emailsymbol~\emaillink{\@email}\@fi
8078     \ifthenelse{\isundefined{\@extrainfo}}{\footersymbol\@extrainfo\@firstfooterelementf
8079   }%
8080   \pagestyle{plain}}
8081 \AtBeginDocument{\makefooter}

```

## 46 File cvthemebidiclassic.sty

```

8082 \NeedsTeXFormat{LaTeX2e}
8083 \ProvidesPackage{cvthemebidiclassic}
8084 \DeclareOption{blue}{}
8085 \newif\if@colourorange\@colourorangefalse
8086 \DeclareOption{orange}{\@colourorange>true}
8087 \newif\if@colourgreen\@colourgreenfalse
8088 \DeclareOption{green}{\@colourgreentru}
8089 \newif\if@colourred\@colourredfalse
8090 \DeclareOption{red}{\@colourredtrue}
8091 \newif\if@colourgrey\@colourgreyfalse
8092 \DeclareOption{grey}{\@colourgreytrue}
8093 \DeclareOption*{
8094   \PackageWarning{cvthemebidiclassic}{Unknown option '\CurrentOption'}}
8095 \ExecuteOptions{colour}
8096 \ProcessOptions\relax
8097 \renewcommand*{\listitemsymbol}{\textbullet}
8098 \firstnamecolour{}
8099 \familynamecolour{}
8100 \titlecolour{808080}
8101 \quotecolour{696969}
8102 \addresscolour{696969}
8103 \definecolor{sectionrectanglecolour}{rgb}{0.25,0.50,0.75}
8104 \definecolor{sectionrectanglecolor}{rgb}{0.25,0.5,0.75}
8105 \sectiontitlecolour{1E90FF}
8106 \subsectioncolour{4682B4}
8107 \if@colourorange
8108   \addresscolour{FF8C00}
8109   \definecolor{sectionrectanglecolour}{rgb}{1.00,0.65,0.20}
8110   \definecolor{sectionrectanglecolor}{rgb}{1,0.65,0.20}
8111   \sectiontitlecolour{FF8C00}
8112   \subsectioncolour{FF8C00}\fi
8113 \if@colourgreen
8114   \addresscolour{008000}
8115   \definecolor{sectionrectanglecolour}{rgb}{0.55,0.85,0.35}
8116   \definecolor{sectionrectanglecolor}{rgb}{0.55,0.85,0.35}
8117   \sectiontitlecolour{008000}
8118   \subsectioncolour{008000}\fi
8119 \if@colourred
8120   \addresscolour{FF0000}
8121   \definecolor{sectionrectanglecolour}{rgb}{1.00,0.30,0.30}
8122   \definecolor{sectionrectanglecolor}{rgb}{1.00,0.30,0.30}
8123   \sectiontitlecolour{FF0000}
8124   \subsectioncolour{FF0000}\fi
8125 \if@colourgrey
8126   \addresscolour{808080}
8127   \definecolor{sectionrectanglecolour}{rgb}{0.75,0.75,0.75}

```



```

8128 \definecolor{sectionrectanglecolor}{rgb}{0.75,0.75,0.75}
8129 \sectiontitlecolour{808080}
8130 \subsectioncolour{808080}\fi
8131 \renewcommand*{\ttdefault}{pcr}
8132 \renewcommand*{\firstnamefont}{\fontsize{34}{36}\mdseries\upshape}
8133 \renewcommand*{\titlefont}{\LARGE\mdseries\slshape}
8134 \renewcommand*{\addressfont}{\normalsize\mdseries\slshape}
8135 \renewcommand*{\familynamefont}{\firstnamefont}
8136 \renewcommand*{\quoteont}{\large\slshape}
8137 \renewcommand*{\sectionfont}{\Large\mdseries\upshape}
8138 \renewcommand*{\subsectionfont}{\large\mdseries\upshape}
8139 \newlength{\maketitlenamemaxwidth}
8140 \setlength{\maketitlenamemaxwidth}{.525\textwidth}
8141 \newlength{\maketitlenamefullwidth}
8142 \settowidth{\maketitlenamefullwidth}{\firstnamestyle{\@firstname~}\familynamestyle{\@familyname}}
8143 \newlength{\maketitlenamewidth}
8144 \ifnum\maketitlenamemaxwidth<\maketitlenamefullwidth\setlength{\maketitlenamewidth}{\maketitlenamefullwidth}
8145 \newlength{\maketitlepicturewidth}
8146 \setlength{\maketitlepicturewidth}{\@photowidth}
8147 \newlength{\maketitledetailwidth}
8148 \renewcommand*{\recomputethemelengths}{%
8149 \setlength{\maketitledetailwidth}{\textwidth}%
8150 \addtolength{\maketitledetailwidth}{-\maketitlenamewidth}%
8151 \addtolength{\maketitledetailwidth}{-\separatorcolumnwidth}%
8152 \addtolength{\maketitledetailwidth}{-\maketitlepicturewidth}}
8153 \recomputethemelengths
8154 \newif\iffirstdetailselement\@firstdetailselementtrue
8155 \newcommand*{\maketitledetailnewline}{%
8156 \iffirstdetailselement%
8157 \@firstdetailselementfalse%
8158 \else%
8159 \[\.2em]\fi}
8160 \renewcommand*{\maketitle}{%
8161 % name and title
8162 \begin{minipage}[b]{\maketitlenamewidth}%
8163 \firstnamestyle{\@firstname~}\familynamestyle{\@familyname}%
8164 \ifthenelse{\equal{\@title}{}}{\[\[1.25em]\titlestyle{\@title}}{}%
8165 \end{minipage}%
8166 % optional data
8167 \begin{minipage}[b]{\maketitledetailwidth}%
8168 \bidi@raggedleft\addressfont\addresscolour%
8169 \ifthenelse{\isundefined{\@address}}{\[\[1.25em]\titlestyle{\@title}}{}%
8170 \maketitledetailnewline%
8171 \addresssymbol~\[\[1.25em]\titlestyle{\@title}}{}%
8172 \ifthenelse{\isundefined{\@mobile}}{\maketitledetailnewline\mobilesymbol~\@mobile}%
8173 \ifthenelse{\isundefined{\@phone}}{\maketitledetailnewline\phonesymbol~\@phone}%
8174 \ifthenelse{\isundefined{\@fax}}{\maketitledetailnewline\faxsymbol~\@fax}%
8175 \ifthenelse{\isundefined{\@email}}{\maketitledetailnewline\emailsymbol~\emailink{\@email}}{}%
8176 \ifthenelse{\isundefined{\@extrainfo}}{\maketitledetailnewline\@extrainfo}%
8177 \end{minipage}%
8178 % optional photo
8179 \ifthenelse{\isundefined{\@photo}}{}%
8180 {}%
8181 {\hspace*{\separatorcolumnwidth}\color{firstnamecolor}\framebox{\includegraphics[width=

```



```

8182 % optional quote
8183 \ifthenelse{\isundefined{\@quote}}{%
8184   {}}%
8185   {\centering{\begin{minipage}{\quotewidth}\centering\quotestyle{\@quote}\end{minipage}}}\
8186 }

```

## 47 File dblfnote-xetex-bidi.def

```

8187 \ProvidesFile{dblfnote-xetex-bidi.def}[2012/12/12 v0.3 bidi adaptations for dblfnote package]
8188 \let\autofootnoterule\relax
8189 \let\rightfootnoterule\relax
8190 \let\leftfootnoterule\relax
8191 \let\textwidthfootnoterule\relax
8192 \let\LRfootnoterule\relax
8193 \def\footnoterule{\kern-3\p@
8194   \hrule \@width \DFNcolumnwidth \kern 2.6\p@}%
8195 \AtBeginDocument{\let\dfn@latex@footnotetext\@footnotetext
8196 \let\@footnotetext\dfn@footnotetext}
8197 \long\def\dfn@LTRfootnotetext#1{{\setbox\dfn@boxa\vbox{
8198   \let\insert\dfn@gobble
8199   \columnwidth\DFNcolumnwidth \hbadness\c@DFNsloppiness
8200   \def\@makefnmark{\smash{\dfn@makefnmark}}
8201   \dfn@latex@LTRfootnotetext{#1}\par \boxmaxdepth\dfn@fnmaxdp}%
8202   \dfn@dima\ht\dfn@boxa \advance\dfn@dima\dp\dfn@boxa
8203   \ifdim\dfn@dima>\z@else
8204     \dfn@dima1sp\relax
8205     \setbox\dfn@boxa\vbox{\vbox to1sp{\unvbox\dfn@boxa\vfil}}\fi
8206   \global\setbox\dfn@ins\vbox{\boxmaxdepth\dfn@fnmaxdp
8207     \ifvoid\dfn@ins\else
8208       \unvbox\dfn@ins \allowbreak \nointerlineskip \fi
8209     \ifdfn@allowcbreak \unvbox \else \box \fi \dfn@boxa}%
8210   \setbox\dfn@boxa\copy\dfn@ins
8211   \dfn@split{.5\ht\dfn@boxa}\dfn@boxa\dfn@boxb\dfn@fnmaxdp\footnotesep
8212   \advance\@tempdima\@tempdimb \@tempdimb\@tempdima
8213   \advance\@tempdima-\dfn@fnht \global\dfn@fnht\@tempdimb
8214   \insert\footins{\floatingpenalty\@MM \vbox to\@tempdima{}}%
8215   \xdef\dfn@list{\dfn@list\@elt{number\dfn@dima}{\number\@tempdima}}}}
8216 \AtBeginDocument{\let\dfn@latex@LTRfootnotetext\@LTRfootnotetext
8217 \let\@LTRfootnotetext\dfn@LTRfootnotetext}
8218 \long\def\dfn@RTLfootnotetext#1{{\setbox\dfn@boxa\vbox{
8219   \let\insert\dfn@gobble
8220   \columnwidth\DFNcolumnwidth \hbadness\c@DFNsloppiness
8221   \def\@makefnmark{\smash{\dfn@makefnmark}}
8222   \dfn@latex@RTLfootnotetext{#1}\par \boxmaxdepth\dfn@fnmaxdp}%
8223   \dfn@dima\ht\dfn@boxa \advance\dfn@dima\dp\dfn@boxa
8224   \ifdim\dfn@dima>\z@else
8225     \dfn@dima1sp\relax
8226     \setbox\dfn@boxa\vbox{\vbox to1sp{\unvbox\dfn@boxa\vfil}}\fi
8227   \global\setbox\dfn@ins\vbox{\boxmaxdepth\dfn@fnmaxdp
8228     \ifvoid\dfn@ins\else
8229       \unvbox\dfn@ins \allowbreak \nointerlineskip \fi
8230     \ifdfn@allowcbreak \unvbox \else \box \fi \dfn@boxa}%
8231   \setbox\dfn@boxa\copy\dfn@ins
8232   \dfn@split{.5\ht\dfn@boxa}\dfn@boxa\dfn@boxb\dfn@fnmaxdp\footnotesep

```



```

8233 \advance\@tempdima\@tempdimb \@tempdimb\@tempdima
8234 \advance\@tempdima-\dfn@fnht \global\dfn@fnht\@tempdimb
8235 \insert\footins{\floatingpenalty\@MM \vbox to\@tempdima{}}%
8236 \xdef\dfn@list{\dfn@list\@elt{\number\dfn@dima}{\number\@tempdima}}}}
8237 \AtBeginDocument{\let\dfn@latex@RTLfootnotetext\@RTLfootnotetext
8238 \let\@RTLfootnotetext\dfn@RTLfootnotetext}
8239 \def\dfn@RTLmakecol{{\ifvoid\footins\else
8240 \dfn@dima\ht\footins
8241 \@tempcnta\z@ \dfn@countins
8242 \@tempdima\z@ \let\@elt\dfn@elt\getht
8243 \dfn@list\@nil
8244 \ifdim\@tempdima=\z@\else
8245 \dfn@split\@tempdima\dfn@ins\dfn@boxa\z@\z@
8246 \global\setbox\dfn@ins\box\dfn@ins
8247 \@tempwattrue
8248 \ifdfn@trysingle
8249 \setbox\dfn@boxb\vbox{\unvcopy\@cclv}\@tempdima\@colroom
8250 \advance\@tempdima-\ht\dfn@boxb \advance\@tempdima-\dp\dfn@boxb
8251 \advance\@tempdima-\skip\footins
8252 \advance\@tempdima-\ht\dfn@boxa
8253 \ifdim\@tempdima<\z@\else \@tempswafalse
8254 \global\setbox\footins\vbox{\boxmaxdepth\dfn@fnmaxdp
8255 \footnoterule \unvbox\dfn@boxa}\fi\fi
8256 \if@tempswa
8257 \dfn@split{\dfn@dima}\dfn@boxa\dfn@boxb\dfn@fnmaxdp\footnotesep
8258 \global\setbox\footins\vbox{\hbox{%
8259 \hskip \DFNcolumnwidth
8260 \hskip\DFNcolumnsep
8261 \hbox to\DFNcolumnwidth{\vbox to\@tempdima{\footnoterule
8262 \unvbox\dfn@boxb\vss}\hss}
8263 \hskip -\textwidth
8264 \hbox to\DFNcolumnwidth{\ifvoid\dfn@boxa\else
8265 \vbox to\@tempdima{
8266 \setbox\@tempboxa\vbox{\footnoterule}
8267 \ifdfn@ruleboth \unvbox\@tempboxa
8268 \else \@tempdima\ht\@tempboxa
8269 \advance\@tempdima\dp\@tempboxa
8270 \vskip\@tempdima
8271 \prevdepth\dp\@tempboxa \fi
8272 \unvbox\dfn@boxa\vss}\fi\hss}
8273 \hskip \DFNcolumnsep
8274 \hskip \DFNcolumnwidth}}\fi\fi
8275 \global\dfn@fnht\z@
8276 \ifx\dfn@list\@empty\else
8277 \let\@elt\dfn@elt\adjust \dfn@dima\z@ \dfn@dimb\z@
8278 \dfn@list \global\advance\dfn@fnht\dfn@dimb
8279 \let\@elt\relax
8280 \ifdim\dfn@dimb>\z@
8281 \xdef\dfn@list{\@elt{0}{\number\dfn@dimb}\dfn@list}%
8282 \insert\footins{\floatingpenalty\@MM
8283 \vbox to\dfn@dimb{}}\fi
8284 \ifdim\dfn@fnht>\@tempdima
8285 \@tempdimb\@tempdima \advance\@tempdimb-\dfn@fnht
8286 \global\dfn@fnht\@tempdima

```





```

8287 \xdef\dfn@list{\dfn@list\@elt{0}{\number\@tempdimb}}%
8288 \xdef\dfn@afteroutput{\insert\footins{
8289 \floatingpenalty\MM
8290 \vbox to\number\@tempdimb sp{}}}%
8291 \global\let\noexpand\dfn@afteroutput\relax}%
8292 \fi\fi
8293 \fi}%
8294 \let\footnoterule\relax \dfn@latex@makecol
8295 \let\footnoterule\dfn@footnoterule}
8296 \def\dfn@LTRmakecol{\ifvoid\footins\else
8297 \dfn@dima\ht\footins
8298 \@tempcnta\z@ \dfn@countins
8299 \@tempdima\z@ \let\@elt\dfn@elt@getht
8300 \dfn@list\@nil
8301 \ifdim\@tempdima=\z@\else
8302 \dfn@split\@tempdima\dfn@ins\dfn@boxa\z@\z@
8303 \global\setbox\dfn@ins\box\dfn@ins
8304 \@tempswatrue
8305 \ifdfn@trysingle
8306 \setbox\dfn@boxb\vbox{\unvcopy\@cclv}\@tempdima\@colroom
8307 \advance\@tempdima-\ht\dfn@boxb \advance\@tempdima-\dp\dfn@boxb
8308 \advance\@tempdima-\skip\footins
8309 \advance\@tempdima-\ht\dfn@boxa
8310 \ifdim\@tempdima<\z@\else \@tempswafalse
8311 \global\setbox\footins\vbox{\boxmaxdepth\dfn@fnmaxdp
8312 \footnoterule \unvbox\dfn@boxa}\fi\fi
8313 \if@tempswa
8314 \dfn@split{\dfn@dima}\dfn@boxa\dfn@boxb\dfn@fnmaxdp\footnotesep
8315 \global\setbox\footins\vbox{\hbox{%
8316 \hbox to\DFNcolumnwidth{\vbox to\@tempdima{\footnoterule
8317 \unvbox\dfn@boxb\vss}\hss}\hskip\DFNcolumnsep
8318 \hbox to\DFNcolumnwidth{\ifvoid\dfn@boxa\else
8319 \vbox to\@tempdima{
8320 \setbox\@tempboxa\vbox{\footnoterule}
8321 \ifdfn@ruleboth \unvbox\@tempboxa
8322 \else \@tempdima\ht\@tempboxa
8323 \advance\@tempdima\dp\@tempboxa
8324 \vskip\@tempdima
8325 \prevdepth\dp\@tempboxa \fi
8326 \unvbox\dfn@boxa\vss}\fi\hss}}}\fi\fi
8327 \global\dfn@fnht\z@
8328 \ifx\dfn@list\@empty\else
8329 \let\@elt\dfn@elt@adjust \dfn@dima\z@ \dfn@dimb\z@
8330 \dfn@list \global\advance\dfn@fnht\dfn@dimb
8331 \let\@elt\relax
8332 \ifdim\dfn@dimb>\z@
8333 \xdef\dfn@list{\@elt{0}{\number\dfn@dimb}\dfn@list}%
8334 \insert\footins{\floatingpenalty\MM
8335 \vbox to\dfn@dimb{}}\fi
8336 \ifdim\dfn@fnht>\@tempdima
8337 \@tempdimb\@tempdima \advance\@tempdimb-\dfn@fnht
8338 \global\dfn@fnht\@tempdima
8339 \xdef\dfn@list{\dfn@list\@elt{0}{\number\@tempdimb}}%
8340 \xdef\dfn@afteroutput{\insert\footins{

```



```

8341 \floatingpenalty\@MM
8342 \vbox to\number\@tempdimb sp{}}%
8343 \global\let\noexpand\dfn@afteroutput\relax}%
8344 \fi\fi
8345 \fi}%
8346 \let\footnoterule\relax \dfn@latex@makecol
8347 \let\footnoterule\dfn@footnoterule}
8348 \renewcommand{\dfn@makecol}{\if@RTLmain\dfn@RTLmakecol\else\dfn@LTRmakecol\fi}
8349 \newcommand{\RTLdfnmakecol}{\renewcommand{\dfn@makecol}{\dfn@RTLmakecol}}
8350 \newcommand{\LTRdfnmakecol}{\renewcommand{\dfn@makecol}{\dfn@LTRmakecol}}
8351 \DFNalwaysdouble

```

## 48 File diagbox-xetex-bidi.def

```

8352 \ProvidesFile{diagbox-xetex-bidi.def}[2017/12/30 v0.2 bidi adaptations for diagbox package f
8353 \bidi@patchcmd{\diagbox@double}{%
8354 \begin{tabular}{@{\hspace{\diagbox@insepr}}>{\diagbox@font}l@{}}
8355 }{\bidi@@diagbox@double@ii}{-}{-}
8356 \bidi@patchcmd{\diagbox@double}{%
8357 \begin{tabular}{@{}>{\diagbox@font}r@{\hspace{\diagbox@insepr}}}
8358 }{\bidi@@diagbox@double@iii}{-}{-}
8359 \newcommand*{\bidi@@diagbox@double@ii}{%
8360 \if@RTL
8361 \begin{tabular}{@{}>{\diagbox@font}r@{\hspace{\diagbox@insepr}}}
8362 \else
8363 \begin{tabular}{@{\hspace{\diagbox@insepr}}>{\diagbox@font}l@{}}
8364 \fi
8365 }
8366 \newcommand*{\bidi@@diagbox@double@iii}{%
8367 \if@RTL
8368 \begin{tabular}{@{\hspace{\diagbox@insepr}}>{\diagbox@font}l@{}}
8369 \else
8370 \begin{tabular}{@{}>{\diagbox@font}r@{\hspace{\diagbox@insepr}}}
8371 \fi
8372 }
8373 \bidi@patchcmd{\diagbox@triple@setbox@NW}{%
8374 \begin{tabular}{@{\hspace{\diagbox@insepr}}>{\diagbox@font}l@{}}
8375 }{\bidi@@diagbox@triple@setbox@NW@tabular@i@ii}{-}{-}
8376 \bidi@patchcmd{\diagbox@triple@setbox@NW}{%
8377 \begin{tabular}{@{\hspace{\diagbox@insepr}}>{\diagbox@font}l@{}}
8378 }{\bidi@@diagbox@triple@setbox@NW@tabular@i@ii}{-}{-}
8379 \bidi@patchcmd{\diagbox@triple@setbox@NW}{%
8380 \begin{tabular}{@{}>{\diagbox@font}r@{\hspace{\diagbox@insepr}}}
8381 }{\bidi@@diagbox@triple@setbox@NW@tabular@iii}{-}{-}
8382 \newcommand*{\bidi@@diagbox@triple@setbox@NW@tabular@i@ii}{%
8383 \if@RTL
8384 \begin{tabular}{@{}>{\diagbox@font}r@{\hspace{\diagbox@insepr}}}
8385 \else
8386 \begin{tabular}{@{\hspace{\diagbox@insepr}}>{\diagbox@font}l@{}}
8387 \fi}
8388 \newcommand*{\bidi@@diagbox@triple@setbox@NW@tabular@iii}{%
8389 \if@RTL
8390 \begin{tabular}{@{\hspace{\diagbox@insepr}}>{\diagbox@font}l@{}}
8391 \else

```



```

8392 \begin{tabular}{@{}>{\diagbox@font}r@{\hspace{\diagbox@insepr}}}%
8393 \fi}
8394 \let\diagbox@triple@setbox@SW\diagbox@triple@setbox@NW
8395 \bidi@patchcmd{\diagbox@triple@setbox@SE}{%
8396 \begin{tabular}{@{\hspace{\diagbox@insepl}}l@{}}%
8397 }{\bidi@@diagbox@triple@setbox@SE@tabular@i}{-}{-}
8398 \bidi@patchcmd{\diagbox@triple@setbox@SE}{%
8399 \begin{tabular}{@{}r@{\hspace{\diagbox@insepr}}}%
8400 }{\bidi@@diagbox@triple@setbox@SE@tabular@ii@iii}{-}{-}
8401 \bidi@patchcmd{\diagbox@triple@setbox@SE}{%
8402 \begin{tabular}{@{}r@{\hspace{\diagbox@insepr}}}%
8403 }{\bidi@@diagbox@triple@setbox@SE@tabular@ii@iii}{-}{-}
8404 \newcommand*{\bidi@@diagbox@triple@setbox@SE@tabular@i}{%
8405 \ifRTL
8406 \begin{tabular}{@{}r@{\hspace{\diagbox@insepl}}}%
8407 \else
8408 \begin{tabular}{@{\hspace{\diagbox@insepl}}l@{}}
8409 \fi
8410 }
8411 \newcommand*{\bidi@@diagbox@triple@setbox@SE@tabular@ii@iii}{%
8412 \ifRTL
8413 \begin{tabular}{@{\hspace{\diagbox@insepr}}l@{}}
8414 \else
8415 \begin{tabular}{@{}r@{\hspace{\diagbox@insepr}}}%
8416 \fi
8417 }
8418 \let\diagbox@triple@setbox@NE\diagbox@triple@setbox@SE
8419 \bidi@patchcmd{\diagbox@double@pict@SE}{%
8420 \diagbox@setlinecolor
8421 \Line(0,\strip@pt\diagbox@ht)(\strip@pt\diagbox@wd,0)%
8422 }{%
8423 {\diagbox@setlinecolor
8424 \Line(0,\strip@pt\diagbox@ht)(\strip@pt\diagbox@wd,0)}%
8425 }{}{}
8426 \let\diagbox@double@pict@NW\diagbox@double@pict@SE
8427 \bidi@patchcmd{\diagbox@double@pict@NE}{%
8428 \diagbox@setlinecolor
8429 \Line(0,0)(\strip@pt\diagbox@wd,\strip@pt\diagbox@ht)%
8430 }{%
8431 {\diagbox@setlinecolor
8432 \Line(0,0)(\strip@pt\diagbox@wd,\strip@pt\diagbox@ht)}%
8433 }{}{}
8434 \let\diagbox@double@pict@SW\diagbox@double@pict@NE
8435 \bidi@patchcmd{\diagbox@triple@pict@NW}{%
8436 \diagbox@setlinecolor
8437 \Line(0,\yym)(\x,0)
8438 \Line(\xm,\y)(\x,0)%
8439 }{%
8440 {\diagbox@setlinecolor
8441 \Line(0,\yym)(\x,0)
8442 \Line(\xm,\y)(\x,0)}%
8443 }{}{}
8444 \bidi@patchcmd{\diagbox@triple@pict@NE}{%
8445 \diagbox@setlinecolor

```



```

8446 \Line(0,0)(\xxm,\y)
8447 \Line(0,0)(\x,\yym)%
8448 }{%
8449 {\diagbox@setlinecolor
8450 \Line(0,0)(\xxm,\y)
8451 \Line(0,0)(\x,\yym)}%
8452 }{}{}
8453 \bidi@patchcmd{\diagbox@triple@pict@SW}{%
8454 \diagbox@setlinecolor
8455 \Line(0,\ym)(\x,\y)
8456 \Line(\xm,0)(\x,\y)%
8457 }{%
8458 {\diagbox@setlinecolor
8459 \Line(0,\ym)(\x,\y)
8460 \Line(\xm,0)(\x,\y)}%
8461 }{}{}
8462 \bidi@patchcmd{\diagbox@triple@pict@SE}{%
8463 \diagbox@setlinecolor
8464 \Line(0,\y)(\xxm,0)
8465 \Line(0,\y)(\x,\ym)%
8466 }{%
8467 {\diagbox@setlinecolor
8468 \Line(0,\y)(\xxm,0)
8469 \Line(0,\y)(\x,\ym)}%
8470 }{}{}

```

## 49 File draftwatermark-xetex-bidi.def

```

8471 \ProvidesFile{draftwatermark-xetex-bidi.def}[2010/07/25 v0.2 bidi adaptations for draftwater
8472 \renewcommand\SetWatermarkText[1]{%
8473 \def\sc@wm@text{\if@RTLmain\beginR\fi#1\if@RTLmain\endR\fi}}

```

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

```

8474 \ProvidesFile{eso-pic-xetex-bidi.def}[2022/02/01 v0.3 bidi adaptations for eso-pic package f
8475 \renewcommand\AtPageLowerLeft[1]{\AtPageUpperLeft{%
8476 \put(\if@RTLmain\paperwidth\else 0\fi,-\paperheight){#1}}
8477
8478 \ESO@isMEMOIR{%
8479 \renewcommand\AtTextUpperLeft[1]{%
8480 \begingroup
8481 \ifodd\c@page
8482 \ESO@tempdima=\spinemargin
8483 \else
8484 \ESO@tempdima=\paperwidth
8485 \advance\ESO@tempdima-\textwidth
8486 \advance\ESO@tempdima-\spinemargin
8487 \fi
8488 \ESO@tempdimb=-\uppermargin
8489 \AtPageUpperLeft{%
8490 \put(\if@RTLmain-\fi\ESO@tempdima,\ESO@tempdimb){#1}}%
8491 }%
8492 \endgroup
8493 }

```



```

8494 }{%
8495   \renewcommand\AtTextUpperLeft[1]{%
8496     \begin{group}
8497       \ESO@tempdima=1in\relax
8498       \if@twoside
8499         \ifodd\c@page
8500           \if@RTLmain
8501             \advance\ESO@tempdima\evensidemargin
8502           \else
8503             \advance\ESO@tempdima\oddsidemargin
8504           \fi
8505         \else
8506           \if@RTLmain
8507             \advance\ESO@tempdima\oddsidemargin
8508           \else
8509             \advance\ESO@tempdima\evensidemargin
8510           \fi
8511         \fi
8512       \else
8513         \advance\ESO@tempdima\oddsidemargin
8514       \fi
8515       \ESO@tempdimb=-1in\relax
8516       \advance\ESO@tempdimb-\topmargin
8517       \advance\ESO@tempdimb-\headheight
8518       \advance\ESO@tempdimb-\headsep
8519       \AtPageUpperLeft{%
8520         \put(\if@RTLmain-\fi\ESO@tempdima,\ESO@tempdimb){#1}%
8521       }%
8522     \endgroup
8523   }
8524 }

```

## 51 File empheq-xetex-bidi.def

```

8525 \ProvidesFile{empheq-xetex-bidi.def}[2018/01/08 v0.2 bidi adaptations for empheq package for
8526 \MHInternalSyntaxOn
8527 \def\EQ_tag_plus_endmark:{%
8528   \iftagsleft@
8529     \gdef\maketag@@@#1{%
8530       \hfuzz\displaywidth
8531       \if@RTL\makebox[\widthof{#1}][r]{%
8532         \hbox to \displaywidth{\m@th\normalfont##1\hss
8533           \raisebox{-\dp\EQ_mathdisplay_box
8534             -\depthof{\EQ_outerbox:}}{
8535             {\PotEndMark{\hss}}}}
8536       \else\makebox[\widthof{#1}][l]{%
8537         \hbox to \displaywidth{\m@th\normalfont##1\hss
8538           \raisebox{-\dp\EQ_mathdisplay_box
8539             -\depthof{\EQ_outerbox:}}{
8540             {\PotEndMark{\hss}}}}\fi}%
8541   \MH_else:
8542     \gdef\maketag@@@#1{%
8543       \hbox{\m@th\normalfont##1\llap{\hss\PotEndMark{%
8544         \settoheight{\@tempdima}{\@nameuse{\InTheoType Symbol}}}%

```



```

8545 \MH_addtolength:dn \@tempdima
8546 {\g_EQ_bottomtag_depth_dim+\mintagvsep}
8547 \setlength{\@tempdimb}
8548 {\g_EQ_bottomrow_depth_dim+\depthof{\EQ_outerbox:}}
8549 +\depthof{\EQ_innerbox:}}
8550 \MH_if_dim:w \@tempdima>\@tempdimb
8551 \MH_setlength:dn \@tempdima{-\dp\EQ_mathdisplay_box
8552 -\@tempdima+\g_EQ_bottomrow_depth_dim}
8553 \addtolength{\@tempdima}{\depthof{\EQ_innerbox:}}}%
8554 \def\EQ_next:{\raisebox{\@tempdima}}%
8555 \MH_else:
8556 \def\EQ_next:{
8557 \raisebox{-\dp\EQ_mathdisplay_box
8558 -\depthof{\EQ_outerbox:}}}%
8559 \MH_fi:\EQ_next:}}}%
8560 \MH_fi:}
8561 \def\EQ_post_process:{%
8562 \EQ_initialize:
8563 \EQ_begin_equation:
8564 \MH_if_boolean:nT {outer_mult}{
8565 \setkeys{MT_options_name:}{
8566 firstline-afterskip=0pt,
8567 lastline-preskip=0pt,
8568 multlined-width=0pt,
8569 }
8570 \ifodd \l_EQ_alignmentmode_int
8571 \setkeys{MT_options_name:}{multlined-pos=b}
8572 \MH_else:
8573 \setkeys{MT_options_name:}{multlined-pos=t}
8574 \MH_fi:
8575 \g@addto@macro\EQ_complete_mathdisplay:{
8576 \begin{MTmultlined}\relax
8577 }
8578 \g@addto@macro\EQ_complete_mathdisplay:\EQ_mathbody:
8579 \MH_if_boolean:nT {outer_mult}{
8580 \g@addto@macro\EQ_complete_mathdisplay:{\end{MTmultlined}}
8581 }
8582 \EQ_end_equation:
8583 \edef\EQ_hyperref_link_fint{\number\Hy@linkcounter}
8584 \savecounters@
8585 \EQ_typeset_tags:
8586 \edef\l_EQ_equation_fint{\number\c@equation}
8587 \restorecounters@
8588 \Hy@linkcounter=\EQ_hyperref_link_fint
8589 \settowidth\l_EQ_totalwidth_dim{%
8590 $\EQ_left_side:\EQ_innerbox:}\EQ_right_side:$}%
8591 \MH_if_boolean:nTF {outer_mult}
8592 { \def\EQ_next:{_mult} }
8593 { \def\EQ_next:{} }
8594 \@nameuse{EQ_modify_linewidth_
8595 \romannumeral\l_EQ_equationtype_int\EQ_next: :}%
8596 \EQ_typeset_display:
8597 \@nameuse{EQ_find_displaywidth_
8598 \romannumeral\l_EQ_equationtype_int\EQ_next: :}

```



```

8599 \MH_addtolength:dn
8600 \l_EQ_totalwidth_dim{\l_EQ_displaywidth_dim}
8601 \savebox\EQ_mathdisplay_box[\l_EQ_totalwidth_dim][c]{%
8602   $EQ_left_side:
8603   \EQ_innerbox:{%
8604     \MH_if_case:w \l_EQ_alignmentmode_int\MH_or:
8605     \makebox[\l_EQ_displaywidth_dim][c]
8606     {\usebox{\EQ_mathdisplay_box}}%
8607   \MH_or:
8608     \makebox[\l_EQ_displaywidth_dim][c]
8609     {\usebox{\EQ_mathdisplay_box}}%
8610   \MH_or:
8611     \if@RTL\makebox[\l_EQ_displaywidth_dim][r]{%
8612       \MH_if_num:w \l_EQ_equationtype_int=5 \MH_else:
8613       \MH_if_num:w \l_EQ_equationtype_int=6 \MH_else:
8614       \kern-\@mathmargin
8615       \MH_fi:
8616     \MH_fi:
8617     \usebox{\EQ_mathdisplay_box}}%
8618   \else\makebox[\l_EQ_displaywidth_dim][l]{%
8619     \MH_if_num:w \l_EQ_equationtype_int=5 \MH_else:
8620     \MH_if_num:w \l_EQ_equationtype_int=6 \MH_else:
8621     \kern-\@mathmargin
8622     \MH_fi:
8623     \MH_fi:
8624     \usebox{\EQ_mathdisplay_box}}\fi%
8625   \MH_or:
8626     \if@RTL\makebox[\l_EQ_displaywidth_dim][r]{%
8627       \MH_if_num:w \l_EQ_equationtype_int=5 \MH_else:
8628       \MH_if_num:w \l_EQ_equationtype_int=6 \MH_else:
8629       \kern-\@mathmargin
8630       \MH_fi:
8631     \MH_fi:
8632     \usebox{\EQ_mathdisplay_box}}
8633   \else\makebox[\l_EQ_displaywidth_dim][l]{%
8634     \MH_if_num:w \l_EQ_equationtype_int=5 \MH_else:
8635     \MH_if_num:w \l_EQ_equationtype_int=6 \MH_else:
8636     \kern-\@mathmargin
8637     \MH_fi:
8638     \MH_fi:
8639     \usebox{\EQ_mathdisplay_box}}\fi%
8640   \MH_fi:}%
8641   \EQ_right_side:$}%
8642 \begin{AmSequation*}
8643 \@nameuse{EQ_place_display_
8644   \romannumeral\l_EQ_equationtype_int\EQ_next: :}
8645 \MH_if_dim:w \g_EQ_widesttag_dim>\z@
8646 \MH_set_boolean_T:n {show_manual_tags}
8647 \MH_if_case:w \l_EQ_alignmentmode_int
8648 \MH_or: \if@RTL\EQ_place_tag:N l\else\EQ_place_tag:N r\fi %#1
8649 \MH_or: \if@RTL\EQ_place_tag:N r\else\EQ_place_tag:N l\fi %#2
8650 \MH_or: \if@RTL\EQ_place_tag:N l\else\EQ_place_tag:N r\fi %#3
8651 \MH_or: \if@RTL\EQ_place_tag:N r\else\EQ_place_tag:N l\fi %#4
8652 \MH_fi:

```



```

8653 \MH_fi:
8654 \end{AmSequation*}
8655 \global\c@equation=\l_EQ_equation_fint\relax
8656 }
8657 \AtBeginDocument{%
8658 \ifpackageloaded{fancybox}{%
8659 \ifpackageloaded{color}{\definecolor{shadowcolor}{rgb}{0,0,0}}%
8660 {\renewcommand*\textcolor[2]{\normalcolor{#2}}}%
8661 \renewcommand*\shadowbox{%
8662 \ifstar{\MH_set_boolean_T:n {shadowbox_star}
8663 \VerbBox\EQ_shadowbox:n}
8664 {\MH_set_boolean_F:n {shadowbox_star}
8665 \VerbBox\EQ_shadowbox:n}}
8666 \def\EQ_shadowbox:n #1{%
8667 \sbox{\z@}{\fbox{#1}}%
8668 \MH_if_boolean:nTF {shadowbox_star}{
8669 \MH_setlength:dn \@tempdima{\z@}%
8670 }{
8671 \MH_setlength:dn \@tempdima{\dp\z@+\shadowsize}%
8672 }
8673 \raisebox{\@tempdima}{%
8674 \ifRTL\makebox[\z@][r]{%
8675 \kern\shadowsize \textcolor{shadowcolor}{%
8676 \rule[-\dp\z@-\shadowsize]{\wd\z@}{\shadowsize}}%
8677 }%
8678 \else\makebox[\z@][l]{%
8679 \kern\shadowsize \textcolor{shadowcolor}{%
8680 \rule[-\dp\z@-\shadowsize]{\wd\z@}{\shadowsize}}%
8681 }\fi%
8682 \usebox\z@\textcolor{shadowcolor}{%
8683 \rule[-\dp\z@-\shadowsize]{\shadowsize}{\ht\z@+\dp\z@}}}%
8684 }{}%
8685 }
8686 \MHInternalSyntaxOff

```

## 52 File extarticle-xetex-bidi.def

```

8687 \ProvidesFile{extarticle-xetex-bidi.def}[2017/06/09 v0.4 bidi adaptations for extarticle cla
8688 \renewcommand*\l@section[2]{%
8689 \ifnum \c@tocdepth >\z@
8690 \addpenalty\@secpenalty
8691 \addvspace{1.0em \@plus\p@}%
8692 \setlength\@tempdima{1.5em}%
8693 \begingroup
8694 \parindent \z@ \ifRTL\leftskip\else\rightskip\fi \@pnumwidth
8695 \parfillskip -\@pnumwidth
8696 \leavevmode \bfseries
8697 \advance\ifRTL\rightskip\else\leftskip\fi\@tempdima
8698 \hskip -\ifRTL\rightskip\else\leftskip\fi
8699 #1\nobreak\hfil \nobreak\hb@xt@\@pnumwidth{\hss #2}\par
8700 \endgroup
8701 \fi}
8702 \renewcommand*\l@part[2]{%
8703 \ifnum \c@tocdepth >-2\relax

```





```

8704 \addpenalty\@secpenalty
8705 \addvspace{2.25em \@plus\p}%
8706 \begingroup
8707 \setlength\@tempdima{3em}%
8708 \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
8709 \parfillskip -\@pnumwidth
8710 {\leavevmode
8711 \large \bfseries #1\hfil \hb@xt@\@pnumwidth{\hss #2}}\par
8712 \nobreak
8713 \endgroup
8714 \fi}
8715 \def\@part[#1]#2{%
8716 \ifnum \c@secnumdepth >\m@ne
8717 \refstepcounter{part}%
8718 \addcontentsline{toc}{part}{\thepart\hspace{1em}#1}%
8719 \else
8720 \addcontentsline{toc}{part}{#1}%
8721 \fi
8722 {\parindent \z@ \if@RTL\raggedleft\else\raggedright\fi
8723 \interlinepenalty \@M
8724 \normalfont
8725 \ifnum \c@secnumdepth >\m@ne
8726 \Large\bfseries \partname~\thepart
8727 \par\nobreak
8728 \fi
8729 \huge \bfseries #2%
8730 \markboth{}{}\par}%
8731 \nobreak
8732 \vskip 3ex
8733 \@afterheading}
8734 \def\@spart#1{%
8735 {\parindent \z@ \if@RTL\raggedleft\else\raggedright\fi
8736 \interlinepenalty \@M
8737 \normalfont
8738 \huge \bfseries #1\par}%
8739 \nobreak
8740 \vskip 3ex
8741 \@afterheading}
8742 \renewenvironment{thebibliography}[1]
8743 {\section*{\refname
8744 \@mkboth{\MakeUppercase\refname}{\MakeUppercase\refname}}%
8745 \if@RTL\if@LTRbibitems\@RTLfalse\else\fi\else\if@RTLbibitems\@RTLtrue\else\fi\fi
8746 \bidi@thebibliography@font@hook%
8747 \list{\@biblabel{\@arabic\c@enumiv}}%
8748 {\settowidth\labelwidth{\@biblabel{#1}}%
8749 \leftmargin\labelwidth
8750 \advance\leftmargin\labelsep
8751 \@openbib@code
8752 \usecounter{enumiv}%
8753 \let\p@enumiv\@empty
8754 \renewcommand\theenumiv{\@arabic\c@enumiv}}%
8755 \sloppy\clubpenalty4000\widowpenalty4000%
8756 \sfcode\.\@m}
8757 {\def\@noitemerr

```



```

8758      {\@latex@warning{Empty `thebibliography' environment}}}%
8759      \endlist}
8760 \renewcommand\left@footnoterule{%
8761   \kern-3\p@
8762   \hrule\@width.4\columnwidth
8763   \kern2.6\p@}
8764 \renewcommand\right@footnoterule{%
8765   \kern-3\p@
8766   \hbox to \columnwidth{\hskip .6\columnwidth \hrulefill }
8767   \kern2.6\p@}
8768   \if@titlepage
8769   \renewcommand\maketitle{\begin{titlepage}%
8770     \let\footnotesize\small
8771     \let\right@footnoterule\relax
8772     \let\left@footnoterule\relax
8773     \let\textwidth\footnoterule\relax
8774     \let \footnote \thanks
8775     \null\vfil
8776     \vskip 60\p@
8777     \begin{center}%
8778       {\LARGE \@title \par}%
8779       \vskip 3em%
8780       {\large
8781         \lineskip .75em%
8782         \begin{tabular}[t]{c}%
8783           \@author
8784           \end{tabular}\par}%
8785       \vskip 1.5em%
8786       {\large \@date \par}%           % Set date in \large size.
8787     \end{center}\par
8788     \@thanks
8789     \vfil\null
8790     \end{titlepage}%
8791     \setcounter{footnote}{0}%
8792     \global\let\thanks\relax
8793     \global\let\maketitle\relax
8794     \global\let\@thanks\@empty
8795     \global\let\@author\@empty
8796     \global\let\@date\@empty
8797     \global\let\@title\@empty
8798     \global\let\title\relax
8799     \global\let\author\relax
8800     \global\let\date\relax
8801     \global\let\and\relax
8802   }
8803 \else
8804 \renewcommand\maketitle{\par
8805   \begingroup
8806     \renewcommand\thefootnote{\@fnsymbol\c@footnote}%
8807     \def\@makefnmark{\rlap{\@textsuperscript{\normalfont\@thefnmark}}}%
8808     \long\def\@makefntext##1{\parindent 1em\noindent
8809       \hb@xt@1.8em{%
8810         \hss\@textsuperscript{\normalfont\@thefnmark}}##1}%
8811     \if@twocolumn

```



```

8812 \ifnum \col@number=\@ne
8813 \maketitle
8814 \else
8815 \twocolumn[\maketitle]%
8816 \fi
8817 \else
8818 \newpage
8819 \global\@topnum\z@ % Prevents figures from going at top of page.
8820 \maketitle
8821 \fi
8822 \thispagestyle{plain}\@thanks
8823 \endgroup
8824 \setcounter{footnote}{0}%
8825 \global\let\thanks\relax
8826 \global\let\maketitle\relax
8827 \global\let\@maketitle\relax
8828 \global\let\@thanks\@empty
8829 \global\let\@author\@empty
8830 \global\let\@date\@empty
8831 \global\let\@title\@empty
8832 \global\let\title\relax
8833 \global\let\author\relax
8834 \global\let\date\relax
8835 \global\let\and\relax
8836 }
8837 \def\maketitle{%
8838 \newpage
8839 \null
8840 \vskip 2em%
8841 \begin{center}%
8842 \let \footnote \thanks
8843 {\LARGE \@title \par}%
8844 \vskip 1.5em%
8845 {\large
8846 \lineskip .5em%
8847 \begin{tabular}[t]{c}%
8848 \@author
8849 \end{tabular}\par}%
8850 \vskip 1em%
8851 {\large \@date}%
8852 \end{center}%
8853 \par
8854 \vskip 1.5em}
8855 \fi
8856 \renewcommand\thesubsection {\thesection\@SepMark\@arabic\c@section}
8857 \renewcommand\thesubsubsection{\thesubsection \@SepMark\@arabic\c@subsubsection}
8858 \renewcommand\theparagraph {\thesubsubsection\@SepMark\@arabic\c@paragraph}
8859 \renewcommand\thesubparagraph {\theparagraph\@SepMark\@arabic\c@subparagraph}%%

```

## 53 File extbook-xetex-bidi.def

```

8860 \ProvidesFile{extbook-xetex-bidi.def}[2017/06/09 v0.4 bidi adaptations for extbook class for
8861 \if@titlepage
8862 \renewcommand\maketitle{\begin{titlepage}%

```



```

8863 \let\footnotesize\small
8864 \let\right@footnoterule\relax
8865 \let\left@footnoterule\relax
8866 \let\textwidth@footnoterule\relax
8867 \let \footnote \thanks
8868 \let \LTRfootnote \LTRthanks
8869 \let \RTLfootnote \RTLthanks
8870 \null\vfil
8871 \vskip 60\p@
8872 \begin{center}%
8873   {\LARGE \@title \par}%
8874   \vskip 3em%
8875   {\large
8876     \lineskip .75em%
8877     \begin{tabular}[t]{c}%
8878       \@author
8879     \end{tabular}\par}%
8880     \vskip 1.5em%
8881     {\large \@date \par}%      % Set date in \large size.
8882 \end{center}\par
8883 \@thanks
8884 \vfil\null
8885 \end{titlepage}%
8886 \setcounter{footnote}{0}%
8887 \global\let\thanks\relax
8888 \global\let\LTRthanks\relax
8889 \global\let\RTLthanks\relax
8890 \global\let\maketitle\relax
8891 \global\let\@thanks\@empty
8892 \global\let\@author\@empty
8893 \global\let\@date\@empty
8894 \global\let\@title\@empty
8895 \global\let\title\relax
8896 \global\let\author\relax
8897 \global\let\date\relax
8898 \global\let\and\relax
8899 }
8900 \else
8901 \renewcommand\maketitle{\par
8902   \begingroup
8903     \renewcommand\thefootnote{\@fnsymbol\c@footnote}%
8904     \def\@makefnmark{\rlap{\@textsuperscript{\normalfont\@thefnmark}}}%
8905     \long\def\@makefntext##1{\parindent 1em\noindent
8906       \hb@xt@1.8em{%
8907         \hss\@textsuperscript{\normalfont\@thefnmark}}##1}%
8908     \if@twocolumn
8909       \ifnum \col@number=\@ne
8910         \@maketitle
8911       \else
8912         \twocolumn[\@maketitle]%
8913       \fi
8914     \else
8915       \newpage
8916       \global\@topnum\z@      % Prevents figures from going at top of page.

```



```

8917     \@maketitle
8918     \fi
8919     \thispagestyle{plain}\@thanks
8920 \endgroup
8921 \setcounter{footnote}{0}%
8922 \global\let\thanks\relax
8923 \global\let\LTRthanks\relax
8924 \global\let\RTLthanks\relax
8925 \global\let\maketitle\relax
8926 \global\let\@maketitle\relax
8927 \global\let\@thanks\@empty
8928 \global\let\@author\@empty
8929 \global\let\@date\@empty
8930 \global\let\@title\@empty
8931 \global\let\title\relax
8932 \global\let\author\relax
8933 \global\let\date\relax
8934 \global\let\and\relax
8935 }
8936 \def\@maketitle{%
8937   \newpage
8938   \null
8939   \vskip 2em%
8940   \begin{center}%
8941     \let \footnote \thanks
8942     \let \LTRfootnote \LTRthanks
8943     \let \RTLfootnote \RTLthanks
8944     {\LARGE \@title \par}%
8945     \vskip 1.5em%
8946     {\large
8947       \lineskip .5em%
8948       \begin{tabular}[t]{c}%
8949         \@author
8950       \end{tabular}\par}%
8951     \vskip 1em%
8952     {\large \@date}%
8953   \end{center}%
8954   \par
8955   \vskip 1.5em}
8956 \fi
8957 \renewcommand*\l@part[2]{%
8958   \ifnum \c@tocdepth >-2\relax
8959     \addpenalty{-\@highpenalty}%
8960     \addvspace{2.25em \@plus\p}%
8961     \begingroup
8962       \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
8963       \parfillskip -\@pnumwidth
8964       {\leavevmode
8965         \large \bfseries #1\hfil \hb@xt@\@pnumwidth{\hss #2}}\par
8966       \nobreak
8967       \global\@nobreaktrue
8968       \everypar{\global\@nobreakfalse\everypar{}}%
8969     \endgroup
8970   \fi}

```



```

8971 \renewcommand\theequation
8972 {\ifnum \c@chapter>\z@ \thechapter\@SepMark\fi \@arabic\c@equation}
8973 \renewcommand \thefigure
8974 {\ifnum \c@chapter>\z@ \thechapter\@SepMark\fi \@arabic\c@figure}
8975 \renewcommand \thetable
8976 {\ifnum \c@chapter>\z@ \thechapter\@SepMark\fi \@arabic\c@table}
8977 \renewcommand \thechapter {\@arabic\c@chapter}
8978 \renewcommand \thesection {\thechapter\@SepMark\@arabic\c@section}
8979 \renewcommand \thesubsection {\thesection\@SepMark\@arabic\c@subsection}
8980 \renewcommand \thesubsubsection {\thesubsection \@SepMark\@arabic\c@subsubsection}
8981 \renewcommand \theparagraph {\thesubsubsection\@SepMark\@arabic\c@paragraph}
8982 \renewcommand \thesubparagraph {\theparagraph\@SepMark\@arabic\c@subparagraph}
8983 \def\@makechapterhead#1{%
8984 \vspace*{50\p@}%
8985 {\parindent \z@ \if@RTL\raggedleft\else\raggedright\fi \normalfont
8986 \ifnum \c@secnumdepth >\m@ne
8987 \ifmainmatter
8988 \huge\bfseries \@chapapp\space \thechapter
8989 \par\nobreak
8990 \vskip 20\p@
8991 \fi
8992 \fi
8993 \interlinepenalty\@M
8994 \Huge \bfseries #1\par\nobreak
8995 \vskip 40\p@
8996 }}
8997
8998 \def\@makeschapterhead#1{%
8999 \vspace*{50\p@}%
9000 {\parindent \z@ \if@RTL\raggedleft\else\raggedright\fi
9001 \normalfont
9002 \interlinepenalty\@M
9003 \Huge \bfseries #1\par\nobreak
9004 \vskip 40\p@
9005 }}
9006 \renewcommand\backmatter{%
9007 \if@openright
9008 \cleardoublepage
9009 \else
9010 \clearpage
9011 \fi
9012 \@mainmatterfalse}
9013 \renewenvironment{thebibliography}[1]
9014 {\chapter*{\bibname
9015 \@mkboth{\MakeUppercase\bibname}{\MakeUppercase\bibname}}%
9016 \if@RTL\if@LTRbibitems\@RTLfalse\else\fi\else\if@RTLbibitems\@RTLtrue\else\fi\fi
9017 \bidi@thebibliography@font@hook%
9018 \list{\@biblabel{\@arabic\c@enumiv}}%
9019 {\settowidth\labelwidth{\@biblabel{#1}}%
9020 \leftmargin\labelwidth
9021 \advance\leftmargin\labelsep
9022 \@openbib@code
9023 \usecounter{enumiv}}%
9024 \let\p@enumiv\@empty

```



```

9025         \renewcommand\theenumiv{\@arabic\c@enumiv}}%
9026         \sloppy
9027         \clubpenalty4000
9028         \@clubpenalty \clubpenalty
9029         \widowpenalty4000%
9030         \sfcode`.\@m}
9031     {\def\@noitemerr
9032      {\@latex@warning{Empty `thebibliography' environment}}}%
9033     \endlist}

```

## 54 File extletter-xetex-bidi.def

```

9034 \ProvidesFile{extletter-xetex-bidi.def}[2015/11/14 v0.2 bidi adaptations for extletter class]
9035 \renewcommand*{\opening}[1]{\ifx\@empty\fromaddress
9036   \thispagestyle{firstpage}%
9037   {\ifRTL\raggedright\else\raggedleft\fi\@date\par}%
9038   \else % home address
9039     \thispagestyle{empty}%
9040     {\ifRTL\raggedright\begin{tabular}{r@{}}\else\raggedleft\begin{tabular}{l@{}}\fi\ignore
9041       \fromaddress \*[2\parskip]%
9042       \@date \end{tabular}\par}%
9043   \fi
9044   \vspace{2\parskip}%
9045   {\ifRTL\raggedleft\else\raggedright\fi \toname \[2\parskip] \toaddress \par}%
9046   \vspace{2\parskip}%
9047   #1\par\nobreak}
9048 \renewcommand{\closing}[1]{\par\nobreak\vspace{\parskip}%
9049   \stopbreaks
9050   \noindent
9051   \ifx\@empty\fromaddress\else
9052     \hspace*{\longindentation}\fi
9053   \parbox{\indentedwidth}{\ifRTL\raggedleft\else\raggedright\fi
9054     \ignorespaces #1\[[6\medskipamount]}%
9055     \ifx\@empty\fromsig
9056       \fromname
9057     \else \fromsig \fi\strut}%
9058   \par}
9059 \renewcommand\left@footnoterule{%
9060   \kern-\p@
9061   \hrule \@width .4\columnwidth
9062   \kern .6\p@}
9063 \renewcommand\right@footnoterule{%
9064   \kern-\p@
9065   \hbox to \columnwidth{\hskip .6\columnwidth \hrulefill }
9066   \kern .6\p@}

```

## 55 File extrafootnotefeatures-xetex-bidi.def

```

9067 \ProvidesFile{extrafootnotefeatures-xetex-bidi.def}[2018/10/11 v1.7 bidi extra footnote feat
9068 \newif\if@bidi@void@footins
9069 \newif\if@bidi@void@mpfootins
9070 \newcommand*{\@bidi@before@Hy@hyperfootnotes}{%
9071 \if@bidi@csundef{\ifHy@hyperfootnotes}{-}{-}%
9072 \if@bidi@csundef{HLTR@LTRfootnotetext}{-}{-}%

```



```

9073 \ifHy@hyperfootnotes
9074 \let\@H@footnotetext\@footnotetext
9075 \let\@HLTR@LTRfootnotetext\@LTRfootnotetext
9076 \let\@HRTL@RTLfootnotetext\@RTLfootnotetext
9077 \let\@H@mpfootnotetext\@mpfootnotetext
9078 \let\@HLTR@mpLTRfootnotetext\@mpLTRfootnotetext
9079 \let\@HRTL@mpRTLfootnotetext\@mpRTLfootnotetext
9080 \fi
9081 }%
9082 }%
9083 }
9084 \newcommand*{\@bidi@after@Hy@hyperfootnotes}{%
9085 \if@bidi@csundef{ifHy@hyperfootnotes}{}%
9086 \if@bidi@csundef{HLTR@LTRfootnotetext}{}%
9087 \ifHy@hyperfootnotes
9088 \let\H@footnotetext\@footnotetext
9089 \let\@footnotetext\@H@footnotetext
9090 \let\HLTR@LTRfootnotetext\@LTRfootnotetext
9091 \let\@LTRfootnotetext\@HLTR@LTRfootnotetext
9092 \let\HRTL@RTLfootnotetext\@RTLfootnotetext
9093 \let\@RTLfootnotetext\@HRTL@RTLfootnotetext
9094 \let\H@mpfootnotetext\@mpfootnotetext
9095 \let\@mpfootnotetext\@H@mpfootnotetext
9096 \let\HLTR@mpLTRfootnotetext\@mpLTRfootnotetext
9097 \let\@mpLTRfootnotetext\@HLTR@mpLTRfootnotetext
9098 \let\HRTL@mpRTLfootnotetext\@mpRTLfootnotetext
9099 \let\@mpRTLfootnotetext\@HRTL@mpRTLfootnotetext
9100 \fi
9101 }%
9102 }%
9103 }
9104 \let\autofootnoterule\relax
9105 \let\rightfootnoterule\relax
9106 \let\leftfootnoterule\relax
9107 \let\textwidthfootnoterule\relax
9108 \let\LRfootnoterule\relax
9109 \def\footnoterule{\kern-3\p@
9110 \hrule \@width \columnwidth \kern 2.6\p@}
9111 \newcommand{\@preamnormalfmt}{%
9112 \parindent 1em%
9113 \noindent
9114 }
9115 \newcommand{\@normalfootfmt}[1]{%
9116 \@preamnormalfmt
9117 \footfootmark
9118 \rule{z@}{footnotesep}\ignorespaces{\foottextfont #1}%
9119 \@finalstrut\strutbox
9120 }
9121 \newcommand{\@normalRTLfootfmt}[1]{%
9122 \@preamnormalfmt
9123 \RTLfootfootmark
9124 \rule{z@}{footnotesep}\ignorespaces{\RTLfoottextfont #1}%
9125 \@finalstrut\strutbox
9126 }

```





```

9127 \newcommand{\@normalLTRfootfmt}[1]{%
9128   \@preamnormalfmt
9129   \LTRfootfootmark
9130   \rule{z@\footnotesep\ignorespaces{\LTRfoottextfont #1}}%
9131   \@finalstrut\strutbox
9132 }
9133 \renewcommand{\@footnotetext}[1]{%
9134   \insert\footins{%
9135     \if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi%
9136     \def\baselinestretch{\m@m@footnote@spacing}%
9137     \reset@font
9138     \foottextfont
9139     \@preamfntext
9140     \hsize\columnwidth
9141     \protected@edef\@currentlabel{%
9142       \csname p@footnote\endcsname\@thefnmark}%
9143     \color@begingroup
9144     \@normalfootfmt{#1}%
9145     \color@endgroup}%
9146     \m@mmf@prepare}
9147 \renewcommand{\@RTLfootnotetext}[1]{%
9148   \insert\footins{%
9149     \@RTLtrue%
9150     \def\baselinestretch{\m@m@footnote@spacing}%
9151     \reset@font
9152     \RTLfoottextfont
9153     \@preamfntext
9154     \hsize\columnwidth
9155     \protected@edef\@currentlabel{%
9156       \csname p@footnote\endcsname\@thefnmark}%
9157     \color@begingroup
9158     \@normalRTLfootfmt{#1}%
9159     \color@endgroup}%
9160     \m@mmf@prepare}
9161 \renewcommand{\@LTRfootnotetext}[1]{%
9162   \insert\footins{%
9163     \@RTLfalse%
9164     \def\baselinestretch{\m@m@footnote@spacing}%
9165     \reset@font
9166     \LTRfoottextfont
9167     \@preamfntext
9168     \hsize\columnwidth
9169     \protected@edef\@currentlabel{%
9170       \csname p@footnote\endcsname\@thefnmark}%
9171     \color@begingroup
9172     \@normalLTRfootfmt{#1}%
9173     \color@endgroup}%
9174     \m@mmf@prepare}
9175 \renewcommand{\@mpfootnotetext}[1]{%
9176   \global\setbox\@mpfootins\vbox{\if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi%
9177     \unvbox\@mpfootins
9178     \def\baselinestretch{\m@m@footnote@spacing}%
9179     \reset@font%
9180     \foottextfont \hsize\columnwidth \@parboxrestore

```



```

9181 \protected@edef\@currentlabel{%
9182 \csname p@mpfootnote\endcsname\@thefnmark}%
9183 \color@begingroup
9184 \normalfootfmt{#1}%
9185 \color@endgroup}}
9186 \renewcommand{\@mpLTRfootnotetext}[1]{%
9187 \global\setbox\@mpfootins\vbox{\@RTLfalse%
9188 \unvbox\@mpfootins
9189 \def\baselinestretch{\m@m@footnote@spacing}%
9190 \reset@font%
9191 \LTRfoottextfont \hsize\columnwidth \@parboxrestore
9192 \protected@edef\@currentlabel{%
9193 \csname p@mpfootnote\endcsname\@thefnmark}%
9194 \color@begingroup
9195 \normalLTRfootfmt{#1}%
9196 \color@endgroup}}
9197 \renewcommand{\@mpRTLfootnotetext}[1]{%
9198 \global\setbox\@mpfootins\vbox{\@RTLtrue%
9199 \unvbox\@mpfootins
9200 \def\baselinestretch{\m@m@footnote@spacing}%
9201 \reset@font%
9202 \RTLfoottextfont \hsize\columnwidth \@parboxrestore
9203 \protected@edef\@currentlabel{%
9204 \csname p@mpfootnote\endcsname\@thefnmark}%
9205 \color@begingroup
9206 \normalRTLfootfmt{#1}%
9207 \color@endgroup}}
9208 \let\m@mold@footnotetext\@footnotetext
9209 \let\m@mold@LTRfootnotetext\@LTRfootnotetext
9210 \let\m@mold@RTLfootnotetext\@RTLfootnotetext
9211 \let\m@mold@mpfootnotetext\@mpfootnotetext
9212 \let\m@mold@mpLTRfootnotetext\@mpLTRfootnotetext
9213 \let\m@mold@mpRTLfootnotetext\@mpRTLfootnotetext
9214 \bidi@ensure@newcommand{\normalfootnotes}{%
9215 \@bidi@before@Hy@hyperfootnotes
9216 \let\@footnotetext\m@mold@footnotetext
9217 \let\@LTRfootnotetext\m@mold@LTRfootnotetext
9218 \let\@RTLfootnotetext\m@mold@RTLfootnotetext
9219 \let\@mpfootnotetext\m@mold@mpfootnotetext
9220 \let\@mpLTRfootnotetext\m@mold@mpLTRfootnotetext
9221 \let\@mpRTLfootnotetext\m@mold@mpRTLfootnotetext
9222 \@bidi@after@Hy@hyperfootnotes
9223 \@ifstar\bidi@star@footmarkwidth\bidi@normal@footmarkwidth
9224 }
9225 \@ifclassloaded{memoir}{\let\plainfootnotes\normalfootnotes}{%
9226 \bidi@ensure@newcommand*\@RTLcolumnfootnotes{\@RTLcolumnfootnotesttrue}
9227 \bidi@ensure@newcommand*\@LTRcolumnfootnotes{\@RTLcolumnfootnotestfalse}
9228 \bidi@ensure@newcommand*\setSingleSpace[1]{%
9229 \def\m@m@singlespace{#1}%
9230 \def\m@m@footnote@spacing{#1}%
9231 \def\m@m@float@spacing{#1} %
9232 }
9233 \setSingleSpace{1}
9234 \bidi@ensure@newcommand*\multiplefootnotemarker{3sp}

```



```

9235 \bidi@ensure@newcommand*{\m@mmf@prepare}{%
9236 \kern-\multiplefootnotemarker
9237 \kern\multiplefootnotemarker\relax}
9238 \bidi@ensure@newlength{\footmarkwidth}
9239 \bidi@ensure@newcommand*{\footmarkstyle}[1]{\def\footscript##1{#1}}
9240 \bidi@ensure@newcommand*{\LTRfootmarkstyle}[1]{\def\LTRfootscript##1{#1}}
9241 \bidi@ensure@newcommand*{\RTLfootmarkstyle}[1]{\def\RTLfootscript##1{#1}}
9242 \bidi@ensure@newcommand{\footfootmark}{%
9243 \ifdim\footmarkwidth < \z@
9244 \llap{\hb@xt@ -\footmarkwidth{%
9245 \hss\normalfont\footscript{\@thefnmark}}}%
9246 \hspace*{-\footmarkwidth}}}%
9247 \else
9248 \ifdim\footmarkwidth = \z@
9249 {\normalfont\footscript{\@thefnmark}}%
9250 \else
9251 \hb@xt@\footmarkwidth{\hss\normalfont\footscript{\@thefnmark}}%
9252 \fi
9253 \fi}
9254 \bidi@ensure@newcommand{\LTRfootfootmark}{%
9255 \ifdim\footmarkwidth < \z@
9256 \llap{\hb@xt@ -\footmarkwidth{%
9257 \hss\normalfont\LTRfootscript{\@thefnmark}}}%
9258 \hspace*{-\footmarkwidth}}}%
9259 \else
9260 \ifdim\footmarkwidth = \z@
9261 {\normalfont\LTRfootscript{\@thefnmark}}%
9262 \else
9263 \hb@xt@\footmarkwidth{\hss\normalfont\LTRfootscript{\@thefnmark}}%
9264 \fi
9265 \fi}
9266 \bidi@ensure@newcommand{\RTLfootfootmark}{%
9267 \ifdim\footmarkwidth < \z@
9268 \llap{\hb@xt@ -\footmarkwidth{%
9269 \hss\normalfont\RTLfootscript{\@thefnmark}}}%
9270 \hspace*{-\footmarkwidth}}}%
9271 \else
9272 \ifdim\footmarkwidth = \z@
9273 {\normalfont\RTLfootscript{\@thefnmark}}%
9274 \else
9275 \hb@xt@\footmarkwidth{\hss\normalfont\RTLfootscript{\@thefnmark}}%
9276 \fi
9277 \fi}
9278 \footmarkstyle{\textsuperscript{#1}}
9279 \LTRfootmarkstyle{\textsuperscript{#1}}
9280 \RTLfootmarkstyle{\textsuperscript{#1}}
9281 \newcommand*{\bidi@normal@footmarkwidth}{%
9282 \setlength{\footmarkwidth}{1em plus.4em minus.4em}%
9283 }
9284 \newcommand*{\bidi@star@footmarkwidth}{%
9285 \setlength{\footmarkwidth}{0em plus.4em minus.4em}%
9286 }
9287 \bidi@normal@footmarkwidth
9288 \bidi@ensure@newcommand{\m@mmdoextrafeet}{\extrafeetins}

```



```

9289 \bidi@ensure@newcommand*{\extrafeetins}{%
9290   \setbox\@outputbox \vbox{%
9291     \boxmaxdepth \@maxdepth
9292     \unvbox\@outputbox
9293     \ifvoid\footinsv@r
9294       \ifvoid\footinsv@l
9295       \else
9296         \@footstartv@l
9297         \@LTRfootgroupv@l
9298       \fi
9299     \else
9300       \@footstartv@r
9301       \@footgroupv@r
9302       \ifvoid\footinsv@l
9303       \else
9304         \@footstart@v@l
9305         \@LTRfootgroupv@l
9306       \fi
9307     \fi
9308     \ifvoid\@bidi@copyins@
9309     \else
9310       \vskip \skip\@bidi@copyins@
9311       \color@begingroup
9312       \normalcolor
9313       \unvbox \@bidi@copyins@
9314       \color@endgroup
9315     \fi
9316     \extrafeetinshook}}
9317 \bidi@ensure@newcommand{\extrafeetinshook}{}
9318 \bidi@ensure@newcommand{\foottextfont}{\footnotesize}
9319 \bidi@ensure@newcommand{\LTRfoottextfont}{\footnotesize}
9320 \bidi@ensure@newcommand{\RTLfoottextfont}{\footnotesize}
9321 \bidi@ensure@newlength{\footinsdim}
9322 \setlength{\footinsdim}{8in} % standard for \dimen\footins
9323 \bidi@ensure@newcommand{\@preamfntext}{%
9324   \interlinepenalty\interfootnotelinepenalty
9325   \floatingpenalty \@MM
9326   \splittopskip=\footnotesep
9327   \splitmaxdepth=\dp\strutbox
9328   \@parboxrestore}
9329 \bidi@ensure@newcommand{\m@mdoextrafeetmini}{%
9330   \extrafeetminihook}
9331 \bidi@ensure@newcommand{\extrafeetendmini}{%
9332   \ifvoid\@mpfootinsv@r
9333     \ifvoid\@mpfootinsv@l
9334     \else
9335       \vskip\skip\@mpfootins
9336       \normalcolor
9337       \if@bidi@void@mpfootins
9338         \footnoterule
9339       \fi
9340       \mp@LTRfootgroupv@l
9341     \fi
9342   \else

```



```

9343 \vskip\skip\@mpfootins
9344 \normalcolor
9345 \if@bidi@void@@mpfootins
9346 \footnoterule
9347 \fi
9348 \mp@footgroupv@r
9349 \ifvoid\@mpfootinsv@l
9350 \else
9351 \vskip\skip\@mpfootins
9352 \normalcolor\mp@LRfootgroupv@l
9353 \fi
9354 \fi
9355 \extrafeetendminihook}
9356 \bidi@ensure@newcommand{\extrafeetendminihook}{\}
9357 \bidi@ensure@newcommand{\m@doextrafeetendmini}{\extrafeetendmini}
9358 \def\endminipage{%
9359 \par
9360 \unskip
9361 \ifvoid\@mpfootins
9362 \global\@bidi@void@@mpfootinstrue
9363 \else
9364 \global\@bidi@void@@mpfootinsfalse
9365 \vskip\skip\@mpfootins
9366 \normalcolor
9367 \footnoterule
9368 \unvbox\@mpfootins
9369 \fi
9370 \m@doextrafeetendmini
9371 \@minipagefalse
9372 \color@endgroup
9373 \egroup
9374 \expandafter\@iiiparbox\@mpargs{\unvbox\@tempboxa}}
9375 \bidi@ensure@newcommand{\m@make@footstart}[1]{%
9376 \@namedef{@footstart#1}{%
9377 \bidi@mopfn@bottom
9378 \leftskip=\z@
9379 \rightskip=\z@
9380 \parindent=\z@
9381 \vskip\skip\footins
9382 \footnoterule}}
9383 \newinsert\footinsv@r
9384 \skip\footinsv@r\bigskipamount
9385 \count\footinsv@r=1000 % no magnification
9386 \dimen\footinsv@r=\footinsdim
9387 \m@make@footstart{v@r}
9388 \newinsert\footinsv@l
9389 \skip\footinsv@l\bigskipamount
9390 \bidi@ensure@newcommand{\@footgroupv@r}{\}
9391 \newinsert\@mpfootinsv@r
9392 \newinsert\@mpfootinsv@l
9393 \bidi@ensure@newcommand{\mp@footgroupv@r}{\}
9394 \newcount\m@m@k \newdimen\m@m@h
9395 \@ifpackageloaded{multicol}{%
9396 \bidi@ensure@newcommand*\{\m@mrigidbalance}[3]{\setbox0=\box#1 \m@m@k=#2 \m@m@h=#3

```



```

9397 \hsize\textwidth
9398 \@@line{\if@RTLcolumnfootnotes\beginR\fi\splittopskip=\m@m@h \vbadness=\@M \hfilneg
9399 \valign{##\vfill\cr\m@mdosplits}\if@RTLcolumnfootnotes\endR\fi}}
9400 }{%
9401 \bidi@ensure@newcommand*\m@m@rigidbalance}[3]{\setbox0=\box#1 \m@m@k=#2 \m@m@h=#3
9402 \@@line{\if@RTLcolumnfootnotes\beginR\fi\splittopskip=\m@m@h \vbadness=\@M \hfilneg
9403 \valign{##\vfill\cr\m@mdosplits}\if@RTLcolumnfootnotes\endR\fi}}
9404 \bidi@ensure@newcommand*\m@m@dosplits{\ifnum\m@m@k>0 \noalign{\hfil}\m@m@splitoff
9405 \global\advance\m@m@k-1\cr\m@mdosplits\fi}
9406 \bidi@ensure@newcommand*\m@m@splitoff{\dimen0=\ht0
9407 \divide\dimen0 by\m@m@k \advance\dimen0 by\m@m@h
9408 \setbox2 \vsplit0 to \dimen0
9409 \unvbox2 }
9410 \bidi@ensure@newcommand{\twocolumnfootnotes}{%
9411 \namedef{foottextfontv@r}{\foottextfont}% % [RS]
9412 \@bidi@before@Hy@hyperfootnotes
9413 \let\@footnotetext\@twocolfootnotetext
9414 \let\@LTRfootnotetext\@twocolLTRfootnotetext
9415 \let\@RTLfootnotetext\@twocolRTLfootnotetext
9416 \dimen\footinsv@r=2\footinsdim
9417 \count\footinsv@r=500\relax
9418 \m@make@twocol@footgroup{v@r}%
9419 \let\@footgroupv@r\@twocol@footgroupv@r
9420 \let\@mpfootnotetext\@mptwocolfootnotetext
9421 \let\@mpLTRfootnotetext\@mptwocolLTRfootnotetext
9422 \let\@mpRTLfootnotetext\@mptwocolRTLfootnotetext
9423 \@bidi@after@Hy@hyperfootnotes
9424 \m@make@mptwocol@footgroup{v@r}%
9425 \let\mp@footgroupv@r\@mptwocol@footgroupv@r
9426 \@ifstar\bidi@star@footmarkwidth\bidi@normal@footmarkwidth
9427 }
9428 \bidi@ensure@newcommand{\@twocolfootnotetext}[1]{\insert\footinsv@r{\if@RTL@footnote\@RTLtrue%
9429 \def\baselinestretch{\m@m@footnote@spacing}%
9430 \reset@font\foottextfont
9431 \@preamfntext
9432 \protected@edef\@currentlabel{%
9433 \csname p@footnote\endcsname\@thefnmark}%
9434 \color@begingroup
9435 \@twocolfootfmt{#1}%
9436 \color@endgroup}%
9437 \m@mmf@prepare}
9438 \bidi@ensure@newcommand{\@twocolLTRfootnotetext}[1]{\insert\footinsv@r{\if@RTLcolumnfootnote%
9439 \def\baselinestretch{\m@m@footnote@spacing}%
9440 \reset@font\LTRfoottextfont
9441 \@preamfntext
9442 \protected@edef\@currentlabel{%
9443 \csname p@footnote\endcsname\@thefnmark}%
9444 \color@begingroup
9445 \@twocolLTRfootfmt{#1}%
9446 \color@endgroup}%
9447 \m@mmf@prepare}
9448 \bidi@ensure@newcommand{\@twocolRTLfootnotetext}[1]{\insert\footinsv@r{\@RTLtrue%
9449 \def\baselinestretch{\m@m@footnote@spacing}%
9450 \reset@font\RTLfoottextfont

```



```

9451 \@preamfntext
9452 \protected@edef\@currentlabel{%
9453   \csname p@footnote\endcsname\@thefnmark}%
9454 \color@begingroup
9455   \@twocolRTLfootfmt{#1}%
9456 \color@endgroup}%
9457 \m@mmf@prepare}
9458 \bidi@ensure@newcommand{\@preamtwofmt}{%
9459   \hsize .45\hsize
9460   \parindent=\z@
9461   \tolerance=5000\relax
9462   \leavevmode}
9463 \bidi@ensure@newcommand{\@twocolfootfmt}[1]{%
9464   \@preamtwofmt
9465   {\footfootmark\strut {\foottextfont #1}\strut\par}\allowbreak}
9466 \bidi@ensure@newcommand{\@twocolLTRfootfmt}[1]{%
9467   \@preamtwofmt
9468   {\LTRfootfootmark\strut {\LTRfoottextfont #1}\strut\par}\allowbreak}
9469 \bidi@ensure@newcommand{\@twocolRTLfootfmt}[1]{%
9470   \@preamtwofmt
9471   {\RTLfootfootmark\strut {\RTLfoottextfont #1}\strut\par}\allowbreak}
9472 \bidi@ensure@newcommand{\@mptwocolfootnotetext}[1]{%
9473   \global\setbox\@mpfootinsv@r\vbox{\if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi%
9474     \unvbox\@mpfootinsv@r
9475     \def\baselinestretch{\m@m@footnote@spacing}%
9476     \reset@font\foottextfont
9477     \hsize\columnwidth \@parboxrestore
9478     \protected@edef\@currentlabel{%
9479       \csname p@mpfootnote\endcsname\@thefnmark}%
9480     \color@begingroup
9481       \@twocolfootfmt{#1}%
9482     \color@endgroup}%
9483     \m@mmf@prepare}
9484 \bidi@ensure@newcommand{\@mptwocolLTRfootnotetext}[1]{%
9485   \global\setbox\@mpfootinsv@r\vbox{\@RTLfalse%
9486     \unvbox\@mpfootinsv@r
9487     \def\baselinestretch{\m@m@footnote@spacing}%
9488     \reset@font\LTRfoottextfont
9489     \hsize\columnwidth \@parboxrestore
9490     \if@RTLcolumnfootnotes\beginL\fi
9491     \protected@edef\@currentlabel{%
9492       \csname p@mpfootnote\endcsname\@thefnmark}%
9493     \color@begingroup
9494       \@twocolLTRfootfmt{#1}%
9495     \color@endgroup}%
9496     \m@mmf@prepare}
9497 \bidi@ensure@newcommand{\@mptwocolRTLfootnotetext}[1]{%
9498   \global\setbox\@mpfootinsv@r\vbox{\@RTLtrue%
9499     \unvbox\@mpfootinsv@r
9500     \def\baselinestretch{\m@m@footnote@spacing}%
9501     \reset@font\RTLfoottextfont
9502     \hsize\columnwidth \@parboxrestore
9503     \protected@edef\@currentlabel{%
9504       \csname p@mpfootnote\endcsname\@thefnmark}%

```



```

9505 \color@begingroup
9506 \@twocolRTLfootfmt{#1}%
9507 \color@endgroup}%
9508 \m@mmf@prepare}
9509 \bidi@ensure@newcommand{\m@make@twocol@footgroup}[1]{%
9510 \@namedef{\@twocol@footgroup#1}{%
9511 \def\baselinestretch{\m@m@footnote@spacing}%
9512 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
9513 \m@mrigidbodybalance{\@nameuse{footins#1}}{\tw@}{\splittopskip}}}%
9514 \bidi@ensure@newcommand{\m@make@mptwocol@footgroup}[1]{%
9515 \@namedef{\@mptwocol@footgroup#1}{%
9516 \def\baselinestretch{\m@m@footnote@spacing}%
9517 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
9518 \m@mrigidbodybalance{\@nameuse{mpfootins#1}}{\tw@}{\splittopskip}}}%
9519 \bidi@ensure@newcommand{\threecolumnfootnotes}{%
9520 \@namedef{foottextfontv@r}{\foottextfont}% % [RS]
9521 \@bidi@before@Hy@hyperfootnotes
9522 \let\@footnotetext\@threecolfootnotetext
9523 \let\@LTRfootnotetext\@threecolLTRfootnotetext
9524 \let\@RTLfootnotetext\@threecolRTLfootnotetext
9525 \dimen\footinsv@r=3\footinsdim
9526 \count\footinsv@r=333\relax
9527 \m@make@threecol@footgroup{v@r}%
9528 \let\@footgroupv@r\@threecol@footgroupv@r
9529 \let\@mpfootnotetext\@mpthreecolfootnotetext
9530 \let\@mpLTRfootnotetext\@mpthreecolLTRfootnotetext
9531 \let\@mpRTLfootnotetext\@mpthreecolRTLfootnotetext
9532 \@bidi@after@Hy@hyperfootnotes
9533 \m@make@mpthreecol@footgroup{v@r}%
9534 \let\mp@footgroupv@r\@mpthreecol@footgroupv@r
9535 \@ifstar\bidi@star@footmarkwidth\bidi@normal@footmarkwidth
9536 }
9537 \bidi@ensure@newcommand{\@threecolfootnotetext}[1]{\insert\footinsv@r{\if@RTL@footnote\@RTL
9538 \def\baselinestretch{\m@m@footnote@spacing}%
9539 \reset@font\foottextfont
9540 \@preamfntext
9541 \protected@edef\@currentlabel{%
9542 \csname p@footnote\endcsname\@thefnmark}%
9543 \color@begingroup
9544 \@threecolfootfmt{#1}%
9545 \color@endgroup}\m@mmf@prepare}
9546 \bidi@ensure@newcommand{\@threecolLTRfootnotetext}[1]{\insert\footinsv@r{\if@RTLcolumnfootno
9547 \def\baselinestretch{\m@m@footnote@spacing}%
9548 \reset@font\LTRfoottextfont
9549 \@preamfntext
9550 \protected@edef\@currentlabel{%
9551 \csname p@footnote\endcsname\@thefnmark}%
9552 \color@begingroup
9553 \@threecolLTRfootfmt{#1}%
9554 \color@endgroup}\m@mmf@prepare}
9555 \bidi@ensure@newcommand{\@threecolRTLfootnotetext}[1]{\insert\footinsv@r{\@RTLtrue%
9556 \def\baselinestretch{\m@m@footnote@spacing}%
9557 \reset@font\RTLfoottextfont
9558 \@preamfntext

```





```

9559 \protected@edef\@currentlabel{%
9560   \csname p@footnote\endcsname\@thefnmark}%
9561 \color@begingroup
9562   \@threecolRTLfootfmt{#1}%
9563 \color@endgroup}\m@mmf@prepare}
9564 \bidi@ensure@newcommand{\@preamthreelfmt}{%
9565   \hspace{.3\hspace}
9566   \parindent=\z@
9567   \tolerance=5000\relax
9568   \leavevmode}
9569 \bidi@ensure@newcommand{\@threecolfootfmt}[1]{%
9570   \@preamthreelfmt
9571   {\footfootmark\strut {\foottextfont #1}\strut\par}\allowbreak}
9572 \bidi@ensure@newcommand{\@threecolLTRfootfmt}[1]{%
9573   \@preamthreelfmt
9574   {\LTRfootfootmark\strut {\LTRfoottextfont #1}\strut\par}\allowbreak}
9575 \bidi@ensure@newcommand{\@threecolRTLfootfmt}[1]{%
9576   \@preamthreelfmt
9577   {\RTLfootfootmark\strut {\RTLfoottextfont #1}\strut\par}\allowbreak}
9578 \bidi@ensure@newcommand{\@mpthreecolfootnotetext}[1]{%
9579   \global\setbox\@mpfootinsv@r\vbox{\if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi%
9580     \unvbox\@mpfootinsv@r
9581     \def\baselinestretch{\m@mm@footnote@spacing}%
9582     \reset@font\foottextfont
9583     \hspace\columnwidth \@parboxrestore
9584     \protected@edef\@currentlabel{%
9585       \csname p@mpfootnote\endcsname\@thefnmark}%
9586     \color@begingroup
9587       \@threecolfootfmt{#1}%
9588     \color@endgroup}\m@mmf@prepare}
9589 \bidi@ensure@newcommand{\@mpthreecolLTRfootnotetext}[1]{%
9590   \global\setbox\@mpfootinsv@r\vbox{\@RTLfalse%
9591     \unvbox\@mpfootinsv@r
9592     \def\baselinestretch{\m@mm@footnote@spacing}%
9593     \reset@font\LTRfoottextfont
9594     \hspace\columnwidth \@parboxrestore
9595     \if@RTLcolumnfootnotes\beginL\fi
9596     \protected@edef\@currentlabel{%
9597       \csname p@mpfootnote\endcsname\@thefnmark}%
9598     \color@begingroup
9599       \@threecolLTRfootfmt{#1}%
9600     \color@endgroup}\m@mmf@prepare}
9601 \bidi@ensure@newcommand{\@mpthreecolRTLfootnotetext}[1]{%
9602   \global\setbox\@mpfootinsv@r\vbox{\@RTLtrue%
9603     \unvbox\@mpfootinsv@r
9604     \def\baselinestretch{\m@mm@footnote@spacing}%
9605     \reset@font\RTLfoottextfont
9606     \hspace\columnwidth \@parboxrestore
9607     \protected@edef\@currentlabel{%
9608       \csname p@mpfootnote\endcsname\@thefnmark}%
9609     \color@begingroup
9610       \@threecolRTLfootfmt{#1}%
9611     \color@endgroup}\m@mmf@prepare}
9612 \bidi@ensure@newcommand{\m@make@threecol@footgroup}[1]{%

```



```

9613 \namedef{@threecol@footgroup#1}{%
9614 \def\baselinestretch{\m@m@footnote@spacing}%
9615 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
9616 \m@mrigidbalance{\@nameuse{footins#1}}{\thr@@}{\splittopskip}}}}
9617 \bidi@ensure@newcommand{\m@make@mpthreecol@footgroup}[1]{%
9618 \namedef{@mpthreecol@footgroup#1}{%
9619 \def\baselinestretch{\m@m@footnote@spacing}%
9620 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
9621 \m@mrigidbalance{\@nameuse{mpfootins#1}}{\thr@@}{\splittopskip}}}}
9622 \bidi@ensure@newcommand{\fourcolumnfootnotes}{%
9623 \namedef{foottextfontv@r}{\foottextfont}% % [RS]
9624 \@bidi@before@Hy@hyperfootnotes
9625 \let\@footnotetext\@fourcolfootnotetext
9626 \let\@LTRfootnotetext\@fourcolLTRfootnotetext
9627 \let\@RTLfootnotetext\@fourcolRTLfootnotetext
9628 \dimen\footinsv@r=4\footinsdim
9629 \count\footinsv@r=250\relax
9630 \m@make@fourcol@footgroup{v@r}%
9631 \let\@footgroupv@r\@fourcol@footgroupv@r
9632 \let\@mpfootnotetext\@mpfourcolfootnotetext
9633 \let\@mpLTRfootnotetext\@mpfourcolLTRfootnotetext
9634 \let\@mpRTLfootnotetext\@mpfourcolRTLfootnotetext
9635 \@bidi@after@Hy@hyperfootnotes
9636 \m@make@mpfourcol@footgroup{v@r}%
9637 \let\mp@footgroupv@r\@mpfourcol@footgroupv@r
9638 \@ifstar\bidi@star@footmarkwidth\bidi@normal@footmarkwidth
9639 }
9640 \bidi@ensure@newcommand{\@fourcolfootnotetext}[1]{\insert\footinsv@r{\if@RTL@footnote\@RTLtr
9641 \def\baselinestretch{\m@m@footnote@spacing}%
9642 \reset@font\foottextfont
9643 \@preamfntext
9644 \protected@edef\@currentlabel{%
9645 \csname p@footnote\endcsname\@thefnmark}%
9646 \color@begingroup
9647 \@fourcolfootfmt{#1}%
9648 \color@endgroup}%
9649 \m@mmf@prepare}
9650 \bidi@ensure@newcommand{\@fourcolLTRfootnotetext}[1]{\insert\footinsv@r{\if@RTLcolumnfootnot
9651 \def\baselinestretch{\m@m@footnote@spacing}%
9652 \reset@font\LTRfoottextfont
9653 \@preamfntext
9654 \protected@edef\@currentlabel{%
9655 \csname p@footnote\endcsname\@thefnmark}%
9656 \color@begingroup
9657 \@fourcolLTRfootfmt{#1}%
9658 \color@endgroup}%
9659 \m@mmf@prepare}
9660 \bidi@ensure@newcommand{\@fourcolRTLfootnotetext}[1]{\insert\footinsv@r{\@RTLtrue%
9661 \def\baselinestretch{\m@m@footnote@spacing}%
9662 \reset@font\RTLfoottextfont
9663 \@preamfntext
9664 \protected@edef\@currentlabel{%
9665 \csname p@footnote\endcsname\@thefnmark}%
9666 \color@begingroup

```



```

9667 \fourcolRTLfootfmt{#1}%
9668 \color@endgroup}%
9669 \m@mmf@prepare}
9670 \bidi@ensure@newcommand{\@preamfourfmt}{%
9671 \hsize .25\hsize
9672 \parindent=\z@
9673 \tolerance=5000\relax
9674 \leavevmode}
9675 \bidi@ensure@newcommand{\@fourcolfootfmt}[1]{%
9676 \@preamfourfmt
9677 {\footfootmark\strut {\foottextfont #1}\strut\par}\allowbreak}
9678 \bidi@ensure@newcommand{\@fourcolLTRfootfmt}[1]{%
9679 \@preamfourfmt
9680 {\LTRfootfootmark\strut {\LTRfoottextfont #1}\strut\par}\allowbreak}
9681 \bidi@ensure@newcommand{\@fourcolRTLfootfmt}[1]{%
9682 \@preamfourfmt
9683 {\RTLfootfootmark\strut {\RTLfoottextfont #1}\strut\par}\allowbreak}
9684 \bidi@ensure@newcommand{\@mpfourcolfootnotetext}[1]{%
9685 \global\setbox\@mpfootinsv@r\vbox{\if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi%
9686 \unvbox\@mpfootinsv@r
9687 \def\baselinestretch{\m@m@footnote@spacing}%
9688 \reset@font\foottextfont
9689 \hsize\columnwidth \@parboxrestore
9690 \protected@edef\@currentlabel{%
9691 \csname p@mpfootnote\endcsname\@thefnmark}%
9692 \color@begingroup
9693 \fourcolfootfmt{#1}%
9694 \color@endgroup}%
9695 \m@mmf@prepare}
9696 \bidi@ensure@newcommand{\@mpfourcolLTRfootnotetext}[1]{%
9697 \global\setbox\@mpfootinsv@r\vbox{\@RTLfalse%
9698 \unvbox\@mpfootinsv@r
9699 \def\baselinestretch{\m@m@footnote@spacing}%
9700 \reset@font\LTRfoottextfont
9701 \hsize\columnwidth \@parboxrestore
9702 \if@RTLcolumnfootnotes\beginL\fi
9703 \protected@edef\@currentlabel{%
9704 \csname p@mpfootnote\endcsname\@thefnmark}%
9705 \color@begingroup
9706 \fourcolLTRfootfmt{#1}%
9707 \color@endgroup}%
9708 \m@mmf@prepare}
9709 \bidi@ensure@newcommand{\@mpfourcolRTLfootnotetext}[1]{%
9710 \global\setbox\@mpfootinsv@r\vbox{\@RTLtrue%
9711 \unvbox\@mpfootinsv@r
9712 \def\baselinestretch{\m@m@footnote@spacing}%
9713 \reset@font\RTLfoottextfont
9714 \hsize\columnwidth \@parboxrestore
9715 \protected@edef\@currentlabel{%
9716 \csname p@mpfootnote\endcsname\@thefnmark}%
9717 \color@begingroup
9718 \fourcolRTLfootfmt{#1}%
9719 \color@endgroup}%
9720 \m@mmf@prepare}

```



```

9721 \bidi@ensure@newcommand{\m@make@fourcol@footgroup}[1]{%
9722   \@namedef{fourcol@footgroup#1}{%
9723     \def\baselinestretch{\m@m@footnote@spacing}%
9724     \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
9725     \m@mrigidbalance{\@nameuse{footins#1}}{4}{\splittopskip}}}%
9726 \bidi@ensure@newcommand{\m@make@mpfourcol@footgroup}[1]{%
9727   \@namedef{mpfourcol@footgroup#1}{%
9728     \def\baselinestretch{\m@m@footnote@spacing}%
9729     \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
9730     \m@mrigidbalance{\@nameuse{mpfootins#1}}{4}{\splittopskip}}}%
9731 \bidi@ensure@newcommand{\fivecolumnfootnotes}{%
9732   \@namedef{foottextfontv@r}{\foottextfont}% % [RS]
9733   \@bidi@before@Hy@hyperfootnotes
9734   \let\@footnotetext\@fivecolfootnotetext
9735   \let\@LTRfootnotetext\@fivecolLTRfootnotetext
9736   \let\@RTLfootnotetext\@fivecolRTLfootnotetext
9737   \dimen\footinsv@r=5\footinsdim
9738   \count\footinsv@r=200\relax
9739   \m@make@fivecol@footgroup{v@r}%
9740   \let\@footgroupv@r\@fivecol@footgroupv@r
9741   \let\@mpfootnotetext\@mpfivecolfootnotetext
9742   \let\@mpLTRfootnotetext\@mpfivecolLTRfootnotetext
9743   \let\@mpRTLfootnotetext\@mpfivecolRTLfootnotetext
9744   \@bidi@after@Hy@hyperfootnotes
9745   \m@make@mpfivecol@footgroup{v@r}%
9746   \let\mp@footgroupv@r\@mpfivecol@footgroupv@r
9747   \ifstar\bidi@star@footmarkwidth\bidi@normal@footmarkwidth
9748 }
9749 \bidi@ensure@newcommand{\@fivecolfootnotetext}[1]{\insert\footinsv@r{\if@RTL@footnote\@RTLtr
9750   \def\baselinestretch{\m@m@footnote@spacing}%
9751   \reset@font\foottextfont
9752   \@preamfntext
9753   \protected@edef\@currentlabel{%
9754     \csname p@footnote\endcsname\@thefnmark}%
9755   \color@begingroup
9756     \@fivecolfootfmt{#1}%
9757   \color@endgroup}%
9758   \m@mmf@prepare}
9759 \bidi@ensure@newcommand{\@fivecolLTRfootnotetext}[1]{\insert\footinsv@r{\if@RTLcolumnfootnot
9760   \def\baselinestretch{\m@m@footnote@spacing}%
9761   \reset@font\LTRfoottextfont
9762   \@preamfntext
9763   \protected@edef\@currentlabel{%
9764     \csname p@footnote\endcsname\@thefnmark}%
9765   \color@begingroup
9766     \@fivecolLTRfootfmt{#1}%
9767   \color@endgroup}%
9768   \m@mmf@prepare}
9769 \bidi@ensure@newcommand{\@fivecolRTLfootnotetext}[1]{\insert\footinsv@r{\@RTLtrue%
9770   \def\baselinestretch{\m@m@footnote@spacing}%
9771   \reset@font\RTLfoottextfont
9772   \@preamfntext
9773   \protected@edef\@currentlabel{%
9774     \csname p@footnote\endcsname\@thefnmark}%

```



```

9775 \color@begingroup
9776 \@fivecolRTLfootfmt{#1}%
9777 \color@endgroup}%
9778 \m@mmf@prepare}
9779 \bidi@ensure@newcommand{\@preamfivefmt}{%
9780 \hspace .2\hspace
9781 \parindent=\z@
9782 \tolerance=5000\relax
9783 \leavevmode}
9784 \bidi@ensure@newcommand{\@fivecolfootfmt}[1]{%
9785 \@preamfivefmt
9786 {\footfootmark\strut {\foottextfont #1}\strut\par}\allowbreak}
9787 \bidi@ensure@newcommand{\@fivecolLTRfootfmt}[1]{%
9788 \@preamfivefmt
9789 {\LTRfootfootmark\strut {\LTRfoottextfont #1}\strut\par}\allowbreak}
9790 \bidi@ensure@newcommand{\@fivecolRTLfootfmt}[1]{%
9791 \@preamfivefmt
9792 {\RTLfootfootmark\strut {\RTLfoottextfont #1}\strut\par}\allowbreak}
9793 \bidi@ensure@newcommand{\@mpfivecolfootnotetext}[1]{%
9794 \global\setbox\@mpfootinsv@r\vbox{\if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi%
9795 \unvbox\@mpfootinsv@r
9796 \def\baselinestretch{\m@m@footnote@spacing}%
9797 \reset@font\foottextfont
9798 \hspace\columnwidth \@parboxrestore
9799 \protected@edef\@currentlabel{%
9800 \csname p@mpfootnote\endcsname\@thefnmark}%
9801 \color@begingroup
9802 \@fivecolfootfmt{#1}%
9803 \color@endgroup}%
9804 \m@mmf@prepare}
9805 \bidi@ensure@newcommand{\@mpfivecolLTRfootnotetext}[1]{%
9806 \global\setbox\@mpfootinsv@r\vbox{\@RTLfalse%
9807 \unvbox\@mpfootinsv@r
9808 \def\baselinestretch{\m@m@footnote@spacing}%
9809 \reset@font\LTRfoottextfont
9810 \hspace\columnwidth \@parboxrestore
9811 \if@RTLcolumnfootnotes\beginL\fi
9812 \protected@edef\@currentlabel{%
9813 \csname p@mpfootnote\endcsname\@thefnmark}%
9814 \color@begingroup
9815 \@fivecolLTRfootfmt{#1}%
9816 \color@endgroup}%
9817 \m@mmf@prepare}
9818 \bidi@ensure@newcommand{\@mpfivecolRTLfootnotetext}[1]{%
9819 \global\setbox\@mpfootinsv@r\vbox{\@RTLtrue%
9820 \unvbox\@mpfootinsv@r
9821 \def\baselinestretch{\m@m@footnote@spacing}%
9822 \reset@font\RTLfoottextfont
9823 \hspace\columnwidth \@parboxrestore
9824 \protected@edef\@currentlabel{%
9825 \csname p@mpfootnote\endcsname\@thefnmark}%
9826 \color@begingroup
9827 \@fivecolRTLfootfmt{#1}%
9828 \color@endgroup}%

```



```

9829 \m@mmf@prepare}
9830 \bidi@ensure@newcommand{\m@make@fivecol@footgroup}[1]{%
9831 \@namedef{@fivecol@footgroup#1}{%
9832 \def\baselinestretch{\m@m@footnote@spacing}%
9833 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
9834 \m@mrigidbalance{\@nameuse{footins#1}}{5}{\splittopskip}}}}
9835 \bidi@ensure@newcommand{\m@make@mpfivecol@footgroup}[1]{%
9836 \@namedef{@mpfivecol@footgroup#1}{%
9837 \def\baselinestretch{\m@m@footnote@spacing}%
9838 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
9839 \m@mrigidbalance{\@nameuse{@mpfootins#1}}{5}{\splittopskip}}}}
9840 \bidi@ensure@newcommand{\sixcolumnfootnotes}{%
9841 \@namedef{foottextfontv@r}{\foottextfont}% % [RS]
9842 \@bidi@before@Hy@hyperfootnotes
9843 \let\@footnotetext\@sixcolfootnotetext
9844 \let\@LTRfootnotetext\@sixcolLTRfootnotetext
9845 \let\@RTLfootnotetext\@sixcolRTLfootnotetext
9846 \dimen\footinsv@r=6\footinsdim
9847 \count\footinsv@r=166\relax
9848 \m@make@sixcol@footgroup{v@r}%
9849 \let\@footgroupv@r\@sixcol@footgroupv@r
9850 \let\@mpfootnotetext\@mpsixcolfootnotetext
9851 \let\@mpLTRfootnotetext\@mpsixcolLTRfootnotetext
9852 \let\@mpRTLfootnotetext\@mpsixcolRTLfootnotetext
9853 \@bidi@after@Hy@hyperfootnotes
9854 \m@make@mpsixcol@footgroup{v@r}%
9855 \let\mp@footgroupv@r\@mpsixcol@footgroupv@r
9856 \@ifstar\bidi@star@footmarkwidth\bidi@normal@footmarkwidth
9857 }
9858 \bidi@ensure@newcommand{\@sixcolfootnotetext}[1]{\insert\footinsv@r{\if@RTL@footnote\@RTLtrue
9859 \def\baselinestretch{\m@m@footnote@spacing}%
9860 \reset@font\foottextfont
9861 \@preamfntext
9862 \protected@edef\@currentlabel{%
9863 \csname p@footnote\endcsname\@thefnmark}%
9864 \color@begingroup
9865 \@sixcolfootfmt{#1}%
9866 \color@endgroup}%
9867 \m@mmf@prepare}
9868 \bidi@ensure@newcommand{\@sixcolLTRfootnotetext}[1]{\insert\footinsv@r{\if@RTLcolumnfootnote
9869 \def\baselinestretch{\m@m@footnote@spacing}%
9870 \reset@font\LTRfoottextfont
9871 \@preamfntext
9872 \protected@edef\@currentlabel{%
9873 \csname p@footnote\endcsname\@thefnmark}%
9874 \color@begingroup
9875 \@sixcolLTRfootfmt{#1}%
9876 \color@endgroup}%
9877 \m@mmf@prepare}
9878 \bidi@ensure@newcommand{\@sixcolRTLfootnotetext}[1]{\insert\footinsv@r{\@RTLtrue%
9879 \def\baselinestretch{\m@m@footnote@spacing}%
9880 \reset@font\RTLfoottextfont
9881 \@preamfntext
9882 \protected@edef\@currentlabel{%

```



```

9883 \csname p@footnote\endcsname\@thefnmark}%
9884 \color@begingroup
9885 \@sixcolRTLfootfmt{#1}%
9886 \color@endgroup}%
9887 \m@mmf@prepare}
9888 \bidi@ensure@newcommand{\@preamsixfmt}{%
9889 \hsize .16\hsize
9890 \parindent=\z@
9891 \tolerance=5000\relax
9892 \leavevmode}
9893 \bidi@ensure@newcommand{\@sixcolfootfmt}[1]{%
9894 \@preamsixfmt
9895 {\footfootmark\strut {\foottextfont #1}\strut\par}\allowbreak}
9896 \bidi@ensure@newcommand{\@sixcollTRfootfmt}[1]{%
9897 \@preamsixfmt
9898 {\LTRfootfootmark\strut {\LTRfoottextfont #1}\strut\par}\allowbreak}
9899 \bidi@ensure@newcommand{\@sixcolRTLfootfmt}[1]{%
9900 \@preamsixfmt
9901 {\RTLfootfootmark\strut {\RTLfoottextfont #1}\strut\par}\allowbreak}
9902 \bidi@ensure@newcommand{\@mpsixcolfootnotetext}[1]{\if@RTL@footnote\@RTLtrue\else\@RTLfalse}
9903 \global\setbox\@mpfootinsv@r\vbox{%
9904 \unvbox\@mpfootinsv@r
9905 \def\baselinestretch{\m@m@footnote@spacing}%
9906 \reset@font\foottextfont
9907 \hsize\columnwidth \@parboxrestore
9908 \protected@edef\@currentlabel{%
9909 \csname p@mpfootnote\endcsname\@thefnmark}%
9910 \color@begingroup
9911 \@sixcolfootfmt{#1}%
9912 \color@endgroup}%
9913 \m@mmf@prepare}
9914 \bidi@ensure@newcommand{\@mpsixcollTRfootnotetext}[1]{\@RTLfalse}
9915 \global\setbox\@mpfootinsv@r\vbox{%
9916 \unvbox\@mpfootinsv@r
9917 \def\baselinestretch{\m@m@footnote@spacing}%
9918 \reset@font\LTRfoottextfont
9919 \hsize\columnwidth \@parboxrestore
9920 \if@RTLcolumnfootnotes\beginL\fi
9921 \protected@edef\@currentlabel{%
9922 \csname p@mpfootnote\endcsname\@thefnmark}%
9923 \color@begingroup
9924 \@sixcollTRfootfmt{#1}%
9925 \color@endgroup}%
9926 \m@mmf@prepare}
9927 \bidi@ensure@newcommand{\@mpsixcolRTLfootnotetext}[1]{\@RTLtrue}
9928 \global\setbox\@mpfootinsv@r\vbox{%
9929 \unvbox\@mpfootinsv@r
9930 \def\baselinestretch{\m@m@footnote@spacing}%
9931 \reset@font\RTLfoottextfont
9932 \hsize\columnwidth \@parboxrestore
9933 \protected@edef\@currentlabel{%
9934 \csname p@mpfootnote\endcsname\@thefnmark}%
9935 \color@begingroup
9936 \@sixcolRTLfootfmt{#1}%

```





```

9937 \color@endgroup}%
9938 \m@mmf@prepare}
9939 \bidi@ensure@newcommand{\m@make@sixcol@footgroup}[1]{%
9940 \@namedef{@sixcol@footgroup#1}{%
9941 \def\baselinestretch{\m@footnote@spacing}%
9942 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
9943 \m@mrigidbalance{\@nameuse{footins#1}}{6}{\splittopskip}}}%
9944 \bidi@ensure@newcommand{\m@make@mpsixcol@footgroup}[1]{%
9945 \@namedef{@mpsixcol@footgroup#1}{%
9946 \def\baselinestretch{\m@footnote@spacing}%
9947 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
9948 \m@mrigidbalance{\@nameuse{mpfootins#1}}{6}{\splittopskip}}}%
9949 \bidi@ensure@newcommand{\sevendcolumnfootnotes}{%
9950 \@namedef{foottextfontv@r}{\foottextfont}% % [RS]
9951 \@bidi@before@Hy@hyperfootnotes
9952 \let\@footnotetext\@sevendcolfootnotetext
9953 \let\@LTRfootnotetext\@sevendcolLTRfootnotetext
9954 \let\@RTLfootnotetext\@sevendcolRTLfootnotetext
9955 \dimen\footinsv@r=7\footinsdim
9956 \count\footinsv@r=142\relax
9957 \m@make@sevendcol@footgroup{v@r}%
9958 \let\@footgroupv@r\@sevendcol@footgroupv@r
9959 \let\@mpfootnotetext\@mpsevendcolfootnotetext
9960 \let\@mpLTRfootnotetext\@mpsevendcolLTRfootnotetext
9961 \let\@mpRTLfootnotetext\@mpsevendcolRTLfootnotetext
9962 \@bidi@after@Hy@hyperfootnotes
9963 \m@make@mpsevendcol@footgroup{v@r}%
9964 \let\mp@footgroupv@r\@mpsevendcol@footgroupv@r
9965 \ifstar\bidi@star@footmarkwidth\bidi@normal@footmarkwidth
9966 }
9967 \bidi@ensure@newcommand{\@sevendcolfootnotetext}[1]{\insert\footinsv@r{\if@RTL@footnote\@RTL
9968 \def\baselinestretch{\m@footnote@spacing}%
9969 \reset@font\foottextfont
9970 \@preamfntext
9971 \protected@edef\@currentlabel{%
9972 \csname p@footnote\endcsname\@thefnmark}%
9973 \color@begingroup
9974 \@sevendcolfootfmt{#1}%
9975 \color@endgroup}%
9976 \m@mmf@prepare}
9977 \bidi@ensure@newcommand{\@sevendcolLTRfootnotetext}[1]{\insert\footinsv@r{\if@RTLcolumnfootnot
9978 \def\baselinestretch{\m@footnote@spacing}%
9979 \reset@font\LTRfoottextfont
9980 \@preamfntext
9981 \protected@edef\@currentlabel{%
9982 \csname p@footnote\endcsname\@thefnmark}%
9983 \color@begingroup
9984 \@sevendcolLTRfootfmt{#1}%
9985 \color@endgroup}%
9986 \m@mmf@prepare}
9987 \bidi@ensure@newcommand{\@sevendcolRTLfootnotetext}[1]{\insert\footinsv@r{\@RTLtrue%
9988 \def\baselinestretch{\m@footnote@spacing}%
9989 \reset@font\RTLfoottextfont
9990 \@preamfntext

```





```

9991 \protected@edef\@currentlabel{%
9992 \csname p@footnote\endcsname\@thefnmark}%
9993 \color@begingroup
9994 \@sevenscolRTLfootfmt{#1}%
9995 \color@endgroup}%
9996 \m@mmf@prepare}
9997 \bidi@ensure@newcommand{\@preamsevenfmt}{%
9998 \hspace{.142\hspace}
9999 \parindent=\z@
10000 \tolerance=5000\relax
10001 \leavevmode}
10002 \bidi@ensure@newcommand{\@sevenscolfootfmt}[1]{%
10003 \@preamsevenfmt
10004 {\foottextfont\strut{\foottextfont #1}\strut\par}\allowbreak}
10005 \bidi@ensure@newcommand{\@sevenscolLTRfootfmt}[1]{%
10006 \@preamsevenfmt
10007 {\LTRfoottextfont\strut{\LTRfoottextfont #1}\strut\par}\allowbreak}
10008 \bidi@ensure@newcommand{\@sevenscolRTLfootfmt}[1]{%
10009 \@preamsevenfmt
10010 {\RTLfoottextfont\strut{\RTLfoottextfont #1}\strut\par}\allowbreak}
10011 \bidi@ensure@newcommand{\@mpsevenscolfootnotetext}[1]{\if@RTL@footnote\@RTLtrue\else\@RTLfalse%
10012 \global\setbox\@mpfootins\@r\@vbox{%
10013 \unvbox\@mpfootins\@r
10014 \def\baselinestretch{\m@mm@footnote@spacing}%
10015 \reset@font\foottextfont
10016 \hspace\columnwidth \@parboxrestore
10017 \protected@edef\@currentlabel{%
10018 \csname p@mpfootnote\endcsname\@thefnmark}%
10019 \color@begingroup
10020 \@sevenscolfootfmt{#1}%
10021 \color@endgroup}%
10022 \m@mmf@prepare}
10023 \bidi@ensure@newcommand{\@mpsevenscolLTRfootnotetext}[1]{\@RTLfalse%
10024 \global\setbox\@mpfootins\@r\@vbox{%
10025 \unvbox\@mpfootins\@r
10026 \def\baselinestretch{\m@mm@footnote@spacing}%
10027 \reset@font\LTRfoottextfont
10028 \hspace\columnwidth \@parboxrestore
10029 \if@RTLcolumnfootnotes\begin\fi
10030 \protected@edef\@currentlabel{%
10031 \csname p@mpfootnote\endcsname\@thefnmark}%
10032 \color@begingroup
10033 \@sevenscolLTRfootfmt{#1}%
10034 \color@endgroup}%
10035 \m@mmf@prepare}
10036 \bidi@ensure@newcommand{\@mpsevenscolRTLfootnotetext}[1]{\@RTLtrue%
10037 \global\setbox\@mpfootins\@r\@vbox{%
10038 \unvbox\@mpfootins\@r
10039 \def\baselinestretch{\m@mm@footnote@spacing}%
10040 \reset@font\RTLfoottextfont
10041 \hspace\columnwidth \@parboxrestore
10042 \protected@edef\@currentlabel{%
10043 \csname p@mpfootnote\endcsname\@thefnmark}%
10044 \color@begingroup

```



```

10045 \sevenscolRTLfootfmt{#1}%
10046 \color@endgroup}%
10047 \m@mmf@prepare}
10048 \bidi@ensure@newcommand{\m@make@sevenscol@footgroup}[1]{%
10049 \namedef{@sevenscol@footgroup#1}{%
10050 \def\baselinestretch{\m@footnote@spacing}%
10051 \nameuse{foottextfont#1} \splittopskip=\ht\strutbox
10052 \m@rigidbalance{\nameuse{footins#1}}{7}{\splittopskip}}}}
10053 \bidi@ensure@newcommand{\m@make@mpsevenscol@footgroup}[1]{%
10054 \namedef{@mpsevenscol@footgroup#1}{%
10055 \def\baselinestretch{\m@footnote@spacing}%
10056 \nameuse{foottextfont#1} \splittopskip=\ht\strutbox
10057 \m@rigidbalance{\nameuse{mpfootins#1}}{7}{\splittopskip}}}}
10058 \bidi@ensure@newcommand{\eightcolumnfootnotes}{%
10059 \namedef{foottextfontv@r}{\foottextfont}% % [RS]
10060 \@bidi@before@Hy@hyperfootnotes
10061 \let\@footnotetext\@eightcolfootnotetext
10062 \let\@LTRfootnotetext\@eightcolLTRfootnotetext
10063 \let\@RTLfootnotetext\@eightcolRTLfootnotetext
10064 \dimen\footinsv@r=8\footinsdim
10065 \count\footinsv@r=125\relax
10066 \m@make@eightcol@footgroup{v@r}%
10067 \let\@footgroupv@r\@eightcol@footgroupv@r
10068 \let\@mpfootnotetext\@mp@eightcolfootnotetext
10069 \let\@mpLTRfootnotetext\@mp@eightcolLTRfootnotetext
10070 \let\@mpRTLfootnotetext\@mp@eightcolRTLfootnotetext
10071 \@bidi@after@Hy@hyperfootnotes
10072 \m@make@mp@eightcol@footgroup{v@r}%
10073 \let\mp@footgroupv@r\@mp@eightcol@footgroupv@r
10074 \@ifstar\bidi@star@footmarkwidth\bidi@normal@footmarkwidth
10075 }
10076 \bidi@ensure@newcommand{\@eightcolfootnotetext}[1]{\insert\footinsv@r{\if@RTL@footnote\@RTL
10077 \def\baselinestretch{\m@footnote@spacing}%
10078 \reset@font\foottextfont
10079 \@preamfntext
10080 \protected@edef\@currentlabel{%
10081 \csname p@footnote\endcsname\@thefnmark}%
10082 \color@begingroup
10083 \@eightcolfootfmt{#1}%
10084 \color@endgroup}%
10085 \m@mmf@prepare}
10086 \bidi@ensure@newcommand{\@eightcolLTRfootnotetext}[1]{\insert\footinsv@r{\if@RTLcolumnfootno
10087 \def\baselinestretch{\m@footnote@spacing}%
10088 \reset@font\LTRfoottextfont
10089 \@preamfntext
10090 \protected@edef\@currentlabel{%
10091 \csname p@footnote\endcsname\@thefnmark}%
10092 \color@begingroup
10093 \@eightcolLTRfootfmt{#1}%
10094 \color@endgroup}%
10095 \m@mmf@prepare}
10096 \bidi@ensure@newcommand{\@eightcolRTLfootnotetext}[1]{\insert\footinsv@r{\@RTLtrue%
10097 \def\baselinestretch{\m@footnote@spacing}%
10098 \reset@font\RTLfoottextfont

```



```

10099 \@preamfntext
10100 \protected@edef\@currentlabel{%
10101   \csname p@footnote\endcsname\@thefnmark}%
10102 \color@begingroup
10103   \@eightcolRTLfootfmt{#1}%
10104 \color@endgroup}%
10105 \m@mmf@prepare}
10106 \bidi@ensure@newcommand{\@preameightfmt}{%
10107   \hspace{.125\hspace}
10108   \parindent=\z@
10109   \tolerance=5000\relax
10110   \leavevmode}
10111 \bidi@ensure@newcommand{\@eightcolfootfmt}[1]{%
10112   \@preameightfmt
10113   {\footfootmark\strut {\foottextfont #1}\strut\par}\allowbreak}
10114 \bidi@ensure@newcommand{\@eightcolLTRfootfmt}[1]{%
10115   \@preameightfmt
10116   {\LTRfootfootmark\strut {\LTRfoottextfont #1}\strut\par}\allowbreak}
10117 \bidi@ensure@newcommand{\@eightcolRTLfootfmt}[1]{%
10118   \@preameightfmt
10119   {\RTLfootfootmark\strut {\RTLfoottextfont #1}\strut\par}\allowbreak}
10120 \bidi@ensure@newcommand{\@mpeightcolfootnotetext}[1]{%
10121   \global\setbox\@mpfootins\vbox{\if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi%
10122     \unvbox\@mpfootins\v@r
10123     \def\baselinestretch{\m@m@footnote@spacing}%
10124     \reset@font\foottextfont
10125     \hspace\columnwidth \@parboxrestore
10126     \protected@edef\@currentlabel{%
10127       \csname p@mpfootnote\endcsname\@thefnmark}%
10128     \color@begingroup
10129       \@eightcolfootfmt{#1}%
10130     \color@endgroup}%
10131     \m@mmf@prepare}
10132 \bidi@ensure@newcommand{\@mpeightcolLTRfootnotetext}[1]{%
10133   \global\setbox\@mpfootins\vbox{\@RTLfalse%
10134     \unvbox\@mpfootins\v@r
10135     \def\baselinestretch{\m@m@footnote@spacing}%
10136     \reset@font\LTRfoottextfont
10137     \hspace\columnwidth \@parboxrestore
10138     \if@RTL@columnfootnotes\beginL\fi
10139     \protected@edef\@currentlabel{%
10140       \csname p@mpfootnote\endcsname\@thefnmark}%
10141     \color@begingroup
10142       \@eightcolLTRfootfmt{#1}%
10143     \color@endgroup}%
10144     \m@mmf@prepare}
10145 \bidi@ensure@newcommand{\@mpeightcolRTLfootnotetext}[1]{%
10146   \global\setbox\@mpfootins\vbox{\@RTLtrue%
10147     \unvbox\@mpfootins\v@r
10148     \def\baselinestretch{\m@m@footnote@spacing}%
10149     \reset@font\RTLfoottextfont
10150     \hspace\columnwidth \@parboxrestore
10151     \protected@edef\@currentlabel{%
10152       \csname p@mpfootnote\endcsname\@thefnmark}%

```



```

10153 \color@begingroup
10154   \@eightcolRTLfootfmt{#1}%
10155 \color@endgroup}%
10156 \m@mmf@prepare}
10157 \bidi@ensure@newcommand{\m@make@eightcol@footgroup}[1]{%
10158   \@namedef{\@eightcol@footgroup#1}{%
10159     \def\baselinestretch{\m@footnote@spacing}%
10160     \nameuse{foottextfont#1} \splittopskip=\ht\strutbox
10161     \m@rmrigidbalance{\@nameuse{footins#1}}{8}{\splittopskip}}}%
10162 \bidi@ensure@newcommand{\m@make@mpeightcol@footgroup}[1]{%
10163   \@namedef{\@mpeightcol@footgroup#1}{%
10164     \def\baselinestretch{\m@footnote@spacing}%
10165     \nameuse{foottextfont#1} \splittopskip=\ht\strutbox
10166     \m@rmrigidbalance{\@nameuse{mpfootins#1}}{8}{\splittopskip}}}%
10167 \bidi@ensure@newcommand{\@ninecolumnfootnotes}{%
10168   \@namedef{foottextfontv@r}{\foottextfont}% % [RS]
10169   \@bidi@before@Hy@hyperfootnotes
10170   \let\@footnotetext\@ninecolfootnotetext
10171   \let\@LTRfootnotetext\@ninecolLTRfootnotetext
10172   \let\@RTLfootnotetext\@ninecolRTLfootnotetext
10173   \dimen\footinsv@r=9\footinsdim
10174   \count\footinsv@r=111\relax
10175   \m@make@ninecol@footgroup{v@r}%
10176   \let\@footgroupv@r\@ninecol@footgroupv@r
10177   \let\@mpfootnotetext\@mpninecolfootnotetext
10178   \let\@mpLTRfootnotetext\@mpninecolLTRfootnotetext
10179   \let\@mpRTLfootnotetext\@mpninecolRTLfootnotetext
10180   \@bidi@after@Hy@hyperfootnotes
10181   \m@make@mpninecol@footgroup{v@r}%
10182   \let\mp@footgroupv@r\@mpninecol@footgroupv@r
10183   \@ifstar\bidi@star@footmarkwidth\bidi@normal@footmarkwidth
10184 }
10185 \bidi@ensure@newcommand{\@ninecolfootnotetext}[1]{\insert\footinsv@r{\if@RTL@footnote\@RTLtr
10186   \def\baselinestretch{\m@footnote@spacing}%
10187   \reset@font\foottextfont
10188   \@preamfntext
10189   \protected@edef\@currentlabel{%
10190     \csname p@footnote\endcsname\@thefnmark}%
10191   \color@begingroup
10192     \@ninecolfootfmt{#1}%
10193   \color@endgroup}%
10194   \m@mmf@prepare}
10195 \bidi@ensure@newcommand{\@ninecolLTRfootnotetext}[1]{\insert\footinsv@r{\if@RTLcolumnfootnot
10196   \def\baselinestretch{\m@footnote@spacing}%
10197   \reset@font\LTRfoottextfont
10198   \@preamfntext
10199   \protected@edef\@currentlabel{%
10200     \csname p@footnote\endcsname\@thefnmark}%
10201   \color@begingroup
10202     \@ninecolLTRfootfmt{#1}%
10203   \color@endgroup}%
10204   \m@mmf@prepare}
10205 \bidi@ensure@newcommand{\@ninecolRTLfootnotetext}[1]{\insert\footinsv@r{\@RTLtrue%
10206   \def\baselinestretch{\m@footnote@spacing}%

```



```

10207 \reset@font\RTLfoottextfont
10208 \@preamfntext
10209 \protected@edef\@currentlabel{%
10210     \csname p@footnote\endcsname\@thefnmark}%
10211 \color@begingroup
10212     \@ninecolRTLfootfmt{#1}%
10213 \color@endgroup}%
10214 \m@mmf@prepare}
10215 \bidi@ensure@newcommand{\@preamninefmt}{%
10216     \hspace{.1\hspace}
10217     \parindent=\z@
10218     \tolerance=5000\relax
10219     \leavevmode}
10220 \bidi@ensure@newcommand{\@ninecolfootfmt}[1]{%
10221     \@preamninefmt
10222     {\footfootmark\strut {\foottextfont #1}\strut\par}\allowbreak}
10223 \bidi@ensure@newcommand{\@ninecolLTRfootfmt}[1]{%
10224     \@preamninefmt
10225     {\LTRfootfootmark\strut {\LTRfoottextfont #1}\strut\par}\allowbreak}
10226 \bidi@ensure@newcommand{\@ninecolRTLfootfmt}[1]{%
10227     \@preamninefmt
10228     {\RTLfootfootmark\strut {\RTLfoottextfont #1}\strut\par}\allowbreak}
10229 \bidi@ensure@newcommand{\@mpninecolfootnotetext}[1]{%
10230     \global\setbox\@mpfootinsv@r\vbox{\if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi%
10231         \unvbox\@mpfootinsv@r
10232         \def\baselinestretch{\m@m@footnote@spacing}%
10233         \reset@font\foottextfont
10234         \hspace\columnwidth \@parboxrestore
10235         \protected@edef\@currentlabel{%
10236             \csname p@mpfootnote\endcsname\@thefnmark}%
10237         \color@begingroup
10238             \@ninecolfootfmt{#1}%
10239         \color@endgroup}%
10240         \m@mmf@prepare}
10241 \bidi@ensure@newcommand{\@mpninecolLTRfootnotetext}[1]{%
10242     \global\setbox\@mpfootinsv@r\vbox{\@RTLfalse%
10243         \unvbox\@mpfootinsv@r
10244         \def\baselinestretch{\m@m@footnote@spacing}%
10245         \reset@font\LTRfoottextfont
10246         \hspace\columnwidth \@parboxrestore
10247         \if@RTLcolumnfootnotes\beginL\fi
10248         \protected@edef\@currentlabel{%
10249             \csname p@mpfootnote\endcsname\@thefnmark}%
10250         \color@begingroup
10251             \@ninecolLTRfootfmt{#1}%
10252         \color@endgroup}%
10253         \m@mmf@prepare}
10254 \bidi@ensure@newcommand{\@mpninecolRTLfootnotetext}[1]{%
10255     \global\setbox\@mpfootinsv@r\vbox{\@RTLtrue%
10256         \unvbox\@mpfootinsv@r
10257         \def\baselinestretch{\m@m@footnote@spacing}%
10258         \reset@font\RTLfoottextfont
10259         \hspace\columnwidth \@parboxrestore
10260         \protected@edef\@currentlabel{%

```



```

10261 \csname p@mpfootnote\endcsname\@thefnmark}%
10262 \color@begingroup
10263 \@necolRTLfootfmt{#1}%
10264 \color@endgroup}%
10265 \m@mmf@prepare}
10266 \bidi@ensure@newcommand{\m@make@necol@footgroup}[1]{%
10267 \@namedef{\@necol@footgroup#1}{%
10268 \def\baselinestretch{\m@footnote@spacing}%
10269 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
10270 \m@rigrigidbodybalance{\@nameuse{footins#1}}{9}{\splittopskip}}}}
10271 \bidi@ensure@newcommand{\m@make@mpnecol@footgroup}[1]{%
10272 \@namedef{\@mpnecol@footgroup#1}{%
10273 \def\baselinestretch{\m@footnote@spacing}%
10274 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
10275 \m@rigrigidbodybalance{\@nameuse{mpfootins#1}}{9}{\splittopskip}}}}
10276 \bidi@ensure@newcommand{\tencolumnfootnotes}{%
10277 \@namedef{foottextfontv@r}{\foottextfont}% % [RS]
10278 \@bidi@before@Hy@hyperfootnotes
10279 \let\@footnotetext\@tencolfootnotetext
10280 \let\@LTRfootnotetext\@tencolLTRfootnotetext
10281 \let\@RTLfootnotetext\@tencolRTLfootnotetext
10282 \dimen\footinsv@r=10\footinsdim
10283 \count\footinsv@r=100\relax
10284 \m@make@tencol@footgroup{v@r}%
10285 \let\@footgroupv@r\@tencol@footgroupv@r
10286 \let\@mpfootnotetext\@mptencolfootnotetext
10287 \let\@mpLTRfootnotetext\@mptencolLTRfootnotetext
10288 \let\@mpRTLfootnotetext\@mptencolRTLfootnotetext
10289 \@bidi@after@Hy@hyperfootnotes
10290 \m@make@mptencol@footgroup{v@r}%
10291 \let\mp@footgroupv@r\@mptencol@footgroupv@r
10292 \@ifstar\bidi@star@footmarkwidth\bidi@normal@footmarkwidth
10293 }
10294 \bidi@ensure@newcommand{\@tencolfootnotetext}[1]{\insert\footinsv@r{\if@RTL@footnote\@RTLtru
10295 \def\baselinestretch{\m@footnote@spacing}%
10296 \reset@font\foottextfont
10297 \@preamfntext
10298 \protected@edef\@currentlabel{%
10299 \csname p@footnote\endcsname\@thefnmark}%
10300 \color@begingroup
10301 \@tencolfootfmt{#1}%
10302 \color@endgroup}%
10303 \m@mmf@prepare}
10304 \bidi@ensure@newcommand{\@tencolLTRfootnotetext}[1]{\insert\footinsv@r{\if@RTLcolumnfootnote
10305 \def\baselinestretch{\m@footnote@spacing}%
10306 \reset@font\LTRfoottextfont
10307 \@preamfntext
10308 \protected@edef\@currentlabel{%
10309 \csname p@footnote\endcsname\@thefnmark}%
10310 \color@begingroup
10311 \@tencolLTRfootfmt{#1}%
10312 \color@endgroup}%
10313 \m@mmf@prepare}
10314 \bidi@ensure@newcommand{\@tencolRTLfootnotetext}[1]{\insert\footinsv@r{\@RTLtrue%

```



```

10315 \def\baselinestretch{\m@m@footnote@spacing}%
10316 \reset@font\RTLfoottextfont
10317 \@preamfntext
10318 \protected@edef\@currentlabel{%
10319   \csname p@footnote\endcsname\@thefnmark}%
10320 \color@begingroup
10321   \@tencolRTLfootfmt{#1}%
10322 \color@endgroup}%
10323 \m@m@mmf@prepare}
10324 \bidi@ensure@newcommand{\@preamtenfmt}{%
10325   \hsize .1\hsize
10326   \parindent=\z@
10327   \tolerance=5000\relax
10328   \leavevmode}
10329 \bidi@ensure@newcommand{\@tencolfootfmt}[1]{%
10330   \@preamtenfmt
10331   {\footfootmark\strut {\foottextfont #1}\strut\par}\allowbreak}
10332 \bidi@ensure@newcommand{\@tencolLTRfootfmt}[1]{%
10333   \@preamtenfmt
10334   {\LTRfootfootmark\strut {\LTRfoottextfont #1}\strut\par}\allowbreak}
10335 \bidi@ensure@newcommand{\@tencolRTLfootfmt}[1]{%
10336   \@preamtenfmt
10337   {\RTLfootfootmark\strut {\RTLfoottextfont #1}\strut\par}\allowbreak}
10338 \bidi@ensure@newcommand{\@mptencolfootnotetext}[1]{%
10339   \global\setbox\@mpfootinsv@r\vbox{\if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi%
10340     \unvbox\@mpfootinsv@r
10341     \def\baselinestretch{\m@m@footnote@spacing}%
10342     \reset@font\foottextfont
10343     \hsize\columnwidth \@parboxrestore
10344     \protected@edef\@currentlabel{%
10345       \csname p@mpfootnote\endcsname\@thefnmark}%
10346     \color@begingroup
10347       \@tencolfootfmt{#1}%
10348     \color@endgroup}%
10349     \m@m@mmf@prepare}
10350 \bidi@ensure@newcommand{\@mptencolLTRfootnotetext}[1]{%
10351   \global\setbox\@mpfootinsv@r\vbox{\@RTLfalse%
10352     \unvbox\@mpfootinsv@r
10353     \def\baselinestretch{\m@m@footnote@spacing}%
10354     \reset@font\LTRfoottextfont
10355     \hsize\columnwidth \@parboxrestore
10356     \if@RTLcolumnfootnotes\beginL\fi
10357     \protected@edef\@currentlabel{%
10358       \csname p@mpfootnote\endcsname\@thefnmark}%
10359     \color@begingroup
10360       \@tencolLTRfootfmt{#1}%
10361     \color@endgroup}%
10362     \m@m@mmf@prepare}
10363 \bidi@ensure@newcommand{\@mptencolRTLfootnotetext}[1]{%
10364   \global\setbox\@mpfootinsv@r\vbox{\@RTLtrue%
10365     \unvbox\@mpfootinsv@r
10366     \def\baselinestretch{\m@m@footnote@spacing}%
10367     \reset@font\RTLfoottextfont
10368     \hsize\columnwidth \@parboxrestore

```



```

10369 \protected@edef\@currentlabel{%
10370 \csname p@mpfootnote\endcsname\@thefnmark}%
10371 \color@begingroup
10372 \tencolRTLfootfmt{#1}%
10373 \color@endgroup}%
10374 \m@mmf@prepare}
10375 \bidi@ensure@newcommand{\m@make@tencol@footgroup}[1]{%
10376 \@namedef{\tencol@footgroup#1}{%
10377 \def\baselinestretch{\m@m@footnote@spacing}%
10378 \nameuse{foottextfont#1} \splittopskip=\ht\strutbox
10379 \m@r@rigidbalance{\nameuse{footins#1}}{10}{\splittopskip}}}%
10380 \bidi@ensure@newcommand{\m@make@mptencol@footgroup}[1]{%
10381 \@namedef{\mptencol@footgroup#1}{%
10382 \def\baselinestretch{\m@m@footnote@spacing}%
10383 \nameuse{foottextfont#1} \splittopskip=\ht\strutbox
10384 \m@r@rigidbalance{\nameuse{mpfootins#1}}{10}{\splittopskip}}}%
10385 \bidi@ensure@newcommand{\m@munvxh}[1]{%
10386 \setbox0=\vbox{\unvbox#1%
10387 \global\setbox1=\lastbox}%
10388 \unhbox1
10389 \unskip
10390 \unskip
10391 \unpenalty
10392 \hskip\m@mipn@skip}
10393 \bidi@ensure@newcommand{\m@mungebox}{%
10394 \setbox0=\hbox{\m@munvxh0}%
10395 \dp0=\z@
10396 \ht0=\footfudgefactor\wd0
10397 \box0
10398 \penalty0}
10399 \newskip\m@mipn@skip
10400 \bidi@ensure@newcommand*{\m@minterparanoteglue}[1]{%
10401 {\foottextfont\global\m@mipn@skip=#1\relax}}
10402 \m@minterparanoteglue{1em plus.4em minus.4em}
10403 \@ifpackageloaded{multicol}{%
10404 \bidi@ensure@newcommand*{\m@mmakehboxofhboxes}{%
10405 \hsize\textwidth%
10406 \setbox0=\hbox{}%
10407 \loop
10408 \unpenalty
10409 \setbox2=\lastbox
10410 \ifhbox2
10411 \setbox0=\hbox{\box2\unhbox0}
10412 \repeat}%
10413 }%
10414 \bidi@ensure@newcommand*{\m@mmakehboxofhboxes}{%
10415 \setbox0=\hbox{}%
10416 \loop
10417 \unpenalty
10418 \setbox2=\lastbox
10419 \ifhbox2
10420 \setbox0=\hbox{\box2\unhbox0}
10421 \repeat}}
10422 \bidi@ensure@newcommand*{\m@mremovehboxes}{\setbox0=\lastbox

```





```

10423 \ifhbox0{\m@mremovehboxes}\unhbox0 \fi}
10424 \newcommand*\AddExtraParaSkip[1]{%
10425 \if@bidi@csdef{footfudgefactor}{%
10426 \PackageError{bidi}{%
10427 The control sequence `\'string\AddExtraParaSkip`
10428 must be used before the control sequence
10429 `\'string\paragraphfootnotes' in the preamble%
10430 }\@ehc
10431 }{%
10432 \def\bidi@xparaskip{\advance\@tempdima#1\relax}%
10433 }%
10434 }
10435 \bidi@ensure@newcommand{\paragraphfootnotes}{%
10436 \@namedef{foottextfontv@r}{\foottextfont}% % [RS]
10437 \@bidi@before@Hy@hyperfootnotes
10438 \let\@footnotetext\@parafootnotetext
10439 \let\@LTRfootnotetext\@paraLTRfootnotetext
10440 \let\@RTLfootnotetext\@paraRTLfootnotetext
10441 \dimen\footinsv@r=\footinsdim
10442 \count\footinsv@r=1000\relax
10443 \m@make@para@footgroup{v@r}%
10444 \m@make@para@footstart{v@r}%
10445 \let\@footgroupv@r\@para@footgroupv@r
10446 \let\@footstartv@r\@para@footstartv@r
10447 \dimen\footinsv@l=\footinsdim
10448 \count\footinsv@l=1000\relax
10449 \bidi@make@para@LTRfootgroup{v@l}%
10450 \m@make@para@footstart{v@l}%
10451 \bidi@make@para@footstart@{v@l}%
10452 \let\@LTRfootgroupv@l\@para@LTRfootgroupv@l
10453 \let\@footstartv@l\@para@footstartv@l
10454 \let\@footstart@v@l\@para@footstart@v@l
10455 \let\@mpfootnotetext\@mpparafootnotetext
10456 \let\@mpLTRfootnotetext\@mpparaLTRfootnotetext
10457 \let\@mpRTLfootnotetext\@mpparaRTLfootnotetext
10458 \@bidi@after@Hy@hyperfootnotes
10459 \m@make@mppara@footgroup{v@r}%
10460 \bidi@make@mppara@LTRfootgroup{v@l}%
10461 \let\mp@footgroupv@r\@mppara@footgroupv@r
10462 \let\mp@LTRfootgroupv@l\@mppara@LTRfootgroupv@l
10463 \begingroup
10464 \def\baselinestretch{\m@m@footnote@spacing}%
10465 \foottextfont
10466 \@tempdima\footnotesep
10467 \advance\@tempdima -\ht\strutbox
10468 \ifdim\@tempdima<\z@ \@tempdima\z@ \fi
10469 \advance\@tempdima.5\normalbaselineskip
10470 \bidi@xparaskip
10471 \xdef\bidi@paraskip{\the\@tempdima\relax}%
10472 \ifdim\skip\footinsv@r>\bigskipamount
10473 \else
10474 \global\advance\skip\footinsv@r\bidi@paraskip
10475 \fi
10476 \ifdim\skip\footinsv@l>\bigskipamount

```



```

10477 \else
10478 \global\advance\skip\footinsv@l\@bidi@paraskip
10479 \fi
10480 \@tempdima\normalbaselineskip
10481 \multiply \@tempdima \@cclvi
10482 \@tempdimb \columnwidth
10483 \divide \@tempdimb \@cclvi
10484 \divide \@tempdima \@tempdimb
10485 \xdef\footfudgefactor{\strip@pt\@tempdima}%
10486 \endgroup
10487 \@ifstar\@bidi@star@footmarkwidth\@bidi@normal@footmarkwidth
10488 }
10489 \newcommand{\normalRTLparaLTRfootnotes}{%
10490 \namedef{foottextfontv@r}{\foottextfont}%
10491 \@bidi@before@Hy@hyperfootnotes
10492 \if@RTL@footnote
10493 \let\@footnotetext\m@mold@footnotetext
10494 \else
10495 \let\@footnotetext\@parafootnotetext
10496 \fi
10497 \let\@LTRfootnotetext\@paraLTRfootnotetext
10498 \let\@RTLfootnotetext\m@mold@RTLfootnotetext
10499 \dimen\footinsv@r=\footinsdim
10500 \count\footinsv@r=1000\relax
10501 \m@make@para@footgroup{v@r}%
10502 \m@make@para@footstart{v@r}%
10503 \let\@footgroupv@r\@para@footgroupv@r
10504 \let\@footstartv@r\@para@footstartv@r
10505 \dimen\footinsv@l=\footinsdim
10506 \count\footinsv@l=1000\relax
10507 \bidi@make@para@LTRfootgroup{v@l}%
10508 \m@make@para@footstart{v@l}%
10509 \bidi@make@para@footstart@{v@l}%
10510 \let\@LTRfootgroupv@l\@para@LTRfootgroupv@l
10511 \let\@footstartv@l\@para@footstartv@l
10512 \let\@footstart@v@l\@para@footstart@v@l
10513 \if@RTL@footnote
10514 \let\@mpfootnotetext\m@mold@mpfootnotetext
10515 \else
10516 \let\@mpfootnotetext\@mpparafootnotetext
10517 \fi
10518 \let\@mpLTRfootnotetext\@mpparaLTRfootnotetext
10519 \let\@mpRTLfootnotetext\m@mold@mpRTLfootnotetext
10520 \@bidi@after@Hy@hyperfootnotes
10521 \m@make@mppara@footgroup{v@r}%
10522 \bidi@make@mppara@LTRfootgroup{v@l}%
10523 \let\mp@footgroupv@r\@mppara@footgroupv@r
10524 \let\mp@LTRfootgroupv@l\@mppara@LTRfootgroupv@l
10525 \begingroup
10526 \def\baselinestretch{\m@m@footnote@spacing}%
10527 \foottextfont
10528 \@tempdima\footnotesep
10529 \advance\@tempdima -\ht\strutbox
10530 \ifdim\@tempdima<\z@ \@tempdima\z@ \fi

```



```

10531 \advance\@tempdima.5\normalbaselineskip
10532 \bidi@xparaskip
10533 \xdef\bidi@paraskip{\the\@tempdima\relax}%
10534 \ifdim\skip\footinsv@r>\bigskipamount
10535 \else
10536 \global\advance\skip\footinsv@r\bidi@paraskip
10537 \fi
10538 \ifdim\skip\footinsv@l>\bigskipamount
10539 \else
10540 \global\advance\skip\footinsv@l\bidi@paraskip
10541 \fi
10542 \@tempdima\normalbaselineskip
10543 \multiply \@tempdima \cclvi
10544 \@tempdimb \columnwidth
10545 \divide \@tempdimb \cclvi
10546 \divide \@tempdima \@tempdimb
10547 \xdef\footfudgefactor{\strip@pt\@tempdima}%
10548 \endgroup
10549 \ifstar\bidi@star@footmarkwidth\bidi@normal@footmarkwidth
10550 }
10551 \let\bidi@xparaskip\relax
10552 \@onlypreamble\AddExtraParaSkip
10553 \bidi@ensure@newcommand{\@parafootnotetext}[1]{\insert
10554 \ifRTL@footnote
10555 \footinsv@r
10556 \else
10557 \footinsv@l
10558 \fi
10559 {%
10560 \let\bidi@RTL@everypar\@empty%
10561 \def\baselinestretch{\m@m@footnote@spacing}%
10562 \reset@font\foottextfont
10563 \@preamfntext
10564 \protected@edef\@currentlabel{%
10565 \csname p@footnote\endcsname\@thefnmark}%
10566 \setbox0=\vbox{\hsize=\maxdimen
10567 \color@begingroup
10568 \noindent \@parafootfmt{#1}%
10569 \color@endgroup}%
10570 \m@mungebox}\m@mmf@prepare}
10571 \bidi@ensure@newcommand{\@paraLTRfootnotetext}[1]{\insert\footinsv@l{%
10572 \let\bidi@RTL@everypar\@empty%
10573 \def\baselinestretch{\m@m@footnote@spacing}%
10574 \reset@font\LTRfoottextfont
10575 \@preamfntext
10576 \protected@edef\@currentlabel{%
10577 \csname p@footnote\endcsname\@thefnmark}%
10578 \setbox0=\vbox{\hsize=\maxdimen
10579 \color@begingroup
10580 \noindent \@paraLTRfootfmt{#1}%
10581 \color@endgroup}%
10582 \m@mungebox}\m@mmf@prepare}
10583 \bidi@ensure@newcommand{\@paraRTLfootnotetext}[1]{\insert\footinsv@r{%
10584 \let\bidi@RTL@everypar\@empty%

```



```

10585 \def\baselinestretch{\m@m@footnote@spacing}%
10586 \reset@font\RTLfoottextfont
10587 \@preamfntext
10588 \protected@edef\@currentlabel{%
10589   \csname p@footnote\endcsname\@thefnmark}%
10590 \setbox0=\vbox{\hsize=\maxdimen
10591   \color@begingroup
10592   \noindent \@paraRTLfootfmt{#1}%
10593   \color@endgroup}%
10594 \m@mungebox}\m@mmf@prepare}
10595 \bidi@ensure@newcommand{\@parafootfmt}[1]{%
10596   \parindent=\z@
10597   \parfillskip=0pt \@plus 1fil
10598   {\footfootmark\strut {\foottextfont #1}\penalty-10}}
10599 \bidi@ensure@newcommand{\@paraLTRfootfmt}[1]{%
10600   \parindent=\z@
10601   \parfillskip=0pt \@plus 1fil
10602   {\LTRfootfootmark\strut {\LTRfoottextfont #1}\penalty-10}}
10603 \bidi@ensure@newcommand{\@paraRTLfootfmt}[1]{%
10604   \parindent=\z@
10605   \parfillskip=0pt \@plus 1fil
10606   {\RTLfootfootmark\strut {\RTLfoottextfont #1}\penalty-10}}
10607 \bidi@ensure@newcommand{\@mpparafootnotetext}[1]{%
10608   \global\setbox
10609   \if@RTL@footnote
10610     \@mpfootinsv@r
10611   \else
10612     \@mpfootinsv@l
10613   \fi
10614   \vbox{%
10615     \let\bidi@RTL@everypar\@empty%
10616     \def\baselinestretch{\m@m@footnote@spacing}%
10617     \unvbox
10618     \if@RTL@footnote
10619       \@mpfootinsv@r
10620     \else
10621       \@mpfootinsv@l
10622     \fi
10623     \reset@font\foottextfont
10624     \hsize\columnwidth \@parboxrestore
10625     \protected@edef\@currentlabel{%
10626       \csname p@mpfootnote\endcsname\@thefnmark}%
10627     \setbox0=\vbox{\hsize=\maxdimen
10628       \color@begingroup
10629       \noindent \@parafootfmt{#1}%
10630       \color@endgroup}%
10631     \m@mungebox}\m@mmf@prepare}
10632 \bidi@ensure@newcommand{\@mpparaLTRfootnotetext}[1]{%
10633   \global\setbox\@mpfootinsv@l\vbox{%
10634     \let\bidi@RTL@everypar\@empty%
10635     \def\baselinestretch{\m@m@footnote@spacing}%
10636     \unvbox\@mpfootinsv@l
10637     \reset@font\LTRfoottextfont
10638     \hsize\columnwidth \@parboxrestore

```



```

10639 \protected@edef\@currentlabel{%
10640 \csname p@mpfootnote\endcsname\@thefnmark}%
10641 \setbox0=\vbox{\hsize=\maxdimen
10642 \color@begingroup
10643 \noindent \@paraLTRfootfmt{#1}%
10644 \color@endgroup}%
10645 \m@ungebox}\m@mmlf@prepare}
10646 \bidi@ensure@newcommand{\m@pparaRTLfootnotetext}[1]{%
10647 \global\setbox\@mpfootinsv\@vbox{%
10648 \let\bidi@RTL@everypar\@empty%
10649 \def\baselinestretch{\m@m@footnote@spacing}%
10650 \unvbox\@mpfootinsv}
10651 \reset@font\RTLfoottextfont
10652 \hsize\columnwidth \@parboxrestore
10653 \protected@edef\@currentlabel{%
10654 \csname p@mpfootnote\endcsname\@thefnmark}%
10655 \setbox0=\vbox{\hsize=\maxdimen
10656 \color@begingroup
10657 \noindent \@paraRTLfootfmt{#1}%
10658 \color@endgroup}%
10659 \m@ungebox}\m@mmlf@prepare}
10660 \bidi@ensure@newcommand{\m@make@para@footgroup}[1]{%
10661 \@namedef{\@para@footgroup#1}{%
10662 \unvbox\@nameuse{footins#1}
10663 \@RTLtrue
10664 \m@mmakehboxofhboxes
10665 \setbox0=\hbox{\unhbox0 \m@mremovehboxes}%
10666 \@parboxrestore%
10667 \def\baselinestretch{\m@m@footnote@spacing}%
10668 \@nameuse{foottextfont#1}%
10669 \noindent\unhbox0\par}}
10670 \bidi@ensure@newcommand{\bidi@make@para@LTRfootgroup}[1]{%
10671 \@namedef{\@para@LTRfootgroup#1}{%
10672 \unvbox\@nameuse{footins#1}
10673 \@RTLfalse
10674 \m@mmakehboxofhboxes
10675 \setbox0=\hbox{\unhbox0 \m@mremovehboxes}%
10676 \@parboxrestore%
10677 \def\baselinestretch{\m@m@footnote@spacing}%
10678 \@nameuse{foottextfont#1}%
10679 \noindent\unhbox0\par}}
10680 \bidi@ensure@newcommand{\m@make@mppara@footgroup}[1]{%
10681 \@namedef{\@mppara@footgroup#1}{%
10682 \unvbox\@nameuse{\@mpfootins#1}
10683 \@RTLtrue
10684 \m@mmakehboxofhboxes
10685 \setbox0=\hbox{\unhbox0 \m@mremovehboxes}%
10686 \def\baselinestretch{\m@m@footnote@spacing}%
10687 \@nameuse{foottextfont#1}%
10688 \noindent\unhbox0\par}}
10689 \bidi@ensure@newcommand{\bidi@make@mppara@LTRfootgroup}[1]{%
10690 \@namedef{\@mppara@LTRfootgroup#1}{%
10691 \unvbox\@nameuse{\@mpfootins#1}
10692 \@RTLfalse

```



```

10693 \m@mmakehboxofhboxes
10694 \setbox0=\hbox{\unhbox0 \m@mremovehboxes}%
10695 \def\baselinestretch{\m@m@footnote@spacing}%
10696 \@nameuse{\foottextfont#1}%
10697 \noindent\unhbox0\par}}
10698 \bidi@ensure@newcommand{\m@make@para@footstart}[1]{%
10699 \@namedef{@para@footstart#1}{%
10700 \if@bidi@void@footins
10701 \bidi@mopfn@bottom
10702 \fi
10703 \leftskip=\z@
10704 \rightskip=\z@
10705 \parindent=\z@
10706 \vskip\skip\footins
10707 \if@bidi@void@footins
10708 \footnoterule
10709 \fi}}
10710 \bidi@ensure@newcommand{\bidi@make@para@footstart@@}[1]{%
10711 \@namedef{@@para@footstart@@#1}{%
10712 \leftskip=\z@
10713 \rightskip=\z@
10714 \parindent=\z@
10715 \vskip\skip\footins}}
10716 \bidi@ensure@newcommand*{\m@m@makecolfloats}{%
10717 \xdef\@freelist{\@freelist\@midlist}%
10718 \global\let\@midlist\@empty
10719 \@combinefloats}
10720 \bidi@ensure@newcommand*{\m@m@makecoltext}{%
10721 \ifvbox\@kludgeins
10722 \@makespecialcolbox
10723 \else
10724 \setbox\@outputbox \vbox to\@colht{%
10725 \@texttop
10726 \dimen@ \dp\@outputbox
10727 \unvbox \@outputbox
10728 \vskip -\dimen@
10729 \@textbottom}%
10730 \fi}
10731 \bidi@ensure@newcommand*{\m@m@makecolintro}{%
10732 \bidi@ensure@newcommand*{\m@mopfootnote}{\setbox\@outputbox \vbox{%
10733 \boxmaxdepth\@maxdepth
10734 \@tempdima\dp\@cclv
10735 \unvbox\@cclv
10736 \vskip-\@tempdima
10737 \bidi@mopfn@bottom
10738 \vskip \skip\footins
10739 \color@begingroup
10740 \normalcolor
10741 \footnoterule
10742 \unvbox \footins
10743 \color@endgroup
10744 }%
10745 }
10746 \newcommand*{\bidi@mopfootnotebf}{%

```



```

10747 \setbox\@outputbox \vbox{%
10748 \boxmaxdepth\@maxdepth
10749 \unvbox\@outputbox
10750 \bidi@mopfn@bottom
10751 \vskip\skip\footins
10752 \color@begingroup
10753 \normalcolor
10754 \footnoterule
10755 \unvbox \footins
10756 \color@endgroup
10757 }%
10758 }
10759 \gdef\mem@makecol{%
10760 \m@m@makecolintro
10761 \ifvoid\footins
10762 \global\@bidi@void@footinstrue
10763 \setbox\@outputbox \box\@cclv
10764 \else
10765 \global\@bidi@void@footinsfalse
10766 \m@mopfootnote
10767 \fi
10768 \m@mdoextrafeet
10769 \m@m@makecolfloats
10770 \m@m@makecoltext
10771 \global \maxdepth \@maxdepth}
10772 \gdef\bidi@makecolbf{%
10773 \m@m@makecolintro
10774 \setbox\@outputbox \box\@cclv
10775 \m@m@makecolfloats
10776 \ifvoid\footins
10777 \global\@bidi@void@footinstrue
10778 \else
10779 \global\@bidi@void@footinsfalse
10780 \bidi@mopfootnotebf
10781 \fi
10782 \m@mdoextrafeet
10783 \m@m@makecoltext
10784 \global \maxdepth \@maxdepth}
10785 \newcommand{\FeetAboveFloat}{\gdef\@makecol{\mem@makecol}}
10786 \newcommand{\FeetBelowFloat}{\gdef\@makecol{\bidi@makecolbf}}
10787 \newcommand\FeetAtBottom{\def\bidi@mopfn@bottom{\vfill\relax}}
10788 \newcommand\FeetBelowRagged{\let\bidi@mopfn@bottom\relax}
10789 \FeetAboveFloat
10790 \FeetBelowRagged

```

## 56 File extreport-xetex-bidi.def

```

10791 \ProvidesFile{extreport-xetex-bidi.def}[2017/06/09 v0.3 bidi adaptations for extreport class]
10792 \renewcommand*\l@part[2]{%
10793 \ifnum \c@tocdepth >-2\relax
10794 \addpenalty{-\@highpenalty}%
10795 \addvspace{2.25em \@plus\p}%
10796 \begingroup
10797 \setlength\@tempdima{3em}%

```



```

10798     \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
10799     \parfillskip -\@pnumwidth
10800     {\leavevmode
10801     \large \bfseries #1\hfil \hb@xt@\@pnumwidth{\hss #2}}\par
10802     \nobreak
10803     \global\@nobreaktrue
10804     \everypar{\global\@nobreakfalse\everypar{}}}%
10805 \endgroup
10806 \fi}
10807 \renewcommand*\l@chapter[2]{%
10808 \ifnum \c@tocdepth >\m@ne
10809 \addpenalty{-\@highpenalty}%
10810 \vskip 1.0em \@plus\p@
10811 \setlength\@tempdima{1.5em}%
10812 \begingroup
10813 \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
10814 \parfillskip -\@pnumwidth
10815 \leavevmode \bfseries
10816 \advance\if@RTL\rightskip\else\leftskip\fi\@tempdima
10817 \hskip -\if@RTL\rightskip\else\leftskip\fi
10818 #1\nobreak\hfil \nobreak\hb@xt@\@pnumwidth{\hss #2}\par
10819 \penalty\@highpenalty
10820 \endgroup
10821 \fi}
10822 \def\@makechapterhead#1{%
10823 \vspace*{50\p@}%
10824 {\parindent \z@ \if@RTL\raggedleft\else\raggedright\fi \normalfont
10825 \ifnum \c@secnumdepth >\m@ne
10826 \huge\bfseries \@chapapp\space \thechapter
10827 \par\nobreak
10828 \vskip 20\p@
10829 \fi
10830 \interlinepenalty\@M
10831 \Huge \bfseries #1\par\nobreak
10832 \vskip 40\p@
10833 }}
10834 \def\@makeschapterhead#1{%
10835 \vspace*{50\p@}%
10836 {\parindent \z@ \if@RTL\raggedleft\else\raggedright\fi
10837 \normalfont
10838 \interlinepenalty\@M
10839 \Huge \bfseries #1\par\nobreak
10840 \vskip 40\p@
10841 }}
10842 \renewcommand\left@footnoterule{%
10843 \kern-3\p@
10844 \hrule\@width.4\columnwidth
10845 \kern2.6\p@}
10846 \renewcommand\right@footnoterule{%
10847 \kern-3\p@
10848 \hbox to \columnwidth{\hskip .6\columnwidth \hrulefill }
10849 \kern2.6\p@}
10850 \renewenvironment{thebibliography}[1]
10851 {\chapter*{\bibname

```





```

10852         \@mkboth{\MakeUppercase\bibname}{\MakeUppercase\bibname}}%
10853         \if@RTL\if@LTRbibitems\@RTLfalse\else\fi\else\if@RTLbibitems\@RTLtrue\else\fi\fi
10854         \bidi@thebibliography@font@hook%
10855         \list{\@biblabel{\@arabic\c@enumiv}}%
10856             {\settowidth\labelwidth{\@biblabel{#1}}%
10857             \leftmargin\labelwidth
10858             \advance\leftmargin\labelsep
10859             \@openbib@code
10860             \usecounter{enumiv}%
10861             \let\p@enumiv\@empty
10862             \renewcommand\theenumiv{\@arabic\c@enumiv}}%
10863         \sloppy\clubpenalty4000\widowpenalty4000%
10864         \sfcode`. \m
10865         {\def\@noitemerr
10866             {\@latex@warning{Empty `thebibliography' environment}}}%
10867         \endlist}
10868     \if@titlepage
10869     \renewcommand\maketitle{\begin{titlepage}%
10870     \let\footnotesize\small
10871     \let\right@footnoterule\relax
10872     \let\left@footnoterule\relax
10873     \let\textwidth\footnoterule\relax
10874     \let \footnote \thanks
10875     \null\vfil
10876     \vskip 60\p@
10877     \begin{center}%
10878         {\LARGE \@title \par}%
10879         \vskip 3em%
10880         {\large
10881         \lineskip .75em%
10882         \begin{tabular}[t]{c}%
10883             \@author
10884             \end{tabular}\par}%
10885         \vskip 1.5em%
10886         {\large \@date \par}%           % Set date in \large size.
10887     \end{center}\par
10888     \@thanks
10889     \vfil\null
10890     \end{titlepage}%
10891     \setcounter{footnote}{0}%
10892     \global\let\thanks\relax
10893     \global\let\maketitle\relax
10894     \global\let\@thanks\@empty
10895     \global\let\@author\@empty
10896     \global\let\@date\@empty
10897     \global\let\@title\@empty
10898     \global\let\title\relax
10899     \global\let\author\relax
10900     \global\let\date\relax
10901     \global\let\and\relax
10902 }
10903 \else
10904 \renewcommand\maketitle{\par
10905     \begingroup

```



```

10906 \renewcommand\thefootnote{\@fnsymbol\c@footnote}%
10907 \def\@makefnmark{\rlap{\@textsuperscript{\normalfont\@thefnmark}}}%
10908 \long\def\@makefntext##1{\parindent 1em\noindent
10909 \hb@xt@1.8em{%
10910 \hss\@textsuperscript{\normalfont\@thefnmark}}##1}%
10911 \if@twocolumn
10912 \ifnum \col@number=\@ne
10913 \@maketitle
10914 \else
10915 \twocolumn[\@maketitle]%
10916 \fi
10917 \else
10918 \newpage
10919 \global\@topnum\z@ % Prevents figures from going at top of page.
10920 \@maketitle
10921 \fi
10922 \thispagestyle{plain}\@thanks
10923 \endgroup
10924 \setcounter{footnote}{0}%
10925 \global\let\thanks\relax
10926 \global\let\maketitle\relax
10927 \global\let\@maketitle\relax
10928 \global\let\@thanks\@empty
10929 \global\let\@author\@empty
10930 \global\let\@date\@empty
10931 \global\let\@title\@empty
10932 \global\let\title\relax
10933 \global\let\author\relax
10934 \global\let\date\relax
10935 \global\let\and\relax
10936 }
10937 \def\@maketitle{%
10938 \newpage
10939 \null
10940 \vskip 2em%
10941 \begin{center}%
10942 \let \footnote \thanks
10943 {\LARGE \@title \par}%
10944 \vskip 1.5em%
10945 {\large
10946 \lineskip .5em%
10947 \begin{tabular}[t]{c}%
10948 \@author
10949 \end{tabular}\par}%
10950 \vskip 1em%
10951 {\large \@date}%
10952 \end{center}%
10953 \par
10954 \vskip 1.5em}
10955 \fi
10956 \renewcommand\thesection {\thechapter\@SepMark\@arabic\c@section}
10957 \renewcommand\thesubsection {\thesection\@SepMark\@arabic\c@subsection}
10958 \renewcommand\thesubsubsection{\thesubsection \@SepMark\@arabic\c@subsubsection}
10959 \renewcommand\theparagraph {\thesubsubsection\@SepMark\@arabic\c@paragraph}

```



```

10960 \renewcommand\thesubparagraph {\theparagraph\@SepMark\@arabic\c@subparagraph}
10961 \renewcommand\theequation{%
10962   \ifnum \c@chapter>\z@ \thechapter\@SepMark\fi\@arabic\c@equation}
10963 \renewcommand\thefigure{%
10964   \ifnum \c@chapter>\z@ \thechapter\@SepMark\fi \@arabic\c@figure}
10965 \renewcommand\thetable{%
10966   \ifnum \c@chapter>\z@ \thechapter\@SepMark\fi\@arabic\c@table}

```

## 57 File fancybox-xetex-bidi.def

```

10967 \ProvidesFile{fancybox-xetex-bidi.def}[2013/05/01 v0.1 bidi adaptations for fancybox package]
10968 \def\fancy@oval#1#2#3{%
10969   \boxmaxdepth \maxdimen
10970   \@ovttrue \ovbtrue \ovltrue \ovrtrue
10971   \tfor\@tempa :=#3\do{\csname @ov\@tempa false\endcsname}%
10972   \@ovxx#1\relax
10973   \advance\@ovxx-\@wholewidth
10974   \@ovyy#2\relax
10975   \advance\@ovyy-\@wholewidth
10976   \@tempdimb \ifdim \@ovyy >\@ovxx \@ovxx\else \@ovyy \fi
10977   \advance\@tempdimb-2\p@
10978   \ifdim\@tempdimb>\the@cornersize\relax
10979     \@tempdimb=\the@cornersize
10980   \fi
10981   \getcirc\@tempdimb
10982   \@ovro\ht\@tempboxa \ovri\dp\@tempboxa
10983   \ovdx\@ovxx \advance\ovdx-\@tempdima \divide\ovdx \tw@
10984   \ovdy\@ovyy \advance\ovdy-\@tempdima \divide\ovdy \tw@
10985   \circlefnt
10986   \setbox\@tempboxa\hbox{\beginL%
10987     \if\ovr \ovvert32\kern -\@tempdima \fi
10988     \if\ovl \kern \ovxx \ovvert01\kern -\@tempdima \kern -\ovxx \fi
10989     \if\ovt \ovhorz \kern -\ovxx \fi
10990     \if\ovb \raise \ovyy \ovhorz \fi\endL}%
10991   \advance\ovdx\ovro
10992   \advance\ovdy\ovro
10993   \advance\ovxx\@wholewidth
10994   \wd\@tempboxa=\ovxx
10995   \dp\@tempboxa=\z@}

```

## 58 File fancyhdr-xetex-bidi.def

```

10996 \ProvidesFile{fancyhdr-xetex-bidi.def}[2018/02/15 v0.7 bidi adaptations for fancyhdr package]
10997
10998 \let\f@nch@everypar\everypar
10999
11000 \def\f@nch@head#1#2#3#4#5{#1\hbox to\headwidth{\f@nch@reset
11001   \f@nch@vbox\headheight{\hbox
11002     {\rlap{\parbox[b]{\headwidth}{\bidi@raggedright#2}}\hfill
11003       \parbox[b]{\headwidth}{\centering#3}\hfill
11004       \llap{\parbox[b]{\headwidth}{\bidi@raggedleft#4}}\headrule}}#5}
11005
11006 \def\f@nch@foot#1#2#3#4#5{#1\hbox to\headwidth{\f@nch@reset
11007   \f@nch@vbox\footskip{\footrule

```



```

11008     \hbox{\rlap{\parbox[t]{\headwidth}{\bidi@raggedright#2}}\hfill
11009         \parbox[t]{\headwidth}{\centering#3}\hfill
11010         \llap{\parbox[t]{\headwidth}{\bidi@raggedleft#4}}}}#5}
11011

```

## 59 File fix2col-xetex-bidi.def

```

11012 \ProvidesFile{fix2col-xetex-bidi.def}[2017/05/06 v0.4 bidi adaptations for fix2col package f
11013 \def\RTL@outputdblcol{%
11014   \if@firstcolumn
11015     \global\@firstcolumnfalse
11016     \global\setbox\@leftcolumn\copy\@outputbox
11017     \splitmaxdepth\maxdimen
11018     \vbadness\maxdimen
11019     \setbox\@outputbox\vsplit\@outputbox to\maxdimen
11020     \toks@\expandafter{\topmark}%
11021     \xdef\@firstcoltopmark{\the\toks@}%
11022     \toks@\expandafter{\splitfirstmark}%
11023     \xdef\@firstcolfirstmark{\the\toks@}%
11024     \ifx\@firstcolfirstmark\@empty
11025       \global\let\@setmarks\relax
11026     \else
11027       \gdef\@setmarks{%
11028         \let\firstmark\@firstcolfirstmark
11029         \let\topmark\@firstcoltopmark}%
11030   \fi
11031 \else \global\@firstcolumntrue
11032 \setbox\@outputbox \vbox {\hbox to\textwidth {%
11033 \hskip \columnwidth
11034 \hfil \vrule width\columnseprule \hfil
11035 \hbox to\columnwidth {%
11036 \bidi@firstcolumn@status@write%
11037 \box\@leftcolumn \hss}%
11038 \hskip -\textwidth
11039 \hbox to\columnwidth{%
11040 \bidi@lastcolumn@status@write%
11041 \box\@outputbox \hss}%
11042 \hskip \columnsep
11043 \hskip \columnwidth }}%
11044 \@combinedblfloats \@setmarks \@outputpage
11045 \begingroup \@dblfloatplacement \@startdblcolumn
11046 \@whiles\if@fcolmade \fi
11047 {\@outputpage \@startdblcolumn }\endgroup
11048 \fi}
11049 \def\LTR@outputdblcol{%
11050   \if@firstcolumn
11051     \global\@firstcolumnfalse
11052     \global\setbox\@leftcolumn\copy\@outputbox
11053     \splitmaxdepth\maxdimen
11054     \vbadness\maxdimen
11055     \setbox\@outputbox\vsplit\@outputbox to\maxdimen
11056     \toks@\expandafter{\topmark}%
11057     \xdef\@firstcoltopmark{\the\toks@}%
11058     \toks@\expandafter{\splitfirstmark}%

```



```

11059 \xdef\@firstcolfirstmark{\the\toks@}%
11060 \ifx\@firstcolfirstmark\empty
11061 \global\let\@setmarks\relax
11062 \else
11063 \gdef\@setmarks{%
11064 \let\firstmark\@firstcolfirstmark
11065 \let\topmark\@firstcoltopmark}%
11066 \fi
11067 \else
11068 \global\@firstcolumntrue
11069 \setbox\@outputbox\vbox{%
11070 \hb@xt@\textwidth{%
11071 \hb@xt@\columnwidth{%
11072 \bidi@firstcolumn@status@write%
11073 \box\@leftcolumn \hss}%
11074 \hfil
11075 \vrule \@width\columnseprule
11076 \hfil
11077 \hb@xt@\columnwidth{%
11078 \bidi@lastcolumn@status@write%
11079 \box\@outputbox \hss}}}%
11080 \@combinedblfloats
11081 \@setmarks
11082 \@outputpage
11083 \begingroup
11084 \@dblfloatplacement
11085 \@startdblcolumn
11086 \@whilesw\if@fcolmade \fi{\@outputpage\@startdblcolumn}%
11087 \endgroup
11088 \fi}

```

## 60 File fleqn-xetex-bidi.def

```

11089 \ProvidesFile{fleqn-xetex-bidi.def}[2010/03/01 v0.1 bidi adaptations for fleqn tag for XeTeX]
11090 \renewcommand\[\relax
11091 \ifmmode\@badmath
11092 \else
11093 \begin{trivlist}%
11094 \@beginparpenalty\predisplaypenalty
11095 \@endparpenalty\postdisplaypenalty
11096 \item[]\leavevmode
11097 \hb@xt@\linewidth\bgroup \beginL$\m@th\displaystyle %$
11098 \hskip\mathindent\bgroup
11099 \fi}
11100 \renewcommand\]{\relax
11101 \ifmmode
11102 \egroup $\hfil% $
11103 \endL\egroup
11104 \end{trivlist}%
11105 \else \@badmath
11106 \fi}
11107 \renewenvironment{equation}%
11108 {\@beginparpenalty\predisplaypenalty
11109 \@endparpenalty\postdisplaypenalty

```



```

11110 \refstepcounter{equation}%
11111 \trivlist \item[]\leavevmode
11112 \hb@xt@\linewidth\bgroup\beginL $\m@th% $
11113 \displaystyle
11114 \hskip\mathindent}%
11115 {\hfil % $
11116 \displaywidth\linewidth\hbox{\@eqnnum}%
11117 \endL\egroup
11118 \endtrivlist}

```

## 61 File float-xetex-bidi.def

```

11119 \ProvidesFile{float-xetex-bidi.def}[2013/04/04 v0.2 bidi adaptations for float package for Xe
11120 \renewcommand\floatc@plain[2]{\setbox\@tempboxa\hbox{\@fs@cfont #1:} #2}%
11121 \ifdim\wd\@tempboxa>\hsize {\@fs@cfont #1:} #2\par
11122 \else\hbox to\hsize{\ifRTL\beginR\fi\hfil\box\@tempboxa\hfil\ifRTL\endR\fi}\fi}
11123 \def\float@newx#1[#2]{\ifundefined{c@#1}{\newcounter{#1}[#2]%
11124 \expandafter\edef\csname the#1\endcsname{%
11125 \expandafter\noexpand\csname
11126 the#2\endcsname\@SepMark\noexpand\arabic{#1}}}%
11127 {\PackageWarning{float}{Can't redefine counter variable for #1.}}}

```

## 62 File floatrow-xetex-bidi.def

```

11128 \ProvidesFile{floatrow-xetex-bidi.def}[2013/04/08 v0.1 bidi adaptations for floatrow package
11129 \renewcommand\flnew@within[1]{\@addtoreset{FB@captype}{#1}%
11130 \expandafter\edef\csname theFB@captype\endcsname{%
11131 \expandafter\noexpand\csname
11132 the#1\endcsname\@SepMark\noexpand\arabic{FB@captype}}}

```

## 63 File flowfram-xetex-bidi.def

```

11133 \ProvidesFile{flowfram-xetex-bidi.def}[2018/09/29 v0.5 bidi adaptations for flowfram package
11134 \def\@outputdblcol{%
11135 \c@nxtcol=\c@thisframe
11136 \c@curpg=\c@page
11137 \g@tnextcol{\c@nxtcol}%
11138 \if@ff@nwpg % next flow frame starts on new page
11139 \global\@firstcolumntrue
11140 \setcolbox\c@thisframe
11141 \if@specialpage
11142 \global\@specialpagefalse
11143 \nameuse{ps@\@specialstyle}\relax
11144 \fi
11145 \if@twoside
11146 \ifodd\count\z@
11147 \let\@thehead\@oddhead
11148 \let\@thefoot\@oddfoot
11149 \else
11150 \let\@thehead\@evenhead
11151 \let\@thefoot\@evenfoot
11152 \fi
11153 \else
11154 \let\@thehead\@oddhead

```



```

11155 \let\@thefoot\@oddfoot
11156 \fi
11157 \@beginndvi
11158 \@dodynamicthehead\@dodynamicthefoot
11159 \vbadness=\@M
11160 \setbox\@outputbox\vbox{\hbox to \textwidth{\@ff@do@allframes}}}%
11161 \@combinedblfloats
11162 \@outputpage
11163 \advance\c@curpg by -\c@page\relax
11164 \whiledo{\c@curpg>0}{\advance\c@curpg by -1\relax
11165 \setbox\@outputbox\vbox{\hbox to \textwidth{\@ff@do@allframes}}}%
11166 \@outputpage}
11167 \begingroup
11168 \dblfloatplacement
11169 \startdblcolumn
11170 \whilesw \if@colmade \fi
11171 {\@outputpage \startdblcolumn }\endgroup
11172 \resetst@tics
11173 \resetdyn@mics
11174 \else % still on same page, save contents of box255
11175 \global\@firstcolumnfalse
11176 \setcolbox\c@thisframe
11177 \fi
11178 \global\c@thisframe=\nxtcol
11179 \setcol{\c@thisframe}\relax
11180 \global\@colht\vsiz
11181 }
11182 \def\@outputpage{%
11183 \begingroup
11184 \let\protect\noexpand
11185 \resetactivechars
11186 \global\let\@if@newlist\if@newlist
11187 \global\@newlistfalse\@parboxrestore
11188 \global\let\@bidi@BeforeOutputPageShipOut\@firstofone
11189 \bidi@beforeoutputpageshipouthook
11190 \shipout\vbox{\set@typeset@protect
11191 \aftergroup
11192 \endgroup
11193 \aftergroup
11194 \set@typeset@protect
11195 \reset@font\normalsize
11196 \bidi@font\@outputpage
11197 \normalsfcodes
11198 \let\label\@gobble
11199 \let\index\@gobble
11200 \let\glossary\@gobble
11201 \baselineskip\z@skip
11202 \lineskip\z@skip
11203 \lineskiplimit\z@
11204 \vskip\topmargin\moveright\@themargin
11205 \vbox{%
11206 \global\let\@bidi@BeforeHeader\@firstofone
11207 \bidi@beforeheaderhook
11208 \vskip\headheight

```



```

11209 \vskip\headsep
11210 \global\let\bidibeforeOutputBoxOutputPage\@firstofone
11211 \bidibeforeoutputboxoutputpagehook
11212 \box\@outputbox
11213 \global\let\bidiafterOutputBoxOutputPage\@firstofone
11214 \bidiafteroutputboxoutputpagehook
11215 }%
11216 \global\let\bidiafterOutputPageShipOut\@firstofone
11217 \bidiafteroutputpageshipouthook
11218 \global\let\ifnewlist\@ifnewlist
11219 \stepcounter{page}%
11220 \setcounter{displayedframe}{0}%
11221 \let\firstmark\botmark
11222 \global\let\bidiatEndOutputPage\@firstofone
11223 \bidiatendoutputpagehook
11224 }
11225
11226
11227 \newcommand*\bidis@tfftextcol{\ifthenelse{\equal{\ff@txtcol}{}}{}}{%
11228 \expandafter\bidicolor\ff@txtcol}}
11229
11230 \newcommand{\bidiff@box}[3]{\@ffbackground{\vbox to#2
11231 {\hbxt@ #1{\hss\bidis@tfftextcol #3}\hss}\vss\kern\z@}}}%
11232
11233
11234 \renewcommand*\@docolbox}[1]{%
11235 \edef\ff@frametype{%
11236 \csname @ff@frametype@romannumeral#1\endcsname}%
11237 \edef\ff@col{\csname @ff@col@romannumeral#1\endcsname}%
11238 \edef\ff@txtcol{\csname @ff@txtcol@romannumeral#1\endcsname}%
11239 \edef\ff@backcol{\csname @ff@backcol@romannumeral#1\endcsname}%
11240 \@ff@setoffset{#1}%
11241 \rotateframe{\csname @ff@angle@romannumeral#1\endcsname}{%
11242 \ifthenelse{\boolean{columnframe\romannumeral#1}}{}}{%
11243 \@ff@fbox{\csname colwidth\romannumeral#1\endcsname}%
11244 {\csname colheight\romannumeral#1\endcsname}{%
11245 \expandafter\box\csname column\romannumeral#1\endcsname}{%
11246 \csname\ff@frametype\endcsname}%
11247 }%
11248 \bidiff@box{\csname colwidth\romannumeral#1\endcsname}%
11249 {\csname colheight\romannumeral#1\endcsname}{%
11250 \expandafter\box\csname column\romannumeral#1\endcsname}%
11251 }}}
11252 \@ifclassloaded{book}{%
11253 \renewcommand\theequation
11254 {\ifnum \c@chapter>\z@ \thechapter\@SepMark\fi \@arabic\c@equation}
11255 \renewcommand \thefigure
11256 {\ifnum \c@chapter>\z@ \thechapter\@SepMark\fi \@arabic\c@figure}
11257 \renewcommand \thetable
11258 {\ifnum \c@chapter>\z@ \thechapter\@SepMark\fi \@arabic\c@table}
11259 \renewcommand \thechapter {\@arabic\c@chapter}
11260 \renewcommand \thesection {\thechapter\@SepMark\@arabic\c@section}
11261 \renewcommand \thesubsection {\thesection\@SepMark\@arabic\c@subsection}
11262 \renewcommand \thesubsubsection{\thesubsection \@SepMark\@arabic\c@subsubsection}

```





```

11263 \renewcommand\theparagraph {\thesubsubsection\@SepMark\@arabic\c@paragraph}
11264 \renewcommand\thesubparagraph {\theparagraph\@SepMark\@arabic\c@subparagraph}}{}
11265 \@ifclassloaded{report}{%
11266 \renewcommand\theequation
11267 {\ifnum \c@chapter>\z@ \thechapter\@SepMark\fi \@arabic\c@equation}
11268 \renewcommand \thefigure
11269 {\ifnum \c@chapter>\z@ \thechapter\@SepMark\fi \@arabic\c@figure}
11270 \renewcommand \thetable
11271 {\ifnum \c@chapter>\z@ \thechapter\@SepMark\fi \@arabic\c@table}
11272 \renewcommand \thechapter {\@arabic\c@chapter}
11273 \renewcommand \thesection {\thechapter\@SepMark\@arabic\c@section}
11274 \renewcommand\thesubsection {\thesection\@SepMark\@arabic\c@subsection}
11275 \renewcommand\thesubsubsection{\thesubsection \@SepMark\@arabic\c@subsubsection}
11276 \renewcommand\theparagraph {\thesubsubsection\@SepMark\@arabic\c@paragraph}
11277 \renewcommand\thesubparagraph {\theparagraph\@SepMark\@arabic\c@subparagraph}}{}
11278 \renewcommand{\rotateframe}[2]{\if@ttb\rotate
11279 \rotatebox{#1}{\if@RTL\beginL\fi#2\if@RTL\endL\fi}}%
11280 \else
11281 #2\relax
11282 \fi}

```

## 64 File footnote-xetex-bidi.def

```

11283 \ProvidesFile{footnote-xetex-bidi.def}[2017/08/09 v1.1 bidi footnote macros for XeTeX engine]
11284 \if@RTLMain\@RTL@footnotetrue\else\@RTL@footnotefalse\fi
11285 \newif\ifbidi@autofootnoterule
11286 \def\bidi@mpfootnoterule{\footnoterule}
11287 \newcounter{footdir@label}
11288 \renewcommand*{\thefootdir@label}{footdir@the\value{footdir@label}}
11289 \newcommand*{\footdir@write}{%
11290 \stepcounter{footdir@label}%
11291 \zref@labelbyprops{\thefootdir@label}{abspage}%
11292 }
11293 \newif\iffootdir@debug
11294 \newcommand*{\debugfootnotedirection}{\footdir@debugtrue}
11295 \newtoks\footdir@toks
11296 \newcommand*{\footdir@debug}[1]{%
11297 \iffootdir@debug
11298 \typeout{[footdir] #1}%
11299 \fi
11300 }
11301 %\@ifpackagelater{zref-abspage}{2012/10/27}{%
11302 \newcommand*{\footdir@LeftRightElse}{%
11303 \ltx@ifundefined{footdir@the\value{zabspage}}{%
11304 \footdir@debug{abspage \the\value{zabspage}: else}%
11305 \ltx@thirdofthree
11306 }{%
11307 \ifcsname footdir@the\value{zabspage}\endcsname L%
11308 \footdir@debug{abspage \the\value{zabspage}: left}%
11309 \expandafter\ltx@firstofthree
11310 \else
11311 \footdir@debug{abspage \the\value{zabspage}: right}%
11312 \expandafter\ltx@secondofthree
11313 %

```



```

11314 % }%
11315 % }%
11316 %}{%
11317 \providecommand*{\c@zabspage}{\c@abspage}%
11318 \newcommand*{\footdir@LeftRightElse}{%
11319 \footdir@write
11320 \zifrefundefined{\thefootdir@label}{%
11321 \footdir@debug{abspage ??: else}%
11322 \ltx@thirdofthree
11323 }{%
11324 \edef\footdir@abspage{%
11325 \zref@extractdefault{\thefootdir@label}{abspage}{0}%
11326 }%
11327 \ltx@ifundefined{footdir@\footdir@abspage}{%
11328 \footdir@debug{\footdir@abspage: else}%
11329 \ltx@thirdofthree
11330 }{%
11331 \if\csname footdir@\footdir@abspage\endcsname L%
11332 \footdir@debug{\footdir@abspage: left}%
11333 \expandafter\ltx@firstofthree
11334 \else
11335 \footdir@debug{\footdir@abspage: right}%
11336 \expandafter\ltx@secondofthree
11337 \fi
11338 }%
11339 }%
11340 }%
11341 %}
11342 \newcommand*{\footdir@fntext}[1]{%
11343 \zifrefundefined{\thefootdir@label}{%
11344 }{%
11345 \edef\footdir@name{%
11346 footdir@\zref@extractdefault{\thefootdir@label}{abspage}{0}%
11347 }%
11348 \@ifundefined{footdir@name}{%
11349 \expandafter\gdef\csname\footdir@name\endcsname{#1}%
11350 }{%
11351 }%
11352 }
11353
11354 \newcommand*{\footdir@temp}[3]{%
11355 \ifdefinable{#1}{%
11356 \let#1#2%
11357 \renewcommand{#2}[1]{%
11358 \footdir@write
11359 \footdir@fntext{#3}%
11360 \stepcounter{footdir@label}%
11361 \footdir@fntext{#3}%
11362 \footdir@toks{##1}%
11363 \footdir@toks\expandafter{%
11364 \the\expandafter\footdir@toks
11365 \expandafter
11366 \zref@labelbyprops\expandafter{\thefootdir@label}{abspage}%
11367 }%

```



```

11368     \expandafter#1\expandafter{\the\footdir@toks}%
11369   }%
11370 }%
11371 }
11372
11373 \def\right@footnoterule{%
11374   \kern-3\p@
11375   \hbox to \columnwidth{\hskip .6\columnwidth \hrulefill }
11376   \kern2.6\p@}
11377 \def\left@footnoterule{\kern-3\p@
11378   \hrule \@width .4\columnwidth \kern 2.6\p@}
11379 \def\textwidth@footnoterule{\kern-3\p@
11380   \hrule \@width \columnwidth \kern 2.6\p@}
11381 \def\leftfootnoterule{%
11382   \bidi@autofootnoterulefalse%
11383 \def\footnoterule{\left@footnoterule}}
11384 \let\LRfootnoterule=\leftfootnoterule
11385 \def\rightfootnoterule{%
11386   \bidi@autofootnoterulefalse%
11387 \def\footnoterule{\right@footnoterule}}
11388 \def\textwidthfootnoterule{%
11389   \bidi@autofootnoterulefalse%
11390 \def\footnoterule{\textwidth@footnoterule}}
11391
11392
11393
11394 \def\auto@footnoterule{%
11395   \footdir@LeftRightElse%
11396   \left@footnoterule%
11397   \right@footnoterule%
11398   \left@footnoterule%
11399 }
11400
11401
11402
11403 \def\autofootnoterule{%
11404   \bidi@autofootnoteruletrue%
11405 \def\footnoterule{\auto@footnoterule}%
11406 }
11407
11408 \newcommand*{\SplitFootnoteRule}{%
11409   \gdef\split@prev{0}
11410   \let\pagefootnoterule\footnoterule
11411   \let\mpfootnoterule\footnoterule
11412   \def\splitfootnoterule{\kern-3\p@ \hrule \kern2.6\p@}
11413   \def\footnoterule{\relax
11414     \ifx \@listdepth\@mplistdepth
11415       \mpfootnoterule
11416     \else
11417       \ifnum\split@prev=\z@
11418         \pagefootnoterule
11419       \else
11420         \splitfootnoterule
11421       \fi

```



```

11422 \xdef\split@prev{\the\insertpenalties}%
11423 \fi
11424 }%
11425 }
11426
11427
11428
11429
11430 \def\RTLfootnote{\@ifnextchar[\@xRTLfootnote{\stepcounter\mpfn
11431 \protected@xdef\@thefnmark{\thempfn}%
11432 \@footnotemark\@RTLfootnotetext}}
11433 \def\@xRTLfootnote[#1]{%
11434 \begingroup
11435 \csname c@\mpfn\endcsname #1\relax
11436 \unrestored@protected@xdef\@thefnmark{\thempfn}%
11437 \endgroup
11438 \@footnotemark\@RTLfootnotetext}
11439 \def\LTRfootnote{\@ifnextchar[\@xLTRfootnote{\stepcounter\mpfn
11440 \protected@xdef\@thefnmark{\thempfn}%
11441 \@footnotemark\@LTRfootnotetext}}
11442 \def\@xLTRfootnote[#1]{%
11443 \begingroup
11444 \csname c@\mpfn\endcsname #1\relax
11445 \unrestored@protected@xdef\@thefnmark{\thempfn}%
11446 \endgroup
11447 \@footnotemark\@LTRfootnotetext}
11448
11449
11450 \def\setfootnoteRL{\@RTL@footnotetrue}
11451 \def\unsetfootnoteRL{\@RTL@footnotefalse}
11452 \def\setfootnoteLR{\unsetfootnoteRL}
11453
11454 \newcommand*{\bidi@footnotetext@font}{\footnotesize}
11455 \newcommand*{\bidi@LTRfootnotetext@font}{\footnotesize}
11456 \newcommand*{\bidi@RTLfootnotetext@font}{\footnotesize}
11457
11458 \long\def\@footnotetext#1{\insert\footins{%
11459 \if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi%
11460 \reset@font%
11461 \bidi@footnotetext@font% \reset@font\footnotesize
11462 \interlinepenalty\interfootnotelinepenalty
11463 \splittopskip\footnotesep
11464 \splitmaxdepth \dp\strutbox \floatingpenalty \@MM
11465 \hsize\columnwidth \@parboxrestore
11466 \protected@edef\@currentlabel{%
11467 \csname p@footnote\endcsname\@thefnmark
11468 }%
11469 \color@begingroup
11470 \makefnintext{%
11471 \rule\z@{\footnotesep\ignorespaces#1\@finalstrut\strutbox}%
11472 \color@endgroup}}%
11473
11474
11475 \long\def\@RTLfootnotetext#1{\insert\footins{%

```



```

11476 \RTLtrue%
11477 \reset@font%
11478 \bidi@RTLfootnotetext@font% \reset@font\footnotesize
11479 \interlinepenalty\interfootnotelinepenalty
11480 \splittopskip\footnotesep
11481 \splitmaxdepth \dp\strutbox \floatingpenalty \MM
11482 \hsize\columnwidth \@parboxrestore
11483 \protected@edef\@currentlabel{%
11484 \csname p@footnote\endcsname\@thefnmark
11485 }%
11486 \color@begingroup
11487 \makefnintext{%
11488 \rule\z@\footnotesep\ignorespaces#1\@finalstrut\strutbox}%
11489 \color@endgroup}}%
11490
11491 \long\def\@LTRfootnotetext#1{\insert\footins{%
11492 \RTLfalse%
11493 \reset@font%
11494 \bidi@LTRfootnotetext@font% \reset@font\footnotesize
11495 \interlinepenalty\interfootnotelinepenalty
11496 \splittopskip\footnotesep
11497 \splitmaxdepth \dp\strutbox \floatingpenalty \MM
11498 \hsize\columnwidth \@parboxrestore
11499 \protected@edef\@currentlabel{%
11500 \csname p@footnote\endcsname\@thefnmark
11501 }%
11502 \color@begingroup
11503 \makefnintext{%
11504 \rule\z@\footnotesep\ignorespaces#1\@finalstrut\strutbox}%
11505 \color@endgroup}}%
11506
11507 \AtBeginDocument{%
11508 \ifRTL@footnote
11509 \newcommand*{\bidi@footdir@footnote}{R}
11510 \else
11511 \newcommand*{\bidi@footdir@footnote}{L}
11512 \fi%
11513 }
11514
11515 \footdir@temp\footdir@ORG\bidi@footnotetext\@footnotetext{\bidi@footdir@footnote}%
11516 \footdir@temp\footdir@ORG\bidi@RTLfootnotetext\@RTLfootnotetext{R}%
11517 \footdir@temp\footdir@ORG\bidi@LTRfootnotetext\@LTRfootnotetext{L}%
11518
11519 \long\def\@mpRTLfootnotetext#1{%
11520 \ifbidi@autofootnoterule\ifnum\c@mpfootnote=\@ne\global\let\bidi@mpfootnoterule\right@foot
11521 \global\setbox\@mpfootins\vbox{\RTLtrue%
11522 \unvbox\@mpfootins
11523 \reset@font%
11524 \bidi@RTLfootnotetext@font% \reset@font\footnotesize
11525 \hsize\columnwidth
11526 \@parboxrestore
11527 \protected@edef\@currentlabel
11528 {\csname p@mpfootnote\endcsname\@thefnmark}%
11529 \color@begingroup

```



```

11530     \@makefntext{%
11531         \rule{z@\footnotesep\ignorespaces#1\@finalstrut\strutbox}%
11532     \color@endgroup}}
11533 \long\def\@mpLTrfootnotetext#1{%
11534 \ifbidi@autofootnoterule\ifnum\c@mpfootnote=\@ne\global\let\@bidi@mpfootnoterule\left@footnot
11535 \global\setbox\@mpfootins\vbox{\@RTLfalse%
11536     \unvbox\@mpfootins
11537     \reset@font%
11538     \bidi@@LTrfootnotetext@font% \reset@font\footnotesize
11539     \hsize\columnwidth
11540     \@parboxrestore
11541     \protected@edef\@currentlabel
11542         {\csname p@mpfootnote\endcsname\@thefnmark}%
11543     \color@begingroup
11544         \@makefntext{%
11545             \rule{z@\footnotesep\ignorespaces#1\@finalstrut\strutbox}%
11546         \color@endgroup}}
11547 \long\def\@mpfootnotetext#1{%
11548 \ifbidi@autofootnoterule\ifnum\c@mpfootnote=\@ne\if@RTL@footnote\global\let\@bidi@mpfootnot
11549 \global\setbox\@mpfootins\vbox{\if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi%
11550     \unvbox\@mpfootins
11551     \reset@font%
11552     \bidi@@footnotetext@font% \reset@font\footnotesize
11553     \hsize\columnwidth
11554     \@parboxrestore
11555     \protected@edef\@currentlabel
11556         {\csname p@mpfootnote\endcsname\@thefnmark}%
11557     \color@begingroup
11558         \@makefntext{%
11559             \rule{z@\footnotesep\ignorespaces#1\@finalstrut\strutbox}%
11560         \color@endgroup}}
11561 \def\@iiiminipage#1#2[#3]#4{%
11562     \leavevmode
11563     \@pboxswfalse
11564     \if@hboxRconstruct\@bidi@list@minipage@parbox@not@nobtrue\fi
11565     \if@RTL\if#1t\@bidi@list@minipage@parboxtrue\else\if#1b\@bidi@list@minipage@parboxtrue\fi
11566     \setlength\@tempdima{#4}%
11567     \def\@mpargs{#1}#2[#3]{#4}%
11568     \setbox\@tempboxa\vbox\bgroup
11569         \color@begingroup
11570         \hsize\@tempdima
11571         \textwidth\hsize \columnwidth\hsize
11572         \@parboxrestore
11573         \def\@mpfn{mpfootnote}\def\thempfn{\thempfootnote}\c@mpfootnote\z@
11574         \let\@footnotetext\@mpfootnotetext
11575         \let\@LTrfootnotetext\@mpLTrfootnotetext
11576         \let\@RTLfootnotetext\@mpRTLfootnotetext
11577         \let\@listdepth\@mplistdepth \@mplistdepth\z@
11578         \@minipagerestore
11579         \@setminipage}
11580 \def\endminipage{%
11581     \par
11582     \unskip
11583     \ifvoid\@mpfootins\else

```



```

11584 \vskip\skip\@mpfootins
11585 \normalcolor
11586 \bidi@mpfootnoterule
11587 \unvbox\@mpfootins
11588 \fi
11589 \@minipagefalse %% added 24 May 89
11590 \color@endgroup
11591 \egroup
11592 \expandafter\@iiiparbox\@mpargs{\unvbox\@tempboxa}}
11593 \def\LTRthanks#1{\footnotemark
11594 \protected@xdef\@thanks{\@thanks
11595 \protect\LTRfootnotetext[\the\c@footnote]{#1}}}%
11596 }
11597 \def\LTRfootnotetext{%
11598 \ifnextchar [\@xLTRfootnotenext
11599 {\protected@xdef\@thefnmark{\thempfn}%
11600 \@LTRfootnotetext}}
11601 \def\@xLTRfootnotenext[#1]{%
11602 \begingroup
11603 \csname c@\@mpfn\endcsname #1\relax
11604 \unrestored@protected@xdef\@thefnmark{\thempfn}%
11605 \endgroup
11606 \@LTRfootnotetext}
11607 \def\RTLthanks#1{\footnotemark
11608 \protected@xdef\@thanks{\@thanks
11609 \protect\RTLfootnotetext[\the\c@footnote]{#1}}}%
11610 }
11611 \let\@thanks\@empty
11612 \def\RTLfootnotetext{%
11613 \ifnextchar [\@xRTLfootnotenext
11614 {\protected@xdef\@thefnmark{\thempfn}%
11615 \@RTLfootnotetext}}
11616 \def\@xRTLfootnotenext[#1]{%
11617 \begingroup
11618 \csname c@\@mpfn\endcsname #1\relax
11619 \unrestored@protected@xdef\@thefnmark{\thempfn}%
11620 \endgroup
11621 \@RTLfootnotetext}
11622 \leftfootnoterule

```

## 65 File framed-xetex-bidi.def

```

11623 \ProvidesFile{framed-xetex-bidi.def}[2012/06/05 v0.3 bidi adaptations for framed package for
11624 \renewcommand\TitleBarFrame[3][\begingroup
11625 \ifx\delimiter#1\delimiter
11626 \let\TF@conlab\@empty
11627 \else
11628 \def\TF@conlab{% continuation label
11629 \nointerlineskip
11630 \smash{\rlap{\kern\wd\@tempboxa\kern\fbboxrule\kern\fbboxsep #1}}}%
11631 \fi
11632 %\let\TF@savecolor\current@color
11633 \textcolor{TFFrameColor}{%
11634 \CustomFBox

```



```

11635     {\TF@Title{#2}}{\TF@conlab}%
11636     \fboxrule\fboxrule\fboxrule\fboxrule
11637     %{\let\current@color\TF@savecolor\set@color #3}%
11638     {\normalcolor #3}%
11639 } \endgroup
11640 }
11641 \renewenvironment{titled-frame}[1]{%
11642   \def\FrameCommand{\fboxsep8pt\fboxrule2pt
11643     \TitleBarFrame{\textbf{#1}}}%
11644   \def\FirstFrameCommand{\fboxsep8pt\fboxrule2pt
11645     \TitleBarFrame[{\if@RTL\blacktriangleleft\else\blacktriangleright\fi}]{\textbf{#1}}}%
11646   \def\MidFrameCommand{\fboxsep8pt\fboxrule2pt
11647     \TitleBarFrame[{\if@RTL\blacktriangleleft\else\blacktriangleright\fi}]{\textbf{#1\ (con
11648   \def\LastFrameCommand{\fboxsep8pt\fboxrule2pt
11649     \TitleBarFrame{\textbf{#1\ (cont)}}}%
11650   \MakeFramed{\advance\hsize-20pt \FrameRestore}}%
11651 % note: 8 + 2 + 8 + 2 = 20. Don't use \width because the frame title
11652 % could interfere with the width measurement.
11653 {\endMakeFramed}
11654 \chardef\FrameRestore=\catcode`\| % for debug
11655 \catcode`\|=\catcode`\% % (debug: insert space after backslash)
11656 \def\fb@put@frame#1#2{\relax
11657   \ifdim\pagegoal=\maxdimen \pagegoal\vsizel\fi
11658   \message{===== Entering putframe =====^J
11659   \pagegoal=\the\pagegoal, \pagetotal=\the\pagetotal.}%
11660   \ifinner
11661     \fb@putboxa#1%
11662     \fb@afterframe
11663   \else
11664     \dimen@=\pagegoal \advance\dimen@-\pagetotal % natural space left on page
11665     \ifdim\dimen@<2\baselineskip % Too little room on page
11666     \message{Page has only \the\dimen@space room left; eject.}%
11667     \eject \fb@adjheight \fb@put@frame#1#2%
11668   \else % there's appreciable room left on the page
11669     \fb@sizeofframe#1%
11670     \message{\string\pagetotal=\the\pagetotal,
11671       \string\pagegoal=\the\pagegoal,
11672       \string\pagestretch=\the\pagestretch,
11673       \string\pageshrink=\the\pageshrink,
11674       \string\fb@frh=\the\fb@frh. \space}
11675     \message{^^JBox of size \the\ht@tempboxa\space}%
11676     \begingroup % temporarily set \dimen@ to be...
11677     \advance\dimen@.8\pageshrink % maximum space available on page
11678     \advance\dimen@-\fb@frh\relax % max space available for frame's contents
11679 %%% LOOKS SUBTRACTED AND ADDED, SO DOUBLE ACCOUNTING!
11680     \expandafter\endgroup
11681     % expand \ifdim, then restore \dimen@ to real room left on page
11682     \ifdim\dimen@>\ht@tempboxa % whole box does fit
11683     \message{fits in \the\dimen@.}%
11684     % ToDo: Change this to use vsplit anyway to capture the marks
11685     % MERGE THIS WITH THE else CLAUSE!!!
11686     \fb@putboxa#1%
11687     \fb@afterframe
11688   \else % box must be split

```





```

11689 | \message{must be split to fit in \the\dimen@.}%
11690 | % update frame measurement to use \FirstFrameCommand or \MidFrameCommand
11691 | \fb@sizeofframe#2%
11692 | \setbox\@tempboxa\vbox{% simulate frame and flexibility of the page:
11693 |     \vskip \fb@frh \@plus\pagestretch \@minus.8\pageshrink
11694 |     \kern137sp\kern-137sp\penalty-30
11695 |     \unvbox\@tempboxa}%
11696 | \edef\fb@resto@set{\boxmaxdepth\the\boxmaxdepth
11697 |     \splittopskip\the\splittopskip}%
11698 | \boxmaxdepth\z@ \splittopskip\z@
11699 | \message{^^J Padded box of size \the\ht\@tempboxa\space split to \the\dimen@}%
11700 | % Split box here
11701 | \setbox\tw@\vsplit\@tempboxa to\dimen@
11702 | \toks99\expandafter{\splitfirstmark}%
11703 | \toks98\expandafter{\splitbotmark}%
11704 | \message{Marks are: \the\toks99, \the\toks98.}%
11705 | \setbox\tw@\vbox{\unvbox\tw@}% natural-sized
11706 | \message{Natural height of split box is \the\ht\tw@, leaving
11707 |     \the\ht\@tempboxa\space remainder.}%
11708 | % If the split-to size > (\vsize-\topskip), then set box to full size.
11709 | \begingroup
11710 | \advance\dimen@\topskip
11711 | \expandafter\endgroup
11712 | \ifdim\dimen@>\pagegoal
11713 |     \message{Frame is big -- Use up the full column.}%
11714 |     \dimen@ii\pagegoal
11715 |     \advance\dimen@ii -\topskip
11716 |     \advance\dimen@ii \FrameHeightAdjust\relax
11717 | \else % suspect this is implemented incorrectly:
11718 |     % If the split-to size > feasible room_on_page, rebox it smaller.
11719 |     \advance\dimen@.8\pageshrink
11720 |     \ifdim\ht\tw@>\dimen@
11721 |         \message{Box too tall; rebox it to \the\dimen@.}%
11722 |         \dimen@ii\dimen@
11723 |     \else % use natural size
11724 |         \dimen@ii\ht\tw@
11725 |     \fi
11726 | \fi
11727 | % Re-box contents to desired size \dimen@ii
11728 | \advance\dimen@ii -\fb@frh
11729 | \setbox\tw@\vbox to\dimen@ii \bgroup
11730 | % remove simulated frame and page flexibility:
11731 | \vskip -\fb@frh \@plus-\pagestretch \@minus-.8\pageshrink
11732 | \unvbox\tw@ \unpenalty\unpenalty
11733 | \ifdim\lastkern=-137sp % whole box went to next page
11734 |     \message{box split at beginning!}%
11735 |     % need work here???
11736 |     \egroup \fb@resto@set \eject % (\vskip for frame size was discarded)
11737 |     \fb@adjheight
11738 |     \fb@put@frame#1#2% INSERTED ???
11739 | \else % Got material split off at the head
11740 |     \egroup \fb@resto@set
11741 |     \ifvoid\@tempboxa % it all fit after all
11742 |         \message{box split at end!}%

```



```

11743         \setbox\@tempboxa\box\tw@
11744         \fb@putboxa#1%
11745         \fb@afterframe
11746     \else % it really did split
11747 |     \message{box split as expected. Its reboxed height is \the\ht\tw@. }%
11748         \ifdim\wd\tw@>\z@
11749             \wd\tw@\wd\@tempboxa
11750             \centerline{#2{\hboxL{\box\tw@}}}% ??? \centerline bad idea
11751         \else
11752 |     \message{Zero width means likely blank. Don't frame it (guess)}%
11753         \box\tw@
11754         \fi
11755         \hrule \@height\z@ \@width\hsize
11756         \eject
11757         \fb@adjheight
11758         \fb@put@frame\LastFrameCommand\MidFrameCommand
11759     \fi\fi\fi\fi\fi
11760 }
11761 \def\fb@putboxa#1{%
11762     \ifvoid\@tempboxa
11763         \PackageWarning{framed}{Boxa is void -- discard it. }%
11764     \else
11765 |     \message{Frame and place boxa. }%
11766 |     %{\showoutput\showbox\@tempboxa}%
11767         \centerline{#1{\hboxL{\box\@tempboxa}}}%
11768     \fi
11769 }
11770 \catcode\|= \FrameRestore
11771 \def\FrameRestore{%
11772     \let\if@nobreak\iffalse
11773     \let\if@noskipsec\iffalse
11774     \let\-\@dischph
11775     \let'\@acci\let'\@accii\let=\@acciii
11776     % \message{FrameRestore:
11777     %     \@totalleftmargin=\the \@totalleftmargin,
11778     %     \rightmargin=\the\rightmargin,
11779     %     \@listdepth=\the\@listdepth. }%
11780     % Test if we are in a list (or list-like paragraph)
11781     \ifnum \ifdim\@totalleftmargin>\z@ 1\fi
11782         \ifdim\rightmargin>\z@ 1\fi
11783         \ifnum\@listdepth>\z@ 1\fi 0>\z@
11784     %     \message{In a list: \linewidth=\the\linewidth, \@totalleftmargin=\the\@totalleftm
11785     %     \parshape=\the\parshape, \columnwidth=\the\columnwidth, \hsize=\the\hsize,
11786     %     \labelwidth=\the\labelwidth. }%
11787     \@setminipage % snug fit around the item
11788     % Now try to propagate changes of width from \hsize to list parameters.
11789     % This is deficient, but a more advanced way to indicate modification to text
11790     % dimensions is not (yet) provided; in particular, no separate left/right
11791     % adjustment.
11792     \advance\linewidth-\columnwidth \advance\linewidth\hsize
11793     \parshape\@ne \@totalleftmargin \linewidth
11794 \else % Not in list
11795     \linewidth=\hsize
11796     %\message{No list, set \string\linewidth=\the\hsize. }%

```



```

11797 \fi
11798 \sloppy
11799 }

```

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

```

11800 \ProvidesFile{ftnright-xetex-bidi.def}[2018/09/29 v0.6 bidi adaptations for ftnright package]
11801
11802 \def\prepare@bidi@copyins{%
11803   \global\bidircol@copyinsskip\skip\@bidi@copyins@
11804   \global\skip\@bidi@copyins@\z@
11805   \global\count\@bidi@copyins@\z@
11806   \global\dimen\@bidi@copyins@\textheight}
11807
11808 \newskip\bidircol@copyinsskip
11809
11810 \def\LTR@outputdblcol{%
11811   \if@firstcolumn
11812     \global\@firstcolumnfalse
11813     \global\setbox\@leftcolumn\copy\@outputbox
11814     \global\count\footins\@m
11815     \global\skip\footins\rcol@footinsskip
11816     \global\count\@bidi@copyins@\@m
11817     \global\skip\@bidi@copyins@\bidircol@copyinsskip
11818     \splitmaxdepth\maxdimen
11819     \vbadness\maxdimen
11820     \setbox\@outputbox\vbox{\unvbox\@outputbox\unskip}%
11821     \setbox\@outputbox\vsplit\@outputbox to\maxdimen
11822     \toks@\expandafter{\topmark}%
11823     \xdef\@firstcoltopmark{\the\toks@}%
11824     \toks@\expandafter{\splitfirstmark}%
11825     \xdef\@firstcolfirstmark{\the\toks@}%
11826     \ifx\@firstcolfirstmark\@empty
11827       \global\let\@setmarks\relax
11828     \else
11829       \gdef\@setmarks{%
11830         \let\firstmark\@firstcolfirstmark
11831         \let\topmark\@firstcoltopmark}%
11832     \fi
11833   \else
11834     \preparefootins
11835     \prepare@bidi@copyins
11836     \global\@firstcolumntrue
11837     \setbox\@outputbox\vbox{%
11838       \hb@xt@\textwidth{%
11839         \hb@xt@\columnwidth{%
11840           \bidi@firstcolumn@status@write%
11841           \box\@leftcolumn \hss}%
11842         \hfil
11843         {\normalcolor\vrule \@width\columnseprule}%
11844         \hfil
11845         \hb@xt@\columnwidth{%
11846           \bidi@lastcolumn@status@write%
11847           \box\@outputbox \hss}}}%

```



```

11848 \@combinedblfloats
11849 \setmarks
11850 \@outputpage
11851 \begingroup
11852 \dblfloatplacement
11853 \@startdblcolumn
11854 \@whiles\if@fcolmade \fi{\@outputpage
11855 \startdblcolumn}%
11856 \endgroup
11857 \fi}%
11858
11859 \def\RTL@outputdblcol{%
11860 \if@firstcolumn
11861 \global\@firstcolumnfalse
11862 \global\setbox\@leftcolumn\copy\@outputbox
11863 \global\count\footins\@m
11864 \global\skip\footins\rcol@footinsskip
11865 \global\count\@bidi@copyins\@m
11866 \global\skip\@bidi@copyins\@bidi@rcol@copyinsskip
11867 \splitmaxdepth\maxdimen
11868 \vbadness\maxdimen
11869 \setbox\@outputbox\vbox{\unvbox\@outputbox\unskip}%
11870 \setbox\@outputbox\vsplit\@outputbox to\maxdimen
11871 \toks@\expandafter{\topmark}%
11872 \xdef\@firstcoltopmark{\the\toks@}%
11873 \toks@\expandafter{\splitfirstmark}%
11874 \xdef\@firstcolfirstmark{\the\toks@}%
11875 \ifx\@firstcolfirstmark\@empty
11876 \global\let\@setmarks\relax
11877 \else
11878 \gdef\@setmarks{%
11879 \let\firstmark\@firstcolfirstmark
11880 \let\topmark\@firstcoltopmark}%
11881 \fi
11882 \else
11883 \preparefootins
11884 \prepare@bidi@copyins
11885 \global\@firstcolumntrue
11886 \setbox\@outputbox\vbox{%
11887 \hb@xt@\textwidth{%
11888 \hskip \columnwidth
11889 \hfil
11890 {\normalcolor\vrule \@width\columnseprule}%
11891 \hfil
11892 \hb@xt@\columnwidth{%
11893 \bidi@firstcolumn@status@write%
11894 \box\@leftcolumn \hss}%
11895 \hskip -\textwidth
11896 \hb@xt@\columnwidth{%
11897 \bidi@lastcolumn@status@write%
11898 \box\@outputbox \hss}%
11899 \hskip \columnsep
11900 \hskip \columnwidth }}%
11901 \@combinedblfloats

```



```

11902 \setmarks
11903 \@outputpage
11904 \beginingroup
11905 \@dblfloatplacement
11906 \@startdblcolumn
11907 \@whiles\if@fcolmade \fi{\@outputpage
11908 \@startdblcolumn}%
11909 \endgroup
11910 \fi}%
11911
11912 \def\@startcolumn{%
11913 \ifx\@deferlist\@empty
11914 \global\@fcolmadefalse
11915 \global\@colroom\@colht
11916 \else
11917 \ifvoid\footins\else
11918 \ftn@amount\ht\footins
11919 \advance\ftn@amount\dp\footins
11920 \advance\ftn@amount\skip\footins
11921 \fi
11922 \ifvoid\@bidi@copyins\else
11923 \bidi@copyins@amount\ht\@bidi@copyins@
11924 \advance\bidi@copyins@amount\dp\@bidi@copyins@
11925 \advance\bidi@copyins@amount\skip\@bidi@copyins@
11926 \fi
11927 \global\advance\@colht-\ftn@amount
11928 \global\advance\@colht-\bidi@copyins@amount
11929 \global\@colroom\@colht
11930 \xstartcol
11931 \global\advance\@colht\ftn@amount
11932 \global\advance\@colroom\ftn@amount
11933 \global\advance\@colht\bidi@copyins@amount
11934 \global\advance\@colroom\bidi@copyins@amount
11935 \fi
11936 \if@fcolmade
11937 \setbox\@cclv\box\@outputbox
11938 \makecol
11939 \else
11940 \ifvoid\footins\else
11941 \insert\footins{\unvbox\footins}\fi
11942 \ifvoid\@bidi@copyins\else
11943 \insert\@bidi@copyins{\unvbox\@bidi@copyins}\fi
11944 \fi}
11945
11946 \newdimen\bidi@copyins@amount
11947
11948 \def\@makecol{\if@firstcolumn
11949 \setbox\@outputbox\box\@cclv
11950 \if@twocolumn \else
11951 \ifvoid\footins \else
11952 \@latexerr{ftnright package
11953 used in one-column mode}}%
11954 {The ftnright package was designed to
11955 work with LaTeX's standard~Jtwocolumn

```



```

11956 option. It does *not* work with the
11957 multicol package.^^JSo please specify
11958 `twocolumn' in the
11959 \noexpand\documentclass command.}%
11960 \shipout\box\footins \fi
11961 \ifvoid\@bidi@copyins@ \else
11962 \latexerr{ftnright package
11963 used in one-column mode}%
11964 {The ftnright package was designed to
11965 work with LaTeX's standard^^Jtwocolumn
11966 option. It does *not* work with the
11967 multicol package.^^JSo please specify
11968 `twocolumn' in the
11969 \noexpand\documentclass command.}%
11970 \shipout\box\@bidi@copyins@ \fi\fi
11971 \ifnum\insertpenalties>\z@
11972 \latexerr{ftnright package
11973 scrambled footnotes}%
11974 {There is too much footnote material in
11975 the first column and ftnright^^Jis
11976 unable to cope with this.^^JYou need
11977 to reduce the amount to get a properly
11978 formatted page.}%
11979 \fi
11980 \else
11981 \ifvoid\footins
11982 \ifvoid\@bidi@copyins@
11983 \setbox\@outputbox\box\@cclv
11984 \else
11985 \setbox\@outputbox\vbox
11986 {\ifvoid\@cclv \else
11987 \unvbox\@cclv
11988 \vskip \skip\@bidi@copyins@
11989 \fi
11990 \color@begingroup
11991 \normalcolor
11992 \unvbox \@bidi@copyins@
11993 \color@endgroup}%
11994 \fi
11995 \else
11996 \setbox\@outputbox\vbox
11997 {\ifvoid\@cclv \else
11998 \unvbox\@cclv
11999 \vskip\skip\footins\fi
12000 \color@begingroup
12001 \normalcolor
12002 \footnoterule\unvbox\footins
12003 \color@endgroup
12004 \ifvoid\@bidi@copyins@
12005 \else
12006 \vskip \skip\@bidi@copyins@
12007 \color@begingroup
12008 \normalcolor
12009 \unvbox \@bidi@copyins@

```



```

12010         \color@endgroup
12011     \fi
12012 }%
12013 \fi
12014 \fi
12015 \xdef\@freelist{\@freelist\@midlist}%
12016 \global \let \@midlist \@empty
12017 \@combinefloats
12018 \ifvbox\@kludgeins
12019     \@makespecialcolbox
12020 \else
12021     \setbox\@outputbox\vbox to\@colht
12022     {\boxmaxdepth\maxdepth
12023     \@texttop
12024     \@tempdima\dp\@outputbox
12025     \unvbox\@outputbox
12026     \vskip-\@tempdima
12027     \@textbottom}%
12028 \fi
12029 \global\maxdepth\@maxdepth}
12030
12031 \let\leftfootnoterule\@empty
12032 \let\rightfootnoterule\@empty
12033 \let\textwidthfootnoterule\@empty
12034 \let\autofootnoterule\@empty
12035 \let\footnoterule\@empty
12036 \long\def\@makefnmark#1{\parindent 1em
12037     \noindent\hbox to 2em{}}%
12038     \llap{\@thefnmark\hbox{.}\,\,\,}#1}
12039
12040 \setlength{\skip\@bidi@copyins@}
12041         {10pt plus 5pt minus 3pt}
12042 \AtBeginDocument{\prepare@bidi@copyins}

```

## 67 File graphicx-xetex-bidi.def

```

12043 \ProvidesFile{graphicx-xetex-bidi.def}[2017/06/17 v0.5 bidi adaptations for graphicx package]
12044 \def\Grot@box@std#1#2{\ifmmode\else\if@RTL\beginL\fi\fi%
12045     \Grot@setangle{#1}%
12046     \setbox\z@\hbox{\ifmmode\if@RTL\beginR\fi#2\if@RTL\endR\fi\else\if@RTL\beginR\fi#2\if@RTL\endR\fi}%
12047     \Grot@x\z@
12048     \Grot@y\z@
12049     \Grot@box\ifmmode\else\if@RTL\endL\fi\fi}
12050 \long\def\Grot@box@kv[#1]#2#3{\ifmmode\else\if@RTL\beginL\fi\fi%
12051     \@begin@tempboxa\hbox{\ifmmode\if@RTL\beginR\fi#3\if@RTL\endR\fi\else\if@RTL\beginR\fi#3\if@RTL\endR\fi}%
12052     \Grot@x\width \divide\Grot@x\tw@
12053     \Grot@y\height \advance\Grot@y-\depth \divide\Grot@y\tw@
12054     \setkeys{Grot}{#1}%
12055     \setbox\z@\box\@tempboxa
12056     \Grot@setangle{#2}%
12057     \Grot@box\ifmmode\else\if@RTL\endL\fi\fi
12058     \@end@tempboxa}
12059 \long\def\Gscale@box#1[#2]#3{\ifmmode\else\if@RTL\beginL\fi\fi%
12060     \leavevmode

```



```

12061 \def\Gscale@x{#1}\def\Gscale@y{#2}%
12062 \setbox\z@\hbox{#{#3}}%
12063 \setbox\tw@\hbox{\Gscale@start\rlap{\copy\z@}\Gscale@end}%
12064 \ifdim#2\p@<\z@
12065 \ht\tw@-#2\dp\z@
12066 \dp\tw@-#2\ht\z@
12067 \else
12068 \ht\tw@#2\ht\z@
12069 \dp\tw@#2\dp\z@
12070 \fi
12071 \ifdim#1\p@<\z@
12072 \hb@xt@-#1\wd\z@{\kern-#1\wd\z@\box\tw@hss}%
12073 \else
12074 \wd\tw@#1\wd\z@
12075 \box\tw@
12076 \fi\ifmmode\else\if@RTL\endL\fi\fi}
12077 \def\Gin@iii[#1,#2][#3,#4]#5{%
12078 \begingroup
12079 \ifmmode\else\if@RTL\beginL\fi\fi
12080 \Gin@bboxtrue
12081 \Gin@defaultbp\Gin@llx{#1}%
12082 \Gin@defaultbp\Gin@lly{#2}%
12083 \Gin@defaultbp\Gin@urx{#3}%
12084 \Gin@defaultbp\Gin@ury{#4}%
12085 \Gin@include@graphics{#5}%
12086 \ifmmode\else\if@RTL\endL\fi\fi
12087 \endgroup}
12088 \def\Gin@ii[#1]#2{%
12089 \def\@tempa{[]}\def\@tempb{#2}%
12090 \ifx\@tempa\@tempb
12091 \def\@tempa{\Gin@iii[#1] []}%
12092 \expandafter\@tempa
12093 \else
12094 \begingroup
12095 \ifmmode\else\if@RTL\beginL\fi\fi
12096 \@tempswafalse
12097 \toks@{\Gin@include@graphics{#2}}%
12098 \setkeys{Gin}{#1}%
12099 \Gin@esetsize
12100 \the\toks@
12101 \ifmmode\else\if@RTL\endL\fi\fi
12102 \endgroup
12103 \fi}
12104 \def\reflectbox{\bidiGscale@box-1[1]}
12105 \long\def\bidiGscale@box#1[#2]#3{\ifmmode\else\if@RTL\beginL\fi\fi%
12106 \leavevmode
12107 \def\Gscale@x{#1}\def\Gscale@y{#2}%
12108 \setbox\z@\hbox{\ifmmode\if@RTL\beginR\fi#3\if@RTL\endR\fi\else\if@RTL\beginR\fi#3\if@RTL\endR\fi}%
12109 \setbox\tw@\hbox{\Gscale@start\rlap{\copy\z@}\Gscale@end}%
12110 \ifdim#2\p@<\z@
12111 \ht\tw@-#2\dp\z@
12112 \dp\tw@-#2\ht\z@
12113 \else
12114 \ht\tw@#2\ht\z@

```





```

12115 \dp\tw@#2\dp\z@
12116 \fi
12117 \ifdim#1\p@<\z@
12118 \hb@xt@-#1\wd\z@{\kern-#1\wd\z@\box\tw@hss}%
12119 \else
12120 \wd\tw@#1\wd\z@
12121 \box\tw@
12122 \fi\ifmmode\else\ifRTL\endL\fi\fi}
12123 \def\scalebox#1{%
12124 \@ifnextchar[{\bidiGscale@box{#1}}{\bidiGscale@box{#1}[#1]}}
12125 \def\resizebox{%
12126 \leavevmode
12127 \@ifstar{\bidiGscale@@box\totalheight}{\bidiGscale@@box\height}}
12128 \def\bidiGscale@@box#1#2#3{%
12129 \let@tempa\Gin@exclamation
12130 \expandafter\def\expandafter\@tempb\expandafter{\string#2}%
12131 \expandafter\def\expandafter\@tempc\expandafter{\string#3}%
12132 \ifx\@tempb\@tempa
12133 \ifx\@tempc\@tempa
12134 \toks@{\mbox}%
12135 \else
12136 \toks@{\bidiGscale@box@dd{#3}#1}%
12137 \fi
12138 \else
12139 \ifx\@tempc\@tempa
12140 \toks@{\bidiGscale@box@dd{#2}\width}%
12141 \else
12142 \toks@{\bidiGscale@box@ddd{#2}\width{#3}#1}%
12143 \fi
12144 \fi
12145 \the\toks@}
12146 \long\def\bidiGscale@box@dd#1#2#3{%
12147 \@begin@tempboxa\hbox{\ifmmode\ifRTL\beginR\fi#3\ifRTL\endR\fi\else\ifRTL\beginR\fi#3\ifRTL\endR\fi}%
12148 \setlength\@tempdima{#1}%
12149 \setlength\@tempdimb{#2}%
12150 \Gscale@div\@tempa\@tempdima\@tempdimb
12151 \Gscale@box\@tempa[\@tempa]{\box\@tempboxa}%
12152 \@end@tempboxa}
12153 \long\def\bidiGscale@box@ddd#1#2#3#4#5{%
12154 \@begin@tempboxa\hbox{\ifmmode\ifRTL\beginR\fi#5\ifRTL\endR\fi\else\ifRTL\beginR\fi#5\ifRTL\endR\fi}%
12155 \setlength\@tempdima{#1}%
12156 \setlength\@tempdimb{#2}%
12157 \Gscale@div\@tempa\@tempdima\@tempdimb
12158 \setlength\@tempdima{#3}%
12159 \setlength\@tempdimb{#4}%
12160 \Gscale@div\@tempb\@tempdima\@tempdimb
12161 \ifGin@iso
12162 \ifdim\@tempa\p@>\@tempb\p@
12163 \let@tempa\@tempb
12164 \else
12165 \let\@tempb\@tempa
12166 \fi
12167 \fi
12168 \Gscale@box\@tempa[\@tempb]{\box\@tempboxa}%

```



```
12169 \end@tempboxa}
```

## 68 File geometry-xetex-bidi.def

```
12170 \ProvidesFile{geometry-xetex-bidi.def}[2017/01/14 v0.2 bidi adaptations for geometry package]
12171 \renewcommand*{\Gm@vrules@mpi}{%
12172 \if@RTLmain%
12173     \hb@xt@{\@tempdima{\hskip-\marginparwidth\hskip-\marginparsep
12174     \llap{\Gm@vrule}\ignorespaces
12175     \hskip \marginparwidth\rlap{\Gm@vrule}\hskip \marginparsep
12176     \llap{\Gm@vrule}\hskip\textwidth\rlap{\Gm@vrule}\hss}%
12177 \else%
12178 \hb@xt@{\@tempdima{\llap{\Gm@vrule}\ignorespaces
12179 \hskip \textwidth\Gm@vrule\hskip \marginparsep
12180 \llap{\Gm@vrule}\hfil\Gm@vrule}\fi}%
12181 \renewcommand*{\Gm@vrules@mpii}{%
12182 \if@RTLmain%
12183 \hb@xt@{\@tempdima{\llap{\Gm@vrule}\ignorespaces
12184 \hskip \textwidth\Gm@vrule\hskip \marginparsep
12185 \llap{\Gm@vrule}\hfil\Gm@vrule}%
12186 \else%
12187 \hb@xt@{\@tempdima{\hskip-\marginparwidth\hskip-\marginparsep
12188 \llap{\Gm@vrule}\ignorespaces
12189 \hskip \marginparwidth\rlap{\Gm@vrule}\hskip \marginparsep
12190 \llap{\Gm@vrule}\hskip\textwidth\rlap{\Gm@vrule}\hss}\fi}%
12191 \bidi@patchcmd{\Gm@pageframes}{%
12192     \ifodd\count\z@
12193     \let\@themargin\oddsidemargin
12194     \else
12195     \let\@themargin\evensidemargin
12196     \fi
12197 }{%
12198     \ifodd\count\z@
12199     \if@RTLmain
12200     \let\@themargin\evensidemargin
12201     \else
12202     \let\@themargin\oddsidemargin
12203     \fi
12204     \else
12205     \if@RTLmain
12206     \let\@themargin\oddsidemargin
12207     \else
12208     \let\@themargin\evensidemargin
12209     \fi
12210     \fi
12211 }{}{}
```

## 69 File hvfloat-xetex-bidi.def

```
12212 \ProvidesFile{hvfloat-xetex-bidi.def}[2012/04/18 v0.2 bidi adaptations for hvfloat package]
12213 \def\do@hvFloat[#1]#2#3{%
12214 \def\hv@shortCap{#1}
12215 \def\hv@longCap{#2}
12216 \def\hv@label{#3}
```



```

12217 %\newcommand*{\hvFloat}[5][{}]{%
12218 % [#1]: keyvalues
12219 % #2: type figure | table | ...
12220 % #3: float contents
12221 % [#4]: short caption
12222 % #5: caption
12223 % #6: label
12224 % \setDefault%
12225 % \def\@tempa{#1}%
12226 % \ifx\@tempa\empty\else\setkeys{hvSet}{#1}\fi% set options, only when not empty
12227 % \def\@tempa{90}%
12228 % \ifx\hvSet@rotAngle\@tempa \setlength{\hvMaxCapWidth}{\textheight}
12229 % \else \setlength{\hvMaxCapWidth}{\linewidth}
12230 % \fi
12231 %
12232 % First we save the object in \hvObjectBox
12233 %
12234 % \ifx\hvSet@objectAngle\hv@Zero % rotate the object?
12235 % \savebox{\hvObjectBox}{\ifhv@useOBox\usebox{\hvOBox}\else\hv@floatObject\fi}
12236 % \else
12237 % \savebox{\hvObjectBox}{%
12238 % \rotatebox{\hvSet@objectAngle}{%
12239 % \ifhv@useOBox\usebox{\hvOBox}\else\hv@floatObject\fi}}
12240 % \fi
12241 % \setlength{\hvObjectWidth}{\wd\hvObjectBox}
12242 %
12243 % Now we save the caption with its defined \hvCapWidth
12244 %
12245 % \ifx\hvSet@capWidth\hv@Width\setlength{\hvCapWidth}{\hvObjectWidth}
12246 % \else
12247 % \ifx\hvSet@capWidth\hv@Height\setlength{\hvCapWidth}{\ht\hvObjectBox}
12248 % \else
12249 % \setlength{\hvCapWidth}{\hvObjectWidth}
12250 % \ifx\hvSet@capPos\hv@Left\addtolength{\hvMaxCapWidth}{-\hvObjectWidth}\fi
12251 % \ifx\hvSet@capPos\hv@Right\addtolength{\hvMaxCapWidth}{-\hvObjectWidth}\fi
12252 % \ifdim\hvSet@capWidth\columnwidth<\hvMaxCapWidth
12253 % \setlength{\hvCapWidth}{\hvSet@capWidth\columnwidth}
12254 % \else
12255 % \setlength{\hvCapWidth}{\hvMaxCapWidth}
12256 % \fi
12257 % \fi
12258 % \fi
12259 %
12260 % now we have the object and the caption with the right
12261 % rotated angles saved in boxes
12262 %
12263 % \def\fps@figure{\hvSet@floatPos}
12264 % \ifhv@nonFloat\begin@group% Start the nonfloat part
12265 % \else \begin{\hv@floatType}% Start the floating environment
12266 % \fi%
12267 % \saveCaptionSkip% we put this space ourselves
12268 % \ifx\hvSet@capAngle\hv@Width % need rotation?
12269 % \sbox{\hvCaptionBox}{%
12270 % \begin{minipage}[b]{\hvCapWidth}% minipage, to get hyphenation

```



```

12271         \ifhv@nonFloat%
12272 \ifhv@onlyText#2%
12273     \else%
12274         \ifx\hv@floatType\hv@figure
12275         \ifx\relax#1\relax \figcaption{#2}\else\figcaption[#1]{#2}\fi
12276     \else
12277         \ifx\relax#1\relax \tabcaption{#2}\else\tabcaption[#1]{#2}\fi%
12278     \fi
12279 \fi
12280 \else\ifx\relax\hv@shortCap\relax\caption{#2}\else\caption[#1]{#2}\fi%
12281 \fi%
12282 \label{#3}%
12283     \end{minipage}%
12284 }%
12285 \else%
12286     \sbox{\hvCaptionBox}{%
12287         \rotatebox{\hvSet@capAngle}{%
12288             \begin{minipage}[b]{\hvCapWidth}% minipage, to get hyphenation
12289 \ifhv@nonFloat%
12290         \ifhv@onlyText#2%
12291         \else%
12292         \ifx\hv@floatType\hv@figure
12293         \ifx\relax#1\relax \figcaption{#2}\else\figcaption[#1]{#2}\fi
12294     \else
12295         \ifx\relax#1\relax \tabcaption{#2}\else\tabcaption[#1]{#2}\fi%
12296     \fi
12297 \fi
12298 \else\ifx\relax\hv@shortCap\relax\caption{#2}\else\caption[#1]{#2}\fi%
12299     \fi%
12300     \label{#3}%
12301     \end{minipage}%
12302 }%
12303 }%
12304 \fi%
12305 %%
12306 \restoreCaptionSkip% save old values
12307 \ifx\hvSet@objectPos\hv@Right\bidiraggedleft%
12308 \else%
12309     \ifx\hvSet@objectPos\hv@Center
12310     \ifhv@nonFloat\hspace*{\fill}\else\centering\fi%
12311     \fi%
12312 \fi%
12313 %
12314 % to rotate object and caption together, we save all in another box
12315 % the caption comes first, if its on the left or the top
12316 %
12317 \savebox{\@tempboxa}{%
12318     \ifx\hvSet@capPos\hv@Left % caption on left side
12319 \if@RTL%
12320 \ifx\hvSet@capVPos\hv@Center%
12321 \ifhv@fbox
12322 \fbox{\parbox{\wd\hvObjectBox}{\usebox{\hvObjectBox}}}
12323 \else
12324 \parbox{\wd\hvObjectBox}{\usebox{\hvObjectBox}}

```



```

12325 \fi%
12326 \hspace{\hvSet@floatCapSep pt}%
12327 \ifhv@fbox
12328 \fbox{\parbox{\wd\hvCaptionBox}{\usebox{\hvCaptionBox}}}%
12329 \else
12330 \parbox{\wd\hvCaptionBox}{\usebox{\hvCaptionBox}}
12331 \fi%
12332 \else%
12333 \ifx\hvSet@capVPos\hv@Top
12334 \ifhv@fbox
12335 \fbox{\raisebox{-\height}{\usebox{\hvObjectBox}}}%
12336 \else
12337 \raisebox{-\height}{\usebox{\hvObjectBox}}%
12338 \fi%
12339 \hspace{\hvSet@floatCapSep pt}%
12340 \ifhv@fbox
12341 \fbox{\raisebox{-\height}{\usebox{\hvCaptionBox}}}%
12342 \else
12343 \raisebox{-\height}{\usebox{\hvCaptionBox}}%
12344 \fi
12345 \else
12346 \ifhv@fbox
12347 \fbox{\usebox{\hvObjectBox}}%
12348 \else
12349 \usebox{\hvObjectBox}%
12350 \fi
12351 \hspace{\hvSet@floatCapSep pt}%
12352 \ifhv@fbox
12353 \fbox{\usebox{\hvCaptionBox}}%
12354 \else
12355 \usebox{\hvCaptionBox}%
12356 \fi%
12357 \fi%
12358 \fi%
12359 \else% not RTL
12360 \ifx\hvSet@capVPos\hv@Center%
12361 \ifhv@fbox\fbox{\parbox{\wd\hvCaptionBox}{\usebox{\hvCaptionBox}}}%
12362 \else \parbox{\wd\hvCaptionBox}{\usebox{\hvCaptionBox}}%
12363 \fi%
12364 \hspace{\hvSet@floatCapSep pt}% capfloatsep
12365 \ifhv@fbox\fbox{\parbox{\wd\hvObjectBox}{\usebox{\hvObjectBox}}}%
12366 \else \parbox{\wd\hvObjectBox}{\usebox{\hvObjectBox}}
12367 \fi%
12368 \else%
12369 \ifx\hvSet@capVPos\hv@Top % caption at top
12370 \ifhv@fbox\fbox{\raisebox{-\height}{\usebox{\hvCaptionBox}}}%
12371 \else \raisebox{-\height}{\usebox{\hvCaptionBox}}%
12372 \fi
12373 \hspace{\hvSet@floatCapSep pt}% capfloatsep
12374 \ifhv@fbox\fbox{\raisebox{-\height}{\usebox{\hvObjectBox}}}%
12375 \else \raisebox{-\height}{\usebox{\hvObjectBox}}%
12376 \fi%
12377 \else% caption on bottom
12378 \ifhv@fbox\fbox{\usebox{\hvCaptionBox}}

```



```

12379             \else\usebox{\hvCaptionBox}
12380             \fi%
12381             \hspace{\hvSet@floatCapSep pt}%
12382             \ifhv@fbox\fbbox{\usebox{\hvObjectBox}}
12383             \else      \usebox{\hvObjectBox}
12384             \fi%
12385     \fi%
12386 \fi% end of RTL
12387 \fi%
12388 \else
12389 \ifx\hvSet@capPos\hv@Top
12390 \ifdim\wd\hvCaptionBox>\wd\hvObjectBox
12391 \begin{minipage}{\wd\hvCaptionBox}
12392 \else
12393 \begin{minipage}{\wd\hvObjectBox}
12394 \fi
12395 \centering
12396 \ifhv@fbox
12397 \fbbox{\usebox{\hvCaptionBox}}\[\hvBelowCaptionSkip]
12398 \fbbox{\usebox{\hvObjectBox}}
12399 \else
12400 \usebox{\hvCaptionBox}\[\hvBelowCaptionSkip]
12401 \usebox{\hvObjectBox}
12402 \fi%
12403 \end{minipage}
12404 \else
12405 \ifx\hvSet@capPos\hv@Bottom
12406 \ifdim\wd\hvCaptionBox>\wd\hvObjectBox
12407 \begin{minipage}{\wd\hvCaptionBox}
12408 \else
12409 \begin{minipage}{\wd\hvObjectBox}
12410 \fi
12411 \centering
12412 \ifhv@fbox
12413 \fbbox{\usebox{\hvObjectBox}}\[\hvAboveCaptionSkip]
12414 \fbbox{\usebox{\hvCaptionBox}}
12415 \else
12416 \usebox{\hvObjectBox}\[\hvAboveCaptionSkip]
12417 \usebox{\hvCaptionBox}
12418 \fi%
12419 \end{minipage}
12420 \else% the last option: put the caption on the right
12421 \if@RTL%
12422     \ifx\hvSet@capVPos\hv@Center%
12423     \ifhv@fbox\fbbox{\parbox{\wd\hvCaptionBox}{\usebox{\hvCaptionBox}}}%
12424     \else      \parbox{\wd\hvCaptionBox}{\usebox{\hvCaptionBox}}%
12425     \fi%
12426     \hspace{\hvSet@floatCapSep pt}% capfloatsep
12427     \ifhv@fbox\fbbox{\parbox{\wd\hvObjectBox}{\usebox{\hvObjectBox}}}
12428     \else      \parbox{\wd\hvObjectBox}{\usebox{\hvObjectBox}}
12429     \fi%
12430 \else%
12431     \ifx\hvSet@capVPos\hv@Top % caption at top
12432     \ifhv@fbox\fbbox{\raisebox{-\height}{\usebox{\hvCaptionBox}}}%

```



```

12433     \else      \raisebox{-\height}{\usebox{\hvCaptionBox}}%
12434     \fi
12435     \hspace{\hvSet@floatCapSep pt}% capfloatsep
12436     \ifhv@fbox\fbbox{\raisebox{-\height}{\usebox{\hvObjectBox}}}%
12437     \else      \raisebox{-\height}{\usebox{\hvObjectBox}}%
12438     \fi%
12439     \else% caption on bottom
12440     \ifhv@fbox\fbbox{\usebox{\hvCaptionBox}}
12441     \else\usebox{\hvCaptionBox}
12442     \fi%
12443     \hspace{\hvSet@floatCapSep pt}%
12444     \ifhv@fbox\fbbox{\usebox{\hvObjectBox}}
12445     \else      \usebox{\hvObjectBox}
12446     \fi%
12447     \fi%
12448     \fi%
12449     \else% not RTL
12450     \ifx\hvSet@capVPos\hv@Center%
12451     \ifhv@fbox
12452     \fbbox{\parbox{\wd\hvObjectBox}{\usebox{\hvObjectBox}}}
12453     \else
12454     \parbox{\wd\hvObjectBox}{\usebox{\hvObjectBox}}
12455     \fi%
12456     \hspace{\hvSet@floatCapSep pt}%
12457     \ifhv@fbox
12458     \fbbox{\parbox{\wd\hvCaptionBox}{\usebox{\hvCaptionBox}}}%
12459     \else
12460     \parbox{\wd\hvCaptionBox}{\usebox{\hvCaptionBox}}
12461     \fi%
12462     \else%
12463     \ifx\hvSet@capVPos\hv@Top
12464     \ifhv@fbox
12465     \fbbox{\raisebox{-\height}{\usebox{\hvObjectBox}}}%
12466     \else
12467     \raisebox{-\height}{\usebox{\hvObjectBox}}%
12468     \fi%
12469     \hspace{\hvSet@floatCapSep pt}%
12470     \ifhv@fbox
12471     \fbbox{\raisebox{-\height}{\usebox{\hvCaptionBox}}}%
12472     \else
12473     \raisebox{-\height}{\usebox{\hvCaptionBox}}%
12474     \fi
12475     \else
12476     \ifhv@fbox
12477     \fbbox{\usebox{\hvObjectBox}}%
12478     \else
12479     \usebox{\hvObjectBox}%
12480     \fi
12481     \hspace{\hvSet@floatCapSep pt}%
12482     \ifhv@fbox
12483     \fbbox{\usebox{\hvCaptionBox}}%
12484     \else
12485     \usebox{\hvCaptionBox}%
12486     \fi%

```



```

12487 \fi%
12488 \fi
12489 \fi% end of RTL
12490 \fi
12491 \fi
12492 \fi
12493 }% End savebox Object and caption
12494 %
12495 % now we rotate the object and caption, if needed
12496 %
12497 \ifx\hvSet@rotAngle\hv@Zero
12498 \usebox{\@tempboxa}
12499 \else
12500 \rotatebox{\hvSet@rotAngle}{\usebox{\@tempboxa}}
12501 \fi
12502 \ifhv@nonFloat
12503 \ifx\hvSet@objectPos\hv@Center
12504 \ifhv@nonFloat
12505 \hspace{\fill}
12506 \fi
12507 \fi
12508 \endgroup% End the nonfloat part
12509 \else
12510 \end{\hv@floatType}% End the floating environment
12511 \fi
12512 }

```

## 70 File hyperref-xetex-bidi.def

```

12513 \ProvidesFile{hyperref-xetex-bidi.def}[2018/11/11 v1.1 bidi adaptations for hyperref package]
12514 \AtBeginDocument{%
12515 \def\contentsline#1#2#3#4{%
12516   \ifx\#4\%
12517     \csname l@#1\endcsname{#2}{#3}%
12518   \else
12519     \ifcase\Hy@linktoc % none
12520       \csname l@#1\endcsname{#2}{#3}%
12521     \or % section
12522       \csname l@#1\endcsname{%
12523         \hyper@linkstart{link}{#4}{\if@RTL\beginR\fi#2\if@RTL\endR\fi}\hyper@linkend
12524       }{#3}%
12525     \or % page
12526       \csname l@#1\endcsname{#2}{#3}%
12527       \hyper@linkstart{link}{#4}{#3}\hyper@linkend
12528     }%
12529   \else % all
12530     \csname l@#1\endcsname{%
12531       \hyper@linkstart{link}{#4}{\if@RTL\beginR\fi#2\if@RTL\endR\fi}\hyper@linkend
12532     }{#3}%
12533     \hyper@linkstart{link}{#4}{#3}\hyper@linkend
12534   }%
12535   \fi
12536 \fi
12537 }

```





```

12538 \ifHy@hyperfootnotes
12539   \let\H@@footnotetext\@footnotetext
12540   \let\HRTL@RTLfootnotetext\RTLfootnotetext
12541   \let\HLTR@LTRfootnotetext\LTRfootnotetext
12542   \def\@xfootnotenext[#1]{%
12543     \begingroup
12544       \csname c@\@mpfn\endcsname #1\relax
12545       \unrestored@protected@xdef\@thefnmark{\thempfn}%
12546     \endgroup
12547     \ifx\@footnotetext\@mpfootnotetext
12548       \expandafter\H@@mpfootnotetext
12549     \else
12550       \expandafter\H@@footnotetext
12551     \fi
12552   }%
12553   \def\@xRTLfootnotenext[#1]{%
12554     \begingroup
12555       \csname c@\@mpfn\endcsname #1\relax
12556       \unrestored@protected@xdef\@thefnmark{\thempfn}%
12557     \endgroup
12558     \ifx\RTLfootnotetext\@mpRTLfootnotetext
12559       \expandafter\HRTL@mpRTLfootnotetext
12560     \else
12561       \expandafter\HRTL@RTLfootnotetext
12562     \fi
12563   }%
12564   \def\@xLTRfootnotenext[#1]{%
12565     \begingroup
12566       \csname c@\@mpfn\endcsname #1\relax
12567       \unrestored@protected@xdef\@thefnmark{\thempfn}%
12568     \endgroup
12569     \ifx\LTRfootnotetext\@mpLTRfootnotetext
12570       \expandafter\HLTR@mpLTRfootnotetext
12571     \else
12572       \expandafter\HLTR@LTRfootnotetext
12573     \fi
12574   }%
12575   \def\@xfootnotemark[#1]{%
12576     \begingroup
12577       \c@footnote #1\relax
12578       \unrestored@protected@xdef\@thefnmark{\thefootnote}%
12579     \endgroup
12580     \H@@footnotemark
12581   }%
12582   \let\H@@mpfootnotetext\@mpfootnotetext
12583   \let\HRTL@mpRTLfootnotetext\@mpRTLfootnotetext
12584   \let\HLTR@mpLTRfootnotetext\@mpLTRfootnotetext
12585   \long\def\@mpfootnotetext#1{%
12586     \H@@mpfootnotetext{%
12587       \ifHy@nesting
12588         \hyper@@anchor{\Hy@footnote@currentHref}{#1}%
12589       \else
12590         \Hy@raisedlink{%
12591           \hyper@@anchor{\Hy@footnote@currentHref}{\relax}%

```



```

12592         }#1%
12593     \fi
12594 }%
12595 }%
12596 \long\def\@mpRTLfootnotetext#1{%
12597     \HRTL@mpRTLfootnotetext{%
12598         \ifHy@nesting
12599             \hyper@@anchor{\Hy@footnote@currentHref}{#1}%
12600         \else
12601             \Hy@raisedlink{%
12602                 \hyper@@anchor{\Hy@footnote@currentHref}{\relax}%
12603             }#1%
12604         \fi
12605     }%
12606 }%
12607 \long\def\@mpLTRfootnotetext#1{%
12608     \HLTR@mpLTRfootnotetext{%
12609         \ifHy@nesting
12610             \hyper@@anchor{\Hy@footnote@currentHref}{#1}%
12611         \else
12612             \Hy@raisedlink{%
12613                 \hyper@@anchor{\Hy@footnote@currentHref}{\relax}%
12614             }#1%
12615         \fi
12616     }%
12617 }%
12618 \long\def\@footnotetext#1{%
12619     \H@footnotetext{%
12620         \ifHy@nesting
12621             \hyper@@anchor{\Hy@footnote@currentHref}{#1}%
12622         \else
12623             \Hy@raisedlink{%
12624                 \hyper@@anchor{\Hy@footnote@currentHref}{\relax}%
12625             }%
12626             \let\@currentHlabel\Hy@footnote@currentHlabel
12627             \let\@currentHref\Hy@footnote@currentHref
12628             \let\@currentlabelname\@empty
12629             #1%
12630         \fi
12631     }%
12632 }%
12633 \long\def\@RTLfootnotetext#1{%
12634     \HRTL@RTLfootnotetext{%
12635         \ifHy@nesting
12636             \hyper@@anchor{\Hy@footnote@currentHref}{#1}%
12637         \else
12638             \Hy@raisedlink{%
12639                 \hyper@@anchor{\Hy@footnote@currentHref}{\relax}%
12640             }%
12641             \let\@currentHlabel\Hy@footnote@currentHlabel
12642             \let\@currentHref\Hy@footnote@currentHref
12643             \let\@currentlabelname\@empty
12644             #1%
12645         \fi

```



```

12646 }%
12647 }%
12648 \long\def\@LTRfootnotetext#1{%
12649 \HLTR@@LTRfootnotetext{%
12650 \ifHy@nesting
12651 \hyper@@anchor{\Hy@footnote@currentHref}{#1}%
12652 \else
12653 \Hy@raisedlink{%
12654 \hyper@@anchor{\Hy@footnote@currentHref}{\relax}%
12655 }%
12656 \let\@currentHlabel\Hy@footnote@currentHlabel
12657 \let\@currentHref\Hy@footnote@currentHref
12658 \let\@currentlabelname\@empty
12659 #1%
12660 \fi
12661 }%
12662 }%
12663 \@ifpackageloaded{tabularx}{%
12664 \let\HyOrg@TX@endtabularx\TX@endtabularx
12665 \def\Hy@tabularx@hook{%
12666 \let\@footnotetext\H@@footnotetext
12667 \let\@LTRfootnotetext\HLTR@@LTRfootnotetext
12668 \let\@RTLfootnotetext\HRTL@@RTLfootnotetext
12669 \let\@footnotemark\H@@footnotemark
12670 \let\@mpfootnotetext\H@@mpfootnotetext
12671 \let\@mpLTRfootnotetext\HLTR@@mpLTRfootnotetext
12672 \let\@mpRTLfootnotetext\HRTL@@mpRTLfootnotetext
12673 }%
12674 \begingroup
12675 \toks@{\expandafter{\TX@endtabularx}}%
12676 \xdef\Hy@gtemp{%
12677 \noexpand\Hy@tabularx@hook
12678 \the\toks@
12679 }%
12680 \endgroup
12681 \let\TX@endtabularx\Hy@gtemp
12682 }{}%
12683 \@ifpackageloaded{longtable}{%
12684 \CheckCommand*{\LT@p@LTRftntext}[1]{%
12685 \edef\@tempa{%
12686 \the\LT@p@ftn
12687 \noexpand\LTRfootnotetext[\the\c@footnote]}%
12688 }%
12689 \global\LT@p@ftn\expandafter{\@tempa{#1}}%
12690 }%
12691 \long\def\LT@p@LTRftntext#1{%
12692 \edef\@tempa{%
12693 \the\LT@p@ftn
12694 \begingroup
12695 \noexpand\c@footnote=\the\c@footnote\relax
12696 \noexpand\protected@xdef\noexpand\@thefnmark{%
12697 \noexpand\thempfn
12698 }%
12699 \noexpand\Hy@LT@LTRfootnotetext{%

```



```

12700         \Hy@footnote@currentHref
12701     }%
12702 }%
12703 \global\LT@p@ftn\expandafter{%
12704     \@tempa{#1}%
12705 \endgroup
12706 }%
12707 }%
12708 \long\def\Hy@LT@LTRfootnotetext#1#2{%
12709 \HLTR@@LTRfootnotetext{%
12710     \ifHy@nesting
12711         \hyper@@anchor{#1}{#2}%
12712     \else
12713         \Hy@raisedlink{%
12714             \hyper@@anchor{#1}{\relax}%
12715         }%
12716         \def\@currentHref{#1}%
12717         \let\@currentlabelname\@empty
12718         #2%
12719     \fi
12720 }%
12721 }%
12722 \CheckCommand*{\LT@p@RTLftntext}[1]{%
12723     \edef\@tempa{%
12724         \the\LT@p@ftn
12725         \noexpand\RTLfootnotetext[\the\c@footnote]%
12726     }%
12727     \global\LT@p@ftn\expandafter{\@tempa{#1}}%
12728 }%
12729 \long\def\LT@p@RTLftntext#1{%
12730     \edef\@tempa{%
12731         \the\LT@p@ftn
12732     \begingroup
12733         \noexpand\c@footnote=\the\c@footnote\relax
12734         \noexpand\protected@xdef\noexpand\@thefnmark{%
12735             \noexpand\thempfn
12736         }%
12737         \noexpand\Hy@LT@RTLfootnotetext{%
12738             \Hy@footnote@currentHref
12739         }%
12740     }%
12741     \global\LT@p@ftn\expandafter{%
12742         \@tempa{#1}%
12743     \endgroup
12744 }%
12745 }%
12746 \long\def\Hy@LT@RTLfootnotetext#1#2{%
12747 \HRTL@@RTLfootnotetext{%
12748     \ifHy@nesting
12749         \hyper@@anchor{#1}{#2}%
12750     \else
12751         \Hy@raisedlink{%
12752             \hyper@@anchor{#1}{\relax}%
12753         }%

```



```

12754         \def\@currentHref{#1}%
12755         \let\@currentlabelname\@empty
12756         #2%
12757     \fi
12758 }%
12759 }%
12760 }{}%
12761 \@ifpackageloaded{bidipoem}{%
12762 \long\def\bidipoem@p@ftntext#1{%
12763     \edef\@tempxi{%
12764         \the\bidipoem@p@ftn
12765         \begin{group}
12766             \noexpand\csname c@\@mpfn\endcsname=\the\csname c@\@mpfn\endcsname\relax
12767             \noexpand\protected\edef\noexpand\@thefnmark{%
12768                 \noexpand\thempfn
12769             }%
12770             \noexpand\Hy@bidipoem@footnotetext{%
12771                 \Hy@footnote@currentHref
12772             }%
12773         }%
12774         \global\bidipoem@p@ftn\expandafter{%
12775             \@tempxi{#1}%
12776         \endgroup
12777     }%
12778 }%
12779 \long\def\Hy@bidipoem@footnotetext#1#2{%
12780     \H@@footnotetext{%
12781         \ifHy@nesting
12782             \hyper@@anchor{#1}{#2}%
12783         \else
12784             \Hy@raisedlink{%
12785                 \hyper@@anchor{#1}{\relax}%
12786             }%
12787             \def\@currentHref{#1}%
12788             \let\@currentlabelname\@empty
12789             #2%
12790         \fi
12791     }%
12792 }%
12793 \long\def\bidipoem@p@LTRftntext#1{%
12794     \edef\@tempxi{%
12795         \the\bidipoem@p@ftn
12796         \begin{group}
12797             \noexpand\csname c@\@mpfn\endcsname=\the\csname c@\@mpfn\endcsname\relax
12798             \noexpand\protected\edef\noexpand\@thefnmark{%
12799                 \noexpand\thempfn
12800             }%
12801             \noexpand\Hy@bidipoem@LTRfootnotetext{%
12802                 \Hy@footnote@currentHref
12803             }%
12804         }%
12805         \global\bidipoem@p@ftn\expandafter{%
12806             \@tempxi{#1}%
12807         \endgroup

```



```

12808     }%
12809 }%
12810 \long\def\Hy@bidipoem@LTRfootnotetext#1#2{%
12811   \HLTR@@LTRfootnotetext{%
12812     \ifHy@nesting
12813       \hyper@@anchor{#1}{#2}%
12814     \else
12815       \Hy@raisedlink{%
12816         \hyper@@anchor{#1}{\relax}%
12817       }%
12818       \def\@currentHref{#1}%
12819       \let\@currentlabelname\@empty
12820       #2%
12821     \fi
12822   }%
12823 }%
12824   \long\def\bidipoem@p@RTLftntext#1{%
12825   \edef\@tempxi{%
12826     \the\bidipoem@p@ftn
12827     \begingroup
12828       \noexpand\csname c@\@mpfn\endcsname=\the\csname c@\@mpfn\endcsname\relax
12829       \noexpand\protected@xdef\noexpand\@thefnmark{%
12830         \noexpand\thempfn
12831       }%
12832       \noexpand\Hy@bidipoem@RTLfootnotetext{%
12833         \Hy@footnote@currentHref
12834       }%
12835     }%
12836     \global\bidipoem@p@ftn\expandafter{%
12837       \@tempxi{#1}%
12838     \endgroup
12839   }%
12840 }%
12841 \long\def\Hy@bidipoem@RTLfootnotetext#1#2{%
12842   \HRTL@@RTLfootnotetext{%
12843     \ifHy@nesting
12844       \hyper@@anchor{#1}{#2}%
12845     \else
12846       \Hy@raisedlink{%
12847         \hyper@@anchor{#1}{\relax}%
12848       }%
12849       \def\@currentHref{#1}%
12850       \let\@currentlabelname\@empty
12851       #2%
12852     \fi
12853   }%
12854 }%
12855 }-}%
12856 \let\HyOrg@maketitle\maketitle
12857 \def\maketitle{%
12858   \let\Hy@saved@footnotemark\@footnotemark
12859   \let\Hy@saved@footnotetext\@footnotetext
12860   \let\HyRTL@saved@RTLfootnotetext\@RTLfootnotetext
12861   \let\HyLTR@saved@LTRfootnotetext\@LTRfootnotetext

```



```

12862 \let\@footnotemark\H@@footnotemark
12863 \let\@footnotetext\H@@footnotetext
12864 \let\@RTLfootnotetext\HRTL@@RTLfootnotetext
12865 \let\@LTRfootnotetext\HLTR@@LTRfootnotetext
12866 \@ifnextchar[\Hy@maketitle@optarg{% ]
12867 \HyOrg@maketitle
12868 \Hy@maketitle@end
12869 }%
12870 }%
12871 \def\Hy@maketitle@optarg[#1]{%
12872 \HyOrg@maketitle[{#1}]%
12873 \Hy@maketitle@end
12874 }%
12875 \def\Hy@maketitle@end{%
12876 \ifx\@footnotemark\H@@footnotemark
12877 \let\@footnotemark\Hy@saved@footnotemark
12878 \fi
12879 \ifx\@footnotetext\H@@footnotetext
12880 \let\@footnotetext\Hy@saved@footnotetext
12881 \fi
12882 \ifx\@RTLfootnotetext\HRTL@@RTLfootnotetext
12883 \let\@RTLfootnotetext\HyRTL@saved@RTLfootnotetext
12884 \fi
12885 \ifx\@LTRfootnotetext\HLTR@@LTRfootnotetext
12886 \let\@LTRfootnotetext\HyLTR@saved@LTRfootnotetext
12887 \fi
12888 }%
12889 \def\realfootnote{%
12890 \@ifnextchar[\@xfootnote{%
12891 \stepcounter{\@mpfn}%
12892 \protected@xdef\@thefnmark{\thempfn}%
12893 \H@@footnotemark\H@@footnotetext
12894 }%
12895 }%
12896 \fi
12897 \def\Hy@BeginAnnot#1{%
12898 \ifmmode\else\beginL\fi%
12899 \global\advance\c@Hy@AnnotLevel\@ne
12900 \ifnum\c@Hy@AnnotLevel=\@ne
12901 #1%
12902 \fi
12903 }
12904 \def\Hy@endAnnot{%
12905 \ifnum\c@Hy@AnnotLevel=\@ne
12906 \Hy@endcolorlink
12907 \@pdfmark{eann}%
12908 \fi
12909 \global\advance\c@Hy@AnnotLevel\m@ne
12910 \ifmmode\else\endL\fi%
12911 }
12912 \def\hyper@link#1#2#3{%
12913 \hyper@linkstart{#1}{#2}\ifmmode\else\if@RTL\beginR\fi\fi#3\ifmmode\else\if@RTL\endR\fi\fi
12914 }
12915 \def\hyper@linkfile#1#2#3{%

```



```

12916 \leavevmode
12917 \Hy@BeginAnnot{%
12918   \def\Hy@pstringF{#2}%
12919   \Hy@CleanupFile\Hy@pstringF
12920   \Hy@pstringdef\Hy@pstringF\Hy@pstringF
12921   \Hy@pstringdef\Hy@pstringD{#3}%
12922   \Hy@MakeRemoteAction
12923   \@pdfm@mark{%
12924     bann<<%
12925     /Type/Annot%
12926     /Subtype/Link%
12927     \ifHy@pdfa /F 4\fi
12928     \Hy@setpdfborder
12929     \ifx\@filebordercolor\relax
12930     \else
12931       /C[\@filebordercolor]%
12932     \fi
12933     /A<<%
12934     /S/GoToR%
12935     /F(\Hy@pstringF)%
12936     /D%
12937     \ifx\#3\%
12938       [\Hy@href@page\@pdfremotestartview]%
12939     \else
12940       (\Hy@pstringD)%
12941     \fi
12942     \Hy@SetNewWindow
12943     \Hy@href@nextactionraw
12944     >>%
12945   >>%
12946   }%
12947   \Hy@colorlink\@filecolor
12948 }%
12949 \ifmmode\else\ifRTL\beginR\fi\fi#1\ifmmode\else\ifRTL\endR\fi\fi\Hy@xspace@end
12950 \Hy@endAnnot
12951 }
12952 \def\@hyper@launch run:#1\#2#3{% filename, anchor text linkname
12953   \leavevmode
12954   \Hy@BeginAnnot{%
12955     \Hy@pstringdef\Hy@pstringF{#1}%
12956     \Hy@pstringdef\Hy@pstringP{#3}%
12957     \@pdfm@mark{%
12958       bann<<%
12959       /Type/Annot%
12960       /Subtype/Link%
12961       \ifHy@pdfa /F 4\fi
12962       \Hy@setpdfborder
12963       \ifx\@runbordercolor\relax
12964       \else
12965         /C[\@runbordercolor]%
12966       \fi
12967       /A<<%
12968       /F(\Hy@pstringF)%
12969       /S/Launch%

```





```

12970         \Hy@SetNewWindow
12971         \ifx\#3\%
12972         \else
12973             /Win<</P(\Hy@pstringP)/F(\Hy@pstringF)>>%
12974         \fi
12975         \Hy@href@nextactionraw
12976     >>%
12977 >>%
12978 }%
12979 \Hy@colorlink\@runcolor
12980 }%
12981 \ifmmode\else\if@RTL\beginR\fi\fi#2\ifmmode\else\if@RTL\endR\fi\fi\Hy@xspace@end
12982 \Hy@endAnnot
12983 }
12984 \def\hyper@linkurl#1#2{%
12985     \leavevmode
12986     \Hy@BeginAnnot{%
12987         \Hy@pstringdef\Hy@pstringURI{#2}%
12988         \@pdfm@mark{%
12989             bann<<%
12990                 /Type/Annot%
12991                 /Subtype/Link%
12992                 \ifHy@pdfa /F 4\fi
12993                 \Hy@setpdfborder
12994                 \ifx\@urlbordercolor\relax
12995                 \else
12996                     /C[\@urlbordercolor]%
12997                 \fi
12998                 /A<<%
12999                 /S/URI%
13000                 /URI(\Hy@pstringURI)%
13001                 \ifHy@href@ismap
13002                     /IsMap true%
13003                 \fi
13004                 \Hy@href@nextactionraw
13005             >>%
13006         >>%
13007     }%
13008     \Hy@colorlink\@urlcolor
13009 }%
13010 \ifmmode\else\if@RTL\beginR\fi\fi#1\ifmmode\else\if@RTL\endR\fi\fi\Hy@xspace@end
13011 \Hy@endAnnot
13012 }
13013 \def\Acrobatmenu#1#2{%
13014     \Hy@Acrobatmenu{#1}{#2}%
13015     \Hy@BeginAnnot{%
13016         \EdefEscapeName\Hy@temp@menu{#1}%
13017         \@pdfm@mark{%
13018             bann<<%
13019                 /Type/Annot%
13020                 /Subtype/Link%
13021                 \ifHy@pdfa /F 4\fi
13022                 \Hy@setpdfborder
13023                 \ifx\@menubordercolor\relax

```



```

13024         \else
13025             /C[\@menubordercolor]%
13026         \fi
13027         /A<<%
13028         /S/Named%
13029         /N/\Hy@temp@menu
13030         \Hy@href@nextactionraw
13031         >>%
13032     >>%
13033 }%
13034 \Hy@colorlink\@menucolor
13035 }%
13036 \ifmmode\else\if@RTL\beginR\fi\fi#2\ifmmode\else\if@RTL\endR\fi\fi\Hy@xspace@end
13037 \Hy@endAnnot
13038 }%
13039 }
13040 \def\hyper@natlinkstart#1{%
13041     \Hy@backout{#1}%
13042     \hyper@linkstart{cite}{cite.#1}\if@RTL\beginR\fi%
13043     \def\hyper@nat@current{#1}%
13044 }
13045 \def\hyper@natlinkend{%
13046     \if@RTL\endR\fi\hyper@linkend
13047 }
13048 \def\hyper@natlinkbreak#1#2{%
13049     \if@RTL\endR\fi\hyper@linkend#1\hyper@linkstart{cite}{cite.#2}\if@RTL\beginR\fi%
13050 }%
13051 }
13052 \pdfstringdefDisableCommands{%
13053     \let\LRE\@firstofone
13054     \let\LR\@firstofone
13055     \let\RLE\@firstofone
13056     \let\RL\@firstofone
13057     \def\XeTeX{Xe\TeX}%
13058     \def\XeLaTeX{Xe\LaTeX}%
13059 }
13060 \@ifpackageloaded{longtable}{%
13061     \begingroup
13062         \def\y{\LT@array}%
13063         \@ifundefined{scr@LT@array}{%
13064             \@ifundefined{adl@LT@array}{%
13065                 \def\y{\adl@LT@array}}%
13066             \def\y{\scr@LT@array}}%
13067         \long\def\x{\refstepcounter#1#2\@sharp#3#4\@nil}%
13068         \expandafter\endgroup
13069         \expandafter\def\y[##1]##2{%
13070             \H@refstepcounter{#1}%
13071             \hyper@makecurrent{table}%
13072             \let\Hy@LT@currentHref\@currentHref
13073             #2\@sharp####4%
13074         }%
13075     \expandafter\expandafter\expandafter\x\y[##1]{##2}\@nil
13076     \begingroup
13077         \def\x#1\ifvoid\LT@foot#2\fi#3\@nil{%

```



```

13078 \endgroup
13079 \def\LT@start{%
13080   #1%
13081   \ifvoid\LT@foot#2\fi
13082   \let\@currentHref\Hy@LT@currentHref
13083   \Hy@raisedlink{%
13084     \hyper@anchorstart{\@currentHref}\hyper@anchorend
13085   }%
13086   #3%
13087 }%
13088 }%
13089 \expandafter\x\LT@start\@nil
13090 }{}
13091 \bidi@patchcmd\@TextField{%
13092   \@pdfm@mark
13093 }{%
13094   \if@RTL
13095     \hskip\Fld@width
13096   \fi
13097   \@pdfm@mark
13098 }{}{}
13099 \bidi@patchcmd\@TextField{%
13100   \unhbox
13101 }{%
13102   \if@RTL
13103     \hskip-\Fld@width
13104   \fi
13105   \unhbox
13106 }{}{}
13107 \bidi@patchcmd\@@Radio{%
13108   \@pdfm@mark
13109 }{%
13110   \if@RTL
13111     \hskip\Fld@width
13112   \fi
13113   \@pdfm@mark
13114 }{}{}
13115 \bidi@patchcmd\@@Radio{%
13116   \unhcopy
13117 }{%
13118   \if@RTL
13119     \hskip-\Fld@width
13120   \fi
13121   \unhcopy
13122 }{}{}
13123 \bidi@patchcmd\@Submit{%
13124   \@pdfm@mark
13125 }{%
13126   \if@RTL
13127     \null
13128     \hskip\wd\pdfm@box
13129   \fi
13130   \@pdfm@mark
13131 }{}{}

```



```

13132 \bidi@patchcmd\@Submit{%
13133   \unhbox
13134 }{%
13135   \if@RTL
13136     \hskip-\wd\pdfm@box
13137   \fi
13138   \unhbox
13139 }{}{}
13140 \bidi@patchcmd\@Reset{%
13141   \@pdfm@mark
13142 }{%
13143   \if@RTL
13144     \null
13145     \hskip\wd\pdfm@box
13146   \fi
13147   \@pdfm@mark
13148 }{}{}
13149 \bidi@patchcmd\@Reset{%
13150   \unhbox
13151 }{%
13152   \if@RTL
13153     \hskip-\wd\pdfm@box
13154   \fi
13155   \unhbox
13156 }{}{}

```

## 71 File imspc-xetex-bidi.def

```

13157 \ProvidesFile{imspc-xetex-bidi.def}[2017/06/09 v0.1 bidi adaptations for imspc class for
13158 \newenvironment{thebibliography}[1]{%
13159   \@bibtitlestyle
13160   \normalfont\bibliofont\labelsep .5em\relax
13161   \renewcommand\theenumiv{\arabic{enumiv}}\let\p@enumiv\@empty
13162   \if@RTL\if@LTRbibitems\@RTLfalse\else\fi\else\if@RTLbibitems\@RTLtrue\else\fi\fi
13163   \bidi@thebibliography@font@hook
13164   \list{\@biblabel{\theenumiv}}{\settowidth\labelwidth{\@biblabel{#1}}%
13165     \leftmargin\labelwidth \advance\leftmargin\labelsep
13166     \usecounter{enumiv}}%
13167   \sloppy \clubpenalty\@M \widowpenalty\clubpenalty
13168   \sfcode`\.=\@m
13169 }{%
13170   \def\@noitemerr{\@latex@warning{Empty `thebibliography' environment}}%
13171   \endlist
13172 }
13173
13174 \def\theindex{\@restonecoltrue\if@twocolumn\@restonecolfalse\fi
13175   \columnseprule\z@ \columnsep 35\p@
13176   \@indextitlestyle
13177   \thispagestyle{plain}%
13178   \let\item\@idxitem
13179   \parindent\z@ \parskip\z@\@plus.3\p@\relax
13180   \if@RTL\raggedleft\else\raggedright\fi
13181   \hyphenpenalty\@M
13182   \footnotesize}

```



```

13183 \def\@idxitem{\par\hangindent \if@RTL-\fi2em}
13184 \def\subitem{\par\hangindent \if@RTL-\fi2em\hspace*{1em}}
13185 \def\subsubitem{\par\hangindent \if@RTL-\fi3em\hspace*{2em}}
13186
13187 \def\right@footnoterule{%
13188   \kern-.4\p@
13189   \hbox to \columnwidth{\hskip \dimexpr\columnwidth-5pc\relax \hrulefill }
13190   \kern11\p@\kern-\footnotesep}
13191 \def\left@footnoterule{\kern-.4\p@
13192   \hrule\@width 5pc\kern11\p@\kern-\footnotesep}
13193 \def\@makefnmark{%
13194   \leavevmode
13195   \raise.9ex\hbox{\fontsize\sf@size\z@\normalfont\@thefnmark}%
13196 }
13197
13198 \def\part{\@startsection{part}{0}%
13199   \z@\linespacing\@plus\linespacing}{.5\linespacing}%
13200   {\normalfont\bfseries\if@RTL\raggedleft\else\raggedright\fi}}
13201 \def\@tocline#1#2#3#4#5#6#7{\relax
13202   \ifnum #1>\c@tocdepth % then omit
13203   \else
13204     \par \addpenalty\@secpenalty\addvspace{#2}%
13205     \begingroup \hyphenpenalty\@M
13206     \@ifempty{#4}{%
13207       \@tempdima\csname r@tocindent\number#1\endcsname\relax
13208     }{%
13209       \@tempdima#4\relax
13210     }%
13211     \parindent\z@ \if@RTL\righskip\else\leftskip\fi#3\relax \advance\if@RTL\righskip\else\leftskip\fi#4\relax
13212     \if@RTL\leftskip\else\righskip\fi\@pnumwidth plus4em \parfillskip-\@pnumwidth
13213     #5\leavevmode\hskip-\@tempdima #6\nobreak\relax
13214     \hfil\hbox to\@pnumwidth{\@tocpagenum{#7}}\par
13215     \nobreak
13216     \endgroup
13217   \fi}
13218 \renewcommand\thesubsection {\thesection\@SepMark\arabic{subsection}}
13219 \renewcommand\thesubsubsection {\thesubsection \@SepMark\arabic{subsubsection}}
13220 \renewcommand\theparagraph {\thesubsubsection\@SepMark\arabic{paragraph}}
13221 \renewcommand\thesubparagraph {\theparagraph\@SepMark\arabic{subparagraph}}
13222 \def\maketitle{\par
13223   \@topnum\z@ % this prevents figures from falling at the top of page 1
13224   \@setcopyright
13225   \thispagestyle{firstpage}% this sets first page specifications
13226   \uppercasenonmath\shorttitle
13227   \ifx\@empty\shortauthors \let\shortauthors\shorttitle
13228   \else \andify\shortauthors
13229   \fi
13230   \@maketitle@hook
13231   \begingroup
13232   \@maketitle
13233   \toks@{\exp{\shortauthors}\@temptokena\exp{\shorttitle}}%
13234   \toks4{\def\{\ignorespaces}}% defend against questionable usage
13235   \edef\@tempa{%
13236     \@nx\markboth{\the\toks4

```



```

13237 \nx\MakeUppercase{\the\toks@}{\the\@temptokena}}%
13238 \@tempa
13239 \endgroup
13240 \c@footnote\z@
13241 \@cleartopmattertags
13242 }

```

## 72 File leqno-xetex-bidi.def

```

13243 \ProvidesFile{leqno-xetex-bidi.def}[2018/01/07 v0.2 bidi adaptations for leqno tag for XeTeX]
13244 \renewcommand\@eqnnum{\hb@xt@.01\p@}%
13245 \rlap{\hskip -\displaywidth
13246 {\normalfont\normalcolor\if@RTL\beginR\fi(\theequation)\if@RTL\endR\fi}}

```

## 73 File letter-xetex-bidi.def

```

13247 \ProvidesFile{letter-xetex-bidi.def}[2015/11/14 v0.3 bidi adaptations for standard letter class]
13248 \renewcommand*{\opening}[1]{\ifx\@empty\fromaddress
13249 \thispagestyle{firstpage}%
13250 {\if@RTL\raggedright\else\raggedleft\fi\@date\par}%
13251 \else % home address
13252 \thispagestyle{empty}%
13253 {\if@RTL\raggedright\else\raggedleft\fi\if@RTL\begin{tabular}{r{}}\else\begin{tabular}{l{}}
13254 \fromaddress \*[2\parskip]%
13255 \@date \end{tabular}\par}%
13256 \fi
13257 \vspace{2\parskip}%
13258 {\if@RTL\raggedleft\else\raggedright\fi \toname \ \ toaddress \par}%
13259 \vspace{2\parskip}%
13260 #1\par\nobreak}
13261 \renewcommand\left@footnoterule{%
13262 \kern-\p@
13263 \hrule \@width .4\columnwidth
13264 \kern .6\p@}
13265 \renewcommand\right@footnoterule{%
13266 \kern-\p@
13267 \hbox to \columnwidth{\hskip .6\columnwidth \hrulefill }
13268 \kern .6\p@}

```

## 74 File lettrine-xetex-bidi.def

```

13269 \ProvidesFile{lettrine-xetex-bidi.def}[2019/05/01 v0.7 bidi adaptations for lettrine package]
13270 \def\@lettrine[#1]#2#3{%
13271 \def\l@initial{#2}\let\l@refstring\l@initial
13272 \setcounter{L@lines}{\value{DefaultLines}}%
13273 \setcounter{L@depth}{\value{DefaultDepth}}%
13274 \renewcommand*{\L@hang}{\DefaultLhang}%
13275 \renewcommand*{\L@oversize}{\DefaultLoversize}%
13276 \renewcommand*{\L@raise}{\DefaultLraise}%
13277 \renewcommand*{\L@ante}{}%
13278 \setlength{\L@Findent}{\DefaultFindent}%
13279 \setlength{\L@Nindent}{\DefaultNindent}%
13280 \setlength{\L@slope}{\DefaultSlope}%
13281 \setlength{\L@novskip}{\DiscardVskip}%

```



```

13282 \ifLettrineImage\L@imagetrue\else\L@imagefalse\fi
13283 \ifLettrineOnGrid\L@gridtrue\else\L@gridfalse\fi
13284 \ifLettrineRealHeight\L@realhtrue\else\L@realhfalse\fi
13285 \ifLettrineSelfRef\L@selfreftrue\else\L@selfreffalse\fi
13286 \setkeys{L}{#1}%
13287 \sbox{\L@tbox}{\LettrineTextFont{\LettrineSecondString}}%
13288 \ifL@realh
13289   \def\@tempa{#3}%
13290   \ifx\@tempa\@empty
13291     \PackageWarning{lettrine.sty}%
13292       {Empty second argument,\MessageBreak
13293         ignoring option `realheight';}%
13294   \else
13295     \sbox{\L@tbox}{\LettrineTextFont{#3}}%
13296   \fi
13297 \fi
13298 \if\DefaultOptionsFile\relax
13299 \else
13300   \begingroup
13301   \InputIfFileExists{\DefaultOptionsFile}%
13302   {}%
13303   {\PackageWarning{lettrine.sty}%
13304     {File \DefaultOptionsFile\space not found}%
13305   }%
13306   \def\color##1##{\l@color{##1}}%
13307   \let\l@color\@gobbletwo
13308   \def\textcolor##1##{\l@textcolor{##1}}%
13309   \def\l@textcolor##1##2##3{##3}%
13310   \expandafter\ifx\csname l@#2-keys\endcsname\relax
13311     \gdef\l@LOKeys{}%
13312   \else
13313     \xdef\l@LOKeys{\csname l@#2-keys\endcsname}%
13314   \fi
13315   \endgroup
13316   \def\KV@prefix{KV@L@}%
13317   \let\@tempc\relax
13318   \expandafter\KV@do\l@LOKeys,\relax,
13319   \setupL@lbox
13320   \setlength{\LettrineWidth}{\wd\L@lbox}%
13321   \def\KV@prefix{KV@L@}%
13322   \let\@tempc\relax
13323   \expandafter\KV@do\l@LOKeys,\relax,
13324   \setkeys{L}{#1}%
13325 \fi
13326 \setupL@lbox
13327 \setlength{\LettrineWidth}{\wd\L@lbox}%
13328 \setlength{\LettrineHeight}{\ht\L@lbox}%
13329 \setlength{\LettrineDepth}{\dp\L@lbox}%
13330 \begingroup
13331 \def\IeC##1{##1}%
13332 \@tempdima=\L@oversize pt\relax
13333 \PackageInfo{lettrine.sty}%
13334   {Targeted height = \the\L@target@tht\MessageBreak
13335     (no accent, loversize=0),\MessageBreak

```



```

13336     Lettrine height = \the\LettrineHeight\space (#2)%
13337     \ifdim\@tempdima=\z@\else\space loversize=\L@oversize\fi;%
13338     \MessageBreak reported}%
13339 \endgroup
13340 \sbox{\L@tbox}{\LettrineTextFont{#3}}%
13341 \setlength{\L@first}{\LettrineHeight}%
13342 \setlength{\L@lraise}{\L@raise\L@target@ttht}%
13343 \addtolength{\L@first}{\L@lraise}%
13344 \ifnum\value{L@lines}=1
13345     \addtolength{\L@first}{-\ht\L@tbox}%
13346 \else
13347     \addtolength{\L@first}{-\L@target@ttht}%
13348     \addtolength{\L@lraise}{-\L@target@dp}%
13349 \fi
13350 \par
13351 \ifdim\L@first>\L@novskip
13352     \ifL@grid
13353         \@tempdima=\baselineskip
13354         \@tempdimb=\@tempdima
13355         \advance\@tempdimb by \L@novskip
13356         \@tempcnta=1
13357         \loop\ifdim\L@first>\@tempdimb
13358             \advance\@tempcnta by 1
13359             \advance\L@first by -\@tempdima
13360         \repeat
13361         \L@first=\@tempcnta\baselineskip
13362     \fi
13363     \vskip\L@first
13364 \fi
13365 \setlength{\L@Pindent}{\wd\L@lbox}%
13366 \addtolength{\L@Pindent}{-\L@hang\wd\L@lbox}%
13367 \settowidth{\L@first}{\L@ante}%
13368 \addtolength{\L@Pindent}{\L@first}%
13369 \addtolength{\L@Pindent}{\L@Findent}%
13370 \setlength{\L@first}{\linewidth}%
13371 \addtolength{\L@first}{-\L@Pindent}%
13372 \addtolength{\L@Nindent}{\L@Pindent}%
13373 \setlength{\L@next}{\linewidth}%
13374 \addtolength{\L@next}{-\L@Nindent}%
13375 \addtolength{\L@Pindent}{\@totalleftmargin}%
13376 \addtolength{\L@Nindent}{\@totalleftmargin}%
13377 \addtocounter{L@lines}{1}%
13378 \addtocounter{L@lines}{\value{L@depth}}%
13379 \if@RTL
13380     \def\L@parshape{\c@L@lines \z@ \the\L@first}%
13381 \else
13382     \def\L@parshape{\c@L@lines \the\L@Pindent \the\L@first}%
13383 \fi
13384 \@tempcnta=\tw@
13385 \@whilenum \@tempcnta<\c@L@lines\do{%
13386     \if@RTL
13387         \edef\L@parshape{\L@parshape \z@ \the\L@next}%
13388     \else
13389         \edef\L@parshape{\L@parshape \the\L@Nindent \the\L@next}%

```





```

13390     \fi
13391     \addtolength{\L@Nindent}{\L@slope}%
13392     \addtolength{\L@next}{-\L@slope}%
13393     \advance\@tempcnta\@ne}%
13394 \if@RTL
13395     \edef\L@parshape{\L@parshape \z@ \the\linewidth}%
13396 \else
13397     \edef\L@parshape{\L@parshape \@totalleftmargin \the\linewidth}%
13398 \fi
13399 \noindent
13400 \parshape=\L@parshape\relax
13401 \smash{\llap{\mbox{\L@ante}\raisebox{\L@raise}{\usebox{\L@lbox}}}%
13402         \hskip \the\L@Findent}}%
13403 \usebox{\L@tbox}%
13404 \ifnum\@listdepth>0 \lreset@listparshape \fi
13405 }

```

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

```

13406 \ProvidesFile{lineno-xetex-bidi.def}[2018/01/28 v0.2 bidi adaptations for lineno package for
13407 \bidi@patchcmd{\MakeLineNo}{%
13408     \hb@xt@\z@{\makeLineNumber}%
13409 }{%
13410     \hboxL to \z@{\makeLineNumber}%
13411 }{}{}
13412
13413 \bidi@patchcmd{\makeLineNumberLeft}{\LineNumber}{%
13414     \if@RTL
13415         \hb@xt@\linewidthwidth{\LineNumber\hss}%
13416     \else
13417         \LineNumber
13418     \fi
13419 }{}{}
13420
13421 \bidi@patchcmd{\makeLineNumberRight}{%
13422     \hb@xt@\linewidthwidth{\hss\LineNumber}%
13423 }{%
13424     \if@RTL
13425         \LineNumber
13426     \else
13427         \hb@xt@\linewidthwidth{\hss\LineNumber}%
13428     \fi
13429 }{}{}
13430
13431 \bidi@AfterPreamble{%
13432     \if@RTLmain
13433         \rightlinenumbers*
13434     \else
13435         \leftlinenumbers*
13436     \fi
13437 \@ifpackagewith{lineno}{left}{%
13438     \leftlinenumbers*
13439 }{}
13440 \@ifpackagewith{lineno}{right}{%

```



```

13441 \rightlinenumbers*
13442 }{}
13443 }
13444

```

## 76 File listings-xetex-bidi.def

```

13445 \ProvidesFile{listings-xetex-bidi.def}[2018/09/15 v1.5 bidi adaptations for listings package]
13446 \lst@Key{captiondirection}{textdirection}{%
13447   \lstKV@SwitchCases{#1}%
13448   {textdirection:\\%
13449     RTL:\chardef\bidi@lst@caption@direction\@ne\\%
13450     LTR:\chardef\bidi@lst@caption@direction\z@%
13451   }\PackageError{Listings}{direction #1 unknown}\@ehc}}
13452
13453 \lst@Key{captionscript}{textscript}{%
13454   \lstKV@SwitchCases{#1}%
13455   {textscript:\\%
13456     latin:\chardef\bidi@lst@caption@script\@ne\\%
13457     nonlatin:\chardef\bidi@lst@caption@script\z@%
13458   }\PackageError{Listings}{direction #1 unknown}\@ehc}}
13459
13460 \newcommand*{\bidi@lst@ensure@caption@direction}[2]{%
13461   \@ifundefined{bidi@lst@caption@direction}{}{%
13462     \ifnum\bidi@lst@caption@direction=\z@%
13463       #1%
13464     \else%
13465       \ifnum\bidi@lst@caption@direction=\@ne%
13466         #2%
13467       \fi%
13468     \fi%
13469   }}
13470
13471 \newcommand*{\bidi@lst@ensure@caption@script}[2]{%
13472   \@ifundefined{bidi@lst@caption@script}{}{%
13473     \ifnum\bidi@lst@caption@script=\z@%
13474       #1%
13475     \else%
13476       \ifnum\bidi@lst@caption@script=\@ne%
13477         #2%
13478       \fi%
13479     \fi%
13480   }}
13481
13482 \long\def\@bidi@lst@makecaption#1#2{%
13483   \bidi@lst@ensure@caption@script{\@nonlatintrue}{\@nonlatinfalse}%
13484   \vskip\abovcaptionskip
13485   \bidi@lst@ensure@caption@direction{\@RTLfalse}{\@RTLtrue}%
13486   \sbox\@tempboxa{%
13487     \bidi@lst@ensure@caption@direction{\beginL}{\beginR}%
13488     #1: #2%
13489     \bidi@lst@ensure@caption@direction{\endL}{\endR}%
13490   }%
13491   \ifdim \wd\@tempboxa >\hsize

```



```

13492     #1: #2\par
13493     \else
13494         \global \@minipagefalse
13495         \hb@xt@\hsize{\hfil\box\@tempboxa\hfil}%
13496     \fi
13497     \vskip\belowcaptionskip}%
13498 \def\lst@makecaption{\@bidi\lst@makecaption}
13499 \def\lst@maketitle{\@bidi\lst@makecaption\lst@title@dropdelim}
13500 \bidi@AtEndPreamble{%
13501 \bidi@patchcmd{\lst@MakeCaption}{%
13502     \ifx #1%
13503         \ifx\lst@@caption\@empty\expandafter\lst@HRefStepCounter \else
13504             \expandafter\refstepcounter
13505         \fi {lstlisting}%
13506 }{}{}%
13507     \ifx #1%
13508         \bidi\lst@ensure@caption@direction{\@RTLfalse}{\@RTLtrue}%
13509         \ifx\lst@@caption\@empty\expandafter\lst@HRefStepCounter \else
13510             \expandafter\refstepcounter
13511         \fi {lstlisting}%
13512         \bidi\lst@ensure@caption@direction{\@RTLfalse}{\@RTLfalse}%
13513 }{}{}%
13514 \bidi@patchcmd{\lst@MakeCaption}{%
13515     \addcontentsline{lol}{lstlisting}%
13516     {\protect\numberline{\thelstlisting}\lst@@caption}%
13517 }{}{}%
13518 \begingroup%
13519     \bidi\lst@ensure@caption@direction{\@RTLfalse}{\@RTLtrue}%
13520     \addcontentsline{lol}{lstlisting}%
13521     {\protect\numberline{\thelstlisting}\lst@@caption}%
13522 \endgroup%
13523 }{}{}%
13524 }
13525 \ifpackageloaded{caption}{%
13526     \AtBeginCaption{%
13527         \bidi\lst@ensure@caption@script{\@nonlatintrue}{\@nonlatinfalse}%
13528         \bidi\lst@ensure@caption@direction{\@RTLfalse}{\@RTLtrue}%
13529     }
13530     \let\@bidi\lst@makecaption\caption@makecaption%
13531     \def\lst@makecaption{\caption@starfalse\@bidi\lst@makecaption}%
13532     \def\lst@maketitle{\caption@startrue\@bidi\lst@makecaption\@empty}%
13533 }{}%
13534 \AtBeginDocument{%
13535     \ifundefined{captionlabelfalse}{}%
13536     \def\lst@maketitle{\captionlabelfalse\@bidi\lst@makecaption\@empty}}%
13537 \ifundefined{caption@startrue}{}%
13538     \def\lst@maketitle{\caption@startrue\@bidi\lst@makecaption\@empty}}%
13539 }%
13540 }
13541 \AtBeginDocument{
13542     \ifundefined{thechapter}{\let\lst@ifnumberbychapter\iffalse}{%
13543         \lst@ifnumberbychapter
13544         \gdef\thelstlisting%
13545             {\ifnum \c@chapter>\z@ \thechapter\@SepMark\fi \@arabic\c@lstlisting}

```



```

13546 \else
13547 \gdef\thelstlisting{\@arabic\c@lstlisting}
13548 \fi}

```

## 77 File loadingorder-xetex-bidi.def

```

13549 \ProvidesFile{loadingorder-xetex-bidi.def}[2017/12/29 v0.97 making sure that bidi is the las
13550 \bidi@isloaded{amsmath}
13551 \bidi@isloaded{amstext}
13552 \bidi@isloaded{amsthm}
13553 \bidi@isloaded{animate}
13554 \bidi@isloaded{breqn}
13555 \bidi@isloaded{cals}
13556 \bidi@isloaded{caption}
13557 \bidi@isloaded{crop}
13558 \bidi@isloaded{cuted}
13559 \bidi@isloaded{cutwin}
13560 \bidi@isloaded{color}
13561 \bidi@isloaded{dblfnote}
13562 \bidi@isloaded{diagbox}
13563 \bidi@isloaded{xcolor}
13564 \bidi@isloaded{colortbl}
13565 \bidi@isloaded{float}
13566 \bidi@isloaded{floatrow}
13567 \bidi@isloaded{flowfram}
13568 \bidi@isloaded{framed}
13569 \bidi@isloaded{ftnright}
13570 \bidi@isloaded{xltextra}
13571 \bidi@isloaded{xunicode}
13572 \bidi@isloaded{wrapfig}
13573 \bidi@isloaded{graphicx}
13574 \bidi@isloaded{geometry}
13575 \bidi@isloaded{hvfloat}
13576 \bidi@isloaded{mdframed}
13577 \bidi@isloaded{midfloat}
13578 \bidi@isloaded{ntheorem}
13579 \bidi@isloaded{ntheorem-hyper}
13580 \bidi@isloaded{hyperref}
13581 \bidi@isloaded{fancybox}
13582 \bidi@isloaded{fancyhdr}
13583 \bidi@isloaded{fix2col}
13584 \bidi@isloaded{draftwatermark}
13585 \bidi@isloaded{empheq}
13586 \bidi@isloaded{overpic}
13587 \bidi@isloaded{pdfpages}
13588 \bidi@isloaded{listings}
13589 \bidi@isloaded{lettrine}
13590 \bidi@isloaded{lineno}
13591 \bidi@isloaded{media9}
13592 \bidi@isloaded{pstricks}
13593 \bidi@isloaded{pgf}
13594 \bidi@isloaded{picinpar}
13595 \bidi@isloaded{quotchap}
13596 \bidi@isloaded{tikz}

```



```

13597 \bidi@isloaded{titlesec}
13598 \bidi@isloaded{titletoc}
13599 \bidi@isloaded{array}
13600 \bidi@isloaded{soul}
13601 \bidi@isloaded{stabular}
13602 \bidi@isloaded{subfig}
13603 \bidi@isloaded{subfigure}
13604 \bidi@isloaded{supertabular}
13605 \bidi@isloaded{xtab}
13606 \bidi@isloaded{longtable}
13607 \bidi@isloaded{arydshln}
13608 \bidi@isloaded{multicol}
13609 \bidi@isloaded{multienum}
13610 \bidi@isloaded{minitoc}
13611 \bidi@isloaded{natbib}
13612 \bidi@isloaded{newfloat}
13613 \bidi@isloaded{ragged2e}
13614 \bidi@isloaded{rotating}
13615 \bidi@isloaded{tbls}
13616 \bidi@isloaded{tabulary}
13617 \bidi@isloaded{tocbasic}
13618 \bidi@isloaded{tocstyle}
13619 \bidi@isloaded{tocbibind}
13620 \bidi@isloaded{fontspec}
13621 \bidi@isloaded{arabxetex}
13622 \bidi@isloaded{polyglossia}
13623 \bidi@isloaded{fancyvrb}
13624 \AtBeginDocument{
13625   \if@bidi@amsmathloaded@ \else
13626     \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package amsmath after bidi pack
13627   \fi%
13628   \if@bidi@amstextloaded@ \else
13629     \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package amstext after bidi pack
13630   \fi%
13631   \if@bidi@amsthmloaded@ \else
13632     \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package amsthm after bidi packa
13633   \fi%
13634   \if@bidi@animateloaded@ \else
13635     \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package animate after bidi pack
13636   \fi%
13637   \if@bidi@breqnloaded@ \else
13638     \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package breqn after bidi packag
13639   \fi%
13640   \if@bidi@calsloaded@ \else
13641     \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package cals after bidi package
13642   \fi%
13643   \if@bidi@captionloaded@ \else
13644     \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package caption after bidi pack
13645   \fi%
13646   \if@bidi@croploaded@ \else
13647     \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package crop after bidi package
13648   \fi%
13649   \if@bidi@colorloaded@ \else
13650     \ifpackageloaded{hyperref}{\fi}%

```



```

13651 \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package color after bidi packag
13652 \fi%
13653 \if@bidi@cutwinloaded@else
13654 \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package cutwin after bidi packa
13655 \fi%
13656 \if@bidi@cutedloaded@else
13657 \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package cuted after bidi packag
13658 \fi%
13659 \if@bidi@dblfnote@loaded@else
13660 \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package dblfnote after bidi pac
13661 \fi%
13662 \if@bidi@diagboxloaded@else
13663 \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package diagbox after bidi pack
13664 \fi%
13665 \if@bidi@xcolorloaded@else
13666 \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package xcolor after bidi packa
13667 \fi%
13668 \if@bidi@colortblloaded@else
13669 \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package colortbl after bidi pac
13670 \fi%
13671 \if@bidi@floatloaded@else
13672 \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package float after bidi packag
13673 \fi%
13674 \if@bidi@floatrowloaded@else
13675 \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package floatrow after bidi pac
13676 \fi%
13677 \if@bidi@flowframloaded@else
13678 \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package flowfram after bidi pac
13679 \fi%
13680 \if@bidi@framedloaded@else
13681 \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package framed after bidi packa
13682 \fi%
13683 \if@bidi@ftnrightloaded@else
13684 \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package ftnright after bidi pac
13685 \fi%
13686 \if@bidi@xltxtraloaded@else
13687 \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package xltextra after bidi pack
13688 \fi%
13689 \if@bidi@xunicodeloaded@else
13690 \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package xunicode after bidi pac
13691 \fi%
13692 \if@bidi@wrapfigloaded@else
13693 \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package wrapfig after bidi pack
13694 \fi%
13695 \if@bidi@graphicxloaded@else
13696 \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package graphicx after bidi pac
13697 \fi%
13698 \if@bidi@geometryloaded@else
13699 \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package geometry after bidi pac
13700 \fi%
13701 \if@bidi@hvfloatloaded@else
13702 \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package hvfloat after bidi pack
13703 \fi%
13704 \if@bidi@mdframedloaded@else

```



```

13705 \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package mdframed after bidi pac
13706 \fi%
13707 \if@bidi@midfloatloaded@else
13708 \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package midfloat after bidi pac
13709 \fi%
13710 \if@bidi@ntheoremloaded@else
13711 \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package ntheorem after bidi pac
13712 \fi%
13713 \if@bidi@hyperrefloaded@else
13714 \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package hyperref after bidi pac
13715 \fi%
13716 \if@bidi@fancyboxloaded@else
13717 \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package fancybox after bidi pac
13718 \fi%
13719 \if@bidi@fancyhdrloaded@else
13720 \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package fancyhdr after bidi pac
13721 \fi%
13722 \if@bidi@draftwatermarkloaded@else
13723 \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package draftwatermark after bi
13724 \fi%
13725 \if@bidi@empheqloaded@else
13726 \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package empheq after bidi packa
13727 \fi%
13728 \if@bidi@overpicloaded@else
13729 \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package overpic after bidi pack
13730 \fi%
13731 \if@bidi@pdfpagesloaded@else
13732 \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package pdfpages after bidi pac
13733 \fi%
13734 \if@bidi@lettrineloaded@else
13735 \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package lettrine after bidi pac
13736 \fi%
13737 \if@bidi@linenoloaded@else
13738 \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package lineno after bidi packa
13739 \fi%
13740 \if@bidi@listingsloaded@else
13741 \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package listings after bidi pac
13742 \fi%
13743 \csname if@bidi@media9loaded@endcsname\else
13744 \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package media9 after bidi packa
13745 \fi%
13746 \if@bidi@pstricksloaded@else
13747 \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package pstricks after bidi pac
13748 \fi%
13749 \if@bidi@pgfloaded@else
13750 \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package pgf after bidi package.
13751 \fi%
13752 \if@bidi@picinparloaded@else
13753 \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package picinpar after bidi pac
13754 \fi%
13755 \if@bidi@quotchaploaded@else
13756 \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package quotchap after bidi pac
13757 \fi%
13758 \if@bidi@tikzloaded@else

```



```

13759 \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package tikz after bidi package
13760 \fi%
13761 \if@bidi@titlesecloaded@else
13762 \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package titlesec after bidi pac
13763 \fi%
13764 \if@bidi@titletocloaded@else
13765 \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package titletoc after bidi pac
13766 \fi%
13767 \if@bidi@arrayloaded@else
13768 \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package array after bidi packag
13769 \fi%
13770 \if@bidi@stabularloaded@else
13771 \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package stabular after bidi pac
13772 \fi%
13773 \if@bidi@soulloaded@else
13774 \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package soul after bidi package
13775 \fi%
13776 \if@bidi@subfigloaded@else
13777 \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package subfig after bidi packa
13778 \fi%
13779 \if@bidi@subfigureloaded@else
13780 \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package subfigure after bidi pa
13781 \fi%
13782 \if@bidi@supertabularloaded@else
13783 \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package supertabular after bidi
13784 \fi%
13785 \if@bidi@xtabloaded@else
13786 \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package xtab after bidi package
13787 \fi%
13788 \if@bidi@longtableloaded@else
13789 \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package longtable after bidi pa
13790 \fi%
13791 \if@bidi@arydshlnloaded@else
13792 \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package arydshln after bidi pac
13793 \fi%
13794 \if@bidi@multicolloaded@else
13795 \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package multicol after bidi pac
13796 \fi%
13797 \if@bidi@multienumloaded@else
13798 \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package multienum after bidi pa
13799 \fi%
13800 \if@bidi@minitocloaded@else
13801 \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package minitoc after bidi pack
13802 \fi%
13803 \if@bidi@natbibloaded@else
13804 \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package natbib after bidi packa
13805 \fi%
13806 \if@bidi@newfloatloaded@else
13807 \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package newfloat after bidi pac
13808 \fi%
13809 \csname if@bidi@ragged2eloaded@endcsname\else
13810 \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package ragged2e after bidi pac
13811 \fi%
13812 \if@bidi@rotatingloaded@else

```





```

13813 \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package rotating after bidi pac
13814 \fi%
13815 \if@bidi@tblsloaded@else
13816 \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package tbls after bidi packag
13817 \fi%
13818 \if@bidi@tabularyloaded@else
13819 \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package tabulary after bidi pac
13820 \fi%
13821 \if@bidi@tocbasicloaded@else
13822 \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package tocbasic after bidi pac
13823 \fi%
13824 \if@bidi@tocstyleloaded@else
13825 \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package tocstyle after bidi pac
13826 \fi%
13827 \if@bidi@tocbibindloaded@else
13828 \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package tocbibind after bidi pa
13829 \fi%
13830 \if@bidi@fontspecloaded@else
13831 \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package fontspec after bidi pac
13832 \fi%
13833 \if@bidi@arabxetexloaded@else
13834 \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package arabxetex after bidi pa
13835 \fi%
13836 \if@bidi@polyglossialoaded@else
13837 \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package polyglossia after bidi
13838 \fi%
13839 \if@bidi@fancyvrbloaded@else
13840 \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package fancyvrb after bidi pac
13841 \fi%
13842 }

```

## 78 File longtable-xetex-bidi.def

```

13843 \ProvidesFile{longtable-xetex-bidi.def}[2019/01/19 v0.5 bidi adaptations for longtable packa
13844 \def\LT@array[#1]#2{%
13845 \refstepcounter{table}\stepcounter{LT@tables}%
13846 \if l#1%
13847 \if@RTLtab\LTleft\fill \LTright\z@\else\LTleft\z@ \LTright\fill\fi
13848 \else\if r#1%
13849 \if@RTLtab\LTleft\z@ \LTright\fill\else\LTleft\fill \LTright\z@\fi
13850 \else\if c#1%
13851 \LTleft\fill \LTright\fill
13852 \fi\fi\fi
13853 \let\LT@mcol\multicolumn
13854 \let\LT@@tabarray\@tabarray
13855 \let\LT@@hl\hline
13856 \def\@tabarray{%
13857 \let\hline\LT@@hl
13858 \LT@@tabarray}%
13859 \let\\LT@tabularcr\let\@tabularnewline\\%
13860 \def\newpage{\noalign{\break}}%
13861 \def\pagebreak{\noalign{\ifnum`}=0\fi\@testopt{\LT@no@pgbk-}4}%
13862 \def\nopagebreak{\noalign{\ifnum`}=0\fi\@testopt{\LT@no@pgbk4}}%
13863 \let\hline\LT@hline \let\kill\LT@kill\let\caption\LT@caption

```



```

13864 \@tempdima\ht\strutbox
13865 \let\@endpbox\LT@endpbox
13866 \ifx\extrarowheight\@undefined
13867   \let\@acol\@tabacol
13868   \let\@classz\@tabclassz \let\@classiv\@tabclassiv
13869   \def\@startpbox{\vtop\LT@startpbox}%
13870   \let\@@startpbox\@startpbox
13871   \let\@@endpbox\@endpbox
13872   \let\LT@LL@FM@cr\@tabularcr
13873 \else
13874   \advance\@tempdima\extrarowheight
13875   \col@sep\@tabcolsep
13876   \let\@startpbox\LT@startpbox\let\LT@LL@FM@cr\@arraycr
13877 \fi
13878 \setbox\@arstrutbox\hbox{\vrule
13879   \@height \arraystretch \@tempdima
13880   \@depth \arraystretch \dp \strutbox
13881   \@width \z@}%
13882 \let\@sharp##\let\protect\relax
13883 \begingroup
13884   \@mkpream{#2}%
13885   \xdef\LT@bchunk{%
13886     \global\advance\c@LT@chunks\@ne
13887     \global\LT@rows\z@\setbox\z@\vbox\bgroup
13888       \LT@setprevdepth
13889       \tabskip\LTleft \noexpand\halign to\hsize\bgroup
13890       \tabskip\z@ \@arstrut \@preamble \tabskip\LTRight \cr}%
13891 \endgroup
13892 \expandafter\LT@nofcols\LT@bchunk&\LT@nofcols
13893 \LT@make@row
13894 \m@th\let\par\@empty
13895 \everycr{}\lineskip\z@\baselineskip\z@
13896 \LT@bchunk}
13897 \def\LT@makecaption#1#2#3{%
13898   \LT@mcol\LT@cols c{\hbox to\z@{\hss\parbox[t]\LTcapwidth{%
13899     \sbox\@tempboxa{\if@RTL\beginR\fi#1{#2: }#3\if@RTL\endR\fi}%
13900     \ifdim\wd\@tempboxa>\hsize
13901       #1{#2: }#3%
13902     \else
13903       \hbox to\hsize{\hfil\box\@tempboxa\hfil}}%
13904   \fi
13905   \endgraf\vskip\baselineskip}%
13906 \hss}}
13907 \ifpackageloaded{caption}{%
13908   \renewcommand\LT@makecaption[3]{%
13909     \caption@LT@make{%
13910       \caption@settype*\LTcaptype
13911       \ifdim\LTcapwidth=4in \else
13912         \setcaptionwidth\LTcapwidth
13913       \fi
13914       \caption@setoptions{longtable}%
13915       \caption@setoptions{@longtable}%
13916       \caption@LT@setup
13917       \caption@setautoposition{\ifcase\LT@rows t\else b\fi}%

```



```

13918 \caption@startrue#1\caption@starfalse
13919 \caption@prepare@stepcounter\LTcaption{LT}%
13920 \caption@begin\LTcaption
13921 \caption@normalsize
13922 \vskip-\ht\strutbox
13923 \caption@iftop{\vskip\belowcaptionskip}{\vskip\abovecaptionskip}%
13924 \caption@@make{#2}{#3}\endgraf
13925 \caption@iftop{\vskip\abovecaptionskip}{\vskip\belowcaptionskip}%
13926 \caption@end}}%
13927 }{}
13928 \def\LT@startpbox#1{%
13929 \bgroup\color@begingroup
13930 \let\@footnotetext\LT@p@ftntext
13931 \let\@LTRfootnotetext\LT@p@LTRftntext
13932 \let\@RTLfootnotetext\LT@p@RTLftntext
13933 \setlength\hsize{#1}%
13934 \@arrayparboxrestore
13935 \vrule \@height \ht\@arstrutbox \@width \z@}
13936 \def\LT@p@LTRftntext#1{%
13937 \edef\@tempa{\the\LT@p@ftn\noexpand\LTRfootnotetext[\the\c@footnote]}}%
13938 \global\LT@p@ftn\expandafter{\@tempa{#1}}}%
13939 \def\LT@p@RTLftntext#1{%
13940 \edef\@tempa{\the\LT@p@ftn\noexpand\RTLfootnotetext[\the\c@footnote]}}%
13941 \global\LT@p@ftn\expandafter{\@tempa{#1}}}%
13942
13943
13944 \def\LT@output{%
13945 \ifnum\outputpenalty <-\@Mi
13946 \ifnum\outputpenalty > -\LT@end@pen
13947 \LT@err{floats and marginpars not allowed in a longtable}\@ehc
13948 \else
13949 \setbox\z@\vbox{\unvbox\@cclv}%
13950 \ifdim \ht\LT@lastfoot>\ht\LT@foot
13951 \dimen@\pagegoal
13952 \advance\dimen@-\ht\LT@lastfoot
13953 \ifdim\dimen@<\ht\z@
13954 \setbox\@cclv\vbox{\unvbox\z@\copy\LT@foot\vss}%
13955 \@makecol
13956 \@outputpage
13957 \setbox\z@\vbox{\box\LT@head}%
13958 \fi
13959 \fi
13960 \global\@colroom\@colht
13961 \global\vsizel\@colht
13962 \vbox
13963 {\if@RTLtab\hbox\bgroup\beginR\vbox\bgroup\fi\unvbox\z@\box\ifvoid\LT@lastfoot\LT@fo
13964 \fi
13965 \else
13966 \setbox\@cclv\vbox{\if@RTLtab\hbox\bgroup\beginR\vbox\bgroup\fi\unvbox\@cclv\copy\LT@fo
13967 \@makecol
13968 \@outputpage
13969 \global\vsizel\@colroom
13970 \copy\LT@head\nobreak
13971 \fi}

```



## 79 File mathtools-xetex-bidi.def

```
13972 \ProvidesFile{mathtools-xetex-bidi.def}[2018/01/07 v0.1 bidi adaptations for mathtools packa
13973 \MHInternalSyntaxOn
13974 \def\MT_define_tagform:nwnn #1[#2]#3#4{
13975   \@namedef{MT_tagform_#1:n}##1
13976   {\maketag@@@{\ifnonlatin\beginR\fi#3\kern\z@\ignorespaces#2{##1}\unskip\@italiccorr#4}
13977 }
13978 \renewtagform{default}{\{()\}}
13979 \MHInternalSyntaxOff
```

## 80 File mdframed-xetex-bidi.def

```
13980 \ProvidesFile{mdframed-xetex-bidi.def}[2013/09/22 v0.4 bidi adaptations for mdframed package
13981 \newif\if@bidi@mdf@RTL
13982 \def\mdf@lrbox#1{%
13983   \mdf@patchamsthm\patch amsthm
13984   \if@RTL\@bidi@mdf@RTLtrue\fi%
13985   \@RTLfalse%
13986   \setbox#1\vbox\bgroup%
13987   \color@begingroup%
13988   \if@bidi@mdf@RTL\@RTLtrue\fi%
13989   \mdf@horizontalmargin@equation%
13990   \columnwidth=\hsize%
13991   \textwidth=\hsize%
13992   \let\if@nobreak\iffalse%
13993   \let\if@noskipsec\iffalse%
13994   \let\par\@par%
13995   \let\-\@dischyph%
13996   \let'\@acci\let`\@accii\let=\@acciii%
13997   \parindent\z@ \parskip\z@skip%
13998   \linewidth\hsize%
13999   \@totalleftmargin\z@%
14000   \leftskip\z@skip \rightskip\z@skip \@rightskip\z@skip%
14001   \parfillskip\@flushglue \lineskip\normallineskip%
14002   \baselineskip\normalbaselineskip%
14003   %% \sloppy%
14004   \let\\\@normalcr%
14005   \mdf@par@local%New feature to restore parskip/parindent local in save box
14006   \ifbool{mdf@suppressfirstparskip}{\vspace*{-\parskip}}{}%
14007   \@afterindentfalse%
14008   %\@afterheading%
14009 }
14010 \renewrobustcmd\mdfframedtitleenv[1]{%
14011   \mdf@lrbox{\mdf@frametitlebox}%
14012   \mdf@frametitlealignment%
14013   \leavevmode{\color{\mdf@frametitlefontcolor}%
14014     \normalfont\mdf@frametitlefont{#1}
14015     \ifbool{mdf@ignorelastdescenders}%
14016       {%
14017         \par\strut\par
14018         \unskip\unskip\setbox0=\lastbox
14019         \vspace*{\dimexpr\ht\strutbox-\baselineskip\relax}%
14020       }{}}%
```



```

14021 \par\unskip\ifvmode\nointerlineskip\hrule \@height\z@ \@width\hsize\fi%
14022 \endmdf@lrbox\relax%
14023 \mdf@ignorevbadness%
14024 \setbox\mdf@frametitlebox=\vbox{\unvbox\mdf@frametitlebox}%
14025 \mdfframetitleboxwidth=\wd\mdf@frametitlebox\relax%
14026 \mdfframetitleboxheight=\ht\mdf@frametitlebox\relax%
14027 \mdfframetitleboxdepth=\dp\mdf@frametitlebox\relax%
14028 \mdfframetitleboxtotalheight=\dimexpr
14029 \ht\mdf@frametitlebox
14030 +\dp\mdf@frametitlebox%
14031 +\mdf@frametitleaboveskip@length
14032 +\mdf@frametitlebelowskip@length
14033 \relax%
14034 }
14035
14036 \renewrobustcmd*\mdf@footnoteoutput{%
14037 \ifvoid\@mpfootins\else%
14038 \nobreak%
14039 \vskip\mdf@footnotedistance@length%
14040 \normalcolor%
14041 \bidi@mpfootnoterule%
14042 \unvbox\@mpfootins%
14043 \fi%
14044 }
14045
14046
14047 \renewrobustcmd*\mdf@footnoteinput{%
14048 \def\@mpfn{\mpfootnote}%
14049 \def\thempfn{\thempfootnote}%
14050 \c@mpfootnote\z@%
14051 \let\@footnotetext\@mpfootnotetext%
14052 \let\@LTRfootnotetext\@mpLTRfootnotetext%
14053 \let\@RTLfootnotetext\@mpRTLfootnotetext%
14054 }

```

## 81 File bidi-media9.sty

```

14055 \ProvidesExplPackage{bidi-media9}{2017/08/27}{0.3}
14056 {bidi fixes for media9 package for the XeTeX engine}
14057
14058 \keys_define:nn{media9/mbtn}{
14059 draft .code:n = {},
14060 final .code:n = {},
14061
14062 tooltip .tl_gset_x:N = \g_mix_tooltip_tl,
14063 tooltip .value_required:n = {true},
14064
14065 overface .code:n = {
14066 \sbox\l_mix_poster_box{
14067 \bool_if:NTF\g_pbs_lscape_bool{\rotatebox{90}{#1}}{\if@RTL\beginR\fi#1\if@RTL\endR\fi}
14068 \mix_pdfxform:n{\l_mix_poster_box}
14069 \tl_gset:Nx\g_mix_overbtn_tl{\mix_pdflastxform:}
14070 },
14071 overface .value_required:n = {true},

```



```

14072
14073 downface .code:n = {
14074   \sbox\l_mix_poster_box{
14075     \bool_if:NTF\g_pbs_lscape_bool{\rotatebox{90}{#1}}{\if@RTL\beginR\fi#1\if@RTL\endR\fi}
14076     \mix_pdfxform:n{\l_mix_poster_box}
14077     \tl_gset:Nx\g_mix_downbtn_tl{\mix_pdflastxform:}
14078   },
14079   downface .value_required:n = {true},
14080
14081   3Dgotoview .code:n = {
14082     \tl_set:Nx\l_tmpa_tl{#1} %extract ref
14083     \regex_replace_once:nnN{([~:~]+):??.*}{\1}\l_tmpa_tl
14084     \tl_trim_spaces:N\l_tmpa_tl
14085     \tl_if_exist:cTF{ann@\l_tmpa_tl}{
14086       \str_if_eq_x:nnF{\tl_use:c{ann@\l_tmpa_tl}}{draft}{
14087         \tl_set:Nx\l_tmpb_tl{#1} %extract idx
14088         \regex_replace_once:nnN{([~:~]+:~){}}\l_tmpb_tl
14089         \tl_trim_spaces:N\l_tmpb_tl
14090         \tl_if_blank:VF\l_tmpb_tl{
14091           \regex_match:nVTF{^[DFLNP]$}\l_tmpb_tl{
14092             \tl_set:Nx\l_mix_vidx_tl{/~\l_tmpb_tl}
14093           }{
14094             \regex_match:nVTF{^[d+~$]\l_tmpb_tl{
14095               \tl_set:Nx\l_mix_vidx_tl{~\l_tmpb_tl}
14096             }{
14097               \regex_replace_once:nnN{^[~\s*~]{}}\l_tmpb_tl
14098               \regex_replace_once:nnN{[~\s*~]$}{~}\l_tmpb_tl
14099               \tl_set:Nx\l_mix_vidx_tl{~(\l_tmpb_tl)}
14100             }
14101           }
14102         }
14103       }
14104       \mix_pdfobj:nnn{}{dict}{
14105         /S/JavaScript/JS~(
14106           if(typeof(annotRM)=='undefined'){annotRM=new~Array();}
14107           if(typeof(annotRM['\l_tmpa_tl'])=='undefined'){
14108             annotRM['\l_tmpa_tl']=
14109               this.getAnnotRichMedia(\tl_use:c{page@\l_tmpa_tl},'\l_tmpa_tl');
14110           }
14111           annotRM['\l_tmpa_tl'].activated=true;
14112         )
14113         \tl_if_blank:VF\l_tmpb_tl{
14114           /Next~<<
14115           /S/GoTo3DView
14116           /TA~\tl_use:c{ann@\l_tmpa_tl}
14117           /V\l_mix_vidx_tl
14118         }
14119       }
14120       \tl_gput_right:Nx\g_mix_btnactions_tl{~\mix_pdflastobj:}
14121     }
14122   }{
14123     \msg_warning:nnx{media9}{undefined~reference}{\l_tmpa_tl}
14124     \cs_if_exist:NF\g_mix_refundefwarned_tl{
14125       \tl_new:N\g_mix_refundefwarned_tl

```



```

14126      \AtEndDocument{\msg_warning:nn{media9}{undefined~references}}
14127    }
14128  }
14129 },
14130 3Dgotoview .value_required:n = {true},
14131
14132 mediacommand .code:n = {
14133   \tl_set:Nx\l_tmpa_tl{#1}
14134   \regex_replace_once:nnN{([~:~]+):??.*}{\1}\l_tmpa_tl %extract ref
14135   \tl_trim_spaces:N\l_tmpa_tl
14136   \tl_if_exist:cTF{ann@\l_tmpa_tl}{
14137     \str_if_eq_x:nnF{\tl_use:c{ann@\l_tmpa_tl}}{draft}{
14138       \tl_set:Nx\l_tmpb_tl{#1}
14139       \regex_replace_once:nnN{[~:~]+~:~}{\1}\l_tmpb_tl
14140       \tl_trim_spaces:N\l_tmpb_tl
14141       \regex_replace_all:nnN{^~{|\}$}{\1}\l_tmpb_tl
14142       \tl_set:Nx\l_mix_cmd_tl{
14143         \exp_after:wN\mix_separate_cmd_from_actn:w\l_tmpb_tl[]\q_stop}
14144       \tl_trim_spaces:N\l_mix_cmd_tl
14145       \tl_set:Nx\l_mix_arg_tl{
14146         \exp_after:wN\mix_separate_arg_from_actn:w\l_tmpb_tl[]\q_stop}
14147       \tl_trim_spaces:N\l_mix_arg_tl
14148       \mix_pdfobj:nnn{}{dict}{
14149         /S/JavaScript/JS~(
14150           if(typeof(annotRM)=='undefined'){annotRM=new~Array();}
14151           if(typeof(annotRM['\l_tmpa_tl'])=='undefined'){
14152             annotRM['\l_tmpa_tl']=
14153               this.getAnnotRichMedia(\tl_use:c{page@\l_tmpa_tl},'\l_tmpa_tl');
14154           }
14155           annotRM['\l_tmpa_tl'].activated=true;
14156         )
14157         \tl_if_blank:VF\l_mix_cmd_tl{
14158           /Next~<<
14159           /S/RichMediaExecute
14160           /TA~\tl_use:c{ann@\l_tmpa_tl}
14161           /TI~\tl_use:c{main@\l_tmpa_tl}
14162           /CMD~<<
14163           /C~(\l_mix_cmd_tl)
14164           \tl_if_blank:VF\l_mix_arg_tl{
14165             /A~[\l_mix_arg_tl]
14166           }
14167           >>
14168           >>
14169         }
14170       }
14171       \tl_gput_right:Nx\g_mix_btnactions_tl{~\mix_pdflastobj:}
14172     }
14173   }{
14174     \msg_warning:nnx{media9}{undefined~reference}{\l_tmpa_tl}
14175     \cs_if_exist:NF\g_mix_refundefwarned_tl{
14176       \tl_new:N\g_mix_refundefwarned_tl
14177       \AtEndDocument{\msg_warning:nn{media9}{undefined~references}}
14178     }
14179   }

```



```

14180 },
14181 mediacommand .value_required:n = {true},
14182
14183 jsaction .code:n = {
14184   \tl_set:Nx\l_tmpa_tl{#1}
14185   \regex_match:nVTF{^[^\{:\.]+\.*$}\l_tmpa_tl{
14186     \regex_replace_once:nnN{([^\:]+\.*?)\1}\l_tmpa_tl %extract ref
14187     \tl_trim_spaces:N\l_tmpa_tl
14188   }\tl_clear:N\l_tmpa_tl}
14189   \tl_set:Nx\l_tmpb_tl{#1}
14190   \tl_if_blank:VF\l_tmpa_tl{
14191     \tl_if_exist:cF{ann@\l_tmpa_tl}{
14192       \msg_warning:nnx{media9}{undefined-reference}{\l_tmpa_tl}
14193       \cs_if_exist:NF\g_mix_refundefwarned_tl{
14194         \tl_new:N\g_mix_refundefwarned_tl
14195         \AtEndDocument{\msg_warning:nn{media9}{undefined-references}}
14196       }
14197     }
14198     \regex_replace_once:nnN{[^\:]+\.*}\l_tmpb_tl
14199   }
14200   \tl_set:Nx\l_tmpb_tl{\exp_after:wN\use:n\l_tmpb_tl}
14201   \tl_trim_spaces:N\l_tmpb_tl
14202   \tl_if_blank:VF\l_tmpb_tl{
14203     \mix_pdfobj:nnn{}{dict}{
14204       /S/JavaScript/JS~(
14205         try{\l_tmpb_tl}catch(e){console.show();console.println(e)})}}
14206   \bool_lazy_and:nnT{
14207     \tl_if_exist_p:c{ann@\l_tmpa_tl}
14208   }{
14209     !\str_if_eq_x_p:nn{\tl_use:c{ann@\l_tmpa_tl}}{draft}
14210   }{
14211     \mix_pdfobj:nnn{}{dict}{
14212       /S/JavaScript/JS~(
14213         if(typeof(annotRM)=='undefined'){annotRM=new~Array();}
14214         if(typeof(annotRM['\l_tmpa_tl'])=='undefined'){
14215           annotRM['\l_tmpa_tl']=
14216             this.getAnnotRichMedia(\tl_use:c{page@\l_tmpa_tl},'\l_tmpa_tl');
14217         }
14218         annotRM['\l_tmpa_tl'].activated=true;
14219       )
14220       \tl_if_blank:VF\l_tmpb_tl{/Next~\mix_pdflastobj:}
14221     }
14222   }
14223   \bool_if:nT{
14224     \bool_lazy_and_p:nn{
14225       \tl_if_exist_p:c{ann@\l_tmpa_tl}
14226     }{
14227       !\str_if_eq_x_p:nn{\tl_use:c{ann@\l_tmpa_tl}}{draft}
14228     }
14229     || !\tl_if_blank_p:V\l_tmpb_tl
14230   }{
14231     \tl_gput_right:Nx\g_mix_btnactions_tl{~\mix_pdflastobj:}
14232   }
14233 },

```





```

14234 jsaction .value_required:n = {true},
14235
14236 unknown .code:n = {
14237     \msg_error:nnx{media9}{unknown~option}{\l_keys_key_tl}
14238 }
14239 }
14240
14241 \RenewDocumentCommand\includemedia{0}{mm}{%#1 options, #2 text/image #3 media file
14242     \mix_uriend:
14243     \group_begin:
14244     \mix_beginLTR:
14245     \leavevmode
14246     %empty stream as appearance dummy
14247     \cs_if_exist:NF\g_mix_appearance_tl{
14248         \hbox_set:Nn\l_mix_poster_box{\phantom{\rule{1pt}{1pt}}}
14249         \mix_pdfxform:n{\l_mix_poster_box}
14250         \tl_gset:Nx\g_mix_appearance_tl{\mix_pdflastxform:}
14251     }
14252     \mix_reset:
14253     \mix_uribegin: %treat URI characters correctly
14254     \keys_set:nn{media9/user}{#1}
14255     \mix_uriend:
14256     \tl_greplace_all:Nnn\g_mix_flashvars_tl{~&}{&}
14257     \tl_greplace_all:Nnn\g_mix_flashvars_tl{&~}{&}
14258     \tl_greplace_all:Nnn\g_mix_flashvars_tl{~=}{=}
14259     \tl_greplace_all:Nnn\g_mix_flashvars_tl{=~}{=}
14260     \tl_gtrim_spaces:N\g_mix_flashvars_tl
14261
14262     \cs_if_exist:NT\Ginput@path{\cs_set_eq:NN\input@path\Ginput@path}
14263
14264     %\hbox_set:Nn\l_mix_poster_box{\group_begin:#2\group_end:}
14265     %\hbox_set:Nn\l_mix_poster_box{#2}
14266     \sbox\l_mix_poster_box{\if@RTL\beginR\fi#2\if@RTL\endR\fi}
14267     \mix_scale:n{\l_mix_poster_box}
14268     \bool_if:nTF{
14269         \dim_compare_p:n{\g_mix_tt_tl=\c_zero_dim}||
14270         \dim_compare_p:n{\g_mix_wd_tl=\c_zero_dim}
14271     }{
14272         \tl_gset:Nn\g_mix_usrpbtn_tl{none}
14273     }
14274     \bool_if:NTF\g_mix_usrdraft_bool{
14275         \tl_if_empty:NF\g_mix_usrlabel_tl{
14276             \mix_keytoaux_now:nn{ann@\g_mix_usrlabel_tl}{draft}
14277         }
14278         \tl_if_blank:oTF{#2}{
14279             \mix_uribegin: %treat URI characters correctly
14280             \mix_draftbox:n{\tl_to_str:n{#3}}
14281             \mix_uriend:
14282         }{
14283             \hbox_to_wd:nn{\g_mix_wd_tl}{
14284                 \vrule~width~\c_zero_dim~height~\g_mix_ht_tl~depth~\g_mix_dp_tl
14285                 \box_use:N\l_mix_poster_box\hss
14286             }
14287         }

```



```

14288 }{
14289   \bool_if:nF{\str_if_eq_p:Vn\g_mix_usrpbtn_tl{none}}{
14290     %attach script that switches off play button overlay upon activation
14291     \mix_pdfobj:nnn{}{stream}{
14292       {}{
14293         var~ocgs=host.getOCGs(host.pageNum);
14294         for(var~i=0;i<ocgs.length;i++){
14295           if(ocgs[i].name=='MediaPlayButton\int_use:N\g_mix_rmcnt_int'){
14296             ocgs[i].state=false;
14297           }
14298         }
14299       }
14300     }
14301     \mix_pdfobj:nnn{}{dict}{
14302       /Type/Filespec/EF~<</F~\mix_pdflastobj:>>/F~(btnoff)%/UF~(btnoff)
14303     }
14304     \tl_gset:Nx\g_mix_assets_tl{(btnoff)~\mix_pdflastobj:}
14305     \tl_set:Nx\l_mix_scripts_tl{~\mix_pdflastobj:~}
14306     %enforce plain playbutton overlay for XeTeX
14307     \sys_if_engine_xetex:T{\tl_gset:Nn\g_mix_usrpbtn_tl{plain}}
14308   }
14309   %embed main asset
14310   \mix_uribegin:
14311   \mix_embedasset:n{#3}
14312   \bool_if:nTF{
14313     \str_if_eq_p:Vn\l_mix_ext_tl{prc}||\str_if_eq_p:Vn\l_mix_ext_tl{u3d}
14314   }{
14315     \bool_gset_true:N\g_mix_iiid_bool
14316     \tl_gset:Nn\g_mix_mainassetsub_tl{3D}
14317   }{
14318     \str_case_x:nnF{\l_mix_base_tl}{
14319       {APlayer}{\tl_gset:Nn\g_mix_mainassetsub_tl{Sound}}
14320       {AudioPlayer}{\tl_gset:Nn\g_mix_mainassetsub_tl{Sound}}
14321       {VPlayer}{\tl_gset:Nn\g_mix_mainassetsub_tl{Video}}
14322       {VideoPlayer}{\tl_gset:Nn\g_mix_mainassetsub_tl{Video}}
14323       {StrobeMediaPlayback}{\tl_gset:Nn\g_mix_mainassetsub_tl{Video}}
14324     }{\tl_gset:Nn\g_mix_mainassetsub_tl{Flash}}
14325   }
14326   \tl_gset:Nx\g_mix_mainasset_tl{~\g_mix_lastasset_tl}
14327   \mix_uriend:
14328   %secondary assets (added by addresource)
14329   \seq_map_function:NN\g_mix_res_seq\mix_embedasset:n
14330   \seq_map_inline:Nn\g_mix_script_seq{
14331     \mix_embedasset:n{##1}
14332     \tl_put_right:Nx\l_mix_scripts_tl{~\g_mix_lastasset_tl}
14333   }
14334   %attach 3D calculation script
14335   \bool_if:nT{\g_mix_iiid_bool && \g_mix_iiidcalc_bool}{
14336     \mix_embedasset:n{3Dmenu.js}
14337     \tl_put_left:Nx\l_mix_scripts_tl{\g_mix_lastasset_tl~}
14338   }
14339   %create 3D views from file (option 3Dviews)
14340   \bool_if:nT{\g_mix_iiid_bool && !(\tl_if_blank_p:V\g_mix_vfile_tl)}{
14341     \tl_set:Nn\l_mix_level_tl{\c_minus_one}

```



```

14342     \int_zero:N\l_mix_viewcnt_int
14343     \int_zero:N\l_mix_lineno_int
14344
14345     \ior_open:Nn\l_mix_vfile_stream{\g_mix_vfile_tl}
14346     \ior_map_inline:Nn\l_mix_vfile_stream{
14347         \int_incr:N\l_mix_lineno_int
14348         \keys_set:nn{media9/views}{##1} %process input line
14349     }
14350     \ior_close:N\l_mix_vfile_stream
14351 }
14352 \bool_if:nT{ %create default 3D view if required
14353     \g_mix_iiid_bool &&
14354     (\g_mix_opt_iiidview_bool || \tl_if_blank_p:V\l_mix_iiidviewarray_tl)
14355 }{
14356     \tl_set_eq:NN\l_mix_bg_tl\g_mix_opt_bg_tl
14357     \tl_set_eq:NN\l_mix_ls_tl\g_mix_opt_ls_tl
14358     \tl_set_eq:NN\l_mix_rm_tl\g_mix_opt_rm_tl
14359     \tl_set_eq:NN\l_mix_psob_tl\g_mix_opt_psob_tl
14360     \tl_set_eq:NN\l_mix_coo_tl\g_mix_opt_coo_tl
14361     \tl_set_eq:NN\l_mix_ctoc_tl\g_mix_opt_ctoc_tl
14362     \tl_set_eq:NN\l_mix_ciiw_tl\g_mix_opt_ciiw_tl
14363
14364     \fp_set_eq:NN\l_mix_roo_fp\g_mix_opt_roo_fp
14365     \fp_set_eq:NN\l_mix_aac_fp\g_mix_opt_aac_fp
14366     \fp_set_eq:NN\l_mix_oscale_fp\g_mix_opt_oscale_fp
14367     \fp_set_eq:NN\l_mix_roll_fp\g_mix_opt_roll_fp
14368
14369     \bool_set_eq:NN\l_mix_ciiw_bool\g_mix_opt_ciiw_bool
14370     \bool_set_eq:NN\l_mix_iiidortho_bool\g_mix_opt_iiidortho_bool
14371     \tl_clear:N\l_mix_naarray_tl
14372
14373     \bool_if:NF\l_mix_ciiw_bool{
14374         \tl_set:Nx\l_mix_args_tl{\l_mix_coo_tl\space\l_mix_ctoc_tl\space}
14375         \exp_after:wN\mix_calc_ciiw:w\l_mix_args_tl\q_stop
14376     }
14377
14378     \tl_clear:N\l_mix_naarray_tl
14379     \tl_clear:N\l_mix_saarray_tl
14380     \tl_set_eq:NN\l_mix_nr_tl\g_mix_nrdflt_tl
14381
14382     \mix_view:n{Default}
14383     \tl_set:Nx\l_mix_dfltview_tl{\mix_pdflastobj:}
14384
14385 }
14386 \mix_pdfobj:nnn{}{dict}{
14387     /Type/RichMediaInstance
14388     /Subtype/\g_mix_mainassetsub_tl
14389     /Asset~\g_mix_mainasset_tl
14390     \bool_if:NF\g_mix_iiid_bool{
14391         /Params~<<
14392         /Binding\str_if_eq:VnTF\g_mix_transp_tl{true}{
14393             /Foreground
14394         }{
14395             /Background

```



```

14396     }
14397     \tl_if_blank:VF\g_mix_flashvars_tl{
14398       /FlashVars~(\g_mix_flashvars_tl)
14399     }
14400     >>
14401   }
14402 }
14403 \tl_if_empty:NF\g_mix_usrlabel_tl{
14404   \mix_keytoaux_now:nn{main@\g_mix_usrlabel_tl}{\mix_pdflastobj:}
14405 }
14406 \mix_pdfobj:nnn{}{dict}{
14407   /Type/RichMediaConfiguration
14408   /Subtype/\g_mix_mainassetsub_tl
14409   /Instances~[\mix_pdflastobj:]
14410 }
14411 \mix_pdfobj:nnn{}{dict}{
14412   /Type/RichMediaContent
14413   /Assets~<</Names~[\g_mix_assets_tl]>>
14414   /Configurations~[\mix_pdflastobj:]
14415   \bool_if:nT{
14416     \g_mix_iiid_bool && !(\tl_if_empty_p:V\l_mix_iiidviewarray_tl)
14417   }{
14418     /Views~[\l_mix_iiidviewarray_tl]
14419   }
14420 }
14421 \tl_set:Nx\l_mix_content_tl{\mix_pdflastobj:}
14422 \bool_if:nT{
14423   \g_mix_iiid_bool && \str_if_eq_p:Vn\g_mix_playtpe_tl{Oscillating}
14424 }{
14425   \tl_gset:Nx\g_mix_playcnt_tl{\int_eval:n{\g_mix_playcnt_tl*2}}
14426 }
14427 %determine floating window size
14428 \bool_if:NT\g_mix_opt_windowed_bool{
14429   \exp_after:wN\mix_parse_winsizearg:w\g_mix_winsize_tl\q_stop
14430 }
14431 \mix_pdfobj:nnn{}{dict}{
14432   /Activation~<<
14433     /Condition\g_mix_act_tl
14434     \bool_if:nT{
14435       \g_mix_iiid_bool &&
14436       !(\str_if_eq_p:Vn\g_mix_playtpe_tl{None})
14437     }{%seems to work only with 3D content
14438       /Animation~<<
14439         /Subtype/\g_mix_playtpe_tl
14440         /PlayCount~\g_mix_playcnt_tl
14441         /Speed~\g_mix_playspd_tl
14442       >>
14443     }
14444     \bool_if:nT{
14445       \g_mix_iiid_bool && (
14446         \g_mix_opt_iiidview_bool || \tl_if_blank_p:V\l_mix_iiidviewarray_tl
14447       )
14448     }{/View~\l_mix_dfltview_tl}
14449   /Presentation~<<

```



```

14450 /Transparent~\g_mix_transp_tl
14451 \bool_if:NTF\g_mix_opt_windowed_bool{
14452 /Style/Windowed
14453 /Window~<<
14454 /Width~<</Default~\tl_mix_fltd>>
14455 /Height~<</Default~\tl_mix_flht>>
14456 /Position~<<
14457 /HOffset~0/VOffset~0
14458 \str_case_x:nnF{\g_mix_winpos_tl}{
14459 {tl}{/VAlign/Near/HAlign/Near}
14460 {cl}{/VAlign/Center/HAlign/Near}
14461 {bl}{/VAlign/Far/HAlign/Near}
14462 {bc}{/VAlign/Far/HAlign/Center}
14463 {br}{/VAlign/Far/HAlign/Far}
14464 {cr}{/VAlign/Center/HAlign/Far}
14465 {tr}{/VAlign/Near/HAlign/Far}
14466 {tc}{/VAlign/Near/HAlign/Center}
14467 }{/HAlign/Center/VAlign/Center}
14468 >>
14469 >>
14470 }{
14471 /Style/Embedded
14472 }
14473 \bool_if:NTF\g_mix_iiid_bool{
14474 /Toolbar~\g_mix_tools_tl
14475 /NavigationPane~\g_mix_nav_tl
14476 }{
14477 /PassContextClick~\g_mix_contextclick_tl
14478 }
14479 >>
14480 \tl_if_blank:VF\l_mix_scripts_tl{/Scripts~[\l_mix_scripts_tl]}
14481 >>
14482 /Deactivation~<</Condition\g_mix_deact_tl>>
14483 }
14484 \tl_set:Nx\l_mix_settings_tl{\mix_pdflastobj:}
14485 \tl_if_empty:NF\g_mix_usrlabel_tl{
14486 \tl_gset_eq:NN\g_mix_label_tl\g_mix_usrlabel_tl
14487 }
14488 % #1:width, #2:height, #3:depth, #4:content (key-value)
14489 \mix_pdfannot:nnnn{\g_mix_wd_tl}{\g_mix_ht_tl}{\g_mix_dp_tl}{
14490 /Subtype/RichMedia
14491 /F~4
14492 /BS~<</W~0/S/S>>
14493 /Contents~(media~embedded~by~media9~[\g_mix_version_tl~(\g_mix_date_tl)])
14494 /NM~(\g_mix_label_tl)
14495 /AP~<</N~\g_mix_appearance_tl>>
14496 /RichMediaSettings~\l_mix_settings_tl
14497 /RichMediaContent~\l_mix_content_tl
14498 }
14499 \tl_if_empty:NF\g_mix_usrlabel_tl{
14500 \mix_keytoaux_now:nn{ann@\g_mix_usrlabel_tl}{\mix_pdflastann:}
14501 \mix_keytoaux_shipout:nn{page@\g_mix_usrlabel_tl}{
14502 \noexpand\the\g@mix@page@int}
14503 }

```



```

14504 \mix_pdfobj:nnn{}{dict}{
14505 /S/JavaScript/JS~(
14506   try{
14507     if(typeof(annotRM)=='undefined'){annotRM=new~Array();}
14508     if(typeof(annotRM['\g_mix_label_tl'])=='undefined'){
14509       annotRM['\g_mix_label_tl']=
14510         this.getAnnotRichMedia(this.pageNum,'\g_mix_label_tl');
14511     }
14512     \str_if_eq_x:nnF{\g_mix_usrpbtn_tl}{none}{
14513       if(typeof(ocgBtn\int_use:N\g_mix_rmcnt_int)=='undefined'){
14514         var~ocgs=this.getOCGs(this.pageNum);
14515         for(var~i=0;i<ocgs.length;i++){
14516           if(ocgs[i].name=='MediaPlayerButton\int_use:N\g_mix_rmcnt_int'){
14517             var~ocgBtn\int_use:N\g_mix_rmcnt_int=ocgs[i];
14518           }
14519         }
14520       }
14521       if(
14522         !annotRM['\g_mix_label_tl'].activated&&(
14523           app.viewerType=='Reader' ||
14524           app.viewerType=='Exchange' ||
14525           app.viewerType=='Exchange-Pro'
14526         )&&app.viewerVersion>=9
14527       ){
14528         ocgBtn\int_use:N\g_mix_rmcnt_int.state=true;
14529       }
14530     }
14531   }catch(e){}
14532   this.dirty=false;
14533 )
14534 }
14535 \mix_pdfannot:nnnn{Opt}{Opt}{Opt}{
14536 /Subtype/Widget
14537 /FT/Btn/Ff~65537/F~2
14538 /BS~<</W~0>>
14539 /T~(fd@\g_mix_label_tl)
14540 /AA~<</PO~\mix_pdflastobj:~/PV~\mix_pdflastobj:>>
14541 }
14542 \mix_appendtofields:n{\mix_pdflastann:}
14543 \hbox_overlap_right:n{\box_use:N\l_mix_poster_box}
14544 \str_if_eq_x:nnTF{\g_mix_usrpbtn_tl}{none}{
14545   \hbox_to_wd:nn{\g_mix_wd_tl}{
14546     \vrule~width~\c_zero_dim~height~\g_mix_ht_tl~depth~\g_mix_dp_tl\hss
14547   }
14548 }{%insert play button overlay
14549   \mix_insert_btnocg: %create OCG
14550   \cs_gset_eq:Nc\mix_pbbtn:NN{g@mix@pbbtn@\g_mix_usrpbtn_tl @tl}
14551   \group_begin:
14552   \cs_if_exist:NT\textdir{\textdir TLT}
14553   \sbox\l_mix_pbbtn_box{\mix_pbbtn:NN\g_mix_wd_tl\g_mix_tt_tl}
14554   \box_move_down:nn{\g_mix_dp_tl}{
14555     \hbox_to_wd:nn{\g_mix_wd_tl}{
14556       \vbox_to_ht:nn{\g_mix_tt_tl}{
14557         \vss

```



```

14558         \ocgbase_oc_bdc:n{\g_mix_btnocg_tl}
14559         \box_use:N\l_mix_pbtn_box
14560         \ocgbase_oc_emc:
14561     }
14562 }
14563 }
14564 \group_end:
14565 }
14566 \int_gincr:N\g_mix_rmcnt_int
14567 }
14568 \mix_endLTR:
14569 \group_end:
14570 }
14571 \tl_set_eq:NN\l_mix_includemedia_tl\includemedia
14572 \tl_set:Nn\includemedia{\mix_uribegin:\l_mix_includemedia_tl}
14573
14574 \RenewDocumentCommand\mediabutton{0{}m}{%#1 options, #2 normal button text
14575 \mix_uridend:
14576 \group_begin:
14577 \mix_beginLTR:
14578 \leavevmode
14579 %reset various variables
14580 \tl_gclear:N\g_mix_overbtn_tl
14581 \tl_gclear:N\g_mix_downbtn_tl
14582 \tl_gclear:N\g_mix_btnactions_tl
14583 \tl_gclear:N\g_mix_tooltip_tl
14584 %process options
14585 \bool_gset_eq:NN\g_mix_btndraft_bool\g_mix_pkgdraft_bool
14586 \mix_uribegin: %treat URI characters correctly
14587 \keys_set:nn{media9/mbtndraft}{#1} %detect draft/final on first pass
14588 \bool_if:NF\g_mix_btndraft_bool{\keys_set:nn{media9/mbtn}{#1}}
14589 \mix_uridend:
14590 %normal button appearance
14591 %\hbox_set:Nn\l_mix_poster_box{#2}
14592 \sbox\l_mix_poster_box{\if@RTL\beginR\fi#2\if@RTL\endR\fi}
14593 \tl_set:Nx\width {\dim_use:N\box_wd:N\l_mix_poster_box}
14594 \tl_set:Nx\height{\dim_use:N\box_ht:N\l_mix_poster_box}
14595 \tl_set:Nx\depth {\dim_use:N\box_dp:N\l_mix_poster_box}
14596 \bool_if:NTF\g_mix_btndraft_bool{\box_use:N\l_mix_poster_box}{
14597 \sbox\l_mix_poster_box{\bool_if:NTF\g_pbs_landscape_bool{\rotatebox{90}{
14598 \box_use:N\l_mix_poster_box}}{\box_use:N\l_mix_poster_box}}
14599 \mix_pdfxform:n{\l_mix_poster_box}
14600 \tl_set:Nx\g_mix_normalbtn_tl{\mix_pdflastxform:}
14601 %insert widget annotation
14602 \mix_pdfannot:nnnn{\width}{\height}{\depth}{
14603 /Subtype/Widget
14604 /T~(mbtn@\int_use:N\g_mix_mbtncnt_int)
14605 \tl_if_empty:NF\g_mix_tooltip_tl{TU~(\g_mix_tooltip_tl)}
14606 /FT/Btn/Ff~65536
14607 \tl_if_empty:NF\g_mix_downbtn_tl{H/I}{H/P}
14608 /AP~<<
14609 /N~\g_mix_normalbtn_tl
14610 \tl_if_empty:NF\g_mix_overbtn_tl{R~\g_mix_overbtn_tl}
14611 \tl_if_empty:NF\g_mix_downbtn_tl{D~\g_mix_downbtn_tl}

```



```

14612 >>
14613 /MK~<<
14614 /TP~1~/IF~<</S/A/FB~true/A~[0.0~0.0]>>
14615 /I~\g_mix_normalbtn_tl
14616 \tl_if_empty:NF\g_mix_overbtn_tl{/RI~\g_mix_overbtn_tl}
14617 \tl_if_empty:NF\g_mix_downbtn_tl{/IX~\g_mix_downbtn_tl}
14618 >>
14619 /A~<<
14620 /S/JavaScript/JS~(app.focusRect=false;)
14621 %sequence of actions to perform
14622 \tl_if_empty:NF\g_mix_btnactions_tl{/Next~[\g_mix_btnactions_tl]}
14623 >>
14624 }
14625 \mix_appendtofields:n{\mix_pdflastann:}
14626 \hbox_to_wd:nn{\width}{
14627 \vrule~width~\c_zero_dim~height~\height~depth~\depth\hss
14628 }
14629 \int_gincr:N\g_mix_mbtncnt_int
14630 }
14631 \mix_endLTR:
14632 \group_end:
14633 }
14634 \tl_set_eq:NN\l_mix_mediabutton_tl\mediabutton
14635 \tl_set:Nn\mediabutton{\mix_uribegin:\l_mix_mediabutton_tl}
14636
14637

```

## 82 File memoir-xetex-bidi.def

```

14638 \ProvidesFile{memoir-xetex-bidi.def}[2017/06/09 v0.6 bidi adaptations for memoir class for Xe
14639 \renewcommand{\keepthetitle}{%
14640 \@bsmtitleempty
14641 \global\let\thanks\relax
14642 \global\let\LTRthanks\relax
14643 \global\let\RTLthanks\relax
14644 \global\let\and\relax
14645 \global\let\andnext\relax
14646 \global\let\@thanks\@empty
14647 \global\let\@title\@empty
14648 \global\let\@author\@empty
14649 \global\let\@date\@empty}
14650 \renewcommand{\maketitle}{\par
14651 \beginingroup
14652 \@bsmarkseries
14653 \def\@makefnmark{\@textsuperscript{%
14654 \normalfont\@bsthanksheadpre \tamark \@bsthanksheadpost}}}%
14655 \long\def\@makefntext##1{\makethanksmark ##1}
14656 \if@twocolumn
14657 \ifnum \col@number=\@one
14658 \@maketitle
14659 \else
14660 \twocolumn[\@maketitle]%
14661 \fi
14662 \else

```





```

14663 \ifdim\pagetotal>\z@
14664 \newpage
14665 \fi
14666 \global\@topnum\z@
14667 \@maketitle
14668 \fi
14669 \thispagestyle{title}\@thanks
14670 \endgroup
14671 \bscontmark % \setcounter{footnote}{0}%
14672 }
14673 \renewcommand*{\memRTLleftskip}{\if@RTL\rightskip\else\leftskip\fi}
14674 \renewcommand*{\memRTLrightskip}{\if@RTL\leftskip\else\rightskip\fi}
14675 \renewcommand*{\memRTLvleftskip}{\if@RTL\vrightskip\else\vleftskip\fi}
14676 \renewcommand*{\memRTLvrightskip}{\if@RTL\vleftskip\else\vrightskip\fi}
14677 \renewcommand*{\memRTLraggedright}{\if@RTL\raggedleft\else\raggedright\fi}
14678 \renewcommand*{\memRTLraggedleft}{\if@RTL\raggedright\else\raggedleft\fi}
14679 \renewcommand*{\thesection}{\thechapter\@SepMark\@arabic\c@section}
14680 \renewcommand*{\thesubsection}{%
14681 \thechapter\@SepMark\@arabic\c@subsection}
14682 \renewcommand*{\thesubsubsection}{%
14683 \thechapter\@SepMark\@arabic\c@subsubsection}
14684 \renewcommand*{\theparagraph}{%
14685 \thechapter\@SepMark\@arabic\c@paragraph}
14686 \renewcommand*{\thesubparagraph}{%
14687 \thechapter\@SepMark\@arabic\c@subparagraph}
14688 \renewcommand{\setthesection}{\thechapter\@SepMark\Alph{section}}
14689 \renewcommand{\theequation}{%
14690 \ifnum \c@chapter>\z@ \thechapter\@SepMark\fi \@arabic\c@equation}
14691 \renewcommand{\thefigure}{\thechapter\@SepMark\@arabic\c@figure}
14692 \renewcommand{\thetable}{\thechapter\@SepMark\@arabic\c@table}
14693 \ifartopt
14694 \chapterstyle{article}
14695 \counterwithout{figure}{chapter}
14696 \counterwithout{table}{chapter}
14697 \counterwithout{footnote}{chapter}
14698 \counterwithout{equation}{chapter}
14699 \renewcommand{\chaptername}{\@arabic\c@chapter}
14700 \renewcommand{\maketitlehookb}{%
14701 \vskip -1.5\topsep\vskip -1.5\partopsep}
14702 \renewcommand{\maketitlehookc}{%
14703 \vskip -1.5\topsep\vskip -1.5\partopsep}
14704 \fi
14705 \long\def\@makecaption#1#2{\let\@memtempa\relax
14706 \ifdim\prevdepth>-99\p@ \vskip\abovecaptionskip
14707 \else \def\@memtempa{\vbox to\topskip{}}\fi
14708 \let\@contfnote\footnote \renewcommand{\footnote}[2]{}{}
14709 \let\@contfmark\footnotemark \renewcommand{\footnotemark}[1]{}{}
14710 \sbox\@tempboxa{\@contfnote #1\@contdelim \@conttfont #2\@contfinal}
14711 \let\footnote\@contfnote
14712 \let\footnotemark\@contfmark
14713 \ifdim\wd\@tempboxa<\linewidth \centering \fi
14714 \if@contcw
14715 \centering
14716 \parbox{\@contcwidth}{%

```



```

14717 \ifdim\wd\@tempboxa<\@contcwidth \centering \fi
14718 \fi
14719 \ifdim\wd\@tempboxa<\linewidth
14720 \@contpre
14721 {\@contnfont #1\@contdelim}\@memtempa
14722 {\@contcshortstyle \@conttfont #2\@contfinal\par}
14723 \else
14724 \if@conthang
14725 \sbox\@tempboxa{\@contnfont #1\@contdelim}
14726 \@contpre%
14727 {\@contcstyle\hangindent=\wd\@tempboxa
14728 \noindent\box\@tempboxa\@memtempa \@conttfont #2\@contfinal\par}
14729 \else
14730 \if@contindent
14731 \@contpre%
14732 {\@contnfont #1\@contdelim}\@memtempa
14733 {\@contcstyle\hangindent=\@contindw
14734 \hangafter=\@one\@conttfont #2\@contfinal\par}% <- v1.4
14735 \else
14736 \@contpre%
14737 {\@contnfont #1\@contdelim}\@memtempa
14738 {\@contcstyle \@conttfont #2\@contfinal\par}
14739 \fi
14740 \fi
14741 \fi
14742 \@contpost
14743 \if@contcw
14744 \par
14745 } % end of the \parbox
14746 \fi
14747 \vskip\belowcaptionskip}
14748 \@ifpackageloaded{caption}{%
14749 \AtBeginPackage{caption}{
14750 \ClassWarningNoLine{memoir}{%
14751 You are using the caption package with the memoir \MessageBreak
14752 class. This may cause unexpected or inconsistent \MessageBreak
14753 results if you use any of memoir's captioning facilities}
14754 }
14755 \long\def\@makecaption##1##2{%
14756 \vskip\abovecaptionskip
14757 \sbox\@tempboxa{\if@RTL\beginR\fi##1: ##2\if@RTL\endR\fi}%
14758 \ifdim \wd\@tempboxa >\hsize
14759 \if@RTL\beginR\fi##1: ##2\if@RTL\endR\fi\par
14760 \else
14761 \global \@minipagefalse
14762 \hb@xt@\hsize{\hfil\box\@tempboxa\hfil}%
14763 \fi
14764 \vskip\belowcaptionskip}
14765
14766 \def\caption{%
14767 \ifx\@capttype\@undefined
14768 \@latex@error{\noexpand\caption outside float}\@ehd
14769 \expandafter\@gobble
14770 \else

```



```

14771 \refstepcounter\@capttype
14772 \expandafter\@firstofone
14773 \fi
14774 {\@dblarg{\@caption\@capttype}}%
14775 }
14776
14777 \long\def\@caption##1[##2]##3{%
14778 \par
14779 \addcontentsline{\csname ext@##1\endcsname}{##1}%
14780 {\protect\numberline{\csname the##1\endcsname}{\ignorespaces ##2}}%
14781 \begingroup
14782 \@parboxrestore
14783 \if@minipage
14784 \setminipage
14785 \fi
14786 \normalsize
14787 \makecaption{\csname fnum@##1\endcsname}{\ignorespaces ##3}\par
14788 \endgroup}
14789 }{}
14790 \renewenvironment{thebibliography}[1]{%
14791 \bibsection
14792 \if@RTL\if@LTRbibitems\@RTLfalse\else\fi\else\if@RTLbibitems\@RTLtrue\else\fi\fi
14793 \bidi@thebibliography@font@hook%
14794 \begin{bibitemlist}{#1}}{\end{bibitemlist}\postbibhook}

```

## 83 File midfloat-xetex-bidi.def

```

14795 \ProvidesFile{midfloat-xetex-bidi.def}[2017/05/06 v0.4 bidi adaptations for midfloat package]
14796 \def\RTL@outputdblcol{%
14797 \if@firstcolumn
14798 \global \@firstcolumnfalse
14799 \global\setbox\@leftcolumn\copy\@outputbox
14800 \splitmaxdepth\maxdimen
14801 \vbadness\maxdimen
14802 \setbox\@outputbox\vbox{\unvbox\@outputbox\unskip}%
14803 \setbox\@outputbox\vsplit\@outputbox to\maxdimen
14804 \toks@\expandafter{\topmark}%
14805 \xdef\@firstcoltopmark{\the\toks@}%
14806 \toks@\expandafter{\splitfirstmark}%
14807 \xdef\@firstcolfirstmark{\the\toks@}%
14808 \ifx\@firstcolfirstmark\@empty
14809 \global\let\@setmarks\relax
14810 \else
14811 \gdef\@setmarks{%
14812 \let\firstmark\@firstcolfirstmark
14813 \let\topmark\@firstcoltopmark}%
14814 \fi
14815 \global\c@colht\@colht\global\c@addvipersep\z@
14816 \ifnum\j@o@sk>0
14817 \remove@strip\j@o@sar
14818 \global\@colht\the\j@o@pr
14819 \ifdim\right@cor>\z@
14820 \global\advance\@colht by\right@cor
14821 \fi

```



```

14822     \global\advance\@colht by\cor@height
14823     \global\cor@height=0pt
14824     \fi
14825     \global \setbox\@rightcolumn \vbox{%
14826 \else
14827     \ifdim\c@colht>\@colht
14828         \@tempdima\@colht
14829         \ifdim\@colht>\z@
14830             \global\setbox\@rightcolumn \vbox{%
14831                 \unvbox\@rightcolumn
14832                 \vbox to\@tempdima{%
14833                     \vskip\c@addvipersep\unvbox\@outputbox}%
14834                 \vskip\stripsep
14835                 \vrule height\the\jua@ht width 0pt depth 0pt
14836                 \vskip\stripsep
14837             }%
14838             \global\c@addvipersep\m@addvipersep
14839         \else
14840             \global\setbox\@rightcolumn \vbox{%
14841                 \unvbox\@rightcolumn
14842                 \vrule height\the\jua@ht width 0pt depth 0pt
14843                 \vskip\stripsep
14844             }%
14845         \fi
14846         \ifnum\jua@sk>0
14847             \remove@strip\jua@sar
14848             \global\@colht\the\jua@pr
14849             \global\advance\@colht by -\ht\@rightcolumn
14850             \global\advance\@colht by\cor@height
14851             \global\cor@height=0pt
14852         \else
14853             \global\advance\c@colht by-\ht\@rightcolumn
14854             \global\@colht\c@colht
14855         \fi
14856     \else
14857     \global\@firstcolumntrue
14858     \global\setbox\@outputbox\vbox to\ht\@leftcolumn{%
14859         \unvbox\@rightcolumn
14860         \vskip\c@addvipersep
14861         \unvbox\@outputbox
14862     }%
14863     \setbox\@outputbox \vbox {%
14864         \hb@xt@\textwidth {%
14865             \hskip \columnwidth
14866             \hfil
14867             \vrule \@width\columnseprule
14868             \hfil
14869             \hb@xt@\columnwidth {%
14870                 \bidi@firstcolumn@status@write%
14871                 \box\@leftcolumn \hss}%
14872             \hskip-\textwidth
14873             \hb@xt@\columnwidth {%
14874                 \bidi@lastcolumn@status@write%
14875                 \box\@outputbox \hss}%

```



```

14876             \hskip\columnwidth
14877             \hskip\columnsep}%
14878             }%
14879     \@combinedblfloats
14880     \@setmarks
14881     \@outputpage
14882     \begingroup
14883     \@dblfloatplacement
14884     \@startdblcolumn
14885     \@whiles\if@colmade \fi
14886     {\@outputpage
14887     \@startdblcolumn}%
14888     \endgroup
14889     \global\jua@sk=0\global\jua@sar={}%
14890     \global\cor@height\z@\global\c@advipersep\z@
14891     \fi
14892 \fi
14893 }
14894
14895
14896 \def\LTR@outputdblcol{%
14897   \if@firstcolumn
14898     \global \@firstcolumnfalse
14899     \global\setbox\@leftcolumn\copy\@outputbox
14900     \splitmaxdepth\maxdimen
14901     \vbadness\maxdimen
14902     \setbox\@outputbox\vbox{\unvbox\@outputbox\unskip}%
14903     \setbox\@outputbox\vsplit\@outputbox to\maxdimen
14904     \toks@\expandafter{\topmark}%
14905     \xdef\@firstcoltopmark{\the\toks@}%
14906     \toks@\expandafter{\splitfirstmark}%
14907     \xdef\@firstcolfirstmark{\the\toks@}%
14908     \ifx\@firstcolfirstmark\@empty
14909       \global\let\@setmarks\relax
14910     \else
14911       \gdef\@setmarks{%
14912         \let\firstmark\@firstcolfirstmark
14913         \let\topmark\@firstcoltopmark}%
14914     \fi
14915     \global\c@colht\@colht\global\c@advipersep\z@
14916     \ifnum\jua@sk>0
14917       \remove@strip\jua@sar
14918       \global\@colht\the\jua@pr
14919       \ifdim\right@cor>\z@
14920         \global\advance\@colht by\right@cor
14921       \fi
14922       \global\advance\@colht by\cor@height
14923       \global\cor@height=0pt
14924     \fi
14925     \global \setbox\@rightcolumn \vbox{}%
14926   \else
14927     \ifdim\c@colht>\@colht
14928       \tempdima\@colht
14929       \ifdim\@colht>\z@

```



```

14930      \global\setbox\@rightcolumn \vbox{%
14931          \unvbox\@rightcolumn
14932          \vbox to\@tempdima{%
14933              \vskip\c@addvipersep\unvbox\@outputbox}%
14934          \vskip\stripsep
14935          \vrule height\the\jua@ht width 0pt depth 0pt
14936          \vskip\stripsep
14937          }%
14938      \global\c@addvipersep\m@addvipersep
14939      \else
14940      \global\setbox\@rightcolumn \vbox{%
14941          \unvbox\@rightcolumn
14942          \vrule height\the\jua@ht width 0pt depth 0pt
14943          \vskip\stripsep
14944          }%
14945      \fi
14946      \ifnum\jua@sk>0
14947          \remove@strip\jua@sar
14948          \global\@colht\the\jua@pr
14949          \global\advance\@colht by -\ht\@rightcolumn
14950          \global\advance\@colht by\cor@height
14951          \global\cor@height=0pt
14952      \else
14953          \global\advance\c@colht by-\ht\@rightcolumn
14954          \global\@colht\c@colht
14955      \fi
14956  \else
14957      \global\@firstcolumntrue
14958      \global\setbox\@outputbox\vbox to\ht\@leftcolumn{%
14959          \unvbox\@rightcolumn
14960          \vskip\c@addvipersep
14961          \unvbox\@outputbox
14962          }%
14963      \setbox\@outputbox \vbox {%
14964          \hb@xt@\textwidth {%
14965              \hb@xt@\columnwidth {%
14966                  \bidi@firstcolumn@status@write%
14967                  \box\@leftcolumn \hss}%
14968              \hfil
14969              \vrule \@width\columnseprule
14970              \hfil
14971              \hb@xt@\columnwidth {%
14972                  \bidi@lastcolumn@status@write%
14973                  \box\@outputbox \hss}%
14974                  }%
14975              }%
14976      \@combinedblfloats
14977      \@setmarks
14978      \@outputpage
14979      \begingroup
14980          \@dblfloatplacement
14981          \@startdblcolumn
14982          \@whilesw\if@fcolmade \fi
14983          {\@outputpage

```



```

14984         \@startdblcolumn}%
14985     \endgroup
14986     \global\jua@sk=0\global\jua@sar={}%
14987     \global\cor@height\z@\global\c@addvipersep\z@
14988     \fi
14989 \fi
14990 }
14991
14992
14993 \def\@strip[#1/#2]{\global\@tempdima=#1\global\@tempdimb=#2%
14994   \global \setbox\@viper\vbox\bgroup\if@RTLmain\moveleft\dimexpr(\columnwidth+\columnsep)\fi
14995     \hsize\textwidth
14996     \@parboxrestore
14997     \col@number \@ne
14998     \vrule height\topskip width0pt depth0pt
14999 }
15000
15001 \def\endstrip{%
15002     \egroup\egroup
15003     \if@firstcolumn
15004         \ifdim\pagetotal>\z@
15005             \vskip\stripsep
15006             \global\ht@strip\pagegoal
15007             \global\advance\ht@strip by-\pagetotal
15008             \global\advance\ht@strip by-\stripsep
15009             \global\advance\ht@strip by-\ht\@viper
15010             \global\advance\ht@strip by-\stripsep
15011             \global\jua@ht=\ht\@viper
15012         \else
15013             \global\ht@strip\z@
15014         \fi
15015         \ifdim\ht@strip>\z@
15016             \unvbox\@viper
15017             \vskip\stripsep
15018             \add@strip{\the\pagetotal}{\the\jua@ht}{\the\@tempdima}{\the\@tempdimb}%
15019             \global\advance\jua@sk by1
15020         \else
15021             \@latex@error{Strip needs more place!}\@ehc
15022             \if@vihproof
15023                 \framebox[\columnwidth]{??? Strip ???}%
15024             \fi
15025         \fi
15026     \else
15027         \@latex@error{Strip is used only on left column!}\@ehc
15028         \if@vihproof
15029             \framebox[\columnwidth]{??? Strip ???}%
15030         \fi
15031     \fi
15032 }

```

## 84 File minitoc-xetex-bidi.def

```

15033 \ProvidesFile{minitoc-xetex-bidi.def}[2010/07/25 v0.1 bidi adaptations for minitoc package f
15034 \def\@undottedtocline#1#2#3#4#5{%

```



```

15035 \ifnum #1>\c@tocdepth\relax \else
15036 \vskip \z@ plus.2\p@
15037 {\if@RTL\rightrightskip\else\leftskip\fi #2\relax \if@RTL\leftskip\else\rightrightskip\fi \@tocmargin
15038 \parindent #2\relax\@afterindenttrue
15039 \interlinepenalty\@M
15040 \leavevmode
15041 \@tempdima #3\relax \advance\if@RTL\rightrightskip\else\leftskip\fi \@tempdima \hbox{}}%
15042 \hskip -\if@RTL\rightrightskip\else\leftskip\fi
15043 #4\nobreak\hfill \nobreak
15044 \null\par}%
15045 \fi}
15046 \def\@Undottedtocline#1#2#3#4#5{%
15047 \ifnum #1>\c@tocdepth\relax \else
15048 \vskip \z@ \@plus.2\p@
15049 {\if@RTL\rightrightskip\else\leftskip\fi #2\relax \if@RTL\leftskip\else\rightrightskip\fi \@tocmargin
15050 \parindent #2\relax\@afterindenttrue
15051 \interlinepenalty\@M
15052 \leavevmode
15053 \@tempdima #3\relax
15054 \advance\if@RTL\rightrightskip\else\leftskip\fi \@tempdima \null\nobreak\hskip -\if@RTL\rightrightskip\fi
15055 {\coffeesfont #4}\nobreak \nobreak\null
15056 \par}%
15057 \fi}
15058 \def\@Undottedtoclinep#1#2#3#4#5{%
15059 \ifnum #1>\c@tocdepth\relax \else
15060 \vskip \z@ \@plus.2\p@
15061 {\if@RTL\rightrightskip\else\leftskip\fi #2\relax \if@RTL\leftskip\else\rightrightskip\fi \@tocmargin
15062 \parindent #2\relax\@afterindenttrue
15063 \interlinepenalty\@M
15064 \leavevmode
15065 \@tempdima #3\relax
15066 \advance\if@RTL\rightrightskip\else\leftskip\fi \@tempdima \null\nobreak\hskip -\if@RTL\rightrightskip\fi
15067 {\#4}\nobreak \hfill \nobreak\null
15068 \hb@xt@\@pnumwidth{\hfil\normalfont \normalcolor #5}}%
15069 \par}%
15070 \fi}

```

## 85 File multicol-xetex-bidi.def

```

15071 \ProvidesFile{multicol-xetex-bidi.def}[2022/02/01 v1.3 bidi adaptations for multicol package]
15072 \def\page@sofar{%
15073 \process@cols\mult@rightbox
15074 {\ifvoid\count@
15075 \setbox\count@\hbox to\hsize}%
15076 \else
15077 \wd\count@\hsize
15078 \fi}%
15079 \count@\col@number \advance\count@\m@ne
15080 \mult@info\z@
15081 {\Column spec: \the\full@width\space = indent
15082 + columns + sep =\MessageBreak
15083 \the\multicol@leftmargin\space
15084 + \the\col@number\space
15085 x \the\hsize\space

```





```

15086         + \the\count@\space
15087         x \the\columnsep
15088     }%
15089 \ifvmode\else\errmessage{Multicol Error}\fi
15090 \nointerlineskip
15091 \setbox\z@\hbox{p}\global\dimen\tw@\dp\z@
15092 \moveright\multicol@leftmargin
15093 \hbox to\full@width{%
15094     \bidi@multicol@align@columns
15095     \rlap{\phantom p}%
15096 }%
15097 \prevdepth\z@
15098 \kern-\dimen\tw@
15099 \ifdim\dimen\tw@ > \mc@gridwarn
15100 \PackageWarning{multicol}%
15101 {Very deep columns!\MessageBreak
15102   Grid alignment might be broken}%
15103 \fi
15104 }
15105 \def\LTR@column@boxes{%
15106     \process@cols\mult@firstbox{%
15107         \ifdim\dp\count@>\dimen\tw@
15108             \global\dimen\tw@\dp\count@ \fi
15109             \mc@col@status@write
15110             \box\count@
15111             \hss{\columnseprulecolor\vrule
15112                 \@width\columnseprule}\hss}%
15113     \ifdim\dp\mult@rightbox>\dimen\tw@
15114         \global\dimen\tw@\dp\mult@rightbox \fi
15115     \mc@lastcol@status@write
15116     \box\mult@rightbox
15117 }
15118
15119 \def\RTL@column@boxes{%
15120     \process@cols\mult@firstbox{%
15121         \hskip\hsize
15122         \hss{\columnseprulecolor\vrule
15123             \@width\columnseprule}\hss
15124     }%
15125     \hskip\hsize
15126     \process@cols\mult@firstbox{%
15127         \ifdim\dp\count@>\dimen\tw@
15128             \global\dimen\tw@\dp\count@ \fi
15129         \hskip-\hsize
15130         \mc@col@status@write
15131         \box\count@
15132         \hskip-\hsize
15133         \hskip-\columnsep
15134     }%
15135     \ifdim\dp\mult@rightbox>\dimen\tw@
15136         \global\dimen\tw@\dp\mult@rightbox \fi
15137     \hskip-\hsize
15138     \mc@lastcol@status@write
15139     \box\mult@rightbox

```



```

15140     \hskip-\hsize
15141     \hskip\full@width
15142 }
15143
15144 \newcommand\RTLmulticolcolumns
15145     {\let\bidimulticol@align@columns
15146       \RTL@column@boxes}
15147 \newcommand\LTRmulticolcolumns
15148     {\let\bidimulticol@align@columns
15149       \LTR@column@boxes}
15150 \newcommand\bidimulticol@align@columns
15151     {\ifRTLmain\RTL@column@boxes\else\LTR@column@boxes\fi}
15152 \bidimulticol@AtEndPreamble{%
15153   \if@bidimulticol@csdef{footinsv@l}{%
15154     \def\footnoterule{\kern-3\p@
15155       \hrule \@width \textwidth \kern 2.6\p@}%
15156   }{}%
15157 }
15158 \def\multicols#1{\col@number#1\relax
15159   \ifnum\col@number<\tw@
15160     \PackageWarning{multicol}%
15161       {Using '\number\col@number'
15162        columns doesn't seem a good idea.^^J
15163        I therefore use two columns instead}%
15164     \col@number\tw@ \fi
15165   \ifnum\col@number>20
15166     \PackageError{multicol}%
15167       {Too many columns}%
15168     {Current implementation doesn't
15169      support more than 20 columns.%
15170     \MessageBreak
15171     I therefore use 20 columns instead}%
15172   \col@number20 \fi
15173   \ifx\@footnotetext\mult@footnotetext
15174   \else
15175     \let\orig@footnotetext\@footnotetext
15176     \let\@footnotetext\mult@footnotetext
15177   \fi
15178   \ifx\@LTRfootnotetext\mult@LTRfootnotetext
15179   \else
15180     \let\orig@LTRfootnotetext\@LTRfootnotetext
15181     \let\@LTRfootnotetext\mult@LTRfootnotetext
15182   \fi
15183   \ifx\@RTLfootnotetext\mult@RTLfootnotetext
15184   \else
15185     \let\orig@RTLfootnotetext\@RTLfootnotetext
15186     \let\@RTLfootnotetext\mult@RTLfootnotetext
15187   \fi
15188   \@ifnextchar[\mult@cols{\mult@cols[]}]
15189 \long\def\mult@footnotetext#1{\begingroup
15190   \hsize\textwidth
15191   \columnwidth\textwidth
15192   \orig@footnotetext{#1}\endgroup}
15193 \long\def\mult@LTRfootnotetext#1{\begingroup

```



```

15194         \hsize\textwidth
15195         \columnwidth\textwidth
15196         \orig@LTRfootnotetext{#1}\endgroup}
15197 \long\def\mult@RTLfootnotetext#1{\begingroup
15198         \hsize\textwidth
15199         \columnwidth\textwidth
15200         \orig@RTLfootnotetext{#1}\endgroup}
15201 \def\right@footnoterule{%
15202     \kern-3\p@
15203     \hbox to \textwidth{\hskip \dimexpr\textwidth-.4\columnwidth\relax \hrulefill }
15204     \kern2.6\p@}
15205 \def\textwidth@footnoterule{\kern-3\p@
15206     \hrule \@width \textwidth \kern 2.6\p@}
15207 \def\bidileave@mult@copyins{%
15208     \advance\dimen@-\skip\@bidi@copyins@
15209     \advance\dimen@-\ht\@bidi@copyins@
15210 }
15211 \bidi@AtEndPreamble{%
15212     \if@bidi@csdef{footinsv@l}{%
15213         \def\bidileave@mult@footinsv@r{%
15214             \advance\dimen@-\skip\footinsv@r
15215             \advance\dimen@-\ht\footinsv@r
15216         }%
15217         \def\bidileave@mult@footinsv@l{%
15218             \advance\dimen@-\skip\footinsv@l
15219             \advance\dimen@-\ht\footinsv@l
15220         }%
15221         \def\bidii@init@mult@footinsv@r{%
15222             \multiply\count\footinsv@r\col@number
15223             \multiply\skip \footinsv@r\col@number
15224         }%
15225         \def\bidii@init@mult@footinsv@l{%
15226             \multiply\count\footinsv@l\col@number
15227             \multiply\skip \footinsv@l\col@number
15228         }%
15229         \def\bidireinsert@footnotesv@r{\ifvoid\footinsv@r\else
15230             \insert\footinsv@r{}\fi}%
15231         \def\bidireinsert@footnotesv@l{\ifvoid\footinsv@l\else
15232             \insert\footinsv@l{}\fi}%
15233         \bidi@patchcmd{\prepare@multicols}{%
15234             \reinsert@footnotes
15235         }{%
15236             \reinsert@footnotes
15237             \bidi@init@mult@footinsv@r
15238             \bidireinsert@footnotesv@r
15239             \bidi@init@mult@footinsv@l
15240             \bidireinsert@footnotesv@l
15241         }{}{}%
15242         \bidi@patchcmd{\multi@column@out}{%
15243             \ifnum \c@tracingmulticols>\thr@@
15244         }{%
15245             \ifvoid\footinsv@r
15246             \ifvoid\footinsv@l
15247             \else

```



```

15248         \PackageWarning{multicol}%
15249         {I moved some lines to
15250         the next page.\MessageBreak
15251         Footnotes on page
15252         \thepage\space might be wrong}%
15253     \fi
15254 \else
15255     \PackageWarning{multicol}%
15256     {I moved some lines to
15257     the next page.\MessageBreak
15258     Footnotes on page
15259     \thepage\space might be wrong}%
15260 \fi
15261 \ifnum \c@tracingmulticols>\thr@@
15262 }{}{}%
15263 \bidi@patchcmd{\endmulticols}{%
15264 \reinsert@footnotes
15265 }{%
15266 \reinsert@footnotes
15267 \bidi@reinsert@footnotesv@r
15268 \bidi@reinsert@footnotesv@l
15269 }{}{}%
15270 \bidi@patchcmd{\speci@ls}{%
15271 \reinsert@footnotes
15272 }{%
15273 \reinsert@footnotes
15274 \bidi@reinsert@footnotesv@r
15275 \bidi@reinsert@footnotesv@l
15276 }{}{}%
15277 \bidi@patchcmd{\speci@ls}{%
15278 \reinsert@footnotes
15279 }{%
15280 \reinsert@footnotes
15281 \bidi@reinsert@footnotesv@r
15282 \bidi@reinsert@footnotesv@l
15283 }{}{}%
15284 }{}%
15285 \bidi@patchcmd{\multi@column@out}{%
15286 \ifvbox \@kludgeins
15287 }{%
15288 \if@bidi@csdef{footinsv@l}{%
15289 \divide\skip\footinsv@r\col@number
15290 \ifvoid\footinsv@r \else
15291 \bidi@leave@mult@footins@vr
15292 \fi
15293 \divide\skip\footinsv@l\col@number
15294 \ifvoid\footinsv@l \else
15295 \bidi@leave@mult@footins@vl
15296 \fi
15297 }{}%
15298 \ifvoid\@bidi@copyins@ \else
15299 \bidi@leave@mult@copyins
15300 \fi
15301 \ifvbox \@kludgeins

```



```

15302 }{}{}%
15303 }

```

## 86 File multienum-xetex-bidi.def

```

15304 \ProvidesFile{multienum-xetex-bidi.def}[2011/04/16 v0.1 bidi adaptations for multienum packa
15305 \renewcommand{\itemx}[1]{\parbox[t]{%
15306 {\labelwidth}{\hfill{\labelname}}\hskip\labelsep%
15307 \parbox[t]{\remainx}{\bidi@raggedright #1}\par}%\smallskip
15308 \renewcommand{\itemxx}[2]{\parbox[t]{%
15309 {\labelwidth}{\hfill{\labelname}}\hskip\labelsep
15310 \parbox[t]{.5\remainxx}{\bidi@raggedright #1}\hfill\parbox[t]{%
15311 {\labelwidth}{\hfill{\labelname}}\hskip\labelsep
15312 \parbox[t]{0.5\remainxx}{\bidi@raggedright #2}\smallskip}
15313 \renewcommand{\itemxxx}[3]{\parbox[t]{%
15314 {\labelwidth}{\hfill{\labelname}}\hskip\labelsep%
15315 \parbox[t]{.3333\remainxxx}{\bidi@raggedright #1}\hfill\parbox[t]{%
15316 {\labelwidth}{\hfill{\labelname}}\hskip\labelsep%
15317 \parbox[t]{0.3333\remainxxx}{\bidi@raggedright #2}\hfill\parbox[t]{%
15318 {\labelwidth}{\hfill{\labelname}}\hskip\labelsep%
15319 \parbox[t]{0.3333\remainxxx}{\bidi@raggedright #3}\par}%\smallskip
15320 \renewcommand{\itemxxxx}[4]{\parbox[t]{%
15321 {\labelwidth}{\hfill{\labelname}}\hskip\labelsep
15322 \parbox[t]{.25\remainxxxx}{\bidi@raggedright #1}\hfill\parbox[t]{%
15323 {\labelwidth}{\hfill{\labelname}}\hskip\labelsep
15324 \parbox[t]{0.25\remainxxxx}{\bidi@raggedright #2}\hfill%
15325 \parbox[t]{\labelwidth}{\hfill{\labelname}}\hskip\labelsep
15326 \parbox[t]{0.25\remainxxxx}{\bidi@raggedright #3}\hfill%
15327 \parbox[t]{\labelwidth}{\hfill{\labelname}}\hskip\labelsep
15328 \parbox[t]{0.25\remainxxxx}{\bidi@raggedright #4}\smallskip}
15329 \renewcommand{\itemxxxxx}[5]{\parbox[t]{%
15330 {\labelwidth}{\hfill{\labelname}}\hskip\labelsep
15331 \parbox[t]{0.2\remainxxxxx}{\bidi@raggedright #1}\hfill%
15332 \parbox[t]{\labelwidth}{\hfill{\labelname}}\hskip\labelsep
15333 \parbox[t]{0.2\remainxxxxx}{\bidi@raggedright #2}\hfill%
15334 \parbox[t]{\labelwidth}{\hfill{\labelname}}\hskip\labelsep
15335 \parbox[t]{0.2\remainxxxxx}{\bidi@raggedright #3}\hfill%
15336 \parbox[t]{\labelwidth}{\hfill{\labelname}}\hskip\labelsep
15337 \parbox[t]{0.2\remainxxxxx}{\bidi@raggedright #4}\hfill%
15338 \parbox[t]{\labelwidth}{\hfill{\labelname}}\hskip\labelsep
15339 \parbox[t]{0.2\remainxxxxx}{\bidi@raggedright #5}\smallskip}
15340 \renewcommand{\itemxox}[2]{\parbox[t]{%
15341 {\labelwidth}{\hfill{\labelname}}\hskip\labelsep
15342 \parbox[t]{\remainxox}{\bidi@raggedright #1}\hfill%
15343 \parbox[t]{\labelwidth}{\hfill{\labelname}}\hskip\labelsep
15344 \parbox[t]{0.3333\remainxxx}{\bidi@raggedright #2}\smallskip}
15345 \renewcommand{\itemxox}[2]{\parbox[t]{%
15346 {\labelwidth}{\hfill{\labelname}}\hskip\labelsep
15347 \parbox[t]{0.3333\remainxxx}{\bidi@raggedright #1}\hfill%
15348 \parbox[t]{\labelwidth}{\hfill{\labelname}}\hskip\labelsep
15349 \parbox[t]{\remainxox}{\bidi@raggedright #2}\smallskip}
15350 \renewcommand{\itemxox}[3]{\parbox[t]{%
15351 {\labelwidth}{\hfill{\labelname}}\hskip\labelsep
15352 \parbox[t]{\remainxox}{\bidi@raggedright #1}\hfill%

```



```

15353 \parbox[t]{\labelwidth}{\hfill{\labelname}}\hskip\labelsep
15354 \parbox[t]{0.25\remainxxxx}{\bidi@raggedright #2}\hfill%
15355 \parbox[t]{\labelwidth}{\hfill{\labelname}}\hskip\labelsep
15356 \parbox[t]{0.25\remainxxxx}{\bidi@raggedright #3}\smallskip}
15357 \renewcommand{\itemxxox}[3]{\parbox[t]{%
15358 {\labelwidth}{\hfill{\labelname}}\hskip\labelsep
15359 \parbox[t]{.25\remainxxxx}{\bidi@raggedright #1}\hfill%
15360 \parbox[t]{\labelwidth}{\hfill{\labelname}}\hskip\labelsep
15361 \parbox[t]{\remainxox}{\bidi@raggedright #2}\hfill%
15362 \parbox[t]{\labelwidth}{\hfill{\labelname}}\hskip\labelsep
15363 \parbox[t]{0.25\remainxxxx}{\bidi@raggedright #3}\smallskip}
15364 \renewcommand{\itemxxox}[3]{\parbox[t]{%
15365 {\labelwidth}{\hfill{\labelname}}\hskip\labelsep
15366 \parbox[t]{.25\remainxxxx}{\bidi@raggedright #1}\hfill%
15367 \parbox[t]{\labelwidth}{\hfill{\labelname}}\hskip\labelsep
15368 \parbox[t]{.25\remainxxxx}{\bidi@raggedright #2}\hfill%
15369 \parbox[t]{\labelwidth}{\hfill{\labelname}}\hskip\labelsep
15370 \parbox[t]{\remainxox}{\bidi@raggedright #3}\smallskip}

```

## 87 File natbib-xetex-bidi.def

```

15371 \ProvidesFile{natbib-xetex-bidi.def}[2017/06/09 v0.2 bidi adaptations for natbib package for
15372 \renewenvironment{thebibliography}[1]{%
15373 \bibsection
15374 \parindent\z@
15375 \bibpreamble
15376 \bibfont
15377 \if@RTL\if@LTR\bibitems\@RTLfalse\else\fi\else\if@RTL\bibitems\@RTLtrue\else\fi\fi
15378 \bidi@@thebibliography@font@hook%
15379 \list{\@biblabel{\the\c@NAT@ctr}}{\@bibsetup{#1}\global\c@NAT@ctr\z@}%
15380 \ifNAT@openbib
15381 \renewcommand\newblock{\par}%
15382 \else
15383 \renewcommand\newblock{\hskip .11em \@plus.33em \@minus.07em}%
15384 \fi
15385 \sloppy\clubpenalty4000\widowpenalty4000
15386 \sfcode`\.\@m
15387 \let\NAT@bibitem@first@sw\@firstoftwo
15388 \let\citeN\cite \let\shortcite\cite
15389 \let\citeasnoun\cite
15390 }{%
15391 \bibitem@fin
15392 \bibpostamble
15393 \def\@noitemerr{%
15394 \PackageWarning{natbib}{Empty `thebibliography' environment}%
15395 }%
15396 \endlist
15397 \bibcleanup
15398 }%

```

## 88 File newfloat-xetex-bidi.def

```

15399 \ProvidesFile{newfloat-xetex-bidi.def}[2013/05/22 v0.1 bidi adaptations for newfloat package
15400 \renewcommand*{newfloat@setwithin}[2]{%

```



```

15401 \ifcsname c@chapter\endcsname
15402 \@removefromreset{#1}{chapter}%
15403 \fi
15404 \@removefromreset{#1}{section}%
15405 \edef\@tempa{#2}%
15406 \ifx\@tempa\@empty
15407 \def\@tempa{none}%
15408 \fi
15409 \def\@tempb{none}%
15410 \ifx\@tempa\@tempb
15411 \ifcsname c@chapter\endcsname
15412 \@chapterlistsgap@off{#1}%
15413 \fi
15414 \newfloat@@setwithin{#1}{\{}}%
15415 \else
15416 \def\@tempb{chapter}%
15417 \ifx\@tempa\@tempb
15418 \@addtoreset{#1}{chapter}%
15419 \@chapterlistsgap@on{#1}%
15420 \newfloat@@setwithin{#1}{\ifnum\c@chapter>\z@ \thechapter\@SepMark\fi}{\theHchapter\@SepMark}%
15421 \else
15422 \def\@tempb{section}%
15423 \ifx\@tempa\@tempb
15424 \@addtoreset{#1}{section}%
15425 \ifcsname c@chapter\endcsname
15426 \@addtoreset{#1}{chapter}%
15427 \@chapterlistsgap@on{#1}%
15428 \newfloat@@setwithin{#1}{\thesection\@SepMark}{\theHsection\@SepMark}%
15429 \else
15430 \newfloat@@setwithin{#1}{\ifnum\c@section>\z@ \thesection\@SepMark\fi}{\theHsection\@SepMark}%
15431 \fi
15432 \else
15433 \newfloat@Error{Invalid value `#2' for option `within'}%
15434 \fi
15435 \fi
15436 \fi}

```

## 89 File ntheorem-xetex-bidi.def

```

15437 \ProvidesFile{ntheorem-xetex-bidi.def}[2012/05/01 v0.1 bidi adaptations for ntheorem package]
15438 \gdef\@thm#1#2#3{%
15439 \if@thmmarks
15440 \stepcounter{end\InTheoType ctr}%
15441 \fi
15442 \renewcommand{\InTheoType}{#1}%
15443 \if@thmmarks
15444 \stepcounter{curr#1ctr}%
15445 \setcounter{end#1ctr}{0}%
15446 \fi
15447 \refstepcounter{#2}%
15448 \theorem@prework
15449 \thm@topsepadd \theorem@postskipamount % cf. latex.ltx: \@trivlist
15450 \ifvmode \advance\thm@topsepadd\partopsep\fi
15451 \trivlist

```



```

15452 \topsep \theorempreskipamount
15453 \topsepadd \thm@topsepadd % used by \endparenv
15454 \advance\linewidth -\theorem@indent
15455 \advance\totalleftmargin \theorem@indent
15456 \ifRTL\parshape \@ne Opt \linewidth\else \parshape \@ne \totalleftmargin \linewidth\fi
15457 \ifnextchar[\@yhtm{#1}{#2}{#3}}{\@xthm{#1}{#2}{#3}}

```

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

```

15458 \ProvidesFile{ntheorem-hyper-xetex-bidi.def}[2012/05/01 v0.1 bidi adaptations for ntheorem-h
15459 \gdef\@thm#1#2#3{%
15460 \if@thmmarks
15461 \stepcounter{end\InTheoType ctr}%
15462 \fi
15463 \renewcommand{\InTheoType}{#1}%
15464 \if@thmmarks
15465 \stepcounter{curr#1ctr}%
15466 \setcounter{end#1ctr}{0}%
15467 \fi
15468 \refstepcounter{#2}%
15469 \thm@topsepadd \theorempostskipamount % cf. latex.ltx: \@trivlist
15470 \ifvmode \advance\thm@topsepadd\partopsep\fi
15471 \trivlist
15472 \topsep \theorempreskipamount
15473 \topsepadd \thm@topsepadd % used by \endparenv
15474 \advance\linewidth -\theorem@indent
15475 \advance\totalleftmargin \theorem@indent
15476 \ifRTL\parshape \@ne Opt \linewidth\else \parshape \@ne \totalleftmargin \linewidth\fi
15477 \ifnextchar[\@yhtm{#1}{#2}{#3}}{\@xthm{#1}{#2}{#3}}

```

## 91 File overpic-xetex-bidi.def

```

15478 \ProvidesFile{overpic-xetex-bidi.def}[2015/12/07 v0.1 bidi adaptations for overpic package f
15479 \renewenvironment{overpic}[2][{}]{%
15480 \sbox{\z@}{\includegraphics[#1]{#2}}%
15481 \settodepth{\@tempcnta}{\usebox{\z@}}%
15482 \settoheight{\@tempcntb}{\usebox{\z@}}%
15483 \advance\@tempcntb\@tempcnta%
15484 \settowidth{\@tempcnta}{\usebox{\z@}}%
15485 \setlength{\@tempdima}{\unitlength}%
15486 \count@=\z@\Gin@gridfalse\setkeys{Gin}{#1}%
15487 %
15488 \OVP@calc%
15489 %
15490 \begin{picture}(\@tempcnta,\@tempcntb)%
15491 \ifRTL\else\put(0,0){\makebox(0,0)[bl]{\usebox{\z@}}}%
15492 \ifGin@grid%
15493 \put(0,0){\normalfont\fontsize\@viipt\@viipt\selectfont%
15494 \grid(\@tempcnta,\@tempcntb)(\count@,\count@)[0,0]}%
15495 \fi\fi%
15496 % reset the graphics parameter
15497 \let\Gin@outer@scalex\relax
15498 \let\Gin@outer@scaley\relax
15499 \let\Gin@angle\relax

```





```

15500 \let\Gin@ewidth\Gin@exclamation
15501 \let\Gin@eheight\Gin@ewidth
15502 \def\Gin@scalex{1}
15503 \let\Gin@scaley\Gin@exclamation
15504 }{%
15505 \if@RTL\ifGin@grid%
15506 \put(0,0){\normalfont\fontsize\@viipt\@viipt\selectfont%
15507 \grid(\@tempcnta,\@tempcntb)(\count@,\count@)[0,0]}%
15508 \fi%
15509 \put(0,0){\makebox(0,0)[bl]{\usebox{\z@}}}\fi%
15510 \end{picture}%
15511 }%

```

## 92 File pdfbase-xetex-bidi.def

```

15512 \ProvidesFile{pdfbase-xetex-bidi.def}[2020/05/13 v0.3 bidi adaptations for pdfbase package f
15513 \ExplSyntaxOn
15514 \cs_set_eq:NN\pbs_outputpage_orig:\@outputpage
15515 \cs_set_nopar:Npn\@outputpage{
15516 \int_gincr:N\g_pbs_page_int
15517 \iow_now:Nx\@mainaux{
15518 \token_to_str:N\pbs@newkey{pbs@last@page}{\int_use:N\g_pbs_page_int}
15519 }
15520 \box_if_vertical:cTF{\outputbox}{
15521 \bool_set_true:N\l_pbs_is_vertical_bool
15522 }{
15523 \bool_set_false:N\l_pbs_is_vertical_bool
15524 }
15525 \hbox_set:Nn\@outputbox{
15526 %begin of page
15527 \hbox_overlap_right:n{\seq_map_inline:Nn\g_pbs_bop_seq{##1}}
15528 \box_use_drop:N\@outputbox
15529 %end of page
15530 \hbox_overlap_right:n{\seq_map_inline:Nn\g_pbs_eop_seq{##1}}
15531 }
15532 \bool_if:NT\l_pbs_is_vertical_bool{
15533 \vbox_set:Nn\@outputbox{\box_use_drop:N\@outputbox}
15534 }
15535 \pbs_outputpage_orig:
15536 }
15537 \ExplSyntaxOff

```

## 93 File pdfpages-xetex-bidi.def

```

15538 \ProvidesFile{pdfpages-xetex-bidi.def}[2010/07/25 v0.1 bidi adaptations for pdfpages package
15539 \renewcommand*{\includepdf}[2][]{%
15540 \begingroup
15541 \@RTLfalse
15542 \let\AM@threadname\relax
15543 \AM@split@options{pdfpages}{#1}%
15544 \edef\AM@temp{\{pdfpages\}\the\@temptokena}%
15545 \expandafter\setkeys\AM@temp
15546 \ifthenelse{\boolean{AM@pkg@draft}\and\boolean{AM@survey}}{%
15547 \let\AM@currentdocname\relax

```



```

15548 \renewcommand\includegraphics[2][]{Survey in draft-mode}%
15549 \def\AM@pagecount{0}%
15550 }{%
15551 \AM@findfile{#2}%
15552 \if\AM@threadname\relax
15553 \def\AM@threadname{\AM@currentdocname}%
15554 \fi
15555 }%
15556 \ifAM@survey
15557 \def\AM@pagestemp{}%
15558 \@tempcnta=0
15559 \def\foo{%
15560 \ifundefined{r@\AM@xrprefix pdfpages@page\the\@tempcnta}%
15561 {\let\foo\relax}
15562 {\expandafter\ifx\expandafter\\AM@pagestemp\\
15563 \edef\AM@pagestemp{%
15564 \AM@pageref{\AM@xrprefix pdfpages@page\the\@tempcnta}}}%
15565 \else
15566 \edef\AM@pagestemp{\AM@pagestemp,%
15567 \AM@pageref{\AM@xrprefix pdfpages@page\the\@tempcnta}}}%
15568 \fi
15569 \advance\@tempcnta 1\relax
15570 }%
15571 \foo
15572 }%
15573 \foo
15574 \expandafter\ifx\expandafter\\AM@pagestemp\\
15575 \def\AM@pagestemp{1}%
15576 \fi
15577 \fi
15578 \ifAM@output
15579 \expandafter\AM@readlist\expandafter{\AM@pagestemp}%
15580 \AM@output{#1}%
15581 \fi
15582 \AM@CheckAtEnd
15583 \endgroup
15584 \AM@ClearShipoutPicture
15585 }

```

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

```

15586 \ProvidesFile{pgfcorescopes.code-xetex-bidi.def}[2015/11/14 v0.1 bidi adaptations for pgf pa
15587 \def\pgfpicture{%
15588 \beginpgfpicture%
15589 \ifmmode\else\@RTLfalse\beginL\fi%
15590 \pgfpicturetrue%
15591 \global\advance\pgf@picture@serial@count by1\relax%
15592 \edef\pgfpictureid{pgfid\the\pgf@picture@serial@count}%
15593 \let\pgf@nodecallback=\pgfutil@gobble%
15594 \pgf@picmaxx=-16000pt\relax%
15595 \pgf@picminx=16000pt\relax%
15596 \pgf@picmaxy=-16000pt\relax%
15597 \pgf@picminy=16000pt\relax%
15598 \pgf@relevantforpicturesizefalse%

```



```

15599 \pgf@resetpathsizes%
15600 \pgfutil@ifnextchar\bgroup\pgf@oldpicture\pgf@picture}
15601 \def\endpgfpicture{%
15602     \ifpgfrememberpicturepositiononpage%
15603         \hbox to0pt{\pgfsys@markposition{\pgfpictureid}}}%
15604     \fi%
15605     % ok, now let's position the box
15606     \ifdim\pgf@picmaxx=-16000pt\relax%
15607         % empty picture. make size 0.
15608         \global\pgf@picmaxx=0pt\relax%
15609         \global\pgf@picminx=0pt\relax%
15610         \global\pgf@picmaxy=0pt\relax%
15611         \global\pgf@picminy=0pt\relax%
15612     \fi%
15613     % Shift baseline outside:
15614     \pgf@relevantforpicturesizefalse%
15615     \pgf@process{\pgf@baseline}%
15616     \xdef\pgf@shift@baseline{\the\pgf@y}%
15617     %
15618     \pgf@process{\pgf@trimleft}%
15619     \global\advance\pgf@x by-\pgf@picminx
15620     % prepare \hskip\pgf@trimleft@final.
15621     % note that \pgf@trimleft@final is also queried
15622     % by the pgf image externalization.
15623     \xdef\pgf@trimleft@final{-\the\pgf@x}%
15624     %
15625     \pgf@process{\pgf@trimright}%
15626     \global\advance\pgf@x by-\pgf@picmaxx
15627     % prepare \hskip\pgf@trimright@final.
15628     % note that \pgf@trimright@final is also queried
15629     % by the pgf image externalization.
15630     \xdef\pgf@trimright@final{\the\pgf@x}%
15631     %
15632     \pgf@remember@layerlist@globally
15633     \endgroup%
15634     \hss%
15635     \egroup%
15636     \pgf@restore@layerlist@from@global
15637     \pgf@insertlayers%
15638     \endgroup%
15639     \pgfsys@discardpath%
15640     \endgroup%
15641     \pgfsys@endscope%
15642     \pgfsys@endpicture%
15643     \endgroup%
15644     \hss
15645 \egroup%
15646 \pgfsys@typesetpicturebox\pgfpic%
15647 \ifmmode\else\endL\fi%
15648 \endgroup%
15649 }

```

## 95 File picinpar-xetex-bidi.def



```

15650 \ProvidesFile{picinpar-xetex-bidi.def}[2013/04/08 v0.2 bidi adaptations for picinpar package]
15651 \long\def\@makewincaption#1#2{%
15652     \setbox\@tempboxa\hbox{\footnotesize{\bf #1:\enspace}{#2}}%
15653     \ifdim\wd\@tempboxa>\picwd
15654         {\footnotesize{\bf #1:\enspace}{#2\par}}
15655     \else
15656         \hbox to\picwd{\if@RTL\beginR\fi\hfil\box\@tempboxa\hfil\if@RTL\endR\fi}
15657     \fi}
15658 \def\endwindow{%
15659     \global\tcd=\tcdsav
15660     \egroup\vskip\parskip\parshape=0 % reset parshape; end \box\rawtext
15661     \vbadness=10000
15662     \splittopskip=0pt
15663 %
15664 % Typeset the lines above the window
15665 %
15666 \ifnum\tcd>0\setbox\holder=\vsplit\rawtext to \tcd\baselineskip
15667 \tcn=\tcd
15668 \loop\advance\tcn -1
15669 \setbox\fslice=\vsplit\holder to\baselineskip
15670 \prune\fslice\linewidth
15671 \topheight=0pt
15672 \ifnum\dp\fslice>\dp\wstrutbox
15673     \advance\topheight-\dp\fslice
15674     \advance\topheight\dp\wstrutbox
15675     \advance\topheight\ilg\fi
15676 \hbox to\linewidth{\box\fslice}
15677 \vskip-\topheight
15678 \ifdim\ht\holder>0pt\repeat
15679 \fi
15680 %
15681 % Now we build the boxes beside the window
15682 %
15683 \global\topheight=\tcl\baselineskip
15684 \ifnum\cumpartcl>0\global\tcl=\cumtcl
15685     \global\topheight=\vpic
15686 \fi
15687 \ifnum\bl>0 \ifnum\br>0 \multiply\topheight by 2\fi\fi
15688 \ifnum\bl>0\setbox\holder=\vsplit\rawtext to\topheight
15689 \else\ifnum\br>0\setbox\holder=\vsplit\rawtext to\topheight\fi\fi
15690 \tcn=\tcl \na=0 \nb=0
15691 \ifnum\bl>0 \ifnum\br>0 \multiply\tcn by 2\fi\fi
15692 \ifnum\bl>0\na=\tcn\ifnum\br>0\divide\na by 2\fi\fi
15693 \ifnum\br>0\nb=\tcn\ifnum\bl>0\divide\nb by 2\fi\fi
15694 \ifnum\na=0\ifnum\nb=0
15695     \setbox\waslice=\vbox to\vpic{\vss}
15696     \setbox\wslice=\vbox to\vpic{\vss}
15697     \bl=1\br=1
15698     \vskip\ilg
15699 \fi\fi
15700 %
15701 % both sides
15702 %
15703 \ifnum\na>0 \ifnum\nb>0

```



```

15704 \loop\advance\nb -1
15705 \advance\na -1
15706 \if@RTL%
15707 \setbox\bslice=\vsplit\holder to\baselineskip
15708 \prune\bslice\rtside
15709 \setbox\wbslice=\vbox{\unvbox\wbslice\hbox
15710 to\rtside{\box\bslice\hfil}}
15711 \setbox\aslice=\vsplit\holder to\baselineskip
15712 \prune\aslice\lftside
15713 \setbox\waslice=\vbox{\unvbox\waslice\hbox
15714 to\lftside{\box\aslice\hfil}}
15715 \else%
15716 \setbox\aslice=\vsplit\holder to\baselineskip
15717 \prune\aslice\lftside
15718 \setbox\waslice=\vbox{\unvbox\waslice\hbox
15719 to\lftside{\box\aslice\hfil}}
15720 \setbox\bslice=\vsplit\holder to\baselineskip
15721 \prune\bslice\rtside
15722 \setbox\wbslice=\vbox{\unvbox\wbslice\hbox
15723 to\rtside{\box\bslice\hfil}}
15724 \fi%
15725 \ifnum\nb>0\repeat
15726 \fi\fi
15727 %
15728 % only text on the left side
15729 %
15730 \ifnum\na>0
15731   \loop\advance\na -1
15732   \setbox\aslice=\vsplit\holder to\baselineskip
15733   \prune\aslice\lftside
15734   \setbox\waslice=\vbox{\unvbox\waslice\hbox
15735   to\lftside{\box\aslice\hfil}}
15736   \ifdim\ht\holder>0pt\repeat
15737 \fi
15738 %
15739 % only text on the right side
15740 %
15741 \ifnum\nb>0
15742   \loop\advance\nb -1
15743   \setbox\bslice=\vsplit\holder to\baselineskip
15744   \prune\bslice\rtside
15745   \setbox\wbslice=\vbox{\unvbox\wbslice\hbox
15746   to\rtside{\box\bslice\hfil}}
15747   \ifdim\ht\holder>0pt\repeat
15748 \fi
15749 %
15750 % fixing the dimensions of the window part
15751 %
15752 \ifnum\bl=0\topheight=\ht\wbslice
15753 \else\ifnum\br=0\topheight=\ht\waslice
15754   \else\ifdim\ht\waslice>\ht\wbslice\topheight=\ht\waslice
15755   \else\topheight=\ht\wbslice\fi\fi\fi
15756 %
15757 % ship out the window material to the main vertical list

```



```

15758 %
15759 \ifnum\bl>0 \ifnum\br>0 \ifdim\ht\wbslice<\topheight
15760 \setbox\wbslice=\vbox to\topheight{\box\wbslice\vfill}
15761 \fi\fi\fi
15762 \setbox>windowbox=\vbox{\hbox to\linewidth{%
15763 \ifnum\bl>0\box\waslice\hfill\fi%
15764 \vbox to\topheight{\hrule width\picwd height0pt depth0pt\vskip0pt%
15765 \vfill\unvbox\picbox%
15766 \ifnum\picwd>0\vfill\fi%
15767 \vss}\ifnum\br>0\hfill\vbox{\box\wbslice}\fi}}%
15768 \unvbox>windowbox%
15769 \loop
15770 \setbox\bslice=\vsplit\rawtext to\baselineskip
15771 \prune\bslice\linewidth
15772 \setbox\wbslice=\vbox{\hbox to\linewidth{\box\bslice\hfil}}
15773 \unvbox\wbslice
15774 \ifdim\ht\rawtext>0pt
15775 \repeat
15776 }% FINITO

```

## 96 File plain-xetex-bidi.def

```

15777 \def\TeXXeTOn{\TeXXeTstate=1 }
15778 \def\TeXXeTOff{\TeXXeTstate=0 }
15779 \TeXXeTOn
15780 \def\usebox#1{\leavevmode\copy #1\relax}
15781 \def\bidi@RTL@everypar{\setbox\z@ \lastbox\if@RTL\beginR\else\beginL\fi\ifvoid\z@\else\usebox\z@
15782 \let\bidi@o@everypar=\everypar
15783 \newtoks\bidi@n@everypar
15784 \bidi@n@everypar\expandafter{\the\bidi@o@everypar}
15785 \bidi@o@everypar{\bidi@RTL@everypar\the\bidi@n@everypar}
15786 \let\everypar=\bidi@n@everypar
15787 \def\moreLRE{\bracetext \aftergroup\endL \beginL \@RTLfalse}
15788 \def\moreRLE{\bracetext \aftergroup\endR \beginR \@RTLtrue}
15789 \protected\def\hboxR{\hbox\bgroup
15790 \everyhbox{%
15791 \aftergroup\egroup
15792 \everyhbox{}}%
15793 \beginR
15794 \@hboxRconstructtrue
15795 \bgroup
15796 \aftergroup\endR
15797 \aftergroup\egroup
15798 }\hbox}
15799 \protected\def\hboxL{\hbox\bgroup
15800 \everyhbox{%
15801 \aftergroup\egroup
15802 \everyhbox{}}%
15803 \beginL
15804 \@hboxRconstructfalse
15805 \bgroup
15806 \aftergroup\endL
15807 \aftergroup\egroup
15808 }\hbox}

```



```

15809 \protected\def\ vboxR{\ vbox\bgroup
15810 \everyvbox{%
15811 \aftergroup\egroup
15812 \everyvbox{}}%
15813 \@RTLtrue
15814 \bgroup
15815 \aftergroup\egroup
15816 }\ vbox}
15817 \protected\def\ vboxL{\ vbox\bgroup
15818 \everyvbox{%
15819 \aftergroup\egroup
15820 \everyvbox{}}%
15821 \@RTLfalse
15822 \bgroup
15823 \aftergroup\egroup
15824 }\ vbox}
15825 \def\LTR{\par\@RTLfalse\@RTL@footnotefalse\hsize\linewidth\parshape\z@}
15826 \def\endLTR{\par}
15827 \def\RTL{\par\@RTLtrue\@RTL@footnotetrue\hsize\linewidth\parshape\z@}
15828 \def\endRTL{\par}
15829 \def\setRTL{\@RTLtrue\@RTL@footnotetrue}
15830 \def\setLTR{\@RTLfalse\@RTL@footnotefalse}
15831 \let\unsetRTL=\setLTR
15832 \let\unsetLTR=\setRTL
15833 \let\LR=\LRE
15834 \let\RL=\RLE
15835 \def\@ensure@RTL#1{\if@RTL#1\else\RLE{#1}\fi}
15836 \def\@ensure@LTR#1{\if@RTL\LRE{#1}\else#1\fi}
15837 \let\@ensure@RL=\@ensure@RTL
15838 \let\@ensure@LR=\@ensure@LTR
15839 \def\@ensure@dir#1{\if@RTL\RLE{#1}\else{#1}\fi}
15840 \let\@ensure@maindir=\@ensure@dir
15841 \def\@RTL{RTL}
15842 \def\@LTR{LTR}
15843 \def\save@dir{\if@RTL\gdef\saved@dir{RTL}\else\gdef\saved@dir{LTR}\fi}
15844 \def\reset@dir{\ifx\saved@dir\@RTL\setRTL\else\ifx\saved@dir\@LTR\setLTR\else\relax\fi}
15845 \let\@TeX\TeX
15846 \def\TeX{\@ensure@LTR{\@TeX}}
15847 \def\pagecontents{\ifvoid\topins\else\unvbox\topins\fi
15848 \dimen@=\dp\@cclv \unvbox\@cclv % open up \box255
15849 \ifvoid\footins\else % footnote info is present
15850 \vskip\skip\footins
15851 \footnoterule
15852 \unvbox\footins\fi
15853 \ifrggedbottom \kern-\dimen@ \vfil \fi
15854 \ifvoid\@bidi@copyins@
15855 \else
15856 \vskip\skip\@bidi@copyins@
15857 \unvbox\@bidi@copyins@
15858 \fi
15859 }
15860 \long\def\ bidi@reflect@box#1{%
15861 \leavevmode
15862 \setbox\z@\hbox{#1}}%

```



```

15863 \setbox\tw@\hbox{\special{x:gsave}\special{x:scale -1 1}\rlap{\copy\z@}\special{x:grestore
15864 \hbox to \wd\z@{\kern\wd\z@\box\tw@\hss}%
15865 }
15866 \def\XeTeX{\LR{\leavevmode$\smash{\hbox{X\lower.5ex
15867 \hbox{\kern-.125em\bidireflect@box{E}}\kern-.1667em \TeX}}$}}
15868 \let\setRL=\setRTL
15869 \let\setLR=\setLTR
15870 \let\unsetRL=\setLTR
15871 \let\bidisaved@eqno=\eqno
15872 \let\bidisaved@leqno=\leqno
15873 \def\eqno{\ifnum\predisplaydirection<\z@ \bidisaved@leqno \else \bidisaved@eqno \fi}
15874 \def\leqno{\ifnum\predisplaydirection<\z@ \bidisaved@eqno \else \bidisaved@leqno \fi}
15875 \def\centerline#1{\line{\hss\if@RTL\beginR\fi#1\if@RTL\endR\fi\hss}}
15876 \def\leftline#1{\line{\if@RTL\beginR\fi#1\if@RTL\endR\fi\hss}}
15877 \def\rightline#1{\line{\hss\if@RTL\beginR\fi#1\if@RTL\endR\fi}}

```

## 97 File pstricks-xetex-bidi.def

```

15878 \ProvidesFile{pstricks-xetex-bidi.def}[2015/11/18 v0.5 bidi adaptations for pstricks package]
15879 \def\pspicture{\begingroup\ifmmode\else\@RTLfalse\beginL\fi\pst@ifstar\pst@picture}
15880 \def\endpspicture{%
15881 \ifshowgrid\ifnum\showgridp@s>0
15882 \psgrid[xunit=\sh@wgridXunit,yunit=\sh@wgridYunit,style=gridstyle]\fi\fi%
15883 \pst@killglue
15884 % \global\pst@shift=\pst@shift% in fact of the following endgroup
15885 \endgroup
15886 \egroup
15887 \ifdim\wd\pst@hbox=\z@\else
15888 %\@pstrickserr{Extraneous space in the pspicture environment}%
15889 %\Type \space <return> \space to proceed.}%
15890 \fi
15891 \ht\pst@hbox=\pst@dimd
15892 \dp\pst@hbox=-\pst@dimb
15893 \setbox\pst@hbox=\hbox{%
15894 \kern-\pst@dima
15895 % Orig version -----
15896 %\ifx\pst@tempa\@empty\else
15897 %\advance\pst@dimd-\pst@dimb
15898 %\pst@dimd=\pst@tempa\pst@dimd
15899 %\advance\pst@dimd\pst@dimb
15900 %\lower\pst@dimd
15901 %\fi
15902 %----- end Orig
15903 \ifPst@shift@star%\typeout{==pstricks== old behaviour of the shift option}% shift=*
15904 \advance\pst@dimd-\pst@dimb
15905 \pst@dimd=0.5\pst@dimd
15906 \else\pst@dimd-\pst@shift\fi
15907 \advance\pst@dimd\pst@dimb
15908 \lower\pst@dimd
15909 \box\pst@hbox
15910 \kern\pst@dimc}%
15911 \ifstar\setbox\pst@hbox=\hbox{\clipbox@@\z@}\fi
15912 \leavevmode\ifdim\overfullrule=\z@\box\pst@hbox\else
15913 \fboxsep=0pt

```





```

15914 \fbox{\rule[-\pst@shift]{0pt}{\ht\pst@hbox}\rule{\wd\pst@hbox}{0pt}}\fi
15915 \ifmmode\else\endL\fi
15916 \endgroup%
15917 \psset[pstricks]{shift=0}% reset value
15918 }

```

## 98 File quotchap-xetex-bidi.def

```

15919 \ProvidesFile{quotchap-xetex-bidi.def}[2010/07/25 v0.1 bidi adaptations for quotchap package]
15920 \renewcommand{\qauthor}[1]{%
15921   \par\smallskip
15922   {\if@RTL\raggedright\else\raggedleft\fi\upshape #1\qquad\hbox{}\par}\bigskip}
15923 \renewcommand{\@makechapterhead}[1]{\chapterheadstartvskip%
15924   {\size@chapter{\sectfont\if@RTL\raggedright\else\raggedleft\fi
15925     {\chapnumfont
15926       \ifnum \c@secnumdepth >\m@ne%
15927         \if@mainmatter\thechapter%
15928         \fi\fi
15929       \par\nobreak}%
15930     {\if@RTL\raggedright\else\raggedleft\fi\advance\if@RTL\rightmargin\else\leftmargin\fi
15931     \nobreak\chapterheadendvskip}}
15932 \renewcommand*{\@iprintcites}{%
15933   \vbox to\z@{\leavevmode\copy\@quotebox\vss}
15934   \global\let\@printcites\relax}

```

## 99 File ragged2e-xetex-bidi.def

```

15935 \ProvidesFile{ragged2e-xetex-bidi.def}[2018/10/17 v0.3 bidi adaptations for ragged2e package]
15936 \renewcommand{\Centering}{%
15937   \ifx\\ \@raggedtwoe@savedcr
15938     \let\\ \@centercr
15939   \fi
15940   \let\@gnewline\@raggedtwoe@gnewline
15941   \if@RTL\rightskip\else\leftskip\fi\CenteringLeftskip
15942   \@rightskip\CenteringRightskip
15943   \if@RTL\leftskip\else\rightskip\fi\@rightskip
15944   \parfillskip\CenteringParfillskip
15945   \parindent\CenteringParindent
15946   \@raggedtwoe@spaceskiptrue
15947   \@raggedtwoe@everyselectfont
15948 }
15949 \renewcommand{\RaggedLeft}{%
15950   \ifx\\ \@raggedtwoe@savedcr
15951     \let\\ \@centercr
15952   \fi
15953   \let\@gnewline\@raggedtwoe@gnewline
15954   \if@RTL\rightskip\else\leftskip\fi\RaggedLeftLeftskip
15955   \@rightskip\RaggedLeftRightskip
15956   \if@RTL\leftskip\else\rightskip\fi\@rightskip
15957   \parfillskip\RaggedLeftParfillskip
15958   \parindent\RaggedLeftParindent
15959   \@raggedtwoe@spaceskiptrue
15960   \@raggedtwoe@everyselectfont
15961 }

```



```

15962 \renewcommand{\RaggedRight}{%
15963   \ifx\\ \@raggedtwo@savedcr
15964     \let\\ \@centercr
15965   \fi
15966   \let\@gnewline\@raggedtwo@gnewline
15967   \if@RTL\rightskip\else\leftskip\fi\RaggedRightLeftskip
15968   \@rightskip\RaggedRightRightskip
15969   \if@RTL\leftskip\else\rightskip\fi\@rightskip
15970   \parfillskip\RaggedRightParfillskip
15971   \parindent\RaggedRightParindent
15972   \@raggedtwo@spaceskiptrue
15973   \@raggedtwo@everyselectfont
15974 }
15975 \renewcommand{\justifying}{%
15976   \let\\ \@raggedtwo@savedcr
15977   \let\@gnewline\@raggedtwo@saved@gnewline
15978   \if@RTL\rightskip\else\leftskip\fi\z@
15979   \@rightskip\z@
15980   \if@RTL\leftskip\else\rightskip\fi\@rightskip
15981   \parfillskip\JustifyingParfillskip
15982   \parindent\JustifyingParindent
15983   \@raggedtwo@spaceskipfalse
15984   \@raggedtwo@everyselectfont
15985 }
15986 \def\@raggedtwo@raggedrightboxes@opt{%
15987   \renewcommand{\@arrayparboxrestore}{%
15988     \let\if@nobreak\iffalse
15989     \let\if@noskipsec\iffalse
15990     \let\par\@par
15991     \let\-\@dischyph
15992     \let\' \@acci\let\` \@accii\let\=@acciii
15993     \parskip\z@skip
15994     \everypar{}%
15995     \linewidth\hsize
15996     \@totalleftmargin\z@
15997     \if@RTL
15998       \RaggedLeft
15999     \else
16000       \RaggedRight
16001     \fi
16002     \lineskip\normallineskip
16003     \baselineskip\normalbaselineskip
16004     \sloppy}%
16005   \let\@raggedtwo@raggedrightboxes@opt\relax
16006 }
16007 \def\@raggedtwo@document@opt{%
16008   \AtBeginDocument{\@raggedtwo@abdhook}%
16009   \@raggedtwo@raggedrightboxes@opt
16010   \@raggedtwo@footmisctrue
16011   \let\@raggedtwo@document@opt\relax
16012 }
16013 \def\@raggedtwo@abdhook{%
16014   \PackageInfo{ragged2e}{ABD: executing '\string\RaggedLeft' for
16015     right to left documents and '\string\RaggedRight' for left

```



```

16016     to right documents}%
16017 \if@RTL
16018     \RaggedLeft
16019 \else
16020     \RaggedRight
16021 \fi
16022 \@ifundefined{@tocrmarg}{\edef\tocrmarg{\tocrmarg plus 2em}}%
16023 \let\@raggedtwoe@abdhook\relax
16024 }
16025 \@ifpackagewith{ragged2e}{raggedrightboxes}{%
16026     \@raggedtwoe@raggedrightboxes@opt
16027 }{}
16028 \@ifpackagewith{ragged2e}{document}{%
16029     \@raggedtwoe@document@opt
16030 }{}
16031 \let\origin@RaggedLeft=\RaggedLeft
16032 \let\origin@RaggedRight=\RaggedRight
16033 \def\RaggedLeft{\if@RTL\origin@RaggedRight\else\origin@RaggedLeft\fi}
16034 \def\RaggedRight{\if@RTL\origin@RaggedLeft\else\origin@RaggedRight\fi}

```

## 100 File rapport1-xetex-bidi.def

```

16035 \ProvidesFile{rapport1-xetex-bidi.def}[2017/06/09 v0.4 bidi adaptations for rapport1 class f
16036 \renewenvironment{theindex}{%
16037     \if@twocolumn
16038         \@restonecolfalse
16039     \else
16040         \@restonecoltrue
16041     \fi
16042     \columnseprule \z@
16043     \columnsep 35\p@
16044     \twocolumn[\@makeschapterhead{\indexname}]%
16045     \@mkboth{\MakeUppercase{\indexname}}{\MakeUppercase{\indexname}}%
16046     \thispagestyle{plain}\parindent\z@
16047     \parskip\z@ \@plus .3\p@\relax
16048     \let\item\@idxitem
16049 }{%
16050     \if@restonecol\onecolumn\else\clearpage\fi}
16051 \renewcommand*\head@style{%
16052     \interlinepenalty \@M
16053     \hyphenpenalty=\@M \exhyphenpenalty=\@M
16054     \if@RTL\leftskip\else\rightskip\fi=0cm plus .7\hsize\relax}
16055 \if@titlepage
16056     \renewenvironment{abstract}{%
16057         \titlepage
16058         \null\vfil
16059         \section*{\SectFont\abstractname}%
16060         \noindent\ignorespaces}
16061     {\par\vfil\null\endtitlepage}
16062 \else
16063     \renewenvironment{abstract}{%
16064         \if@twocolumn
16065             \section*{\abstractname}%
16066         \else

```



```

16067         \bgroup\if@RTL\leftskip\else\rightskip\fi=\unitindent
16068         \section*{\small\SectFont\abstractname}%
16069         \noindent\ignorespaces
16070         \fi}
16071         {\if@twocolumn\else\par\egroup\fi}
16072 \fi
16073 \renewcommand*\@regtocline[3]{%
16074   \ifnum #1>\c@tocdepth
16075   \else
16076     \vskip\z@ \@plus.2\p@
16077     {\hangindent\z@ \afterindenttrue \interlinepenalty\M
16078      \if@RTL\rightskip\else\leftskip\fi\unitindent
16079      \if@RTL\leftskip\else\rightskip\fi\unitindent\@plus 1fil
16080      \parfillskip\z@
16081      \@tempdima\unitindent
16082      \parindent\z@
16083      \leavevmode
16084      \hbox{}\hskip -\if@RTL\rightskip\else\leftskip\fi\relax#2\nobreak
16085      \hskip 1em \nobreak{\slshape #3}\par
16086     }%
16087   \fi}
16088 \if@oldtoc
16089 \renewcommand*\l@part[2]{%
16090   \ifnum \c@tocdepth >-2\relax
16091     \addpenalty{-\@highpenalty}%
16092     \addvspace{2.25em \@plus\p@}%
16093     \begingroup
16094       \setlength\@tempdima{3em}%
16095       \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
16096       \parfillskip -\@pnumwidth
16097       {\leavevmode
16098        \large \bfseries #1\hfil \hb@xt@\@pnumwidth{\hss #2}}\par
16099       \nobreak
16100       \global\@nobreaktrue
16101       \everypar{\global\@nobreakfalse\everypar{}}%
16102     \endgroup
16103   \fi}
16104 \else
16105   \renewcommand*\l@part{%
16106     \ifnum \c@tocdepth >-2\relax
16107       \addpenalty{-\@highpenalty}%
16108       \addvspace{2.25em \@plus \p@}%
16109       \@regtocline{0}%
16110     \fi}
16111 \fi
16112 \if@oldtoc
16113 \renewcommand*\l@chapter[2]{%
16114   \addpenalty{-\@highpenalty}%
16115   \vskip 1.0em \@plus\p@
16116   \setlength\@tempdima{1.5em}%
16117   \begingroup
16118   \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
16119   \parfillskip -\@pnumwidth
16120   \leavevmode \bfseries

```



```

16121 \advance\if@RTL\rightskip\else\leftskip\fi\@tempdima
16122 \hskip -\if@RTL\rightskip\else\leftskip\fi
16123 #1\nobreak\hfil \nobreak\hb@xt@\@pnumwidth{\hss #2}\par
16124 \penalty\@highpenalty
16125 \endgroup}
16126 \else
16127 \renewcommand*\l@chapter{\@regtocline{0}}
16128 \fi
16129 \renewcommand*\left@footnoterule{%
16130 \kern-3\p@
16131 \kern.5\baselineskip
16132 \hrule\@width\unitindent
16133 \kern.4\baselineskip
16134 }
16135 \renewcommand*\right@footnoterule{%
16136 \kern-3\p@
16137 \kern.5\baselineskip
16138 \hbox to \columnwidth{\hskip \dimexpr\columnwidth-\unitindent\relax \hrulefill }
16139 \kern.4\baselineskip}
16140 \renewenvironment{thebibliography}[1]
16141 {\chapter*{\bibname}%
16142 \mkboth{\MakeUppercase\bibname}{\MakeUppercase\bibname}%
16143 \if@RTL\if@LTRbibitems\@RTLfalse\else\fi\else\if@RTLbibitems\@RTLtrue\else\fi\fi
16144 \bidi@thebibliography@font@hook%
16145 \list{\biblabel{\@arabic\c@enumiv}}%
16146 {\settowidth\labelwidth{\biblabel{#1}}%
16147 \leftmargin\labelwidth
16148 \advance\leftmargin\labelsep
16149 \openbib@code
16150 \usecounter{enumiv}%
16151 \let\p@enumiv\@empty
16152 \renewcommand*\theenumiv{\@arabic\c@enumiv}}%
16153 \sloppy\clubpenalty4000\widowpenalty4000%
16154 \sfcode\.\@m}
16155 {\def\@noitemerr
16156 {\@latex@warning{Empty `thebibliography' environment}}}%
16157 \endlist}
16158 \renewcommand*\thesection{\thechapter\@SepMark\@arabic\c@section}
16159 \renewcommand*\thesubsection{\thesection\@SepMark\@arabic\c@subsection}
16160 \renewcommand*\thesubsubsection{\thesubsection\@SepMark\@arabic\c@subsubsection}
16161 \renewcommand*\theparagraph{\thesubsubsection\@SepMark\@arabic\c@paragraph}
16162 \renewcommand*\thesubparagraph{\theparagraph\@SepMark\@arabic\c@subparagraph}
16163 \renewcommand*\theequation{%
16164 \ifnum \c@chapter>\z@ \thechapter\@SepMark\fi\@arabic\c@equation}
16165 \renewcommand*\thefigure{%
16166 \ifnum \c@chapter>\z@ \thechapter\@SepMark\fi\@arabic\c@figure}
16167 \renewcommand*\thetable{%
16168 \ifnum \c@chapter>\z@ \thechapter\@SepMark\fi\@arabic\c@table}
16169 \if@titlepage
16170 \renewcommand*\TitleFont{\rmfamily}
16171 \renewcommand*\maketitle{%
16172 \begin{titlepage}%
16173 \let\footnotesize\small
16174 \let\right@footnoterule\relax

```



```

16175 \let\left@footnoterule\relax
16176 \let\textwidth@footnoterule\relax
16177 \let \footnote \thanks
16178 \long\def\@makefntext##1{\parindent\z@
16179 \def\labelitemi{\textendash}\@revlabeltrue
16180 \leavevmode\@textsuperscript{\@thefnmark}\kern1em\relax ##1}
16181 \renewcommand*\thefootnote{\@fnsymbol\c@footnote}%
16182 \if@compatibility\setcounter{page}{0}\fi
16183 \null\vfil
16184 \vskip 60p@
16185 \begin{center}%
16186 \TitleFont
16187 {\LARGE \def\{\{\penalty -\@M}
16188 \if@allcaps
16189 \expandafter\uc@nothanks\@title\thanks\relax
16190 \else
16191 \@title
16192 \fi\par}%
16193 \vskip 3em%
16194 {\large
16195 \lineskip .75em \parindent\z@
16196 \begin{tabular}[t]{c}%
16197 \if@allcaps
16198 \expandafter\uc@authornothanks\@author\and\relax
16199 \else
16200 \@author
16201 \fi
16202 \end{tabular}\par}%
16203 \vskip 1.5em%
16204 {\large
16205 \if@allcaps
16206 \uppercase\expandafter{\@date}%
16207 \else
16208 \@date
16209 \fi\par}%
16210 \end{center}\par
16211 \@thanks
16212 \vfil\null
16213 \end{titlepage}%
16214 \setcounter{footnote}{0}%
16215 \global\let\thanks\relax
16216 \global\let\maketitle\relax
16217 \global\let\@thanks\@empty
16218 \global\let\@author\@empty
16219 \global\let\@title\@empty
16220 \global\let\@date\@empty
16221 \global\let\title\relax
16222 \global\let\author\relax
16223 \global\let\date\relax
16224 \global\let\and\relax
16225 }
16226 \def\uc@nothanks#1\thanks{\uppercase{#1}\futurelet\@tempa\uc@tx}
16227 \def\uc@authornothanks#1\and{\uc@nothanks#1\thanks\relax
16228 \futurelet\@tempa\uc@ax}

```



```

16229 \def\uc@ax{%
16230   \ifx\@tempa\relax
16231   \else
16232     \\\andname \\\expandafter\uc@authornothanks
16233   \fi}
16234 \def\uc@tx{\ifx\@tempa\relax
16235   \else \expandafter\uc@ty \fi}
16236 \def\uc@ty#1{\thanks{#1}\uc@nothanks}
16237 \else
16238 \renewcommand*\maketitle{\par
16239   \begingroup
16240     \renewcommand*\thefootnote{\@fnsymbol\c@footnote}%
16241     \def\@makefnmark{\rlap{%
16242       \@textsuperscript{\normalfont\@thefnmark}}}%
16243     \long\def\@makefntext{\@xmakefntext{%
16244       \@textsuperscript{\normalfont\@thefnmark}}}%
16245     \if@twocolumn
16246       \ifnum \col@number=\@ne
16247         \@maketitle
16248       \else
16249         \twocolumn[\@maketitle]%
16250       \fi
16251     \else
16252       \newpage
16253       \global\@topnum\z@
16254       \@maketitle
16255     \fi
16256     \thispagestyle{plain}\@thanks
16257   \endgroup
16258   \setcounter{footnote}{0}%
16259   \global\let\thanks\relax
16260   \global\let\maketitle\relax
16261   \global\let\@maketitle\relax
16262   \global\let\@thanks\@empty
16263   \global\let\@author\@empty
16264   \global\let\@title\@empty
16265   \global\let\@date\@empty
16266   \global\let\title\relax
16267   \global\let\author\relax
16268   \global\let\date\relax
16269   \global\let\and\relax
16270 }
16271 \def\@maketitle{%
16272   \newpage
16273   \null
16274   \vskip 2em%
16275   \begin{center}%
16276     \let \footnote \thanks
16277     {\LARGE \TitleFont \@title \par}%
16278     \vskip 1.5em%
16279     {\large \TitleFont
16280       \lineskip .5em%
16281       \begin{tabular}[t]{c}%
16282         \@author

```



```

16283     \end{tabular}\par}%
16284     \vskip 1em%
16285     {\large \TitleFont \@date}%
16286 \end{center}%
16287 \par
16288 \vskip 1.5em}
16289 \fi

```

## 101 File rapport3-xetex-bidi.def

```

16290 \ProvidesFile{rapport3-xetex-bidi.def}[2017/06/09 v0.6 bidi adaptations for rapport3 class f
16291 \renewenvironment{theindex}{%
16292   \if@twocolumn
16293     \@restonecolfalse
16294   \else
16295     \@restonecoltrue
16296   \fi
16297   \columnseprule \z@
16298   \columnsep 35\p@
16299   \twocolumn[\@makeschapterhead{\indexname}]%
16300   \@mkboth{\MakeUppercase{\indexname}}{\MakeUppercase{\indexname}}%
16301   \thispagestyle{plain}\parindent\z@
16302   \parskip\z@ \@plus .3\p@\relax
16303   \let\item\@idxitem
16304   }{%
16305   \if@restonecol\onecolumn\else\clearpage\fi}
16306 \if@titlepage
16307 \renewcommand*\TitleFont{\rmfamily}
16308 \renewcommand*\maketitle{%
16309   \begin{titlepage}%
16310     \let\footnotesize\small
16311     \let\right@footnoterule\relax
16312     \let\left@footnoterule\relax
16313     \let\textwidth@footnoterule\relax
16314     \let \footnote \thanks
16315     \let \LTRfootnote \LTRthanks
16316     \let \RTLfootnote \RTLthanks
16317     \long\def\@makefntext##1{\parindent\z@
16318       \def\labelitemi{\textendash}\@revlabeltrue
16319       \leavevmode\@textsuperscript{\@thefnmark}\kern1em\relax ##1}
16320     \renewcommand*\thefootnote{\@fnsymbol\c@footnote}%
16321     \if@compatibility\setcounter{page}{0}\fi
16322     \null\vfil
16323     \vskip 60\p@
16324     \begin{center}%
16325       \TitleFont
16326       {\LARGE \def\{\{\penalty -\@M}
16327         \if@allcaps
16328           \expandafter\uc@nothanks\@title\thanks\relax
16329         \else
16330           \@title
16331         \fi\par}%
16332       \vskip 3em%
16333       {\large

```





```

16334      \lineskip .75em \parindent\z@
16335      \begin{tabular}[t]{c}%
16336      \if@allcaps
16337      \expandafter\uc@authornothanks\@author\and\relax
16338      \else
16339      \@author
16340      \fi
16341      \end{tabular}\par}%
16342      \vskip 1.5em%
16343      {\large
16344      \if@allcaps
16345      \uppercase\expandafter{\@date}%
16346      \else
16347      \@date
16348      \fi\par}%
16349      \end{center}\par
16350      \@thanks
16351      \vfil\null
16352      \end{titlepage}%
16353      \setcounter{footnote}{0}%
16354      \global\let\thanks\relax
16355      \global\let\LTRthanks\relax
16356      \global\let\RTLthanks\relax
16357      \global\let\maketitle\relax
16358      \global\let\@thanks\@empty
16359      \global\let\@author\@empty
16360      \global\let\@title\@empty
16361      \global\let\@date\@empty
16362      \global\let\title\relax
16363      \global\let\author\relax
16364      \global\let\date\relax
16365      \global\let\and\relax
16366      }
16367      \def\uc@nothanks#1\thanks{\uppercase{#1}\futurelet\@tempa\uc@tx}
16368      \def\uc@authornothanks#1\and{\uc@nothanks#1\thanks\relax
16369      \futurelet\@tempa\uc@ax}
16370      \def\uc@ax{%
16371      \ifx\@tempa\relax
16372      \else
16373      \\\andname \\\expandafter\uc@authornothanks
16374      \fi}
16375      \def\uc@tx{\ifx\@tempa\relax
16376      \else \expandafter\uc@ty \fi}
16377      \def\uc@ty#1{\thanks{#1}\uc@nothanks}
16378      \else
16379      \renewcommand*\maketitle{\par
16380      \begingroup
16381      \renewcommand*\thefootnote{\@fnsymbol\c@footnote}%
16382      \def\@makefnmark{\rlap{%
16383      \@textsuperscript{\normalfont\@thefnmark}}}%
16384      \long\def\@makefntext{\@xmakefntext{%
16385      \@textsuperscript{\normalfont\@thefnmark}}}%
16386      \if@twocolumn
16387      \ifnum \col@number=\@ne

```



```

16388         \@maketitle
16389     \else
16390         \twocolumn[\@maketitle]%
16391     \fi
16392 \else
16393     \newpage
16394     \global\@topnum\z@
16395     \@maketitle
16396 \fi
16397 \thispagestyle{plain}\@thanks
16398 \endgroup
16399 \setcounter{footnote}{0}%
16400 \global\let\thanks\relax
16401 \global\let\LTRthanks\relax
16402 \global\let\RTLthanks\relax
16403 \global\let\maketitle\relax
16404 \global\let\@maketitle\relax
16405 \global\let\@thanks\@empty
16406 \global\let\@author\@empty
16407 \global\let\@title\@empty
16408 \global\let\@date\@empty
16409 \global\let\title\relax
16410 \global\let\author\relax
16411 \global\let\date\relax
16412 \global\let\and\relax
16413 }
16414 \def\@maketitle{%
16415     \newpage
16416     \null
16417     \vskip 2em%
16418     \if@titlecentered
16419         \begin{center}%
16420             \let \footnote \thanks
16421             \let \LTRfootnote \LTRthanks
16422             \let \RTLfootnote \RTLthanks
16423             {\LARGE \TitleFont \@title \par}%
16424             \vskip 1.5em%
16425             {\large \TitleFont
16426               \lineskip .5em%
16427               \begin{tabular}[t]{c}%
16428                 \@author
16429               \end{tabular}\par}%
16430             \vskip 1em%
16431             {\large \TitleFont \@date}%
16432         \end{center}%
16433     \else
16434         {\LARGE \TitleFont \head@style \@title \par} \vskip 1.5em
16435         {\large \TitleFont \lineskip .5em \tabcolsep\z@
16436           \def\and{%% \begin{tabular} has already started
16437             \end{tabular}\hskip 1em plus .17fil
16438             \if@RTL\begin{tabular}[t]{r}\else\begin{tabular}[t]{l}\fi}% \end{tabular}
16439             \if@RTL\begin{tabular}[t]{r}\else\begin{tabular}[t]{l}\fi\@author\end{tabular}}
16440           \vskip 1em {\large \TitleFont \@date}
16441     \fi

```



```

16442 \par
16443 \vskip 1.5em}
16444 \fi
16445 \renewcommand*\@regtocline[3]{%
16446 \ifnum #1>\c@tocdepth
16447 \else
16448 \vskip\z@\@plus.2\p@
16449 {\hangindent\z@ \@afterindenttrue \interlinepenalty\@M
16450 \if@RTL\righskip\else\leftskip\fi\unitindent
16451 \if@RTL\leftskip\else\righskip\fi\unitindent\@plus 1fil
16452 \parfillskip\z@
16453 \@tempdima\unitindent
16454 \parindent\z@
16455 \leavevmode
16456 \hbox{}\hskip -\if@RTL\righskip\else\leftskip\fi\relax#2\nobreak
16457 \hskip 1em \nobreak{\slshape #3}\par
16458 }%
16459 \fi}
16460 \if@oldtoc
16461 \renewcommand*\l@part[2]{%
16462 \ifnum \c@tocdepth >-2\relax
16463 \addpenalty{-\@highpenalty}%
16464 \addvspace{2.25em \@plus\p@}%
16465 \begingroup
16466 \setlength\@tempdima{3em}%
16467 \parindent \z@ \if@RTL\leftskip\else\righskip\fi \@pnumwidth
16468 \parfillskip -\@pnumwidth
16469 {\leavevmode
16470 \large \bfseries #1\hfil \hb@xt@\@pnumwidth{\hss #2}}\par
16471 \nobreak
16472 \global\@nobreaktrue
16473 \everypar{\global\@nobreakfalse\everypar{}}%
16474 \endgroup
16475 \fi}
16476 \else
16477 \renewcommand*\l@part{%
16478 \ifnum \c@tocdepth >-2\relax
16479 \addpenalty{-\@highpenalty}%
16480 \addvspace{2.25em \@plus \p@}%
16481 \@regtocline{0}%
16482 \fi}
16483 \fi
16484 \if@oldtoc
16485 \renewcommand*\l@chapter[2]{%
16486 \addpenalty{-\@highpenalty}%
16487 \vskip 1.0em \@plus\p@
16488 \setlength\@tempdima{1.5em}%
16489 \begingroup
16490 \parindent \z@ \if@RTL\leftskip\else\righskip\fi \@pnumwidth
16491 \parfillskip -\@pnumwidth
16492 \leavevmode \bfseries
16493 \advance\if@RTL\righskip\else\leftskip\fi\@tempdima
16494 \hskip -\if@RTL\righskip\else\leftskip\fi
16495 #1\nobreak\hfil \nobreak\hb@xt@\@pnumwidth{\hss #2}\par

```



```

16496 \penalty\@highpenalty
16497 \endgroup}
16498 \else
16499 \renewcommand*\l@chapter{\@regtocline{0}}
16500 \fi
16501 \renewcommand*\head@style{%
16502 \interlinepenalty \@M
16503 \hyphenpenalty=\@M \exhyphenpenalty=\@M
16504 \if@RTL\leftskip\else\rightskip\fi=0cm plus .7\hsize\relax}
16505 \if@titlepage
16506 \renewenvironment{abstract}{%
16507 \titlepage
16508 \null\vfil
16509 \section*{\SectFont\abstractname}%
16510 \noindent\ignorespaces}
16511 {\par\vfil\null\endtitlepage}
16512 \else
16513 \renewenvironment{abstract}{%
16514 \if@twocolumn
16515 \section*{\abstractname}%
16516 \else
16517 \bgroup\if@RTL\leftskip\else\rightskip\fi=\unitindent
16518 \section*{\small\SectFont\abstractname}%
16519 \noindent\ignorespaces
16520 \fi}
16521 {\if@twocolumn\else\par\egroup\fi}
16522 \fi
16523 \renewcommand*\thesection{\thechapter\@SepMark\@arabic\c@section}
16524 \renewcommand*\thesubsection{\thesection\@SepMark\@arabic\c@subsection}
16525 \renewcommand*\thesubsubsection{\thesubsection\@SepMark\@arabic\c@subsubsection}
16526 \renewcommand*\theparagraph{\thesubsubsection\@SepMark\@arabic\c@paragraph}
16527 \renewcommand*\thesubparagraph{\theparagraph\@SepMark\@arabic\c@subparagraph}
16528 \renewcommand*\thefigure{%
16529 \ifnum\c@chapter>z@\thechapter\@SepMark\fi\@arabic\c@figure}
16530 \renewcommand*\thetable{%
16531 \ifnum\c@chapter>z@\thechapter\@SepMark\fi\@arabic\c@table}
16532 \renewcommand*\theequation{%
16533 \ifnum\c@chapter>z@\thechapter\@SepMark\fi\@arabic\c@equation}
16534 \renewenvironment{thebibliography}[1]
16535 {\chapter*{\bibname}%
16536 \mkboth{\MakeUppercase\bibname}{\MakeUppercase\bibname}%
16537 \if@RTL\if@LTRbibitems\@RTLfalse\else\fi\else\if@RTLbibitems\@RTLtrue\else\fi\fi
16538 \bidi@thebibliography@font@hook%
16539 \list{\@biblabel{\@arabic\c@enumiv}}%
16540 {\settowidth\labelwidth{\@biblabel{#1}}%
16541 \leftmargin\labelwidth
16542 \advance\leftmargin\labelsep
16543 \@openbib@code
16544 \usecounter{enumiv}%
16545 \let\p@enumiv\@empty
16546 \renewcommand*\theenumiv{\@arabic\c@enumiv}}%
16547 \sloppy\clubpenalty4000\widowpenalty4000%
16548 \sfcode\.\@m}
16549 {\def\@noitemerr

```



```

16550      {\@latex@warning{Empty `thebibliography' environment}}}%
16551      \endlist}
16552 \renewcommand*\left@footnoterule{%
16553   \kern-3\p@
16554   \kern.5\baselineskip
16555   \hrule\@width\unitindent
16556   \kern.4\baselineskip
16557 }
16558 \renewcommand*\right@footnoterule{%
16559   \kern-3\p@
16560   \kern.5\baselineskip
16561   \hbox to \columnwidth{\hskip \dimexpr\columnwidth-\unitindent\relax \hrulefill }
16562   \kern.4\baselineskip}
16563 \renewcommand*\head@style{%
16564   \interlinepenalty \@M
16565   \hyphenpenalty=\@M \exhyphenpenalty=\@M
16566   \if@RTL\leftskip\else\rightskip\fi=0cm plus .7\hsize\relax}

```

## 102 File refrep-xetex-bidi.def

```

16567 \ProvidesFile{refrep-xetex-bidi.def}[2017/06/09 v0.5 bidi adaptations for refrep class for X
16568 \if@titlepage
16569   \renewcommand\maketitle{\begin{titlepage}%
16570     \let\footnotesize\small
16571     \let\right@footnoterule\relax
16572     \let\left@footnoterule\relax
16573     \let\textwidth\footnoterule\relax
16574     \let\footnote\thanks
16575     \let\LTRfootnote\LTRthanks
16576     \let\RTLfootnote\RTLthanks
16577     \renewcommand\thefootnote{\@fnsymbol\c@footnote}%
16578     \def\@makefnmark%
16579       {\rlap{\@textsuperscript{\normalfont\@thefnmark}}}%
16580     \long\def\@makefntext##1{%
16581       \setpar{\@par
16582         \tempdima = \hsize
16583         \advance\tempdima -1em
16584         \parshape \@ne 1em \tempdima}%
16585       \par\parindent 1em \noindent
16586       \hb@xt@\z@\{\hss\@textsuperscript{\normalfont\@thefnmark}\,}##1}
16587   \null\vfil
16588   \vskip 60\p@
16589   \begin{center}%
16590     {\LARGE \@title \par}%
16591     \vskip 3em%
16592     {\large
16593       \lineskip .75em%
16594       \begin{tabular}[t]{c}%
16595         \@author
16596       \end{tabular}\par}%
16597     \vskip 1.5em%
16598     {\large \@date \par}%           % Set date in \large size.
16599   \end{center}\par
16600   \@thanks

```



```

16601 \vfil\null
16602 \end{titlepage}%
16603 \setcounter{footnote}{0}%
16604 \global\let\thanks\relax
16605 \global\let\LTRthanks\relax
16606 \global\let\RTLthanks\relax
16607 \global\let\maketitle\relax
16608 \global\let\@thanks\@empty
16609 \global\let\@author\@empty
16610 \global\let\@date\@empty
16611 \global\let\@title\@empty
16612 \global\let\title\relax
16613 \global\let\author\relax
16614 \global\let\date\relax
16615 \global\let\and\relax
16616 }
16617 \else
16618 \renewcommand\maketitle{\par
16619   \begingroup
16620     \renewcommand\thefootnote{\@fnsymbol\c@footnote}%
16621     \def\@makefnmark%
16622       {\rlap{\@textsuperscript{\normalfont\@thefnmark}}}%
16623     \long\def\@makefntext##1{%
16624       \@setpar{\@par
16625         \@tempdima = \hsize
16626         \advance\@tempdima -1em
16627         \parshape \@ne 1em \@tempdima}%
16628       \par\parindent 1em \noindent
16629       \hb@xt@\z@{\hss\@textsuperscript{\normalfont\@thefnmark}\,}##1}
16630     \if@twocolumn
16631       \ifnum \col@number=\@ne
16632         \@maketitle
16633       \else
16634         \twocolumn[\@maketitle]%
16635       \fi
16636     \else
16637       \newpage
16638       \global\@topnum\z@ % Prevents figures from going at top of page.
16639       \@maketitle
16640     \fi
16641     \thispagestyle{empty}\@thanks
16642   \endgroup
16643   \setcounter{footnote}{0}%
16644   \global\let\thanks\relax
16645   \global\let\LTRthanks\relax
16646   \global\let\RTLthanks\relax
16647   \global\let\maketitle\relax
16648   \global\let\@maketitle\relax
16649   \global\let\@thanks\@empty
16650   \global\let\@author\@empty
16651   \global\let\@date\@empty
16652   \global\let\@title\@empty
16653   \global\let\title\relax
16654   \global\let\author\relax

```



```

16655 \global\let\date\relax
16656 \global\let\and\relax
16657 }
16658 \def\@maketitle{%
16659 \newpage
16660 \null
16661 \longthickrule\vskip1.5em%
16662 \let \footnote \thanks
16663 \let \LTRfootnote \LTRthanks
16664 \let \RTLfootnote \RTLthanks
16665 {\secshape \parskip\z@ \parindent\z@
16666 \Large\bfseries \@title \par}%
16667 \vskip1.5em\longthickrule\vskip1.5em%
16668 {\normalsize
16669 \lineskip .5em%
16670 \begin{flushright}%
16671 {\slshape\@author\par}
16672 \vskip 1em%
16673 {\@date}%
16674 \end{flushright}\par}%
16675 \vskip 1.5em}
16676 \fi
16677 \renewcommand*\l@part[2]{%
16678 \ifnum \c@tocdepth >-2\relax
16679 \addpenalty{-\@highpenalty}%
16680 \addvspace{2.25em \@plus\p@}%
16681 \begingroup
16682 \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
16683 \parfillskip -\@pnumwidth
16684 {\leavevmode
16685 \large \bfseries #1\hfil \hbox to\@pnumwidth{\hss #2}}\par
16686 \nobreak
16687 \global\@nobreaktrue
16688 \everypar{\global\@nobreakfalse\everypar{}}%
16689 \endgroup
16690 \fi}
16691 \renewcommand*\l@chapter[2]{%
16692 \ifnum \c@tocdepth >\m@ne
16693 \addpenalty{-\@highpenalty}%
16694 \vskip 1.0em \@plus\p@
16695 \setlength\@tempdima{1.5em}%
16696 \begingroup
16697 \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
16698 \parfillskip -\@pnumwidth
16699 \leavevmode \bfseries
16700 \advance\if@RTL\rightskip\else\leftskip\fi\@tempdima
16701 \hskip -\if@RTL\rightskip\else\leftskip\fi
16702 #1\nobreak\hfil \nobreak\hb@xt@\@pnumwidth{\hss #2}\par
16703 \penalty\@highpenalty
16704 \endgroup
16705 \fi}
16706 \renewcommand\secshape{\if@RTL\rightskip\else\leftskip\fi=-\leftmarginwidth%
16707 \if@RTL\leftskip\else\rightskip\fi=\@flushglue%
16708 \hyphenpenalty=2000}

```



```

16709 \renewcommand\left@footnoterule{%
16710   \kern-3\p@
16711   \hrule\@width.4\columnwidth
16712   \kern 2.6\p@}
16713 \renewcommand\right@footnoterule{%
16714   \kern-3\p@
16715   \hbox to \columnwidth{\hskip .6\columnwidth \hrulefill }
16716   \kern2.6\p@}
16717 \renewcommand\theequation
16718 {\ifnum \c@chapter>\z@ \thechapter\@SepMark\fi \@arabic\c@equation}
16719 \renewcommand\thefigure
16720   {\ifnum \c@chapter>\z@ \thechapter\@SepMark\fi \@arabic\c@figure}
16721 \renewcommand\thetable%
16722   {\ifnum \c@chapter>\z@ \thechapter\@SepMark\fi \@arabic\c@table}
16723 \renewcommand\thesection {\thechapter\@SepMark\@arabic\c@section}
16724 \renewcommand\thesubsection {\thesection\@SepMark\@arabic\c@subsection}
16725 \renewcommand\thesubsubsection {\thesubsection \@SepMark\@arabic\c@subsubsection}
16726 \renewcommand\theparagraph {\thesubsubsection\@SepMark\@arabic\c@paragraph}
16727 \renewcommand\thesubparagraph {\theparagraph\@SepMark\@arabic\c@subparagraph}
16728 \renewenvironment{thebibliography}[1]
16729   {\chapter*{\bibname
16730     \mkboth{\bibname}{\bibname}}%
16731     \if@RTL\if@LTRbibitems\@RTLfalse\else\fi\else\if@RTLbibitems\@RTLtrue\else\fi\fi
16732     \bidi@thebibliography@font@hook%
16733     \list{\@biblabel{\@arabic\c@enumiv}}%
16734       {\settowidth\labelwidth{\@biblabel{#1}}%
16735        \leftmargin\labelwidth
16736        \advance\leftmargin\labelsep
16737        \@openbib@code
16738        \usecounter{enumiv}%
16739        \let\p@enumiv\@empty
16740        \renewcommand\theenumiv{\@arabic\c@enumiv}}%
16741        \sloppy
16742        \clubpenalty4000
16743        \@clubpenalty \clubpenalty
16744        \widowpenalty4000%
16745        \sfcode`\.=\@m}
16746   {\def\@noitemerr
16747     {\@latex@warning{Empty `thebibliography' environment}}%
16748     \endlist}

```

## 103 File report-xetex-bidi.def

```

16749 \ProvidesFile{report-xetex-bidi.def}[2017/06/09 v0.8 bidi adaptations for standard report cl
16750 \renewenvironment{theindex}
16751   {\if@twocolumn
16752     \@restonecolfalse
16753     \else
16754       \@restonecoltrue
16755       \fi
16756     \columnseprule \z@
16757     \columnsep 35\p@
16758     \twocolumn[\@makeschapterhead{\indexname}}%
16759     \mkboth{\MakeUppercase\indexname}%

```





```

16760             {\MakeUppercase\indexname}%
16761             \thispagestyle{plain}\parindent\z@
16762             \parskip\z@ \@plus .3\p@\relax
16763             \let\item\@idxitem}
16764         {\if@restonecol\onecolumn\else\clearpage\fi}
16765     \if@titlepage
16766     \renewcommand\maketitle{\begin{titlepage}%
16767     \let\footnotesize\small
16768     \let\right@footnoterule\relax
16769     \let\left@footnoterule\relax
16770     \let\textwidth\footnoterule\relax
16771     \let \footnote \thanks
16772     \let \LTRfootnote \LTRthanks
16773     \let \RTLfootnote \RTLthanks
16774     \null\vfil
16775     \vskip 60\p@
16776     \begin{center}%
16777         {\LARGE \@title \par}%
16778         \vskip 3em%
16779         {\large
16780         \lineskip .75em%
16781         \begin{tabular}[t]{c}%
16782             \@author
16783             \end{tabular}\par}%
16784         \vskip 1.5em%
16785         {\large \@date \par}%           % Set date in \large size.
16786     \end{center}\par
16787     \@thanks
16788     \vfil\null
16789     \end{titlepage}%
16790     \setcounter{footnote}{0}%
16791     \global\let\thanks\relax
16792     \global\let\LTRthanks\relax
16793     \global\let\RTLthanks\relax
16794     \global\let\maketitle\relax
16795     \global\let\@thanks\@empty
16796     \global\let\@author\@empty
16797     \global\let\@date\@empty
16798     \global\let\@title\@empty
16799     \global\let\title\relax
16800     \global\let\author\relax
16801     \global\let\date\relax
16802     \global\let\and\relax
16803 }
16804 \else
16805 \renewcommand\maketitle{\par
16806 \begingroup
16807 \renewcommand\thefootnote{\@fnsymbol\c@footnote}%
16808 \def\@makefnmark{\rlap{\@textsuperscript{\normalfont\@thefnmark}}}%
16809 \long\def\@makefntext##1{\parindent 1em\noindent
16810 \hbxt@1.8em{%
16811 \hss\@textsuperscript{\normalfont\@thefnmark}}##1}%
16812 \if@twocolumn
16813 \ifnum \col@number=\@ne

```



```

16814         \@maketitle
16815     \else
16816         \twocolumn[\@maketitle]%
16817     \fi
16818 \else
16819     \newpage
16820     \global\@topnum\z@    % Prevents figures from going at top of page.
16821     \@maketitle
16822     \fi
16823     \thispagestyle{plain}\@thanks
16824 \endgroup
16825 \setcounter{footnote}{0}%
16826 \global\let\thanks\relax
16827 \global\let\LTRthanks\relax
16828 \global\let\RTLthanks\relax
16829 \global\let\maketitle\relax
16830 \global\let\@maketitle\relax
16831 \global\let\@thanks\@empty
16832 \global\let\@author\@empty
16833 \global\let\@date\@empty
16834 \global\let\@title\@empty
16835 \global\let\title\relax
16836 \global\let\author\relax
16837 \global\let\date\relax
16838 \global\let\and\relax
16839 }
16840 \def\@maketitle{%
16841     \newpage
16842     \null
16843     \vskip 2em%
16844     \begin{center}%
16845         \let \footnote \thanks
16846         \let \LTRfootnote \LTRthanks
16847         \let \RTLfootnote \RTLthanks
16848         {\LARGE \@title \par}%
16849         \vskip 1.5em%
16850         {\large
16851             \lineskip .5em%
16852             \begin{tabular}[t]{c}%
16853                 \@author
16854             \end{tabular}\par}%
16855         \vskip 1em%
16856         {\large \@date}%
16857     \end{center}%
16858     \par
16859     \vskip 1.5em}
16860 \fi
16861 \renewcommand*{\l@part[2]}{%
16862     \ifnum \c@tocdepth >-2\relax
16863         \addpenalty{-\@highpenalty}%
16864         \addvspace{2.25em \@plus\p@}%
16865         \setlength\@tempdima{3em}%
16866         \begingroup
16867             \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth

```



```

16868 \parfillskip -\@pnumwidth
16869 {\leavevmode
16870 \large \bfseries #1\hfil \hb@xt@\@pnumwidth{\hss #2}}\par
16871 \nobreak
16872 \global\@nobreaktrue
16873 \everypar{\global\@nobreakfalse\everypar{}}}%
16874 \endgroup
16875 \fi}
16876 \renewcommand*\l@chapter[2]{%
16877 \ifnum \c@tocdepth >\m@ne
16878 \addpenalty{-\@highpenalty}%
16879 \vskip 1.0em \plus\p@
16880 \setlength\@tempdima{1.5em}%
16881 \begingroup
16882 \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
16883 \parfillskip -\@pnumwidth
16884 \leavevmode \bfseries
16885 \advance\if@RTL\rightskip\else\leftskip\fi\@tempdima
16886 \hskip -\if@RTL\rightskip\else\leftskip\fi
16887 #1\nobreak\hfil \nobreak\hb@xt@\@pnumwidth{\hss #2}\par
16888 \penalty\@highpenalty
16889 \endgroup
16890 \fi}
16891 \renewcommand\left@footnoterule{%
16892 \kern-3\p@
16893 \hrule\@width.4\columnwidth
16894 \kern2.6\p@}
16895 \renewcommand\right@footnoterule{%
16896 \kern-3\p@
16897 \hbox to \columnwidth{\hskip .6\columnwidth \hrulefill }
16898 \kern2.6\p@}
16899 \renewcommand\theequation
16900 {\ifnum \c@chapter>\z@ \thechapter\@SepMark\fi \@arabic\c@equation}
16901 \renewcommand \thefigure
16902 {\ifnum \c@chapter>\z@ \thechapter\@SepMark\fi \@arabic\c@figure}
16903 \renewcommand \thetable
16904 {\ifnum \c@chapter>\z@ \thechapter\@SepMark\fi \@arabic\c@table}
16905 \renewcommand \thechapter {\@arabic\c@chapter}
16906 \renewcommand \thesection {\thechapter\@SepMark\@arabic\c@section}
16907 \renewcommand \thesubsection {\thesection\@SepMark\@arabic\c@subsection}
16908 \renewcommand \thesubsubsection {\thesubsection \@SepMark\@arabic\c@subsubsection}
16909 \renewcommand \theparagraph {\thesubsubsection\@SepMark\@arabic\c@paragraph}
16910 \renewcommand \thesubparagraph {\theparagraph\@SepMark\@arabic\c@subparagraph}
16911 \def\@makechapterhead#1{%
16912 \vspace*{50\p@}%
16913 {\parindent \z@ \if@RTL\raggedleft\else\raggedright\fi \normalfont
16914 \ifnum \c@secnumdepth >\m@ne
16915 \huge\bfseries \@chapapp\space \thechapter
16916 \par\nobreak
16917 \vskip 20\p@
16918 \fi
16919 \interlinepenalty\@M
16920 \Huge \bfseries #1\par\nobreak
16921 \vskip 40\p@

```



```

16922   }}
16923   \def\@makeschapterhead#1{%
16924     \vspace*{50\p@}%
16925     {\parindent \z@ \if@RTL\raggedleft\else\raggedright\fi
16926       \normalfont
16927       \interlinepenalty\@M
16928       \Huge \bfseries #1\par\nobreak
16929       \vskip 40\p@
16930     }}
16931   \renewenvironment{thebibliography}[1]
16932     {\chapter*{\bibname}%
16933       \@mkboth{\MakeUppercase\bibname}{\MakeUppercase\bibname}%
16934       \if@RTL\if@LTRbibitems\@RTLfalse\else\fi\else\if@RTLbibitems\@RTLtrue\else\fi\fi
16935       \bidi@thebibliography@font@hook%
16936       \list{\@biblabel{\@arabic\c@enumiv}}%
16937         {\settowidth\labelwidth{\@biblabel{#1}}%
16938           \leftmargin\labelwidth
16939           \advance\leftmargin\labelsep
16940           \@openbib@code
16941           \usecounter{enumiv}%
16942           \let\p@enumiv\@empty
16943           \renewcommand\theenumiv{\@arabic\c@enumiv}}%
16944       \sloppy
16945       \clubpenalty4000
16946       \@clubpenalty \clubpenalty
16947       \widowpenalty4000%
16948       \sfcode\.\@m}
16949   {\def\@noitemerr
16950     {\@latex@warning{Empty `thebibliography' environment}}}%
16951   \endlist}

```

## 104 File rotating-xetex-bidi.def

```

16952 \ProvidesFile{rotating-xetex-bidi.def}[2013/05/22 v0.2 bidi adaptations for rotating package]
16953 \def\end@rotfloat{%
16954   \end{minipage}\end{lrbox}%
16955   \stepcounter{r@tfl@t}%
16956   \rot@label{RF\ther@tfl@t}%
16957   \rot@pageref{RF\ther@tfl@t}{\R@page}%
16958   \edef\@tempa{Adding sideways \c@type\space on page \R@page\space}
16959   \rot@mess@toks\expandafter{\@tempa}
16960   \wd\rot@float@box\z@
16961   \ht\rot@float@box\z@
16962   \dp\rot@float@box\z@
16963   \vboxL to \textheight{%
16964     \setkeys{Grot}{units=360}%
16965     \if@rot@twoside
16966       \else
16967         \let\R@page\rot@LR
16968       \fi
16969     \ifthenelse{\isodd{\R@page}}{%
16970       \if@rot@twoside
16971         \rot@mess@toks\expandafter{\the\rot@mess@toks (right hand page)}%
16972       \fi

```



```

16973     \vfill
16974     \@@line{%
16975         \hskip\rotFPtop
16976         \rotatebox{90}{\box\rot@float@box}%
16977         \hskip\rotFPbot
16978     }%
16979 }{%
16980     \if@rot@twoside
16981         \rot@mess@toks\expandafter{\the\rot@mess@toks (left hand page)}%
16982     \fi
16983     \@@line{%
16984         \hskip\rotFPbot
16985         \rotatebox{-90}{\box\rot@float@box}%
16986         \hskip\rotFPtop
16987     }%
16988     \vfill
16989 }%
16990 \rot@message{\the\rot@mess@toks}
16991 }%
16992 \end@float
16993 }
16994 \let\endsidewaysfigure\end@rotfloat
16995 \let\endsidewaysstable\end@rotfloat
16996 \def\end@rotdblfloat{%
16997     \end{minipage}\end{lrbox}%
16998     \stepcounter{r@tfl@t}%
16999     \rot@label{RF\ther@tfl@t}%
17000     \rot@pageref{RF\ther@tfl@t}{\R@@page}%
17001     \edef\@tempa{Adding sideways \capttype\space on page \R@@page\space}
17002     \rot@mess@toks\expandafter{\@tempa}
17003     \@tempdima\ht\rot@float@box
17004     \advance\@tempdima by \dp\rot@float@box
17005     \wd\rot@float@box\z@
17006     \ht\rot@float@box\z@
17007     \dp\rot@float@box\z@
17008     \vboxL to \textheight{%
17009         \setkeys{Grot}{units=360}%
17010         \if@rot@twoside
17011         \else
17012             \let\R@@page\rot@LR
17013         \fi
17014         \ifthenelse{\isodd{\R@@page}}{%
17015             \ifrot@messages
17016                 \if@rot@twoside
17017                 \rot@mess@toks\expandafter{\the\rot@mess@toks (right hand page)}%
17018             \fi
17019             \fi
17020             \vfill
17021             \@@line{%
17022                 \hskip\rotFPtop
17023                 \rotatebox{90}{\box\rot@float@box}%
17024                 \hskip\rotFPbot
17025             }%
17026         }{%

```



```

17027     \ifrot@messages
17028     \if@rot@twoside
17029     \rot@mess@toks\expandafter{\the\rot@mess@toks (left hand page)}%
17030 \fi
17031     \fi%
17032     \@@line{%
17033         \hskip\rotFPbot
17034         \rotatebox{-90}{\box\rot@float@box}%
17035         \hskip\rotFPtop
17036     }%
17037     \vfill
17038 }%
17039 \rot@message{\the\rot@mess@toks}%
17040 }%
17041 \end@dblfloat
17042 }
17043 \def\turn#1{%
17044     \Grot@setangle{#1}%
17045     \setbox\z@\color@hbox\ifmmode\if@RTL\beginR\fi\else\if@RTL\beginR\fi\fi\ignorespaces}
17046 \def\endturn{%
17047     \ifmmode\if@RTL\endR\fi\else\if@RTL\endR\fi\fi
17048     \unskip\color@endbox
17049     \Grot@x\z@
17050     \Grot@y\z@
17051     \ifmmode\else\if@RTL\beginL\fi\fi\Grot@box\ifmmode\else\if@RTL\endL\fi\fi
17052 }
17053 \def\rotate#1{%
17054     \Grot@setangle{#1}%
17055     \setbox\z@\color@hbox\ifmmode\if@RTL\beginR\fi\else\if@RTL\beginR\fi\fi\ignorespaces}
17056 \def\endrotate{%
17057     \ifmmode\if@RTL\endR\fi\else\if@RTL\endR\fi\fi
17058     \unskip\color@endbox
17059     \Grot@x\z@
17060     \Grot@y\z@
17061     \wd0\z@\dp0\z@\ht0\z@
17062     \ifmmode\else\if@RTL\beginL\fi\fi\Grot@box\ifmmode\else\if@RTL\endL\fi\fi
17063 }
17064 \def\turnbox#1#2{%
17065     \Grot@setangle{#1}%
17066     \setbox\z@\hbox{\ifmmode\if@RTL\beginR\fi\else\if@RTL\beginR\fi\fi#2\ifmmode\if@RTL\endR\fi\fi}
17067     \Grot@x\z@\Grot@y\z@
17068     \wd0\z@\dp0\z@\ht0\z@
17069     \ifmmode\else\if@RTL\beginL\fi\fi\Grot@box\ifmmode\else\if@RTL\endL\fi\fi
17070 }
17071 \def\sideways{%
17072     \Grot@setangle{90}%
17073     \setbox\z@\color@hbox\ifmmode\if@RTL\beginR\fi\else\if@RTL\beginR\fi\fi\ignorespaces}
17074 \def\endsideways{%
17075     \ifmmode\if@RTL\endR\fi\else\if@RTL\endR\fi\fi
17076     \unskip\color@endbox
17077     \Grot@x\z@
17078     \Grot@y\z@
17079     \ifmmode\else\if@RTL\beginL\fi\fi\Grot@box\ifmmode\else\if@RTL\endL\fi\fi
17080 }

```



## 105 File scrartcl-xetex-bidi.def

```

17081 \ProvidesFile{scrartcl-xetex-bidi.def}[2017/06/09 v1.1 bidi adaptations for scrartcl class f
17082 \newcommand{\scr@saved@LTRfootnotetext}{}
17083 \newcommand{\scr@saved@RTLfootnotetext}{}
17084 \let\scr@saved@footnotetext\@footnotetext
17085 \let\scr@saved@LTRfootnotetext\@LTRfootnotetext
17086 \let\scr@saved@RTLfootnotetext\@RTLfootnotetext
17087 \renewcommand{\@footnotetext}[1]{%
17088   \scr@saved@footnotetext{#1}%
17089   \csname FN@mfb@prepare\endcsname
17090 }
17091 \renewcommand{\@LTRfootnotetext}[1]{%
17092   \scr@saved@LTRfootnotetext{#1}%
17093   \csname FN@mfb@prepare\endcsname
17094 }
17095 \renewcommand{\@RTLfootnotetext}[1]{%
17096   \scr@saved@RTLfootnotetext{#1}%
17097   \csname FN@mfb@prepare\endcsname
17098 }
17099 \renewcommand\deffootnote[4][1]{%
17100   \long\def\@makefnmark##1{%
17101     \setlength{\@tempdimc}{#3}%
17102     \def\@tempa{#1}\ifx\@tempa\@empty
17103       \setpar{\@par
17104         \@tempdima = \hsize
17105         \addtolength{\@tempdima}{-#2}%
17106         \if@RTL\parshape \@ne Opt \@tempdima\else\parshape \@ne #2 \@tempdima\fi}%
17107       \else
17108         \addtolength{\@tempdimc}{#2}%
17109         \addtolength{\@tempdimc}{-#1}%
17110         \setpar{\@par
17111           \@tempdima = \hsize
17112           \addtolength{\@tempdima}{-#1}%
17113           \@tempdimb = \hsize
17114           \addtolength{\@tempdimb}{-#2}%
17115           \if@RTL\parshape \tw@ Opt \@tempdima Opt \@tempdimb\else\parshape \tw@ #1 \@tempdima
17116         }%
17117       \fi
17118       \par
17119       \parindent\@tempdimc\noindent
17120       \ftn@font\hbox to \z@{\hss\@makefnmark}##1%
17121     }%
17122     \def\@makefnmark{\hbox{\ftn@font{#4}}}%
17123   }
17124 \deffootnote[1em]{1.5em}{1em}{\textsuperscript{\thefootnotemark}}
17125 \renewcommand*\left@footnoterule{%
17126   \normalsize\ftn@rule@test@values
17127   \kern-\dimexpr 2.6\p@+\ftn@rule@height\relax
17128   \ifx\@textbottom\relax\else\vskip \z@ \@plus.05fil\fi
17129   {\usekomafont{footnoterule}{%
17130     \hrule \@height\ftn@rule@height \@width\ftn@rule@width}}%
17131   \kern 2.6\p@}
17132 \renewcommand*\right@footnoterule{%

```



```

17133 \normalsize\ftn@rule@test@values
17134 \kern-\dimexpr 2.6\p@+\ftn@rule@height\relax
17135 \ifx\@textbottom\relax\else\vskip \z@ \@plus.05fil\fi
17136 {\usekomafont{footnoterule}{%
17137     \hbox to \columnwidth{\hskip \dimexpr\columnwidth-\ftn@rule@width\relax \leavevmode\l
17138 \kern 2.6\p@}
17139 \renewcommand*\maketitle[1][1]{%
17140     \if@titlepage
17141         \begin{titlepage}
17142             \setcounter{page}{%
17143                 #1%
17144             }%
17145             \let\footnotesize\small
17146             \let\right@footnoterule\relax
17147             \let\left@footnoterule\relax
17148             \let\textwidth\footnoterule\relax
17149             \let\footnote\thanks
17150             \let\LTRfootnote\LTRthanks
17151             \let\RTLfootnote\RTLthanks
17152             \renewcommand*\thefootnote{\@fnsymbol\c@footnote}%
17153             \let\@oldmakefnmark\@makefnmark
17154             \renewcommand*{\@makefnmark}{\rlap{\@oldmakefnmark}}%
17155             \ifx\@extratitle\@empty \else
17156                 \noindent\@extratitle\next@tpage\cleardoubleemptypage
17157                 \thispagestyle{empty}%
17158             \fi
17159             \setparsizes{\z@}{\z@}{\z@ \@plus 1fil}\par@updaterelative
17160             \ifx\@titlehead\@empty \else
17161                 \begin{minipage}[t]{\textwidth}%
17162                     \@titlehead
17163                 \end{minipage}\par
17164             \fi
17165             \null\vfill
17166             \begin{center}
17167                 \ifx\@subject\@empty \else
17168                     {\subject@font \@subject \par}%
17169                     \vskip 3em
17170                 \fi
17171                 {\titlefont\huge \@title\par}%
17172                 \vskip 1em
17173                 {\ifx\@subtitle\@empty\else\usekomafont{subtitle}\@subtitle\par\fi}%
17174                 \vskip 2em
17175                 {\Large \lineskip 0.75em
17176                     \begin{tabular}[t]{c}
17177                         \@author
17178                     \end{tabular}\par
17179                 }%
17180                 \vskip 1.5em
17181                 {\Large \@date \par}%
17182                 \vskip \z@ \@plus3fill
17183                 {\Large \@publishers \par}%
17184                 \vskip 3em
17185             \end{center}\par
17186             \@thanks

```





```

17187 \vfill\null
17188 \if@twoside\next@tpage
17189 \begin{minipage}[t]{\textwidth}
17190 \@uppertitleback
17191 \end{minipage}\par
17192 \vfill
17193 \begin{minipage}[b]{\textwidth}
17194 \@lowertitleback
17195 \end{minipage}
17196 \fi
17197 \ifx\@dedication\@empty \else
17198 \next@tpage\null\vfill
17199 {\centering \Large \@dedication \par}%
17200 \vskip \z@ \@plus3fill
17201 \if@twoside \next@tpage\cleardoubleemptypage \fi
17202 \fi
17203 \end{titlepage}
17204 \else
17205 \par
17206 \@tempcnta=%
17207 #1%
17208 \relax\ifnum\@tempcnta=1\else
17209 \ClassWarning{\KOMAClassName}{%
17210 Optional argument of \string\maketitle\space ignored
17211 at\MessageBreak
17212 notitlepage-mode%
17213 }%
17214 \fi
17215 \begingroup
17216 \renewcommand*\thefootnote{\@fnsymbol\c@footnote}%
17217 \let\@oldmakefnmark\@makefnmark
17218 \renewcommand*{\@makefnmark}{\rlap{\@oldmakefnmark}}
17219 \if@twocolumn
17220 \ifnum \col@number=\@one
17221 \@maketitle
17222 \else
17223 \twocolumn[\@maketitle]%
17224 \fi
17225 \else
17226 \newpage
17227 \global\@topnum\z@
17228 \@maketitle
17229 \fi
17230 \thispagestyle{\titlepagestyle}\@thanks
17231 \endgroup
17232 \fi
17233 \setcounter{footnote}{0}%
17234 \let\thanks\relax
17235 \let\LTRthanks\relax
17236 \let\RTLthanks\relax
17237 \let\maketitle\relax
17238 \let\@maketitle\relax
17239 \global\let\@thanks\@empty
17240 \global\let\@author\@empty

```



```

17241 \global\let\@date\@empty
17242 \global\let\@title\@empty
17243 \global\let\@subtitle\@empty
17244 \global\let\@extratitle\@empty
17245 \global\let\@titlehead\@empty
17246 \global\let\@subject\@empty
17247 \global\let\@publishers\@empty
17248 \global\let\@uppertitleback\@empty
17249 \global\let\@lowertitleback\@empty
17250 \global\let\@dedication\@empty
17251 \global\let\author\relax
17252 \global\let\title\relax
17253 \global\let\extratitle\relax
17254 \global\let\titlehead\relax
17255 \global\let\subject\relax
17256 \global\let\publishers\relax
17257 \global\let\uppertitleback\relax
17258 \global\let\lowertitleback\relax
17259 \global\let\dedication\relax
17260 \global\let\date\relax
17261 \global\let\and\relax
17262 }%
17263 \renewcommand*{\@maketitle}{%
17264 \clearpage
17265 \let\footnote\thanks
17266 \let\LTRfootnote\LTRthanks
17267 \let\RTLfootnote\RTLthanks
17268 \ifx\@extratitle\@empty \else
17269 \noindent\@extratitle \next@tpage \if@twoside \null\next@tpage \fi
17270 \fi
17271 \setparsizes{\z@}{\z@}{\z@\@plus 1fil}\par@updaterelative
17272 \ifx\@titlehead\@empty \else
17273 \begin{minipage}[t]{\textwidth}
17274 \@titlehead
17275 \end{minipage}\par
17276 \fi
17277 \null
17278 \vskip 2em%
17279 \begin{center}%
17280 \ifx\@subject\@empty \else
17281 {\subject@font \@subject \par}
17282 \vskip 1.5em
17283 \fi
17284 {\titlefont\huge \@title \par}%
17285 \vskip .5em
17286 {\ifx\@subtitle\@empty\else\usekomafont{subtitle}\@subtitle\par\fi}%
17287 \vskip 1em
17288 {\Large
17289 \lineskip .5em%
17290 \begin{tabular}[t]{c}
17291 \@author
17292 \end{tabular}\par
17293 }%
17294 \vskip 1em%

```



```

17295     {\Large \@date \par}%
17296     \vskip \z@ \@plus 1em
17297     {\Large \@publishers \par}
17298     \ifx\@dedication\@empty \else
17299         \vskip 2em
17300         {\Large \@dedication \par}
17301     \fi
17302 \end{center}%
17303 \par
17304 \vskip 2em
17305 }%
17306 \def\raggedsection{\if@RTL\raggedleft\else\raggedright\fi}
17307 \def\raggedpart{\if@RTL\raggedleft\else\raggedright\fi}
17308 \renewcommand*\autodot{\if@altsecnumformat\@SepMark\fi}
17309 \renewcommand*\thesubsection{\thesection\@SepMark\@arabic\c@section}
17310 \renewcommand*\thesubsubsection{\%
17311     \thesubsection\@SepMark\@arabic\c@subsubsection
17312 }
17313 \renewcommand*\theparagraph{\thesubsubsection\@SepMark\@arabic\c@paragraph}
17314 \renewcommand*\thesubparagraph{\%
17315     \theparagraph\@SepMark\@arabic\c@subparagraph
17316 }
17317 \renewenvironment{thebibliography}[1]{%
17318     \if@bib@break@
17319         \bib@beginhook
17320     \else
17321         \bib@heading
17322         \ifx\bibpreamble\relax\else\ifx\bibpreamble\@empty\else
17323             \noindent\bibpreamble\par\nobreak
17324         \fi\fi
17325         \bib@beginhook
17326         \bib@before@hook
17327     \fi
17328     \renewcommand{\BreakBibliography}[1]{%
17329         \@bib@break
17330         \end{thebibliography}%
17331         \begingroup ##1\endgroup
17332         \begin{thebibliography}{#1}
17333     }%
17334     \if@RTL\if@LTRbibitems\@RTLfalse\else\fi\else\if@RTLbibitems\@RTLtrue\else\fi\fi
17335     \bidi@thebibliography@font@hook%
17336     \list{%
17337         \@biblabel{\@arabic\c@enumiv}%
17338     }{%
17339         \settowidth\labelwidth{\@biblabel{#1}}%
17340         \leftmargin\labelwidth
17341         \advance\leftmargin\labelsep
17342         \@openbib@code
17343         \if@bib@break@
17344             \edef\@tempa{%
17345                 \noexpand\usecounter{enumiv}%
17346                 \noexpand\setcounter{enumiv}{\the\c@enumiv}%
17347             }\@tempa
17348         \no@bib@break

```



```

17349 \else
17350 \usecounter{enumiv}%
17351 \fi
17352 \let\p@enumiv\@empty
17353 \renewcommand*\theenumiv{\@arabic\c@enumiv}%
17354 }%
17355 \sloppy\clubpenalty4000 \widowpenalty4000
17356 \sfcode`\.\@m
17357 }{%
17358 \if@bib@break@
17359 \def\@noitemerr{%
17360 \latex@warning{%
17361 \string\BreakBibliography\space at begin of `thebibliography'
17362 environment\MessageBreak
17363 or following \string\BreakBibliography}%
17364 }%
17365 \else
17366 \def\@noitemerr{%
17367 \latex@warning{%
17368 Empty `thebibliography' environment or
17369 \string\BreakBibliography\MessageBreak
17370 before end of `thebibliography' environment}%
17371 }%
17372 \fi
17373 \endlist
17374 \if@bib@break@
17375 \else
17376 \bib@after@hook
17377 \let\bib@before@hook\@empty
17378 \let\bib@after@hook\@empty
17379 \fi
17380 \bib@endhook
17381 }
17382 \renewcommand*\left@footnoterule{%
17383 \kern-3\p@
17384 \ifx\@textbottom\relax\else\vskip \z@ \@plus.05fil\fi
17385 \hrule\@width.4\columnwidth
17386 \kern 2.6\p@}
17387 \renewcommand*\right@footnoterule{%
17388 \kern-3\p@
17389 \ifx\@textbottom\relax\else\vskip \z@ \@plus.05fil\fi
17390 \hbox to \columnwidth{\hskip .6\columnwidth \hrulefill }
17391 \kern2.6\p@}
17392 \renewcommand*\raggeddictum{\if@RTL\raggedright\else\raggedleft\fi}
17393 \renewcommand*\raggeddictumtext{\if@RTL\raggedleft\else\raggedright\fi}
17394 \renewcommand*\raggeddictumauthor{\if@RTL\raggedright\else\raggedleft\fi}
17395 \renewcommand\marginline[1]{%
17396 \marginpar[\if@RTL\raggedright\else\raggedleft\fi{#1}]{\if@RTL\raggedleft\else\raggedright
17397 }
17398 \renewcommand{\@makecaption}[3]{%
17399 \cap@margin
17400 \ifonlinecaptions
17401 \@tempcnta=\value{mpfootnote}\@tempcntb=\value{footnote}%
17402 \let\scr@tmp@footnotetext=\@footnotetext

```



```

17403 \let\@footnotetext=\@gobble
17404 \let\scr@tmp@LTRfootnotetext=\@LTRfootnotetext
17405 \let\@LTRfootnotetext=\@gobble
17406 \let\scr@tmp@RTLfootnotetext=\@RTLfootnotetext
17407 \let\@RTLfootnotetext=\@gobble
17408 \sbox\@tempboxa{%
17409   {\capfont{\strut\ignorespaces
17410     #1{\caplabelfont{#2\captionformat}}}%
17411     #3\unskip\strut}}%
17412 }%
17413 \let\@footnotetext=\scr@tmp@footnotetext
17414 \let\scr@tmp@footnotetext=\undefined
17415 \let\@LTRfootnotetext=\scr@tmp@LTRfootnotetext
17416 \let\scr@tmp@LTRfootnotetext=\undefined
17417 \let\@RTLfootnotetext=\scr@tmp@RTLfootnotetext
17418 \let\scr@tmp@RTLfootnotetext=\undefined
17419 \setcounter{footnote}{\@tempcntb}%
17420 \setcounter{mpfootnote}{\@tempcnta}%
17421 \else
17422   \sbox\@tempboxa{\hspace*{2\cap@width}}%
17423 \fi
17424 \beginingroup%
17425   \setlength{\@tempdima}{\cap@width}%
17426   \ifdim \wd\@tempboxa >\@tempdima
17427     \hb@xt@\hsize{%
17428       \setbox\@tempboxa\vbox{\hsize=\cap@width
17429         \ifdofullc@p
17430           {\capfont{\@hangfrom{\scr@smashdp{\strut\ignorespaces
17431             #1{\caplabelfont{#2\captionformat}}}}}%
17432             {\#3\unskip\strut\par}}}%
17433         \else%
17434           \ifdim\cap@indent<\z@
17435             {\capfont{\strut\ignorespaces
17436               #1{\caplabelfont{#2\captionformat\par}}}%
17437               \noindent\hspace*{-\cap@indent}\#3\unskip\strut\par}}%
17438           \else%
17439             \if@capbreak
17440               {\capfont{\strut\ignorespaces
17441                 #1{\caplabelfont{#2\captionformat\par}}}%
17442                 \noindent\@hangfrom{\hspace*{\cap@indent}}{\#3\par}}}%
17443             \else
17444               {\capfont{\@hangfrom{\scr@smashdp\strut\hspace*{\cap@indent}}%
17445                 {\hspace{-\cap@indent}\scr@smashdp{\ignorespaces#1%
17446                   {\caplabelfont{#2\captionformat}}}\#3\unskip\strut\par}}}%
17447             \fi
17448           \fi
17449         \fi
17450       }%
17451       \setlength{\@tempdima}{\ht\@tempboxa}%
17452       \addtolength{\@tempdima}{\dp\@tempboxa}%
17453       \addtolength{\@tempdima}{-\ht\strutbox}%
17454       \ht\@tempboxa\ht\strutbox
17455       \dp\@tempboxa\@tempdima
17456       \strut\cap@left

```



```

17457         \box\@tempboxa
17458         \cap@right\strut
17459     }%
17460 \else
17461     \global \@minipagefalse
17462     \sbox\@tempboxa{%
17463         {\capfont{\scr@smashdp{\strut\ignorespaces
17464             #1{\caplabelfont{#2\captionformat}}}}}%
17465         #3}}%
17466     }%
17467     {\capfont{\hb@xt@\hsize{\strut\cap@left\if@RTL\beginR\fi\box\@tempboxa\if@RTL\endR\fi}
17468     \fi
17469 \endgroup
17470 }
17471 \renewcommand{\@makecaption}[2]{%
17472     \if@captionabove
17473         \vskip\belowcaptionskip
17474     \else
17475         \vskip\abovecaptionskip
17476     \fi
17477     \@makecaption\@firstofone{#1}{#2}%
17478     \if@captionabove
17479         \vskip\abovecaptionskip
17480     \else
17481         \vskip\belowcaptionskip
17482     \fi
17483 }
17484 \bidi@AfterFile{longtable-xetex-bidi.def}{%
17485     \ifpackageloaded{caption2}{\@komalongtablefalse
17486         \scr@caption@before@longtable@warning{caption2}%
17487     }{}%
17488     \if@komalongtable
17489         \renewcommand{\LT@makecaption}[3]{%
17490             \noalign{%
17491                 \if@captionabove
17492                     \vskip\belowcaptionskip
17493                 \else
17494                     \vskip\abovecaptionskip
17495                 \fi
17496             }%
17497             \LT@mcol\LT@cols c{%
17498                 \hbox to\z@{\hss\parbox[t]{\linewidth{%
17499                     \@makecaption{#1}{#2}{#3}%
17500                 }}
17501                 \endgraf
17502                 \if@captionabove
17503                     \vskip\abovecaptionskip
17504                 \else
17505                     \vskip\belowcaptionskip
17506                 \fi
17507             }%
17508             \hss
17509         }%
17510     }%

```



```

17511 \renewcommand*{\scr@LT@array}{}%
17512 \let\scr@LT@array=\LT@array
17513 \renewcommand*{\LT@array}{%
17514 \let\scr@caption=\LT@caption
17515 \def\captionabove{\noalign{\global\@captionabovetrue}%
17516 \scr@caption}%
17517 \def\captionbelow{\noalign{\global\@captionabovefalse}%
17518 \scr@caption}%
17519 \if@tablecaptionabove
17520 \let\LT@caption=\captionabove
17521 \else
17522 \let\LT@caption=\captionbelow
17523 \fi
17524 \scr@LT@array
17525 }%
17526 \ClassInfo{\KOMAClassName}{%
17527 longtable captions redefined%
17528 }%
17529 \fi
17530 }
17531
17532 \CloneTOCEntryStyle{tocline}{part}
17533 \TOCEntryStyleStartInitCode{part}{%
17534 \expandafter\renewcommand%
17535 \csname scr@tso@#1@linefill\endcsname{\hfill}%
17536 \expandafter\renewcommand%
17537 \csname scr@tso@#1@entryformat\endcsname[1]{\usekomafont{partentry}{##1}}%
17538 \expandafter\renewcommand%
17539 \csname scr@tso@#1@pagenumberformat\endcsname[1]{%
17540 \usekomafont{partentry}{\usekomafont{partentrypagenumber}{##1}}}%
17541 \expandafter\renewcommand\expandafter*%
17542 \csname scr@tso@#1@beforeskip\endcsname{2.25em \@plus\p0}%
17543 }
17544
17545 \CloneTOCEntryStyle{tocline}{section}
17546 \TOCEntryStyleStartInitCode{section}{%
17547 \expandafter\renewcommand%
17548 \csname scr@tso@#1@linefill\endcsname{%
17549 \if@sectionentrywithdots
17550 \TOCLineLeaderFill\relax
17551 \else
17552 \hfill
17553 \fi
17554 }%
17555 % F~fcr die Eintr~e4ge die Schrift von Element sectionentry verwenden.
17556 \expandafter\renewcommand%
17557 \csname scr@tso@#1@entryformat\endcsname{\usekomafont{sectionentry}}%
17558 \expandafter\renewcommand%
17559 \csname scr@tso@#1@pagenumberformat\endcsname[1]{\usekomafont{sectionentry}{\usekomafont{
17560 \expandafter\renewcommand\expandafter*%
17561 \csname scr@tso@#1@beforeskip\endcsname{1.0em \@plus\p0}%
17562 }
17563
17564 \CloneTOCEntryStyle{tocline}{subsection}

```



```

17565 \TOCEntryStyleStartInitCode{subsection}{%
17566   \expandafter\renewcommand%
17567   \csname scr@tso@#1@linefill\endcsname{\TOCLineLeaderFill\relax}%
17568 }
17569
17570 \CloneTOCEntryStyle{subsection}{default}
17571
17572 \DeclareSectionCommand[%
17573   style=part,%
17574   level=\z@,%
17575   tocstyle=part,%
17576   toplevel=\m@ne,%
17577   tocindent=\z@,%
17578   tocnumwidth=2em%
17579 ]{part}
17580 \DeclareSectionCommand[%
17581   style=section,%
17582   level=1,%
17583   indent=\z@,%
17584   beforekip=-3.5ex \@plus -1ex \@minus -.2ex,%
17585   afterskip=2.3ex \@plus .2ex,%
17586   tocstyle=section,%
17587   tocindent=0pt,%
17588   tocnumwidth=1.5em%
17589 ]{section}
17590 \DeclareSectionCommand[%
17591   style=section,%
17592   level=2,%
17593   indent=\z@,%
17594   beforekip=-3.25ex \@plus -1ex \@minus -.2ex,%
17595   afterskip=1.5ex \@plus .2ex,%
17596   tocstyle=subsection,%
17597   tocindent=1.5em,%
17598   tocnumwidth=2.3em%
17599 ]{subsection}
17600 \DeclareSectionCommand[%
17601   style=section,%
17602   level=3,%
17603   indent=\z@,%
17604   beforekip=-3.25ex \@plus -1ex \@minus -.2ex,%
17605   afterskip=1.5ex \@plus .2ex,%
17606   tocstyle=subsection,%
17607   tocindent=3.8em,%
17608   tocnumwidth=3.2em%
17609 ]{subsubsection}
17610 \DeclareSectionCommand[%
17611   style=section,%
17612   level=4,%
17613   indent=\z@,%
17614   beforekip=3.25ex \@plus 1ex \@minus .2ex,%
17615   afterskip=-1em,%
17616   tocstyle=subsection,%
17617   tocindent=7.0em,%
17618   tocnumwidth=4.1em%

```





```

17619 ]{paragraph}
17620 \DeclareSectionCommand[%
17621   style=section,%
17622   level=5,%
17623   indent=\scr@parindent,%
17624   beforeskip=3.25ex \@plus1ex \@minus .2ex,%
17625   afterskip=-1em,%
17626   tocstyle=subsection,%
17627   tocindent=10em,%
17628   tocnumwidth=5em%
17629 ]{subparagraph}

```

## 106 File scrbook-xetex-bidi.def

```

17630 \ProvidesFile{scrbook-xetex-bidi.def}[2017/06/09 v1.1 bidi adaptations for scrbook class for
17631 \newcommand{\scr@saved@LTRfootnotetext}{}
17632 \newcommand{\scr@saved@RTLfootnotetext}{}
17633 \let\scr@saved@footnotetext\@footnotetext
17634 \let\scr@saved@LTRfootnotetext\@LTRfootnotetext
17635 \let\scr@saved@RTLfootnotetext\@RTLfootnotetext
17636 \renewcommand{\@footnotetext}[1]{%
17637   \scr@saved@footnotetext{#1}%
17638   \csname FN@mfb@prepare\endcsname
17639 }
17640 \renewcommand{\@LTRfootnotetext}[1]{%
17641   \scr@saved@LTRfootnotetext{#1}%
17642   \csname FN@mfb@prepare\endcsname
17643 }
17644 \renewcommand{\@RTLfootnotetext}[1]{%
17645   \scr@saved@RTLfootnotetext{#1}%
17646   \csname FN@mfb@prepare\endcsname
17647 }
17648 \renewcommand\deffootnote[4][1]{%
17649   \long\def\@makefnmark##1{%
17650     \setlength{\@tempdimc}{#3}%
17651     \def\@tempa{#1}\ifx\@tempa\@empty
17652       \setpar{\@par
17653         \@tempdima = \hsize
17654         \addtolength{\@tempdima}{-#2}%
17655         \if@RTL\parshape \@ne Opt \@tempdima\else\parshape \@ne #2 \@tempdima\fi}%
17656       \else
17657         \addtolength{\@tempdimc}{#2}%
17658         \addtolength{\@tempdimc}{-#1}%
17659         \setpar{\@par
17660           \@tempdima = \hsize
17661           \addtolength{\@tempdima}{-#1}%
17662           \@tempdimb = \hsize
17663           \addtolength{\@tempdimb}{-#2}%
17664           \if@RTL\parshape \tw@ Opt \@tempdima Opt \@tempdimb\else\parshape \tw@ #1 \@tempdima
17665           }%
17666         \fi
17667         \par
17668         \parindent\@tempdimc\noindent
17669         \ftn@font\hbox to \z@{\hss\@makefnmark}##1%

```



```

17670 }%
17671 \def\@@makefnmark{\hbox{\ftnm@font{#4}}}%
17672 }
17673 \deffootnote[1em]{1.5em}{1em}{\textsuperscript{\thefootnotemark}}
17674 \renewcommand*\left@footnoterule{%
17675   \normalsize\ftn@rule@test@values
17676   \kern-\dimexpr 2.6\p@+\ftn@rule@height\relax
17677   \ifx\@textbottom\relax\else\vskip \z@ \@plus.05fil\fi
17678   {\usekomafont{footnoterule}{%
17679     \hrule \@height\ftn@rule@height \@width\ftn@rule@width}}%
17680   \kern 2.6\p@}
17681 \renewcommand*\right@footnoterule{%
17682   \normalsize\ftn@rule@test@values
17683   \kern-\dimexpr 2.6\p@+\ftn@rule@height\relax
17684   \ifx\@textbottom\relax\else\vskip \z@ \@plus.05fil\fi
17685   {\usekomafont{footnoterule}{%
17686     \hbox to \columnwidth{\hskip \dimexpr\columnwidth-\ftn@rule@width\relax \leavevmode\l
17687     \kern 2.6\p@}
17688 \renewcommand*\maketitle[1][1]{%
17689   \if@titlepage
17690     \begin{titlepage}
17691       \setcounter{page}{%
17692         #1%
17693       }%
17694       \let\footnotesize\small
17695       \let\right@footnoterule\relax
17696       \let\left@footnoterule\relax
17697       \let\textwidth@footnoterule\relax
17698       \let\footnote\thanks
17699       \let\LTRfootnote\LTRthanks
17700       \let\RTLfootnote\RTLthanks
17701       \renewcommand*\thefootnote{\@fnsymbol\c@footnote}%
17702       \let\@oldmakefnmark\@makefnmark
17703       \renewcommand*{\@makefnmark}{\rlap{\@oldmakefnmark}}%
17704       \ifx\@extratitle\@empty \else
17705         \noindent\@extratitle\next@tpage\cleardoubleemptypage
17706         \thispagestyle{empty}%
17707       \fi
17708       \setparsizes{\z@}{\z@}{\z@ \@plus 1fil}\par@updaterelative
17709       \ifx\@titlehead\@empty \else
17710         \begin{minipage}[t]{\textwidth}%
17711           \@titlehead
17712         \end{minipage}\par
17713       \fi
17714       \null\vfill
17715       \begin{center}
17716         \ifx\@subject\@empty \else
17717           {\subject@font \@subject \par}%
17718           \vskip 3em
17719         \fi
17720         {\titlefont\huge \@title\par}%
17721         \vskip 1em
17722         {\ifx\@subtitle\@empty\else\usekomafont{subtitle}\@subtitle\par\fi}%
17723         \vskip 2em

```



```

17724      {\Large \lineskip 0.75em
17725        \begin{tabular}[t]{c}
17726          \@author
17727        \end{tabular}\par
17728      }%
17729      \vskip 1.5em
17730      {\Large \@date \par}%
17731      \vskip \z@ \@plus3fill
17732      {\Large \@publishers \par}%
17733      \vskip 3em
17734      \end{center}\par
17735      \@thanks
17736      \vfill\null
17737      \if@twoside\next@tpage
17738        \begin{minipage}[t]{\textwidth}
17739          \@uppertitleback
17740        \end{minipage}\par
17741        \vfill
17742        \begin{minipage}[b]{\textwidth}
17743          \@lowertitleback
17744        \end{minipage}
17745      \fi
17746      \ifx\@dedication\@empty \else
17747        \next@tpage\null\vfill
17748        {\centering \Large \@dedication \par}%
17749        \vskip \z@ \@plus3fill
17750        \if@twoside \next@tpage\cleardoubleemptypage \fi
17751      \fi
17752      \end{titlepage}
17753    \else
17754      \par
17755      \@tempcnta=%
17756      #1%
17757      \relax\ifnum\@tempcnta=1\else
17758        \ClassWarning{\KOMAClassName}{%
17759          Optional argument of \string\maketitle\space ignored
17760          at\MessageBreak
17761          notitlepage-mode%
17762        }%
17763      \fi
17764      \begingroup
17765        \renewcommand*\thefootnote{\@fnsymbol\c@footnote}%
17766        \let\@oldmakefnmark\@makefnmark
17767        \renewcommand*{\@makefnmark}{\rlap{\@oldmakefnmark}}
17768        \if@twocolumn
17769          \ifnum \col@number=\@one
17770            \@maketitle
17771          \else
17772            \twocolumn[\@maketitle]%
17773          \fi
17774        \else
17775          \newpage
17776          \global\@topnum\z@
17777          \@maketitle

```



```

17778 \fi
17779 \thispagestyle{\titlepagestyle}\@thanks
17780 \endgroup
17781 \fi
17782 \setcounter{footnote}{0}%
17783 \let\thanks\relax
17784 \let\LTRthanks\relax
17785 \let\RTLthanks\relax
17786 \let\maketitle\relax
17787 \let\@maketitle\relax
17788 \global\let\@thanks\@empty
17789 \global\let\@author\@empty
17790 \global\let\@date\@empty
17791 \global\let\@title\@empty
17792 \global\let\@subtitle\@empty
17793 \global\let\@extratitle\@empty
17794 \global\let\@titlehead\@empty
17795 \global\let\@subject\@empty
17796 \global\let\@publishers\@empty
17797 \global\let\@uppertitleback\@empty
17798 \global\let\@lowertitleback\@empty
17799 \global\let\@dedication\@empty
17800 \global\let\author\relax
17801 \global\let\title\relax
17802 \global\let\extratitle\relax
17803 \global\let\titlehead\relax
17804 \global\let\subject\relax
17805 \global\let\publishers\relax
17806 \global\let\uppertitleback\relax
17807 \global\let\lowertitleback\relax
17808 \global\let\dedication\relax
17809 \global\let\date\relax
17810 \global\let\and\relax
17811 }%
17812 \renewcommand*{\@maketitle}{%
17813 \clearpage
17814 \let\footnote\thanks
17815 \let\LTRfootnote\LTRthanks
17816 \let\RTLfootnote\RTLthanks
17817 \ifx\@extratitle\@empty \else
17818 \noindent\@extratitle \next@tpage \if@twoside \null\next@tpage \fi
17819 \fi
17820 \setparsizes{\z@}{\z@}{\z@\@plus 1fil}\par@updaterelative
17821 \ifx\@titlehead\@empty \else
17822 \begin{minipage}[t]{\textwidth}
17823 \@titlehead
17824 \end{minipage}\par
17825 \fi
17826 \null
17827 \vskip 2em%
17828 \begin{center}%
17829 \ifx\@subject\@empty \else
17830 {\subject@font \@subject \par}
17831 \vskip 1.5em

```



```

17832 \fi
17833 {\titlefont\huge \@title \par}%
17834 \vskip .5em
17835 {\ifx\@subtitle\@empty\else\usekomafont{subtitle}\@subtitle\par\fi}%
17836 \vskip 1em
17837 {\Large
17838 \lineskip .5em%
17839 \begin{tabular}[t]{c}
17840 \@author
17841 \end{tabular}\par
17842 }%
17843 \vskip 1em%
17844 {\Large \@date \par}%
17845 \vskip \z@ \@plus 1em
17846 {\Large \@publishers \par}
17847 {\ifx\@dedication\@empty \else
17848 \vskip 2em
17849 {\Large \@dedication \par}
17850 \fi
17851 \end{center}}%
17852 \par
17853 \vskip 2em
17854 }%
17855 \def\raggedsection{\if@RTL\raggedleft\else\raggedright\fi}
17856 \renewcommand*\autodot{\if@altsecnumformat\@SepMark\fi}
17857 \renewcommand*\thesection{%
17858 \ifnum \scr@compatibility>\@nameuse{scr@v@2.97d}\relax
17859 \if@mainmatter\thechapter\@SepMark\fi
17860 \else
17861 \thechapter\@SepMark%
17862 \fi
17863 \@arabic\c@section
17864 }
17865 \renewcommand*{\thesubsection}{\thesection\@SepMark\@arabic\c@subsection}
17866 \renewcommand*{\thesubsubsection}{%
17867 \thesubsection\@SepMark\@arabic\c@subsubsection
17868 }
17869 \renewcommand*{\theparagraph}{\thesubsubsection\@SepMark\@arabic\c@paragraph}
17870 \renewcommand*{\thesubparagraph}{%
17871 \theparagraph\@SepMark\@arabic\c@subparagraph
17872 }
17873 \renewcommand*\thefigure{%
17874 \ifnum \scr@compatibility>\@nameuse{scr@v@2.97d}\relax
17875 \if@mainmatter\thechapter\@SepMark\fi
17876 \else
17877 \thechapter\@SepMark%
17878 \fi
17879 \@arabic\c@figure
17880 }
17881 \renewcommand*\thetable{%
17882 \ifnum \scr@compatibility>\@nameuse{scr@v@2.97d}\relax
17883 \if@mainmatter\thechapter\@SepMark\fi
17884 \else
17885 \thechapter\@SepMark%

```



```

17886 \fi
17887 \@arabic\c@table
17888 }
17889 \renewcommand*\theequation{%
17890 \ifnum \scr@compatibility>\@nameuse{scr@v@2.97d}\relax
17891 \if@mainmatter\thechapter\@SepMark\fi
17892 \else
17893 \thechapter\@SepMark%
17894 \fi
17895 \@arabic\c@equation
17896 }
17897 \renewenvironment{thebibliography}[1]{%
17898 \if@bib@break@
17899 \bib@beginhook
17900 \else
17901 \ifx\bibpreamble\relax\else\ifx\bibpreamble\@empty\else
17902 \setchapterpreamble{\bibpreamble}%
17903 \fi\fi
17904 \bib@heading
17905 \bib@beginhook
17906 \bib@before@hook
17907 \fi
17908 \renewcommand{\BreakBibliography}[1]{%
17909 \@bib@break
17910 \end{thebibliography}%
17911 \begingroup ##1\endgroup
17912 \begin{thebibliography}{#1}
17913 }%
17914 \if@RTL\if@LTRbibitems\@RTLfalse\else\fi\else\if@RTLbibitems\@RTLtrue\else\fi\fi
17915 \bidi@thebibliography@font@hook%
17916 \list{%
17917 \@biblabel{\@arabic\c@enumiv}%
17918 }{%
17919 \settowidth\labelwidth{\@biblabel{#1}}%
17920 \leftmargin\labelwidth
17921 \advance\leftmargin\labelsep
17922 \@openbib@code
17923 \if@bib@break@
17924 \edef\@tempa{%
17925 \noexpand\usecounter{enumiv}%
17926 \noexpand\setcounter{enumiv}{\the\c@enumiv}%
17927 }\@tempa
17928 \no@bib@break
17929 \else
17930 \usecounter{enumiv}%
17931 \fi
17932 \let\p@enumiv\@empty
17933 \renewcommand*\theenumiv{\@arabic\c@enumiv}%
17934 }%
17935 \sloppy\clubpenalty4000 \widowpenalty4000
17936 \sfcode`\.=\@m
17937 }{%
17938 \if@bib@break@
17939 \def\@noitemerr{%

```



```

17940     \@latex@warning{%
17941         \string\BreakBibliography\space at begin of `thebibliography'
17942     environment\MessageBreak
17943     or following \string\BreakBibliography}%
17944     }%
17945 \else
17946     \def\@noitemerr{%
17947         \@latex@warning{%
17948             Empty `thebibliography' environment or
17949             \string\BreakBibliography\MessageBreak
17950             before end of `thebibliography' environment}%
17951     }%
17952 \fi
17953 \endlist
17954 \if@bib@break@
17955 \else
17956     \bib@after@hook
17957     \let\bib@before@hook\@empty
17958     \let\bib@after@hook\@empty
17959 \fi
17960 \bib@endhook
17961 }
17962 \renewcommand*\left@footnoterule{%
17963     \kern-3\p@
17964     \ifx\@textbottom\relax\else\vskip \z@ \@plus.05fil\fi
17965     \hrule\@width.4\columnwidth
17966     \kern 2.6\p@}
17967 \renewcommand*\right@footnoterule{%
17968     \kern-3\p@
17969     \ifx\@textbottom\relax\else\vskip \z@ \@plus.05fil\fi
17970     \hbox to \columnwidth{\hskip .6\columnwidth \hrulefill }
17971     \kern2.6\p@}
17972 \renewcommand*{\raggeddictum}{\if@RTL\raggedright\else\raggedleft\fi}
17973 \renewcommand*{\raggeddictumtext}{\if@RTL\raggedleft\else\raggedright\fi}
17974 \renewcommand*{\raggeddictumauthor}{\if@RTL\raggedright\else\raggedleft\fi}
17975 \renewcommand\marginline[1]{%
17976     \marginpar[\if@RTL\raggedright\else\raggedleft\fi{#1}]{\if@RTL\raggedleft\else\raggedright\fi{#1}}
17977 }
17978 \renewcommand{\@makecaption}[3]{%
17979     \cap@margin
17980     \ifonelinecaptions
17981         \@tempcnta=\value{mpfootnote}\@tempcntb=\value{footnote}%
17982         \let\scr@tmp@footnotetext=\@footnotetext
17983         \let\@footnotetext=\@gobble
17984         \let\scr@tmp@LTRfootnotetext=\@LTRfootnotetext
17985         \let\@LTRfootnotetext=\@gobble
17986         \let\scr@tmp@RTLfootnotetext=\@RTLfootnotetext
17987         \let\@RTLfootnotetext=\@gobble
17988         \sbox\@tempboxa{%
17989             {\capfont{\strut\ignorespaces
17990                 #1{\caplabelfont{#2\captionformat}}}%
17991                 #3\unskip\strut}}%
17992     }%
17993     \let\@footnotetext=\scr@tmp@footnotetext

```



```

17994 \let\scr@tmp@footnotetext=\undefined
17995 \let\@LTRfootnotetext=\scr@tmp@LTRfootnotetext
17996 \let\scr@tmp@LTRfootnotetext=\undefined
17997 \let\@RTLfootnotetext=\scr@tmp@RTLfootnotetext
17998 \let\scr@tmp@RTLfootnotetext=\undefined
17999 \setcounter{footnote}{\@tempcntb}%
18000 \setcounter{mpfootnote}{\@tempcnta}%
18001 \else
18002 \sbox\@tempboxa{\hspace*{2\cap@width}}%
18003 \fi
18004 \beginingroup%
18005 \setlength{\@tempdima}{\cap@width}%
18006 \ifdim \wd\@tempboxa >\@tempdima
18007 \hb@xt@\hsize{%
18008 \setbox\@tempboxa\vbox{\hsize=\cap@width
18009 \ifdoofullc@p
18010 {\capfont{\@hangfrom{\scr@smashdp{\strut\ignorespaces
18011 #1{\caplabelfont{#2\captionformat}}}}}%
18012 {#3\unskip\strut\par}}}%
18013 \else%
18014 \ifdim\cap@indent<\z@
18015 {\capfont{\strut\ignorespaces
18016 #1{\caplabelfont{#2\captionformat\par}}}%
18017 \noindent\hspace*{-\cap@indent}#3\unskip\strut\par}}%
18018 \else%
18019 \if@capbreak
18020 {\capfont{\strut\ignorespaces
18021 #1{\caplabelfont{#2\captionformat\par}}}%
18022 \noindent\@hangfrom{\hspace*{\cap@indent}}{#3\par}}}%
18023 \else
18024 {\capfont{\@hangfrom{\scr@smashdp{\strut\hspace*{\cap@indent}}%
18025 {\hspace*{-\cap@indent}\scr@smashdp{\ignorespaces#1%
18026 {\caplabelfont{#2\captionformat}}}}#3\unskip\strut\par}}}%
18027 \fi
18028 \fi
18029 \fi
18030 }%
18031 \setlength{\@tempdima}{\ht\@tempboxa}%
18032 \addtolength{\@tempdima}{\dp\@tempboxa}%
18033 \addtolength{\@tempdima}{-\ht\strutbox}%
18034 \ht\@tempboxa\ht\strutbox
18035 \dp\@tempboxa\@tempdima
18036 \strut\cap@left
18037 \box\@tempboxa
18038 \cap@right\strut
18039 }%
18040 \else
18041 \global \@minipagefalse
18042 \sbox\@tempboxa{%
18043 {\capfont{\scr@smashdp{\strut\ignorespaces
18044 #1{\caplabelfont{#2\captionformat}}}}}%
18045 #3}%
18046 }%
18047 {\capfont{\hb@xt@\hsize{\strut\cap@left\if@RTL\beginR\fi\box\@tempboxa\if@RTL\endR\fi\

```





```

18048     \fi
18049   \endgroup
18050 }
18051 \renewcommand{\@makecaption}[2]{%
18052   \if@captionabove
18053     \vskip\belowcaptionskip
18054   \else
18055     \vskip\abovecaptionskip
18056   \fi
18057   \@makecaption\@firstofone{#1}{#2}%
18058   \if@captionabove
18059     \vskip\abovecaptionskip
18060   \else
18061     \vskip\belowcaptionskip
18062   \fi
18063 }
18064 \bidi@AfterFile{longtable-xetex-bidi.def}{%
18065   \ifpackageloaded{caption2}{\@komalongtablefalse
18066     \scr@caption@before@longtable@warning{caption2}%
18067   }{}%
18068   \if@komalongtable
18069     \renewcommand{\LT@makecaption}[3]{%
18070       \noalign{%
18071         \if@captionabove
18072           \vskip\belowcaptionskip
18073         \else
18074           \vskip\abovecaptionskip
18075         \fi
18076       }%
18077       \LT@mcol\LT@cols c{%
18078         \hbox to\z@{\hss\parbox[t]{\linewidth{%
18079           \@makecaption{#1}{#2}{#3}%
18080         }}
18081         \endgraf
18082         \if@captionabove
18083           \vskip\abovecaptionskip
18084         \else
18085           \vskip\belowcaptionskip
18086         \fi
18087       }%
18088       \hss
18089     }%
18090   }%
18091   \renewcommand*\{\scr@LT@array}{}%
18092   \let\scr@LT@array=\LT@array
18093   \renewcommand*\{\LT@array}{%
18094     \let\scr@caption=\LT@caption
18095     \def\captionabove{\noalign{\global\@captionabovetrue}%
18096       \scr@caption}%
18097     \def\captionbelow{\noalign{\global\@captionabovetrue}%
18098       \scr@caption}%
18099     \if@tablecaptionabove
18100       \let\LT@caption=\captionabove
18101     \else

```



```

18102         \let\LT@caption=\captionbelow
18103         \fi
18104         \scr@LT@array
18105     }%
18106     \ClassInfo{\KOMAClassName}{%
18107         longtable captions redefined%
18108     }%
18109 \fi
18110 }
18111
18112 \CloneTOCEntryStyle{tocline}{part}
18113 \TOCEntryStyleStartInitCode{part}{%
18114     \expandafter\renewcommand%
18115     \csname scr@tso@#1@linefill\endcsname{\hfill}%
18116     \expandafter\renewcommand%
18117     \csname scr@tso@#1@entryformat\endcsname[1]{\usekomafont{partentry}{##1}}%
18118     \expandafter\renewcommand%
18119     \csname scr@tso@#1@pagenumberformat\endcsname[1]{%
18120         \usekomafont{partentry}{\usekomafont{partentrypagenumber}{##1}}}%
18121     \expandafter\renewcommand\expandafter*%
18122     \csname scr@tso@#1@beforeskip\endcsname{2.25em \@plus\p@}%
18123 }
18124
18125 \CloneTOCEntryStyle{tocline}{chapter}
18126 \TOCEntryStyleStartInitCode{chapter}{%
18127     \expandafter\renewcommand%
18128     \csname scr@tso@#1@linefill\endcsname{%
18129         \if@chapterentrywithdots
18130             \TOCLineLeaderFill\relax
18131         \else
18132             \hfill
18133         \fi
18134     }%
18135     \expandafter\renewcommand%
18136     \csname scr@tso@#1@entryformat\endcsname{\usekomafont{chapterentry}}%
18137     \expandafter\renewcommand%
18138     \csname scr@tso@#1@pagenumberformat\endcsname[1]{%
18139         \usekomafont{chapterentry}{\usekomafont{chapterentrypagenumber}{##1}}}%
18140     \expandafter\renewcommand\expandafter*%
18141     \csname scr@tso@#1@beforeskip\endcsname{1.0em \@plus\p@}%
18142 }
18143
18144 \CloneTOCEntryStyle{tocline}{section}
18145 \TOCEntryStyleStartInitCode{section}{%
18146     \expandafter\renewcommand%
18147     \csname scr@tso@#1@linefill\endcsname{\TOCLineLeaderFill\relax}%
18148 }
18149
18150 \CloneTOCEntryStyle{section}{default}
18151
18152 \DeclareSectionCommand[%
18153     style=part,%
18154     level=\m@ne,%
18155     pagestyle=plain,%

```



```

18156 tocstyle=part,%
18157 toplevel=m@ne,%
18158 tocindent=z@,%
18159 tocnumwidth=2em%
18160 ]{part}
18161 \DeclareSectionCommand[%
18162 style=chapter,%
18163 level=z@,%
18164 pagestyle=plain,%
18165 tocstyle=chapter,%
18166 tocindent=z@,%
18167 tocnumwidth=1.5em%
18168 ]{chapter}
18169 \DeclareSectionCommand[%
18170 style=section,%
18171 level=1,%
18172 indent=z@,%
18173 beforekip=-3.5ex \@plus -1ex \@minus -.2ex,%
18174 afterskip=2.3ex \@plus .2ex,%
18175 tocstyle=section,%
18176 tocindent=1.5em,%
18177 tocnumwidth=2.3em%
18178 ]{section}
18179 \DeclareSectionCommand[%
18180 style=section,%
18181 level=2,%
18182 indent=z@,%
18183 beforekip=-3.25ex \@plus -1ex \@minus -.2ex,%
18184 afterskip=1.5ex \@plus .2ex,%
18185 tocstyle=section,%
18186 tocindent=3.8em,%
18187 tocnumwidth=3.2em%
18188 ]{subsection}
18189 \DeclareSectionCommand[%
18190 style=section,%
18191 level=3,%
18192 indent=z@,%
18193 beforekip=-3.25ex \@plus -1ex \@minus -.2ex,%
18194 afterskip=1.5ex \@plus .2ex,%
18195 tocstyle=section,%
18196 tocindent=7.0em,%
18197 tocnumwidth=4.1em%
18198 ]{subsubsection}
18199 \DeclareSectionCommand[%
18200 style=section,%
18201 level=4,%
18202 indent=z@,%
18203 beforekip=3.25ex \@plus 1ex \@minus .2ex,%
18204 afterskip=-1em,%
18205 tocstyle=section,%
18206 tocindent=10em,%
18207 tocnumwidth=5em%
18208 ]{paragraph}
18209 \DeclareSectionCommand[%

```



```

18210 style=section,%
18211 level=5,%
18212 indent=\scr@parindent,%
18213 beforeskip=3.25ex \@plus1ex \@minus .2ex,%
18214 afterskip=-1em,%
18215 tocstyle=section,%
18216 tocindent=12em,%
18217 tocnumwidth=6em%
18218 ]{subparagraph}
18219
18220

```

## 107 File scrlettr-xetex-bidi.def

```

18221 \ProvidesFile{scrlettr-xetex-bidi.def}[2015/11/14 v0.3 bidi adaptations for scrlettr class f
18222 \renewcommand\deffootnote[4][]{%
18223   \long\def\@makefnmark##1{%
18224     \edef\@tempa{#1}\ifx\@tempa\@empty
18225       \setpar{\@par
18226         \@tempdima = \hsize
18227         \addtolength{\@tempdima}{-#2}
18228         \ifRTL\parshape \@ne Opt \@tempdima\else\parshape \@ne #2 \@tempdima\fi}%
18229       \else
18230         \setpar{\@par
18231           \@tempdima = \hsize
18232           \addtolength{\@tempdima}{-#1}
18233           \@tempdimb = \hsize
18234           \addtolength{\@tempdimb}{-#2}
18235           \ifRTL\parshape \tw@ Opt \@tempdima Opt \@tempdimb\else\parshape \tw@ #1 \@tempdima
18236         \fi
18237         \par
18238         \parindent #3\noindent
18239         \hbox to \z@{\hss\@makefnmark}##1}
18240     \def\@makefnmark{\hbox{#4}}
18241   }
18242 \deffootnote[1em]{1.5em}{1em}
18243 {\textsuperscript{\thefootnotemark}}
18244 \def\left@footnoterule{\kern-1\p@
18245   \hrule width 0.4\columnwidth
18246   \kern .6\p@}
18247 \def\right@footnoterule{%
18248   \kern-1\p@
18249   \hbox to \columnwidth{\hskip .6\columnwidth \hrulefill }
18250   \kern .6\p@}
18251 \def\@datefield{\@reffalse
18252   \ifx\varyourref\@empty \else \@reftrue \fi
18253   \ifx\varyourmail\@empty \else \@reftrue \fi
18254   \ifx\varmyref\@empty \else \@reftrue \fi
18255   \ifx\varcustomer\@empty \else \@reftrue \fi
18256   \ifx\varinvoice\@empty \else \@reftrue \fi
18257   \ifx\varrefitemi\@empty \else \@reftrue \fi
18258   \ifx\varrefitemii\@empty \else \@reftrue \fi
18259   \ifx\varrefitemiii\@empty \else \@reftrue \fi
18260   \vskip -\parskip

```



```

18261 \vskip \refvskip
18262 \if@ref
18263 \ifx\varyourref\@empty \else
18264 \settowidth{\sc@temp}{\varyourref}
18265 \setbox0\hbox{\scriptsize \sf \yourrefname}
18266 \ifdim \sc@temp > \wd0 \sc@@temp\sc@temp \else \sc@@temp\wd0 \fi
18267 \parbox[t]{\sc@@temp}{\noindent \box0\par \varyourref}\hfill
18268 \fi
18269 \ifx\varyourmail\@empty \else
18270 \settowidth{\sc@temp}{\varyourmail}
18271 \setbox0\hbox{\scriptsize \sf \yourmailname}
18272 \ifdim \sc@temp > \wd0 \sc@@temp\sc@temp \else \sc@@temp\wd0 \fi
18273 \parbox[t]{\sc@@temp}{\noindent \box0\par \varyourmail}\hfill
18274 \fi
18275 \ifx\varmyref\@empty \else
18276 \settowidth{\sc@temp}{\varmyref}
18277 \setbox0\hbox{\scriptsize \sf \myrefname}
18278 \ifdim \sc@temp > \wd0 \sc@@temp\sc@temp \else \sc@@temp\wd0 \fi
18279 \parbox[t]{\sc@@temp}{\noindent \box0\par \varmyref}\hfill
18280 \fi
18281 \ifx\varcustomer\@empty \else
18282 \settowidth{\sc@temp}{\varcustomer}
18283 \setbox0\hbox{\scriptsize \sf \customername}
18284 \ifdim \sc@temp > \wd0 \sc@@temp\sc@temp \else \sc@@temp\wd0 \fi
18285 \parbox[t]{\sc@@temp}{\noindent \box0\par \varcustomer}\hfill
18286 \fi
18287 \ifx\varinvoice\@empty \else
18288 \settowidth{\sc@temp}{\varinvoice}
18289 \setbox0\hbox{\scriptsize \sf \invoicename}
18290 \ifdim \sc@temp > \wd0 \sc@@temp\sc@temp \else \sc@@temp\wd0 \fi
18291 \parbox[t]{\sc@@temp}{\noindent \box0\par \varinvoice}\hfill
18292 \fi
18293 \ifx\varrefitemi\@empty \else
18294 \settowidth{\sc@temp}{\varrefitemi}
18295 \setbox0\hbox{\scriptsize \sf \varrefitemnamei}
18296 \ifdim \sc@temp > \wd0 \sc@@temp\sc@temp \else \sc@@temp\wd0 \fi
18297 \parbox[t]{\sc@@temp}{\noindent \box0\par \varrefitemi}\hfill
18298 \fi
18299 \ifx\varrefitemii\@empty \else
18300 \settowidth{\sc@temp}{\varrefitemii}
18301 \setbox0\hbox{\scriptsize \sf \varrefitemnameii}
18302 \ifdim \sc@temp > \wd0 \sc@@temp\sc@temp \else \sc@@temp\wd0 \fi
18303 \parbox[t]{\sc@@temp}{\noindent \box0\par \varrefitemii}\hfill
18304 \fi
18305 \ifx\varrefitemiii\@empty \else
18306 \settowidth{\sc@temp}{\varrefitemiii}
18307 \setbox0\hbox{\scriptsize \sf \varrefitemnameiii}
18308 \ifdim \sc@temp > \wd0 \sc@@temp\sc@temp \else \sc@@temp\wd0 \fi
18309 \parbox[t]{\sc@@temp}{\noindent \box0\par \varrefitemiii}\hfill
18310 \fi
18311 \ifx\@date\@empty \else
18312 \settowidth{\sc@temp}{\@date}
18313 \setbox0\hbox{\scriptsize \sf \datename}
18314 \ifdim \sc@temp > \wd0 \sc@@temp\sc@temp \else \sc@@temp\wd0 \fi

```



```

18315 \parbox[t]{\sc@temp}{\noindent \box0\par \@date}
18316 \fi
18317 \par
18318 \vspace{2.5\baselineskip}
18319 \else
18320 {\ifx\@date\empty \else \if@RTL\raggedright\else\raggedleft\fi\fromplace\ \@date\par \fi}
18321 \vspace{1.5\baselineskip}
18322 \fi}
18323 \long\def\closing#1{\par\nobreak\vspace{0.5\baselineskip}
18324 \stopbreaks \noindent \sc@temp\textwidth \advance\sc@temp by
18325 -\sigindent \hspace{\sigindent}%
18326 \parbox{\sc@temp}{\if@RTL\raggedleft\else\raggedright\fi\ignorespaces #1\mbox{}\ll[\presig@
18327 \fromsig\strut}\par
18328 \vspace{1.5\baselineskip}}

```

## 108 File scrreprt-xetex-bidi.def

```

18329 \ProvidesFile{scrreprt-xetex-bidi.def}[2017/06/09 v1.1 bidi adaptations for scrreprt class f
18330 \newcommand{\scr@saved@LTRfootnotetext}{}
18331 \newcommand{\scr@saved@RTLfootnotetext}{}
18332 \let\scr@saved@footnotetext\@footnotetext
18333 \let\scr@saved@LTRfootnotetext\@LTRfootnotetext
18334 \let\scr@saved@RTLfootnotetext\@RTLfootnotetext
18335 \renewcommand{\@footnotetext}[1]{%
18336 \scr@saved@footnotetext{#1}%
18337 \csname FN@mfp@prepare\endcsname
18338 }
18339 \renewcommand{\@LTRfootnotetext}[1]{%
18340 \scr@saved@LTRfootnotetext{#1}%
18341 \csname FN@mfp@prepare\endcsname
18342 }
18343 \renewcommand{\@RTLfootnotetext}[1]{%
18344 \scr@saved@RTLfootnotetext{#1}%
18345 \csname FN@mfp@prepare\endcsname
18346 }
18347 \renewcommand\deffootnote[4][1]{%
18348 \long\def\@makefn#1{%
18349 \setlength{\@tempdimc}{#3}%
18350 \def\@tempa{#1}\ifx\@tempa\@empty
18351 \setpar{\@par
18352 \@tempdima = \hsize
18353 \addtolength{\@tempdima}{-#2}%
18354 \if@RTL\parshape \@ne Opt \@tempdima\else\parshape \@ne #2 \@tempdima\fi}%
18355 \else
18356 \addtolength{\@tempdimc}{#2}%
18357 \addtolength{\@tempdimc}{-#1}%
18358 \setpar{\@par
18359 \@tempdima = \hsize
18360 \addtolength{\@tempdima}{-#1}%
18361 \@tempdimb = \hsize
18362 \addtolength{\@tempdimb}{-#2}%
18363 \if@RTL\parshape \tw@ Opt \@tempdima Opt \@tempdimb\else\parshape \tw@ #1 \@tempdima
18364 }%
18365 \fi

```



```

18366 \par
18367 \parindent\@tempdimc\noindent
18368 \ftn@font\hbox to \z@\{\hss\@makefnmark\}##1%
18369 }%
18370 \def\@makefnmark{\hbox{\ftnm@font{#4}}}%
18371 }
18372 \deffootnote[1em]{1.5em}{1em}{\textsuperscript{\thefootnotemark}}
18373 \renewcommand*\left@footnoterule{%
18374 \normalsize\ftn@rule@test@values
18375 \kern-\dimexpr 2.6\p@+\ftn@rule@height\relax
18376 \ifx\@textbottom\relax\else\vskip \z@ \@plus.05fil\fi
18377 {\usekomafont{footnoterule}{%
18378 \hrule \@height\ftn@rule@height \@width\ftn@rule@width}}%
18379 \kern 2.6\p@}
18380 \renewcommand*\right@footnoterule{%
18381 \normalsize\ftn@rule@test@values
18382 \kern-\dimexpr 2.6\p@+\ftn@rule@height\relax
18383 \ifx\@textbottom\relax\else\vskip \z@ \@plus.05fil\fi
18384 {\usekomafont{footnoterule}{%
18385 \hbox to \columnwidth{\hskip \dimexpr\columnwidth-\ftn@rule@width\relax \leavevmode\l
18386 \kern 2.6\p@}
18387 \renewcommand*\maketitle[1][1]{%
18388 \if@titlepage
18389 \begin{titlepage}
18390 \setcounter{page}{%
18391 #1%
18392 }%
18393 \let\footnotesize\small
18394 \let\right@footnoterule\relax
18395 \let\left@footnoterule\relax
18396 \let\textwidth\footnoterule\relax
18397 \let\footnote\thanks
18398 \let\LTRfootnote\LTRthanks
18399 \let\RTLfootnote\RTLthanks
18400 \renewcommand*\thefootnote{\@fnsymbol\c@footnote}%
18401 \let\@oldmakefnmark\@makefnmark
18402 \renewcommand*{\@makefnmark}{\rlap\@oldmakefnmark}%
18403 \ifx\@extratitle\@empty \else
18404 \noindent\@extratitle\next@tpage\cleardoubleemptypage
18405 \thispagestyle{empty}%
18406 \fi
18407 \setparsizes{\z@}{\z@}{\z@\@plus 1fil}\par@updaterelative
18408 \ifx\@titlehead\@empty \else
18409 \begin{minipage}[t]{\textwidth}%
18410 \@titlehead
18411 \end{minipage}\par
18412 \fi
18413 \null\vfill
18414 \begin{center}
18415 \ifx\@subject\@empty \else
18416 {\subject@font \@subject \par}%
18417 \vskip 3em
18418 \fi
18419 {\titlefont\huge \@title\par}%

```



```

18420      \vskip 1em
18421      {\ifx\@subtitle\@empty\else\usekomafont{subtitle}\@subtitle\par\fi}%
18422      \vskip 2em
18423      {\Large \lineskip 0.75em
18424      \begin{tabular}[t]{c}
18425      \@author
18426      \end{tabular}\par
18427      }%
18428      \vskip 1.5em
18429      {\Large \@date \par}%
18430      \vskip \z@ \@plus3fill
18431      {\Large \@publishers \par}%
18432      \vskip 3em
18433      \end{center}\par
18434      \@thanks
18435      \vfill\null
18436      \if@twoside\next@tpage
18437      \begin{minipage}[t]{\textwidth}
18438      \@uppertitleback
18439      \end{minipage}\par
18440      \vfill
18441      \begin{minipage}[b]{\textwidth}
18442      \@lowertitleback
18443      \end{minipage}
18444      \fi
18445      \ifx\@dedication\@empty \else
18446      \next@tpage\null\vfill
18447      {\centering \Large \@dedication \par}%
18448      \vskip \z@ \@plus3fill
18449      \if@twoside \next@tpage\cleardoubleemptypage \fi
18450      \fi
18451      \end{titlepage}
18452      \else
18453      \par
18454      \@tempcnta=%
18455      #1%
18456      \relax\ifnum\@tempcnta=1\else
18457      \ClassWarning{\KOMAClassName}{%
18458      Optional argument of \string\maketitle\space ignored
18459      at\MessageBreak
18460      notitlepage-mode%
18461      }%
18462      \fi
18463      \begin{group}
18464      \renewcommand*\thefootnote{\@fnsymbol\c@footnote}%
18465      \let\@oldmakefnmark\@makefnmark
18466      \renewcommand*\@makefnmark{\rlap\@oldmakefnmark}
18467      \if@twocolumn
18468      \ifnum \col@number=\@one
18469      \@maketitle
18470      \else
18471      \twocolumn[\@maketitle]%
18472      \fi
18473      \else

```





```

18474         \newpage
18475         \global\@topnum\z@
18476         \@maketitle
18477         \fi
18478         \thispagestyle{\titlepagestyle}\@thanks
18479     \endgroup
18480 \fi
18481 \setcounter{footnote}{0}%
18482 \let\thanks\relax
18483 \let\LTRthanks\relax
18484 \let\RTLthanks\relax
18485 \let\maketitle\relax
18486 \let\@maketitle\relax
18487 \global\let\@thanks\@empty
18488 \global\let\@author\@empty
18489 \global\let\@date\@empty
18490 \global\let\@title\@empty
18491 \global\let\@subtitle\@empty
18492 \global\let\@extratitle\@empty
18493 \global\let\@titlehead\@empty
18494 \global\let\@subject\@empty
18495 \global\let\@publishers\@empty
18496 \global\let\@uppertitleback\@empty
18497 \global\let\@lowertitleback\@empty
18498 \global\let\@dedication\@empty
18499 \global\let\author\relax
18500 \global\let\title\relax
18501 \global\let\extratitle\relax
18502 \global\let\titlehead\relax
18503 \global\let\subject\relax
18504 \global\let\publishers\relax
18505 \global\let\uppertitleback\relax
18506 \global\let\lowertitleback\relax
18507 \global\let\dedication\relax
18508 \global\let\date\relax
18509 \global\let\and\relax
18510 }%
18511 \renewcommand*{\@maketitle}{%
18512     \clearpage
18513     \let\footnote\thanks
18514     \let\LTRfootnote\LTRthanks
18515     \let\RTLfootnote\RTLthanks
18516     \ifx\@extratitle\@empty \else
18517         \noindent\@extratitle \next@tpage \if@twoside \null\next@tpage \fi
18518     \fi
18519     \setparsizes{\z@}{\z@}{\z@\@plus 1fil}\par@updaterelative
18520     \ifx\@titlehead\@empty \else
18521         \begin{minipage}[t]{\textwidth}
18522             \@titlehead
18523         \end{minipage}\par
18524     \fi
18525     \null
18526     \vskip 2em%
18527     \begin{center}%

```



```

18528 \ifx\@subject\@empty \else
18529 {\subject@font \@subject \par}
18530 \vskip 1.5em
18531 \fi
18532 {\titlefont\huge \@title \par}%
18533 \vskip .5em
18534 {\ifx\@subtitle\@empty\else\usekomafont{subtitle}\@subtitle\par\fi}%
18535 \vskip 1em
18536 {\Large
18537 \lineskip .5em%
18538 \begin{tabular}[t]{c}
18539 \@author
18540 \end{tabular}\par
18541 }%
18542 \vskip 1em%
18543 {\Large \@date \par}%
18544 \vskip \z@ \@plus 1em
18545 {\Large \@publishers \par}
18546 \ifx\@dedication\@empty \else
18547 \vskip 2em
18548 {\Large \@dedication \par}
18549 \fi
18550 \end{center}%
18551 \par
18552 \vskip 2em
18553 }%
18554 \def\raggedsection{\if@RTL\raggedleft\else\raggedright\fi}
18555 \renewcommand*\autodot{\if@altsecnumformat\@SepMark\fi}
18556 \renewcommand*\thesection{%
18557 \thechapter\@SepMark%
18558 \@arabic\c@section
18559 }
18560 \renewcommand*\thesubsection{\thesection\@SepMark\@arabic\c@subsection}
18561 \renewcommand*\thesubsubsection{%
18562 \thesubsection\@SepMark\@arabic\c@subsubsection
18563 }
18564 \renewcommand*\theparagraph{\thesubsubsection\@SepMark\@arabic\c@paragraph}
18565 \renewcommand*\thesubparagraph{%
18566 \theparagraph\@SepMark\@arabic\c@subparagraph
18567 }
18568 \renewcommand*\thefigure{%
18569 \thechapter\@SepMark%
18570 \@arabic\c@figure
18571 }
18572 \renewcommand*\thetable{%
18573 \thechapter\@SepMark%
18574 \@arabic\c@table
18575 }
18576 \renewcommand*\theequation{%
18577 \thechapter\@SepMark%
18578 \@arabic\c@equation
18579 }
18580 \renewenvironment{thebibliography}[1]{%
18581 \if@bib@break@

```



```

18582 \bib@beginhook
18583 \else
18584 \ifx\bibpreamble\relax\else\ifx\bibpreamble\@empty\else
18585 \setchapterpreamble{\bibpreamble}%
18586 \fi\fi
18587 \bib@heading
18588 \bib@beginhook
18589 \bib@before@hook
18590 \fi
18591 \renewcommand{\BreakBibliography}[1]{%
18592 \@bib@break
18593 \end{thebibliography}%
18594 \begingroup ##1\endgroup
18595 \begin{thebibliography}{#1}
18596 }%
18597 \if@RTL\if@LTRbibitems\@RTLfalse\else\fi\else\if@RTLbibitems\@RTLtrue\else\fi\fi
18598 \bidi@thebibliography@font@hook%
18599 \list{%
18600 \@biblabel{\@arabic\c@enumiv}%
18601 }{%
18602 \settowidth\labelwidth{\@biblabel{#1}}%
18603 \leftmargin\labelwidth
18604 \advance\leftmargin\labelsep
18605 \@openbib@code
18606 \if@bib@break@
18607 \edef\@tempa{%
18608 \noexpand\usecounter{enumiv}%
18609 \noexpand\setcounter{enumiv}{\the\c@enumiv}%
18610 }\@tempa
18611 \no@bib@break
18612 \else
18613 \usecounter{enumiv}%
18614 \fi
18615 \let\p@enumiv\@empty
18616 \renewcommand*\theenumiv{\@arabic\c@enumiv}%
18617 }%
18618 \sloppy\clubpenalty4000 \widowpenalty4000
18619 \sfcode`\.=\@m
18620 }{%
18621 \if@bib@break@
18622 \def\@noitemerr{%
18623 \@latex@warning{%
18624 \string\BreakBibliography\space at begin of `thebibliography'
18625 environment\MessageBreak
18626 or following \string\BreakBibliography}%
18627 }%
18628 \else
18629 \def\@noitemerr{%
18630 \@latex@warning{%
18631 Empty `thebibliography' environment or
18632 \string\BreakBibliography\MessageBreak
18633 before end of `thebibliography' environment}%
18634 }%
18635 \fi

```



```

18636 \endlist
18637 \if@bib@break@
18638 \else
18639 \bib@after@hook
18640 \let\bib@before@hook\@empty
18641 \let\bib@after@hook\@empty
18642 \fi
18643 \bib@endhook
18644 }
18645 \renewcommand*\left@footnoterule{%
18646 \kern-3\p@
18647 \ifx\@textbottom\relax\else\vskip \z@ \@plus.05fil\fi
18648 \hrule\@width.4\columnwidth
18649 \kern 2.6\p@}
18650 \renewcommand*\right@footnoterule{%
18651 \kern-3\p@
18652 \ifx\@textbottom\relax\else\vskip \z@ \@plus.05fil\fi
18653 \hbox to \columnwidth{\hskip .6\columnwidth \hrulefill }
18654 \kern2.6\p@}
18655 \renewcommand*{\raggeddictum}{\if@RTL\raggedright\else\raggedleft\fi}
18656 \renewcommand*{\raggeddictumtext}{\if@RTL\raggedleft\else\raggedright\fi}
18657 \renewcommand*{\raggeddictumauthor}{\if@RTL\raggedright\else\raggedleft\fi}
18658 \renewcommand\marginline[1]{%
18659 \marginpar[\if@RTL\raggedright\else\raggedleft\fi{#1}]{\if@RTL\raggedleft\else\raggedright
18660 }
18661 \renewcommand{\@@makecaption}[3]{%
18662 \cap@margin
18663 \ifonelinecaptions
18664 \@tempcnta=\value{mpfootnote}\@tempcntb=\value{footnote}%
18665 \let\scr@tmp@footnotetext=\@footnotetext
18666 \let\@footnotetext=\@gobble
18667 \let\scr@tmp@LTRfootnotetext=\@LTRfootnotetext
18668 \let\@LTRfootnotetext=\@gobble
18669 \let\scr@tmp@RTLfootnotetext=\@RTLfootnotetext
18670 \let\@RTLfootnotetext=\@gobble
18671 \sbox\@tempboxa{%
18672 {\capfont{\strut\ignorespaces
18673 #1{\caplabelfont{#2\captionformat}}}%
18674 #3\unskip\strut}}%
18675 }%
18676 \let\@footnotetext=\scr@tmp@footnotetext
18677 \let\scr@tmp@footnotetext=\undefined
18678 \let\@LTRfootnotetext=\scr@tmp@LTRfootnotetext
18679 \let\scr@tmp@LTRfootnotetext=\undefined
18680 \let\@RTLfootnotetext=\scr@tmp@RTLfootnotetext
18681 \let\scr@tmp@RTLfootnotetext=\undefined
18682 \setcounter{footnote}{\@tempcntb}%
18683 \setcounter{mpfootnote}{\@tempcnta}%
18684 \else
18685 \sbox\@tempboxa{\hspace*{2\cap@width}}%
18686 \fi
18687 \begingroup%
18688 \setlength{\@tempdima}{\cap@width}%
18689 \ifdim \wd\@tempboxa >\@tempdima

```



```

18690 \hb@xt@\hsize{%
18691 \setbox\@tempboxa\vbox{\hsize=\cap@width
18692 \ifdofullc@p
18693 {\capfont{\@hangfrom{\scr@smashdp{\strut\ignorespaces
18694 #1{\caplabelfont{#2\captionformat}}}}}%
18695 {#3\unskip\strut\par}}}%
18696 \else%
18697 \ifdim\cap@indent<\z@
18698 {\capfont{\strut\ignorespaces
18699 #1{\caplabelfont{#2\captionformat\par}}}%
18700 \noindent\hspace*{-\cap@indent}#3\unskip\strut\par}}%
18701 \else%
18702 \if@capbreak
18703 {\capfont{\strut\ignorespaces
18704 #1{\caplabelfont{#2\captionformat\par}}}%
18705 \noindent\@hangfrom{\hspace*{\cap@indent}}{#3\par}}}%
18706 \else
18707 {\capfont{\@hangfrom{\scr@smashdp{\strut\hspace*{\cap@indent}}}%
18708 {\hspace*{-\cap@indent}\scr@smashdp{\ignorespaces#1%
18709 {\caplabelfont{#2\captionformat}}}}#3\unskip\strut\par}}}%
18710 \fi
18711 \fi
18712 \fi
18713 }%
18714 \setlength{\@tempdima}{\ht\@tempboxa}%
18715 \addtolength{\@tempdima}{\dp\@tempboxa}%
18716 \addtolength{\@tempdima}{-\ht\strutbox}%
18717 \ht\@tempboxa\ht\strutbox
18718 \dp\@tempboxa\@tempdima
18719 \strut\cap@left
18720 \box\@tempboxa
18721 \cap@right\strut
18722 }%
18723 \else
18724 \global \@minipagefalse
18725 \sbox\@tempboxa{%
18726 {\capfont{\scr@smashdp{\strut\ignorespaces
18727 #1{\caplabelfont{#2\captionformat}}}}}%
18728 #3}%
18729 }%
18730 {\capfont{\hb@xt@\hsize{\strut\cap@left\if@RTL\beginR\fi\box\@tempboxa\if@RTL\endR\fi\
18731 \fi
18732 \endgroup
18733 }
18734 \renewcommand{\@makecaption}[2]{%
18735 \if@captionabove
18736 \vskip\belowcaptionskip
18737 \else
18738 \vskip\abovecaptionskip
18739 \fi
18740 \@@makecaption\@firstofone{#1}{#2}%
18741 \if@captionabove
18742 \vskip\abovecaptionskip
18743 \else

```



```

18744     \vskip\belowcaptionskip
18745   \fi
18746 }
18747 \bidi@AfterFile{longtable-xetex-bidi.def}{%
18748   \@ifpackageloaded{caption2}{\@komalongtablefalse
18749     \scr@caption@before@longtable@warning{caption2}%
18750   }{}%
18751   \if@komalongtable
18752     \renewcommand{\LT@makecaption}[3]{%
18753       \noalign{%
18754         \if@captionabove
18755           \vskip\belowcaptionskip
18756         \else
18757           \vskip\abovecaptionskip
18758         \fi
18759       }%
18760       \LT@mcol\LT@cols c{%
18761         \hbox to\z@{\hss\parbox[t]{\linewidth{%
18762           \@makecaption{#1}{#2}{#3}%
18763         \endgraf
18764         \if@captionabove
18765           \vskip\abovecaptionskip
18766         \else
18767           \vskip\belowcaptionskip
18768         \fi
18769       }%
18770       \hss
18771     }%
18772   }%
18773 }%
18774 \renewcommand*{\scr@LT@array}{}%
18775 \let\scr@LT@array=\LT@array
18776 \renewcommand*{\LT@array}{%
18777   \let\scr@caption=\LT@caption
18778   \def\captionabove{\noalign{\global\@captionabovetrue}%
18779     \scr@caption}%
18780   \def\captionbelow{\noalign{\global\@captionabovetrue}%
18781     \scr@caption}%
18782   \if@tablecaptionabove
18783     \let\LT@caption=\captionabove
18784   \else
18785     \let\LT@caption=\captionbelow
18786   \fi
18787   \scr@LT@array
18788 }%
18789 \ClassInfo{\KOMAClassName}{%
18790   longtable captions redefined%
18791 }%
18792 \fi
18793 }
18794
18795 \CloneTOCEntryStyle{tocline}{part}
18796 \TOCEntryStyleStartInitCode{part}{%
18797   \expandafter\renewcommand%

```



```

18798 \csname scr@tso@#1@linefill\endcsname{\hfill}%
18799 \expandafter\renewcommand%
18800 \csname scr@tso@#1@entryformat\endcsname[1]{\usekomafont{partentry}{##1}}%
18801 \expandafter\renewcommand%
18802 \csname scr@tso@#1@pagenumberformat\endcsname[1]{%
18803   \usekomafont{partentry}{\usekomafont{partentrypagenumber}{##1}}}%
18804 \expandafter\renewcommand\expandafter*%
18805 \csname scr@tso@#1@beforeskip\endcsname{2.25em \@plus\p@}%
18806 }
18807
18808 \CloneTOCEntryStyle{tocline}{chapter}
18809 \TOCEntryStyleStartInitCode{chapter}{%
18810   \expandafter\renewcommand%
18811   \csname scr@tso@#1@linefill\endcsname{%
18812     \if@chapterentrywithdots
18813       \TOCLineLeaderFill\relax
18814     \else
18815       \hfill
18816     \fi
18817   }%
18818   \expandafter\renewcommand%
18819   \csname scr@tso@#1@entryformat\endcsname{\usekomafont{chapterentry}}%
18820   \expandafter\renewcommand%
18821   \csname scr@tso@#1@pagenumberformat\endcsname[1]{%
18822     \usekomafont{chapterentry}{\usekomafont{chapterentrypagenumber}{##1}}}%
18823   \expandafter\renewcommand\expandafter*%
18824   \csname scr@tso@#1@beforeskip\endcsname{1.0em \@plus\p@}%
18825 }
18826
18827 \CloneTOCEntryStyle{tocline}{section}
18828 \TOCEntryStyleStartInitCode{section}{%
18829   \expandafter\renewcommand%
18830   \csname scr@tso@#1@linefill\endcsname{\TOCLineLeaderFill\relax}%
18831 }
18832
18833 \CloneTOCEntryStyle{section}{default}
18834
18835 \DeclareSectionCommand[%
18836   style=part,%
18837   level=\m@ne,%
18838   pagestyle=plain,%
18839   tocstyle=part,%
18840   toplevel=\m@ne,%
18841   tocindent=\z@,%
18842   tocnumwidth=2em%
18843 ]{part}
18844 \DeclareSectionCommand[%
18845   style=chapter,%
18846   level=\z@,%
18847   pagestyle=plain,%
18848   tocstyle=chapter,%
18849   tocindent=\z@,%
18850   tocnumwidth=1.5em%
18851 ]{chapter}

```



```

18852 \DeclareSectionCommand[%
18853   style=section,%
18854   level=1,%
18855   indent=\z@,%
18856   beforeskip=-3.5ex \@plus -1ex \@minus -.2ex,%
18857   afterskip=2.3ex \@plus .2ex,%
18858   tocstyle=section,%
18859   tocindent=1.5em,%
18860   tocnumwidth=2.3em%
18861 ]{section}
18862 \DeclareSectionCommand[%
18863   style=section,%
18864   level=2,%
18865   indent=\z@,%
18866   beforeskip=-3.25ex \@plus -1ex \@minus -.2ex,%
18867   afterskip=1.5ex \@plus .2ex,%
18868   tocstyle=section,%
18869   tocindent=3.8em,%
18870   tocnumwidth=3.2em%
18871 ]{subsection}
18872 \DeclareSectionCommand[%
18873   style=section,%
18874   level=3,%
18875   indent=\z@,%
18876   beforeskip=-3.25ex \@plus -1ex \@minus -.2ex,%
18877   afterskip=1.5ex \@plus .2ex,%
18878   tocstyle=section,%
18879   tocindent=7.0em,%
18880   tocnumwidth=4.1em%
18881 ]{subsubsection}
18882 \DeclareSectionCommand[%
18883   style=section,%
18884   level=4,%
18885   indent=\z@,%
18886   beforeskip=3.25ex \@plus 1ex \@minus .2ex,%
18887   afterskip=-1em,%
18888   tocstyle=section,%
18889   tocindent=10em,%
18890   tocnumwidth=5em%
18891 ]{paragraph}
18892 \DeclareSectionCommand[%
18893   style=section,%
18894   level=5,%
18895   indent=\scr@parindent,%
18896   beforeskip=3.25ex \@plus 1ex \@minus .2ex,%
18897   afterskip=-1em,%
18898   tocstyle=section,%
18899   tocindent=12em,%
18900   tocnumwidth=6em%
18901 ]{subparagraph}
18902
18903

```





## 109 File `sidecap-xetex-bidi.def`

```
18904 \ProvidesFile{sidecap-xetex-bidi.def}[2010/08/01 v0.1 bidi adaptations for sidecap package f
18905 \renewcommand*{\SC@FLOAT}[2]{\if@RTL%
18906   \isSC@ODD{#1}\hspace{\sidecaptionsep}{#2}} {{#2}\hspace{\sidecaptionsep}{#1}}\else%
18907 \isSC@ODD{#2}\hspace{\sidecaptionsep}{#1}} {{#1}\hspace{\sidecaptionsep}{#2}}\fi}
18908 \renewcommand*{\SC@justify@caption}{\if@RTL%
18909 \isSC@ODD{\RaggedLeft}{\RaggedRight}\else%
18910   \isSC@ODD{\RaggedRight}{\RaggedLeft}\fi}
```

## 110 File `soul-xetex-bidi.def`

```
18911 \ProvidesFile{soul-xetex-bidi.def}[2015/10/16 v0.1 bidi adaptations for soul package for XeT
18912 \long\def\SOUL@start#1{%
18913   \let\bidir@RTL@everypar@empty
18914   \let\<\SOUL@lowerthan
18915   \let\>\empty
18916   \def\soulomit{\noexpand\soulomit}%
18917   \gdef\SOUL@eventuallyexhyphen##1{%
18918     \let\SOUL@soeventuallyskip\relax
18919     \SOUL@spaceskip=\fontdimen\tw@\font\@plus\fontdimen\thr@@\font
18920       \@minus\fontdimen4\font
18921     \SOUL@ignorespacesfalse
18922     \leavevmode
18923     \SOUL@preamble
18924     \SOUL@lasttoken={}%
18925     \SOUL@word={}%
18926     \SOUL@minus\z@
18927     \SOUL@comma\z@
18928     \SOUL@apo\z@
18929     \SOUL@grave\z@
18930     \SOUL@do{#1}%
18931     \SOUL@postamble
18932   }}
18933 \def\SOUL@ulunderline#1{%
18934   \setbox\z@\hbox{#1}%
18935   \dimen@=\wd\z@
18936   \dimen@i=\SOUL@uloverlap
18937   \advance\dimen@2\dimen@i
18938   \if@RTL
18939     \unhcopy\z@
18940     \llap{%
18941       \null
18942       \kern-\dimen@i
18943       \SOUL@ulcolor{\SOUL@ulleaders\hskip\dimen@}%
18944     }%
18945   \else
18946     \rlap{%
18947       \null
18948       \kern-\dimen@i
18949       \SOUL@ulcolor{\SOUL@ulleaders\hskip\dimen@}%
18950     }%
18951     \unhcopy\z@
18952   \fi}
```



```

18953 }}
18954 \def\bidi@SOUL@ulleaders{%
18955     \leaders\hb@xt@0.1pt{\hss\SOUL@ulcolor{\vrule\@depth\SOUL@uldp\@height\SOUL@ulht}\hss}\n
18956 }
18957 \def\SOUL@uleveryspace#1{%
18958     \if@RTL
18959     #1%
18960     \bidi@SOUL@ulleaders
18961     \hskip\spaceskip
18962     \else
18963     \SOUL@ulcolor{%
18964     #1%
18965     \SOUL@ulleaders
18966     \hskip\spaceskip
18967     }%
18968     \fi
18969     \null
18970 }

```

## 111 File stabular-xetex-bidi.def

```

18971 \ProvidesFile{stabular-xetex-bidi.def}[2015/11/07 v0.3 bidi adaptations for stabular package]
18972 \def\@stabular{%
18973     \leavevmode \bgroup \if@RTLtab\beginR \fi
18974     \let\@acol\@tabacol
18975     \let\@classz\@tabclassz
18976     \let\@classiv\@tabclassiv \let\\\@tabularcr\@stabarray}
18977 \def\endstabular{\crr\egroup\if@RTLtab\egroup\endR\egroup\fi
18978     \egroup \if@RTLtab\endR\fi\egroup}
18979 \expandafter \let \csname endstabular*\endcsname = \endstabular
18980 \def\@sarray[#1]#2{%
18981     \bgroup
18982     \setbox\@arstrutbox\hbox{%
18983         \vrule \@height\arraystretch\ht\strutbox
18984         \@depth\arraystretch\dp\strutbox
18985         \@width\z@}%
18986     \@mkpream{#2}%
18987     \edef\@preamble{%
18988         \ialign \noexpand\@halignto
18989         \bgroup \@arstrut \@preamble \tabskip\z@skip \cr}%
18990     \let\@startpbox\@startpbox \let\@endpbox\@endpbox
18991     \let\@tabularnewline\\
18992     \let\@sharp##%
18993     \set@typeset@protect
18994     \lineskip\z@skip\baselineskip\z@skip
18995     \if@RTLtab\hbox\bgroup\beginR\@hboxRconstructtrue\if #1t\vtop \else \vbox \fi\bgroup\fi
18996     \@preamble}

```

## 112 File subfigure-xetex-bidi.def

```

18997 \ProvidesFile{subfigure-xetex-bidi.def}[2010/03/01 v0.1 bidi adaptations for subfigure package]
18998 \AtBeginDocument{%
18999     \let\p@subfigure=\thefigure
19000     \let\p@subtable=\thetable%

```



19001 }

## 113 File tabs-xetex-bidi.def

```

19002 \ProvidesFile{tabs-xetex-bidi.def}[2015/11/07 v0.3 bidi adaptations for tabs package for Xe
19003 \def\endtabular{\endarray $\if@RTLtab\endR\fi\egroup}
19004
19005 \expandafter\let\csname endtabular*\endcsname=\endtabular
19006
19007 \def\endarray{\ifvmode\csname crcr\endcsname % just do \crr if \ given
19008   \else \[\z@ \global\advance\@arstdepth-\@otarlinesep]%
19009   \fi\egroup\if@RTLtab\egroup\endR\egroup\fi\@unrecurse\egroup}
19010
19011 \def\@array[#1]#2{% remember global variables to allow recursion:
19012   \edef\@unrecurse{\global\@skip@bove\the\@skip@bove
19013     \global\@arstheight\the\@arstheight\global\@arstdepth\the\@arstdepth}%
19014   \let\@otarlinesep\@tarlinesep \global\@skip@bove-\@otarlinesep
19015   \ifx\@classz\@arrayclassz \let\@tarlinesep\arraylinesep
19016   \else \let\@tarlinesep\tablinesep \fi
19017   \divide\@tarlinesep\tw@ % half sep is applied to height & depth
19018   \let\@seesize\relax \let\@rememsize\relax \mkpream{#2}%
19019   \@tempdima\arraystretch\ht\strutbox \@tempdimb\arraystretch\dp\strutbox
19020   \ifdim\@tarlinesep>\z@ % (need \protect for \multicolumn)
19021     \def\@rememsize{\protect\@r@m@size}\let\@seesize\@s@size
19022     \advance\@tempdima-\@tarlinesep \advance\@tempdimb-\@tarlinesep
19023   \fi \setbox\@arstrutbox\hbox{% set up smaller strut
19024     \vrule \@height\@tempdima \@depth\@tempdimb \@width\z@}%
19025   \let\protect\noexpand
19026   \edef\@preamble{\ialign \noexpand\@halignto \bgroup
19027     \unhcopy\@arstrutbox \@preamble \tabskip\z@skip &\@sharp \cr}%
19028   \let\@startpbox\@startpbox \let\@endpbox\@endpbox
19029   \if#1t\top \else \if#1b\bottom \else \vcenter \fi\fi
19030   \bgroup \let\par\@empty
19031   \global\@arstheight\ht\@arstrutbox \global\@arstdepth\dp\@arstrutbox
19032   \advance\extrarulesep.5\arrayrulewidth
19033   \let\@sharp##\let\protect\relax \lineskip\z@skip \baselineskip\z@skip
19034   \if@RTLtab\hbox\bgroup\beginR\@hboxRconstructtrue\if#1t\top \else \bottom \fi\bgroup\fi
19035   \@preamble}

```

## 114 File tabularx-xetex-bidi.def

```

19036 \ProvidesFile{tabularx-xetex-bidi.def}[2014/11/08 v0.1 bidi adaptations for tabularx package
19037 \def\TX@endtabularx{%
19038   \expandafter\expandafter\expandafter
19039     \TX@find@endtabularxa\csname end\TX@\endcsname
19040     \endtabularx\TX@\endtabularx\TX@find@endtabularxa
19041   \expandafter\TX@newcol\expandafter{\tabularxcolumn{\TX@col@width}}%
19042   \let\verb\TX@verb
19043   \def\@elt##1{\global\value{##1}\the\value{##1}\relax}%
19044   \edef\TX@ckpt{\cl@ckpt}%
19045   \let\@elt\relax
19046   \TX@old@table\maxdimen
19047   \TX@col@width\TX@target
19048   \global\TX@cols\@ne

```



```

19049 \TX@typeout@
19050 {\@spaces Table Width\@spaces Column Width\@spaces X Columns}%
19051 \TX@trial{\def\NC@rewrite@X{%
19052 \global\advance\TX@cols\@ne\NC@find p{\TX@col@width}}}%
19053 \loop
19054 \TX@arith
19055 \ifTX@
19056 \TX@trial{}%
19057 \repeat
19058 {\let\@footnotetext\TX@ftntext\let\@xfootnotenext\TX@xftntext
19059 \let\@LTRfootnotetext\TX@LTRftntext\let\@xLTRfootnotenext\TX@xLTRftntext
19060 \let\@RTLfootnotetext\TX@RTLftntext\let\@xRTLfootnotenext\TX@xRTLftntext
19061 \csname tabular*\expandafter\endcsname\expandafter\TX@target
19062 \the\toks@
19063 \csname endtabular*\endcsname}%
19064 \global\TX@ftn\expandafter{\expandafter}\the\TX@ftn
19065 \ifnum0=\fi}%
19066 \expandafter\expandafter\expandafter
19067 \TX@find@endtabularxbb
19068 \expandafter\end\expandafter{\TX@}%
19069 \endtabularx\TX@\endtabularx\TX@find@endtabularxb
19070 }
19071
19072 \def\TX@trial#1{%
19073 \setbox\@tempboxa\hbox{%
19074 #1\relax
19075 \let\@footnotetext\TX@trial@ftn
19076 \let\@LTRfootnotetext\TX@trial@ftn
19077 \let\@RTLfootnotetext\TX@trial@ftn
19078 \let\TX@vwarn\@empty
19079 \expandafter\let\expandafter\tabularx\csname tabular*\endcsname
19080 \expandafter\let\expandafter\endtabularx\csname endtabular*\endcsname
19081 \def\write{\begingroup
19082 \def\let{\afterassignment\endgroup\toks@}%
19083 \afterassignment\let\count@}%
19084 \hbadness\@M
19085 \hfuzz\maxdimen
19086 \let\hbadness\@tempcnta
19087 \let\hfuzz\@tempdima
19088 \expandafter\tabular\the\toks@
19089 \endtabular}%
19090 \TX@ckpt
19091 \TX@typeout@{\@spaces
19092 \expandafter\TX@align
19093 \the\wd\@tempboxa\space\space\space\space\space\@@
19094 \expandafter\TX@align
19095 \the\TX@col@width\space\space\space\space\space\@@
19096 \@spaces\the\TX@cols}}
19097
19098 \long\def\TX@LTRftntext#1{%
19099 \edef\@tempa{\the\TX@ftn\noexpand\LTRfootnotetext
19100 [\the\csname c@\@mpfn\endcsname]}}%
19101 \global\TX@ftn\expandafter{\@tempa{#1}}}%
19102 \long\def\TX@xLTRftntext[#1]#2{%

```



```

19103 \global\TX@ftn\expandafter{\the\TX@ftn\LTRfootnotetext[#1]{#2}}
19104
19105 \long\def\TX@RTLftntext#1{%
19106   \edef\@tempa{\the\TX@ftn\noexpand\RTLfootnotetext
19107     [\the\csname c@\mpfn\endcsname]}%
19108   \global\TX@ftn\expandafter{\@tempa{#1}}}%
19109 \long\def\TX@xRTLftntext[#1]#2{%
19110   \global\TX@ftn\expandafter{\the\TX@ftn\RTLfootnotetext[#1]{#2}}}

```

## 115 File tabulary-xetex-bidi.def

```

19111 \ProvidesFile{tabulary-xetex-bidi.def}[2010/07/25 v0.1 bidi adaptations for tabulary package]
19112 \def\@testpach{\@chclass
19113   \ifnum \@lastchclass=6 \@ne \@chnum \@ne \else
19114     \ifnum \@lastchclass=7 5 \else
19115       \ifnum \@lastchclass=8 \tw@ \else
19116         \ifnum \@lastchclass=9 \thr@@
19117         \else \z@
19118         \ifnum \@lastchclass = 10 \else
19119         \edef\@nextchar{\expandafter\string\@nextchar}%
19120         \@chnum
19121         \if \@nextchar c\z@ \else
19122           \if \@nextchar \if@RTLtab r\else l\fi\@ne \else
19123           \if \@nextchar \if@RTLtab l\else r\fi\@tw@ \else
19124           \if \@nextchar C7 \else
19125           \if \@nextchar L8 \else
19126           \if \@nextchar R9 \else
19127           \if \@nextchar J10 \else
19128           \z@ \@chclass
19129           \if\@nextchar |\@ne \else
19130           \if \@nextchar !6 \else
19131           \if \@nextchar @7 \else
19132           \if \@nextchar <8 \else
19133           \if \@nextchar >9 \else
19134           10
19135           \@chnum
19136           \if \@nextchar m\thr@@\else
19137           \if \@nextchar p4 \else
19138           \if \@nextchar b5 \else
19139           \z@ \@chclass \z@ \@preamerr \z@ \fi \fi \fi \fi \fi \fi \fi \fi \fi \fi
19140           \fi \fi \fi \fi \fi \fi \fi \fi \fi \fi \fi \fi}

```

## 116 File tc-xetex-bidi.def

```

19141 \ProvidesFile{tc-xetex-bidi.def}[2014/07/08 v0.1 bidi adaptations for Clipping driver for Xe]
19142 \def\@cliptoboxdim#1{%
19143   \setbox#1=\hbox{%
19144     \Gin@defaultbp\WIDTH{\wd#1}%
19145     \Gin@defaultbp\DEPTH{\dp#1}%
19146     \@tempdima\ht#1%
19147     \advance\@tempdima\dp#1%
19148     \Gin@defaultbp\TOTALHEIGHT{\@tempdima}%
19149     \beginL\special{pdf:bcontent }%
19150     \special{%

```



```

19151         pdf:literal direct
19152         0 -\DEPTH\space \WIDTH\space \TOTALHEIGHT\space re
19153     }%
19154     \special{pdf:literal direct W }%
19155     \special{pdf:literal direct n }%
19156     \if@RTL\beginR\fi\box#1\if@RTL\endR\fi%
19157     \special{pdf:econtent }\endL%
19158 }%
19159 }

```

## 117 File tcolorbox-xetex-bidi.def

```

19160 \ProvidesFile{tcolorbox-xetex-bidi.def}[2018/11/11 v0.2 bidi adaptations for tcolorbox package]
19161 \let\endtcbox@lrbox=\endminipage
19162 \let\endtcbox@savebox=\endtcbox@lrbox
19163
19164 \bidi@patchcmd{\tcbox@vbox}{%
19165   \let\@footnotetext\@mpfootnotetext%
19166 }{%
19167   \let\@footnotetext\@mpfootnotetext%
19168   \let\@LTRfootnotetext\@mpLTRfootnotetext%
19169   \let\@RTLfootnotetext\@mpRTLfootnotetext%
19170 }{}{}
19171
19172 \bidi@patchcmd{\endtcbox@vbox}{%
19173   \footnoterule%
19174 }{%
19175   \bidi@mpfootnoterule%
19176 }{}{}
19177 \bidi@apptocmd{\tcbox@@icolorbox}{%
19178   \@bidi@list@minipage@parboxfalse
19179 }{}{}

```

## 118 File titlesec-xetex-bidi.def

```

19180 \ProvidesFile{titlesec-xetex-bidi.def}[2010/07/25 v0.1 bidi adaptations for titlesec package]
19181 \renewcommand\filright{%
19182   \gdef\ttl@filleft##1{\hskip##1}%
19183   \gdef\ttl@filright##1{\hfill}%
19184   \let\\\@centercr
19185   \advance\rightskip\z@ \@plus 1fil
19186   \parfillskip\z@}
19187 \def\ttlh@hang#1#2#3#4#5#6#7#8{%
19188   \gdef\ttl@makeline##1{\ttl@calc\hspace{#6}##1\ttl@calc\hspace{#7}}%
19189   \setlength\leftskip{#6}%
19190   \setlength\rightskip{#7}%
19191   \interlinepenalty\@M
19192   \ttl@change@centercr
19193   \ttl@begin@longest
19194   #1\ifhmode\ttl@hmode@error\fi
19195   \ttl@glcmds
19196   \parindent\z@
19197   \leavevmode
19198   \begin@group

```



```

19199      \ifttl@label
19200      \sbox\z@{#2\strut\ttl@calc\hspace{#3}}%
19201      \ifRTL\advance\rightskip\wd\z@\else\advance\leftskip\wd\z@\fi
19202      \llap{\box\z@}%
19203      \fi
19204      #4{#8}%
19205      \kern\z@\strut\@@par
19206      \endgroup
19207      \nobreak\ttl@midlongest#5\@@par}%
19208      \ttl@endlongest}

```

## 119 File titletoc-xetex-bidi.def

```

19209 \ProvidesFile{titletoc-xetex-bidi.def}[2013/04/10 v0.2 bidi adaptations for titletoc package]
19210 \renewcommand\filright{%
19211   \gdef\ttl@filleft##1{\hskip##1}%
19212   \gdef\ttl@filright##1{\hfill}%
19213   \let\\@centercr
19214   \advance\rightskip\z@ \@plus 1fil
19215   \parfillskip\z@}
19216 \renewcommand\contentspush[1]{%
19217   \sbox\z@{#1}%
19218   \xdef\ttl@b{\advance\ifRTL\rightskip\else\leftskip\fi\the\wd\z@}%
19219   \aftergroup\ttl@b
19220   \leavevmode\llap{\box\z@}}
19221 \def\ttl@outnoblock#1#2#3{%
19222   \begingroup
19223   \ifnum\ttl@b>\ttl@a
19224     \nobreak
19225   \else\ifnum\ttl@b<\ttl@a
19226     \addpenalty{\@secpenalty}%
19227   \else
19228     \addpenalty{\z@}%
19229   \fi\fi
19230   \ttl@contentsstretch
19231   \nobreak
19232   \ifcase#1\relax\else\interlinepenalty\@M\fi
19233   \parindent\z@
19234   \ifx@nil#2%
19235     \PackageError{titletoc}{Unimplemented}%
19236     {The optional argument is currently mandatory}%
19237   \else
19238     \ifRTL\setlength\rightskip{#2}\else
19239     \setlength\leftskip{#2}\fi%
19240   \fi
19241   \ifRTL\setlength\leftskip{\@pnumwidth}\else\setlength\rightskip{\@pnumwidth}\fi%
19242   \let\contentsmargin\ttl@margin
19243   \def\ttl@makeline##1{##1}%
19244   #3%
19245   \addtolength{\parfillskip}{-\ttl@corr}%
19246   \ifRTL\addtolength{\leftskip}{\ttl@corr}\else\addtolength{\rightskip}{\ttl@corr}\fi%
19247   \let\ttl@leaders\leaders}
19248 \renewcommand\ttl@margin[2][\z@]{%
19249   \def\ttl@corr{#1}%

```



```

19250 \advance\if@RTL\leftskip\else\rightskip\fi-\@pnumwidth\relax
19251 \advance\if@RTL\leftskip\else\rightskip\fi#2\relax
19252 \def\@pnumwidth{#2}}
19253 \let\ttl@savel@part\l@part
19254 \def\l@part{\ttl@lselect{part}}
19255
19256 \let\ttl@savel@chapter\l@chapter
19257 \def\l@chapter{\ttl@lselect{chapter}}

```

## 120 File tocbibind-xetex-bidi.def

```

19258 \ProvidesFile{tocbibind-xetex-bidi.def}[2017/06/09 v0.4 bidi adaptations for tocbibind packa
19259 \if@dotocbib
19260 \ifpackageloaded{natbib}{\% natbib not loaded
19261 \renewcommand{\bibsection}{\tcb@bchapsec}
19262 \renewenvironment{thebibliography}[1]{\%
19263 \bibsection
19264 \begin{thebibitemlist}{#1}}{\end{thebibitemlist}}}
19265 \renewenvironment{thebibitemlist}[1]{
19266 \if@RTL\if@LTRbibitems\@RTLfalse\else\fi\else\if@RTLbibitems\@RTLtrue\else\fi\fi
19267 \bidi@thebibliography@font@hook%
19268 \list{\@biblabel{\@arabic{c@enumiv}}}%
19269 {\settowidth\labelwidth{\@biblabel{#1}}%
19270 \leftmargin\labelwidth
19271 \advance\leftmargin\labelsep
19272 \@openbib@code
19273 \usecounter{enumiv}%
19274 \let\p@enumiv\@empty
19275 \renewcommand\theenumiv{\@arabic{c@enumiv}}}%
19276 \sloppy
19277 \clubpenalty4000
19278 \@clubpenalty \clubpenalty
19279 \widowpenalty4000%
19280 \sfcode`\.\@m}
19281 {\def\@noitemerr
19282 {\@latex@warning{Empty `thebibliography' environment}}}%
19283 \endlist}
19284
19285 \ifpackagewith{chapterbib}{sectionbib}%
19286 {\renewcommand{\sectionbib}[2]{}%
19287 {}
19288
19289 \fi
19290 \if@inltxdoc\else
19291 \renewenvironment{theindex}%
19292 {\if@twocolumn
19293 \@restonecolfalse
19294 \else
19295 \@restonecoltrue
19296 \fi
19297 \if@bibchapter
19298 \if@donumindex
19299 \refstepcounter{chapter}
19300 \twocolumn[\vspace*{2\topskip}%

```





```

19301             \@makechapterhead{\indexname}}%
19302             \addcontentsline{toc}{chapter}{\protect\numberline{\thechapter}\indexname}
19303             \chaptermark{\indexname}
19304         \else
19305             \if@dotocind
19306                 \twocolumn[\vspace*{2\topskip}%
19307                     \@makeschapterhead{\indexname}}%
19308                 \prw@mkboth{\indexname}
19309                 \addcontentsline{toc}{chapter}{\indexname}
19310             \else
19311                 \twocolumn[\vspace*{2\topskip}%
19312                     \@makeschapterhead{\indexname}}%
19313                 \prw@mkboth{\indexname}
19314             \fi
19315         \fi
19316     \else
19317         \if@donumindex
19318             \twocolumn[\vspace*{-1.5\topskip}%
19319                 \@nameuse{\@tocextra}{\indexname}}%
19320             \csname \@tocextra mark\endcsname{\indexname}
19321         \else
19322             \if@dotocind
19323                 \twocolumn[\vspace*{-1.5\topskip}%
19324                     \toc@headstar{\@tocextra}{\indexname}}%
19325                 \prw@mkboth{\indexname}
19326                 \addcontentsline{toc}{\@tocextra}{\indexname}
19327             \else
19328                 \twocolumn[\vspace*{-1.5\topskip}%
19329                     \toc@headstar{\@tocextra}{\indexname}}%
19330                 \prw@mkboth{\indexname}
19331             \fi
19332         \fi
19333     \fi
19334     \thispagestyle{plain}\parindent\z@
19335     \parskip\z@ \@plus .3\p@\relax
19336     \let\item\@idxitem}
19337     {\if@restonecol\onecolumn\else\clearpage\fi}
19338 \fi

```

## 121 File tocloft-xetex-bidi.def

```

19339 \ProvidesFile{tocloft-xetex-bidi.def}[2010/07/25 v0.2 bidi adaptations for tocloft package f
19340 \let\cftdot\@SepMark
19341 \if@cfthaspart
19342 \renewcommand*{\l@part}[2]{
19343     \@cftdopartfalse
19344     \ifnum \c@tocdepth >-2\relax
19345         \if@cfthaschapter
19346             \@cftdoparttrue
19347         \fi
19348         \ifnum \c@tocdepth >\m@ne
19349             \if@cfthaschapter\else
19350                 \@cftdoparttrue
19351             \fi

```



```

19352 \fi
19353 \fi
19354 \if@cftdopart
19355 \if@cfthaschapter
19356 \addpenalty{-\@highpenalty}
19357 \else
19358 \addpenalty\@secpenalty
19359 \fi
19360 \addvspace{\cftbeforepartskip}
19361 \begingroup
19362 {\if@RTL\rightskip\else\leftskip\fi \cftpartindent\relax
19363 \if@RTL\leftskip\else\rightskip\fi \@tocrmarg
19364 \parfillskip -\if@RTL\leftskip\else\rightskip\fi
19365 \parindent \cftpartindent\relax\@afterindenttrue
19366 \interlinepenalty\@M
19367 \leavevmode
19368 \@tempdima \cftpartnumwidth\relax
19369 \let\@cftbsnum \cftpartpresnum
19370 \let\@cftasnum \cftpartaftersnum
19371 \let\@cftasnumb \cftpartaftersnumb
19372 \advance\if@RTL\rightskip\else\leftskip\fi \@tempdima \null\nobreak\hskip -\if@RTL\ri
19373 {\cftpartfont \cftpartpresnum #1}
19374 \cftpartfillnum{#2}}
19375 \nobreak
19376 \if@cfthaschapter
19377 \global\@nobreaktrue
19378 \everypar{\global\@nobreakfalse\everypar{}}
19379 \else
19380 \if@compatibility
19381 \global\@nobreaktrue
19382 \everypar{\global\@nobreakfalse\everypar{}}
19383 \fi
19384 \fi
19385 \endgroup
19386 \fi}
19387 \fi
19388 \if@cfthaschapter
19389 \renewcommand*{\l@chapter}[2]{
19390 \ifnum \c@tocdepth >\m@ne
19391 \addpenalty{-\@highpenalty}
19392 \vskip \cftbeforechapskip
19393 {\if@RTL\rightskip\else\leftskip\fi \cftchapindent\relax
19394 \if@RTL\leftskip\else\rightskip\fi \@tocrmarg
19395 \parfillskip -\if@RTL\leftskip\else\rightskip\fi
19396 \parindent \cftchapindent\relax\@afterindenttrue
19397 \interlinepenalty\@M
19398 \leavevmode
19399 \@tempdima \cftchapnumwidth\relax
19400 \let\@cftbsnum \cftchappresnum
19401 \let\@cftasnum \cftchapaftersnum
19402 \let\@cftasnumb \cftchapaftersnumb
19403 \advance\if@RTL\rightskip\else\leftskip\fi \@tempdima \null\nobreak\hskip -\if@RTL\righ
19404 {\cftchapfont #1}\nobreak
19405 \cftchapfillnum{#2}}

```



```

19406 \fi}
19407 \fi
19408 \renewcommand*{\l@section}[2]{%
19409 \ifnum \c@tocdepth >\z@
19410 \if@cfthaschapter
19411 \vskip \cftbeforesecskip
19412 \else
19413 \addpenalty\@secpenalty
19414 \addvspace{\cftbeforesecskip}
19415 \fi
19416 {\if@RTL\righskip\else\leftskip\fi \cftsecindent\relax
19417 \if@RTL\leftskip\else\righskip\fi \@tocrmarg
19418 \parfillskip -\if@RTL\leftskip\else\righskip\fi
19419 \parindent \cftsecindent\relax\@afterindenttrue
19420 \interlinepenalty\@M
19421 \leavevmode
19422 \@tempdima \cftsecnumwidth\relax
19423 \let\@cftbsnum \cftsecpresnum
19424 \let\@cftasnum \cftsecaftersnum
19425 \let\@cftasnumb \cftsecaftersnumb
19426 \advance\if@RTL\righskip\else\leftskip\fi \@tempdima \null\nobreak\hskip -\if@RTL\righ
19427 {\cftsecfont #1}\nobreak
19428 \cftsecfillnum{#2}}
19429 \fi}
19430 \renewcommand*{\l@subsection}[2]{%
19431 \ifnum \c@tocdepth >\@ne
19432 \vskip \cftbeforesubsecskip
19433 {\if@RTL\righskip\else\leftskip\fi \cftsubsecindent\relax
19434 \if@RTL\leftskip\else\righskip\fi \@tocrmarg
19435 \parfillskip -\if@RTL\leftskip\else\righskip\fi
19436 \parindent \cftsubsecindent\relax\@afterindenttrue
19437 \interlinepenalty\@M
19438 \leavevmode
19439 \@tempdima \cftsubsecnumwidth\relax
19440 \let\@cftbsnum \cftsubsecpresnum
19441 \let\@cftasnum \cftsubsecaftersnum
19442 \let\@cftasnumb \cftsubsecaftersnumb
19443 \advance\if@RTL\righskip\else\leftskip\fi \@tempdima \null\nobreak\hskip -\if@RTL\righ
19444 {\cftsubsecfont #1}\nobreak
19445 \cftsubsecfillnum{#2}}
19446 \fi}
19447 \renewcommand*{\l@subsubsection}[2]{%
19448 \ifnum \c@tocdepth >\tw@
19449 \vskip \cftbeforesubsubsecskip
19450 {\if@RTL\righskip\else\leftskip\fi \cftsubsubsecindent\relax
19451 \if@RTL\leftskip\else\righskip\fi \@tocrmarg
19452 \parfillskip -\if@RTL\leftskip\else\righskip\fi
19453 \parindent \cftsubsubsecindent\relax\@afterindenttrue
19454 \interlinepenalty\@M
19455 \leavevmode
19456 \@tempdima \cftsubsubsecnumwidth\relax
19457 \let\@cftbsnum \cftsubsubsecpresnum
19458 \let\@cftasnum \cftsubsubsecaftersnum
19459 \let\@cftasnumb \cftsubsubsecaftersnumb

```



```

19460     \advance\if@RTL\righskip\else\leftskip\fi \@tempdima \null\nobreak\hskip -\if@RTL\righ
19461     {\cftsubsubsecfont #1}\nobreak
19462     \cftsubsubsecfillnum{#2}}
19463   \fi}
19464 \renewcommand*{\l@paragraph}[2]{%
19465   \ifnum \c@tocdepth >3\relax
19466     \vskip \cftbeforeparaskip
19467     {\if@RTL\righskip\else\leftskip\fi \cftparaindent\relax
19468     \if@RTL\leftskip\else\righskip\fi \@tocrmarg
19469     \parfillskip -\if@RTL\leftskip\else\righskip\fi
19470     \parindent \cftparaindent\relax\@afterindenttrue
19471     \interlinepenalty\@M
19472     \leavevmode
19473     \@tempdima \cftparanumwidth\relax
19474     \let\@cftbsnum \cftparapresnum
19475     \let\@cftasnum \cftparaaftersnum
19476     \let\@cftasnumb \cftparaaftersnumb
19477     \advance\if@RTL\righskip\else\leftskip\fi \@tempdima \null\nobreak\hskip -\if@RTL\righ
19478     {\cftparafont #1}\nobreak
19479     \cftparafillnum{#2}}
19480   \fi}
19481 \renewcommand*{\l@subparagraph}[2]{%
19482   \ifnum \c@tocdepth >4\relax
19483     \vskip \cftbeforesubparaskip
19484     {\if@RTL\righskip\else\leftskip\fi \cftsubparaindent\relax
19485     \if@RTL\leftskip\else\righskip\fi \@tocrmarg
19486     \parfillskip -\if@RTL\leftskip\else\righskip\fi
19487     \parindent \cftsubparaindent\relax\@afterindenttrue
19488     \interlinepenalty\@M
19489     \leavevmode
19490     \@tempdima \cftsubparanumwidth\relax
19491     \let\@cftbsnum \cftsubparapresnum
19492     \let\@cftasnum \cftsubparaaftersnum
19493     \let\@cftasnumb \cftsubparaaftersnumb
19494     \advance\if@RTL\righskip\else\leftskip\fi \@tempdima \null\nobreak\hskip -\if@RTL\righ
19495     {\cftsubparafont #1}\nobreak
19496     \cftsubparafillnum{#2}}
19497   \fi}
19498 \renewcommand*{\l@figure}[2]{%
19499   \ifnum \c@lofdepth >\z@
19500     \vskip \cftbeforefigskip
19501     {\if@RTL\righskip\else\leftskip\fi \cftfigindent\relax
19502     \if@RTL\leftskip\else\righskip\fi \@tocrmarg
19503     \parfillskip -\if@RTL\leftskip\else\righskip\fi
19504     \parindent \cftfigindent\relax\@afterindenttrue
19505     \interlinepenalty\@M
19506     \leavevmode
19507     \@tempdima \cftfignumwidth\relax
19508     \let\@cftbsnum \cftfigpresnum
19509     \let\@cftasnum \cftfigaftersnum
19510     \let\@cftasnumb \cftfigaftersnumb
19511     \advance\if@RTL\righskip\else\leftskip\fi \@tempdima \null\nobreak\hskip -\if@RTL\righ
19512     {\cftfigfont #1}\nobreak
19513     \cftfigfillnum{#2}}

```



```

19514 \fi
19515 }
19516 \renewcommand*{\l@table}[2]{%
19517 \ifnum\c@lotdepth >\z@
19518 \vskip \cftbeforetabskip
19519 {\if@RTL\righskip\else\leftskip\fi \cfttabindent\relax
19520 \if@RTL\leftskip\else\righskip\fi \@tocrmarg
19521 \parfillskip -\if@RTL\leftskip\else\righskip\fi
19522 \parindent \cfttabindent\relax\@afterindenttrue
19523 \interlinepenalty\@M
19524 \leavevmode
19525 \@tempdima \cfttabnumwidth\relax
19526 \let\@cftbsnum \cfttabpresnum
19527 \let\@cftasnum \cfttabaftersnum
19528 \let\@cftasnumb \cfttabaftersnumb
19529 \advance\if@RTL\righskip\else\leftskip\fi \@tempdima \null\nobreak\hskip -\if@RTL\righ
19530 {\cfttabfont #1}\nobreak
19531 \cfttabfillnum{#2}}
19532 \fi
19533 }
19534 \renewcommand{\@cftl@subfig}{
19535 \renewcommand*{\l@subfigure}[2]{%
19536 \ifnum \c@lofdepth > \toclevel@subfigure
19537 \vskip \cftbeforesubfigskip
19538 {\if@RTL\righskip\else\leftskip\fi \cftsubfigindent\relax
19539 \if@RTL\leftskip\else\righskip\fi \@tocrmarg
19540 \parfillskip -\if@RTL\leftskip\else\righskip\fi
19541 \parindent \cftsubfigindent\relax\@afterindenttrue
19542 \interlinepenalty\@M
19543 \leavevmode
19544 \@tempdima \cftsubfignumwidth\relax
19545 \let\@cftbsnum \cftsubfigpresnum
19546 \let\@cftasnum \cftsubfigaftersnum
19547 \let\@cftasnumb \cftsubfigaftersnumb
19548 \advance\if@RTL\righskip\else\leftskip\fi \@tempdima \null\nobreak\hskip -\if@RTL\righ
19549 {\cftsubfigfont ##1}\nobreak
19550 \cftsubfigfillnum{##2}}
19551 \fi
19552 }
19553 }
19554 \renewcommand{\@cftl@subtab}{
19555 \renewcommand*{\l@subtable}[2]{%
19556 \ifnum \c@lotdepth > \toclevel@subtable
19557 \vskip \cftbeforesubtabskip
19558 {\if@RTL\righskip\else\leftskip\fi \cftsubtabindent\relax
19559 \if@RTL\leftskip\else\righskip\fi \@tocrmarg
19560 \parfillskip -\if@RTL\leftskip\else\righskip\fi
19561 \parindent \cftsubtabindent\relax\@afterindenttrue
19562 \interlinepenalty\@M
19563 \leavevmode
19564 \@tempdima \cftsubtabnumwidth\relax
19565 \let\@cftbsnum \cftsubtabpresnum
19566 \let\@cftasnum \cftsubtabaftersnum
19567 \let\@cftasnumb \cftsubtabaftersnumb

```



```

19568     \advance\if@RTL\righskip\else\leftskip\fi \@tempdima \null\nobreak\hskip -\if@RTL\righ
19569     {\cftsubtabfont ##1}\nobreak
19570     \cftsubtabfillnum{##2}}
19571   \fi
19572 }
19573 }
19574 \renewcommand{\newlistentry}[4][\@empty]{%
19575   \ifundefined{c@#2}{%      check & set the counter
19576     \ifx \@empty#1\relax
19577       \newcounter{#2}
19578     \else
19579       \ifundefined{c@#1}{\PackageWarning{tocloft}%
19580         {#1 has no counter for use as a `within'}
19581         \newcounter{#2}}%
19582       {\newcounter{#2}[#1]%
19583         \expandafter\edef\csname the#2\endcsname{%
19584           \expandafter\noexpand\csname the#1\endcsname\@SepMark\noexpand\arabic{#2}}}
19585     \fi
19586     \setcounter{#2}{0}
19587   }
19588   {\PackageError{tocloft}{#2 has been previously defined}{\@eha}}
19589
19590   \@namedef{l@#2}##1##2{%
19591     \ifnum \@nameuse{c@#3depth} > #4\relax
19592       \vskip \@nameuse{cftbefore#2skip}
19593       {\if@RTL\righskip\else\leftskip\fi \@nameuse{cft#2indent}\relax
19594       \if@RTL\leftskip\else\righskip\fi \@tocrmarg
19595       \parfillskip -\if@RTL\leftskip\else\righskip\fi
19596       \parindent \@nameuse{cft#2indent}\relax\@afterindenttrue
19597       \interlinepenalty\@M
19598       \leavevmode
19599       \@tempdima \@nameuse{cft#2numwidth}\relax
19600       \expandafter\let\expandafter\@cftbsnum\csname cft#2presnum\endcsname
19601       \expandafter\let\expandafter\@cftasnum\csname cft#2aftersnum\endcsname
19602       \expandafter\let\expandafter\@cftasnumb\csname cft#2aftersnumb\endcsname
19603       \advance\if@RTL\righskip\else\leftskip\fi \@tempdima \null\nobreak\hskip -\if@RTL\righ
19604       {\@nameuse{cft#2font}##1}\nobreak
19605       \@nameuse{cft#2fillnum}{##2}}
19606   \fi
19607 } % end of l@#2
19608
19609 \expandafter\newlength\csname cftbefore#2skip\endcsname
19610 \setlength{\@nameuse{cftbefore#2skip}}{\z@ \@plus .2p@}
19611 \expandafter\newlength\csname cft#2indent\endcsname
19612 \expandafter\newlength\csname cft#2numwidth\endcsname
19613 \ifcase #4\relax % 0
19614   \setlength{\@nameuse{cft#2indent}}{0em}
19615   \setlength{\@nameuse{cft#2numwidth}}{1.5em}
19616 \or % 1
19617   \setlength{\@nameuse{cft#2indent}}{1.5em}
19618   \setlength{\@nameuse{cft#2numwidth}}{2.3em}
19619 \or % 2
19620   \setlength{\@nameuse{cft#2indent}}{3.8em}
19621   \setlength{\@nameuse{cft#2numwidth}}{3.2em}

```



```

19622 \or % 3
19623 \setlength{\@nameuse{cft#2indent}}{7.0em}
19624 \setlength{\@nameuse{cft#2numwidth}}{4.1em}
19625 \else % anything else
19626 \setlength{\@nameuse{cft#2indent}}{10.0em}
19627 \setlength{\@nameuse{cft#2numwidth}}{5.0em}
19628 \fi
19629 \@namedef{cft#2font}{\normalfont}
19630 \@namedef{cft#2presnum}{}
19631 \@namedef{cft#2aftersnum}{}
19632 \@namedef{cft#2aftersnumb}{}
19633 \@namedef{cft#2dotsep}{\cftdotsep}
19634 \@namedef{cft#2leader}{\normalfont\cftdotfill{\@nameuse{cft#2dotsep}}}
19635 \@namedef{cft#2pagefont}{\normalfont}
19636 \@namedef{cft#2afterpnum}{}
19637 \@namedef{toclevel@#2}{#4}
19638 \@namedef{cft#2fillnum}##1{%
19639 {\@nameuse{cft#2leader}}\nobreak
19640 \hb@xt@{\@pnumwidth}{\hfil\@nameuse{cft#2pagefont}##1\@nameuse{cft#2afterpnum}\par}
19641 } % end \newlistentry
19642 \renewcommand{\cftchapterprecistoc}[1]{\addtocontents{toc}{%
19643 {\if@RTL\rightskip\else\leftskip\fi \cftchapindent\relax
19644 \advance\if@RTL\rightskip\else\leftskip\fi \cftchapnumwidth\relax
19645 \if@RTL\leftskip\else\rightskip\fi \@tocrmarg\relax
19646 \textit{#1}\protect\par}}}

```

## 122 File tocbasic-xetex-bidi.def

```

19647 \ProvidesFile{tocbasic-xetex-bidi.def}[2016/09/14 v0.2 bidi adaptations for tocbasic package]
19648 \bidi@undef\scr@dte@def@l@undottedtocline
19649 \bidi@undef\scr@dte@undottedtocline@init
19650 \DeclareTOCEntryStyle{undottedtocline}[{%
19651 \DefineTOCEntryLengthOption{indent}%
19652 {scr@tso@}{@indent}{entry indent}%
19653 \DefineTOCEntryLengthOption{numwidth}%
19654 {scr@tso@}{@numwidth}{entry number width}%
19655 \@ifundefined{#1tocdepth}{%
19656 \ifstr{#1}{part}{\@namedef{#1tocdepth}{-1}}{%
19657 \ifstr{#1}{chapter}{\@namedef{#1tocdepth}{0}}{%
19658 \ifstr{#1}{section}{\@namedef{#1tocdepth}{1}}{%
19659 \ifstr{#1}{subsection}{\@namedef{#1tocdepth}{2}}{%
19660 \ifstr{#1}{subsubsection}{\@namedef{#1tocdepth}{3}}{%
19661 \ifstr{#1}{paragraph}{\@namedef{#1tocdepth}{4}}{%
19662 \ifstr{#1}{subparagraph}{\@namedef{#1tocdepth}{5}}{%
19663 \ifstr{#1}{figure}{\@namedef{#1tocdepth}{1}}{%
19664 \ifstr{#1}{table}{\@namedef{#1tocdepth}{1}}{%
19665 \expandafter\let\csname #1tocdepth\expandafter\endcsname
19666 \csname #1numdepth\endcsname
19667 }%
19668 }%
19669 }%
19670 }%
19671 }%
19672 }%

```



```

19673     }%
19674   }%
19675 }%
19676 }{}%
19677 \@ifundefined{scr@tso@#1@indent}{%
19678   \@ifundefined{scr@#1@tocindent}{%
19679     \ifstr{#1}{figure}{\@namedef{scr@tso@#1@indent}{1.5em}}{%
19680       \ifstr{#1}{table}{\@namedef{scr@tso@#1@indent}{1.5em}}{%
19681         \ifstr{#1}{part}{\@namedef{scr@tso@#1@indent}{0em}}{%
19682           \ifstr{#1}{chapter}{\@namedef{scr@tso@#1@indent}{0em}}{%
19683             \scr@ifundefinedorrelax{1@chapter}{%
19684               \ifstr{#1}{section}{\@namedef{scr@tso@#1@indent}{0pt}}{%
19685                 \ifstr{#1}{subsection}{\@namedef{scr@tso@#1@indent}{1.5em}}{%
19686                   \ifstr{#1}{subsubsection}{%
19687                     \@namedef{scr@tso@#1@indent}{3.8em}%
19688                   }{%
19689                     \ifstr{#1}{paragraph}{%
19690                       \@namedef{scr@tso@#1@indent}{7em}%
19691                     }{%
19692                       \ifstr{#1}{subparagraph}{%
19693                         \@namedef{scr@tso@#1@indent}{10em}%
19694                       }{%
19695                         }%
19696                       }%
19697                     }%
19698                   }%
19699                 }%
19700               }{}%
19701               \ifstr{#1}{section}{\@namedef{scr@tso@#1@indent}{1.5em}}{%
19702                 \ifstr{#1}{subsection}{\@namedef{scr@tso@#1@indent}{3.8em}}{%
19703                   \ifstr{#1}{subsubsection}{%
19704                     \@namedef{scr@tso@#1@indent}{7.0em}%
19705                   }{%
19706                     \ifstr{#1}{paragraph}{%
19707                       \@namedef{scr@tso@#1@indent}{10em}%
19708                     }{%
19709                       \ifstr{#1}{subparagraph}{%
19710                         \@namedef{scr@tso@#1@indent}{12em}%
19711                       }{%
19712                         }%
19713                       }%
19714                     }%
19715                   }%
19716                 }%
19717               }%
19718             }%
19719           }%
19720         }%
19721       }%
19722     }{}%
19723     \@namedef{scr@tso@#1@indent}{\@nameuse{scr@#1@tocindent}}%
19724   }%
19725 }{}%
19726 \@ifundefined{scr@tso@#1@numwidth}{%

```





```

19727 \ifundefined{scr@#1@tocnumwidth}{%
19728 \ifstr{#1}{figure}{\@namedef{scr@tso@#1@numwidth}{2.3em}}{%
19729 \ifstr{#1}{table}{\@namedef{scr@tso@#1@numwidth}{2.3em}}{%
19730 \ifstr{#1}{chapter}{\@namedef{scr@tso@#1@numwidth}{1.5em}}{%
19731 \scr@ifundefinedorrelax{chapter}{%
19732 \ifstr{#1}{section}{\@namedef{scr@tso@#1@numwidth}{1.5em}}{%
19733 \ifstr{#1}{subsection}{\@namedef{scr@tso@#1@numwidth}{2.3em}}{%
19734 \ifstr{#1}{subsubsection}{%
19735 \@namedef{scr@tso@#1@numwidth}{3.2em}%
19736 }{%
19737 \ifstr{#1}{paragraph}{%
19738 \@namedef{scr@tso@#1@numwidth}{4.1em}%
19739 }{%
19740 \ifstr{#1}{subparagraph}{%
19741 \@namedef{scr@tso@#1@numwidth}{5m}%
19742 }{%
19743 }%
19744 }%
19745 }%
19746 }%
19747 }%
19748 }{%
19749 \ifstr{#1}{section}{\@namedef{scr@tso@#1@numwidth}{2.3em}}{%
19750 \ifstr{#1}{subsection}{\@namedef{scr@tso@#1@numwidth}{3.2em}}{%
19751 \ifstr{#1}{subsubsection}{%
19752 \@namedef{scr@tso@#1@numwidth}{3.1em}%
19753 }{%
19754 \ifstr{#1}{paragraph}{%
19755 \@namedef{scr@tso@#1@numwidth}{5em}%
19756 }{%
19757 \ifstr{#1}{subparagraph}{%
19758 \@namedef{scr@tso@#1@numwidth}{6em}%
19759 }{%
19760 }%
19761 }%
19762 }%
19763 }%
19764 }%
19765 }%
19766 }%
19767 }%
19768 }%
19769 }{%
19770 \@namedef{scr@tso@#1@numwidth}{\@nameuse{scr@#1@tocnumwidth}}%
19771 }%
19772 }{}%
19773 }]{%
19774 \ifnum \c@tocdepth >\numexpr \@nameuse{#1tocdepth}-\@ne\relax
19775 \ifnum \@nameuse{#1tocdepth}<\@ne
19776 \scr@ifundefinedorrelax{chapter}{%
19777 \addpenalty\@secpenalty
19778 \addvspace{1.0em \@plus\p}%
19779 }{%
19780 \addpenalty{-\@highpenalty}%

```



```

19781      \vskip 1.0em \@plus\p@
19782    }%
19783  \else
19784    \addpenalty\@secpenalty
19785    \addvspace{1.0em \@plus\p@}%
19786  \fi
19787  \setlength\@tempdima{\@nameuse{scr@tso@#1@numwidth}}%
19788  \begingroup
19789    \parindent \z@ \bidi@rightskip \@pnumwidth
19790    \parfillskip -\@pnumwidth
19791    \leavevmode
19792    \bfseries
19793    \advance\bidi@leftskip\@tempdima
19794    \advance\bidi@leftskip\@nameuse{scr@tso@#1@indent}%
19795    \hskip -\dimexpr \bidi@leftskip-\@nameuse{scr@tso@#1@indent}\relax
19796    ##1%
19797    \nobreak
19798    \hfil \nobreak\hb@xt@\@pnumwidth{\hss ##2}%
19799    \par
19800    \penalty\@highpenalty
19801  \endgroup
19802 \fi
19803 }
19804
19805 \bidi@undef\scr@dte@def@l@largetocline
19806 \bidi@undef\scr@dte@largetocline@init
19807 \DeclareTOCEntryStyle{largetocline}[{%
19808   \DefineTOCEntryLengthOption{indent}%
19809   {scr@tso@}{\@indent}{entry indent}%
19810   \@ifundefined{#1tocdepth}{%
19811     \ifstr{#1}{part}{\@namedef{#1tocdepth}{-1}}{%
19812       \ifstr{#1}{chapter}{\@namedef{#1tocdepth}{0}}{%
19813         \ifstr{#1}{section}{\@namedef{#1tocdepth}{1}}{%
19814           \ifstr{#1}{subsection}{\@namedef{#1tocdepth}{2}}{%
19815             \ifstr{#1}{subsubsection}{\@namedef{#1tocdepth}{3}}{%
19816               \ifstr{#1}{paragraph}{\@namedef{#1tocdepth}{4}}{%
19817                 \ifstr{#1}{subparagraph}{\@namedef{#1tocdepth}{5}}{%
19818                   \ifstr{#1}{figure}{\@namedef{#1tocdepth}{1}}{%
19819                     \ifstr{#1}{table}{\@namedef{#1tocdepth}{1}}{%
19820                       \expandafter\let\csname #1tocdepth\expandafter\endcsname
19821                         \csname #1numdepth\endcsname
19822                     }%
19823                   }%
19824                 }%
19825               }%
19826             }%
19827           }%
19828         }%
19829       }%
19830     }%
19831   }{%}%
19832   \@ifundefined{scr@tso@#1@indent}{%
19833     \@ifundefined{scr@#1@tocindent}{%
19834       \ifstr{#1}{figure}{\@namedef{scr@tso@#1@indent}{1.5em}}{%

```



```

19835 \ifstr{#1}{table}{\@namedef{scr@tso@#1@indent}{1.5em}}{%
19836 \ifstr{#1}{part}{\@namedef{scr@tso@#1@indent}{0em}}{%
19837 \ifstr{#1}{chapter}{\@namedef{scr@tso@#1@indent}{0em}}{%
19838 \scr@ifundefinedorrelax{1@chapter}{%
19839 \ifstr{#1}{section}{\@namedef{scr@tso@#1@indent}{0pt}}{%
19840 \ifstr{#1}{subsection}{\@namedef{scr@tso@#1@indent}{1.5em}}{%
19841 \ifstr{#1}{subsubsection}{%
19842 \@namedef{scr@tso@#1@indent}{3.8em}%
19843 }{%
19844 \ifstr{#1}{paragraph}{%
19845 \@namedef{scr@tso@#1@indent}{7em}%
19846 }{%
19847 \ifstr{#1}{subparagraph}{%
19848 \@namedef{scr@tso@#1@indent}{10em}%
19849 }{%
19850 }%
19851 }%
19852 }%
19853 }%
19854 }%
19855 }{%
19856 \ifstr{#1}{section}{\@namedef{scr@tso@#1@indent}{1.5em}}{%
19857 \ifstr{#1}{subsection}{\@namedef{scr@tso@#1@indent}{3.8em}}{%
19858 \ifstr{#1}{subsubsection}{%
19859 \@namedef{scr@tso@#1@indent}{7.0em}%
19860 }{%
19861 \ifstr{#1}{paragraph}{%
19862 \@namedef{scr@tso@#1@indent}{10em}%
19863 }{%
19864 \ifstr{#1}{subparagraph}{%
19865 \@namedef{scr@tso@#1@indent}{12em}%
19866 }{%
19867 }%
19868 }%
19869 }%
19870 }%
19871 }%
19872 }%
19873 }%
19874 }%
19875 }%
19876 }%
19877 }{%
19878 \@namedef{scr@tso@#1@indent}{\@nameuse{scr@#1@tocindent}}%
19879 }%
19880 }{}%
19881 }]{%
19882 \ifnum \c@tocdepth > \numexpr \@nameuse{#1@tocdepth} - \@ne \relax
19883 \ifnum \@nameuse{#1@tocdepth} < \@ne
19884 \scr@ifundefinedorrelax{chapter}{%
19885 \addpenalty\@secpenalty
19886 \addvspace{2.25em \@plus\p@}%
19887 }{%
19888 \addpenalty{-\@highpenalty}%

```



```

19889      \addvspace{2.25em \@plus\p@}%
19890    }%
19891  \else
19892    \addpenalty\@secpenalty
19893    \addvspace{2.25em \@plus\p@}%
19894  \fi
19895  \setlength\@tempdima{3em}%
19896  \beginngroup
19897    \parindent \z@ \bidi@rightskip \@pnumwidth
19898    \parfillskip -\@pnumwidth
19899    \leavevmode
19900    \large
19901    \bfseries
19902    \advance\bidi@leftskip\@nameuse{scr@tso@#1@indent}%
19903    ##1%
19904    \hfil \nobreak\hb@xt@\@pnumwidth{\hss ##2}%
19905    \par
19906    \nobreak
19907    \ifnum 0=
19908      \scr@ifundefinedorrelax{chapter}{\if@compatibility 1\else 0\fi}{1}\relax
19909      \global\@nobreaktrue
19910      \everypar{\global\@nobreakfalse\everypar{}}%
19911    \fi
19912  \endgroup
19913 \fi
19914 }
19915
19916 \renewcommand*{\scr@dte@tocline}[3]{%
19917   \ifnum \@nameuse{#1tocdepth}>\c@tocdepth
19918   \else
19919     \tocbasic@DependOnPenaltyAndTOCLevel{#1}%
19920     \addvspace{\@nameuse{scr@tso@#1@beforeskip}}\relax
19921     {%
19922       \bidi@leftskip \@nameuse{scr@tso@#1@indent}\relax
19923       \bidi@rightskip \@tocrmarg
19924       \parfillskip -\bidi@rightskip
19925       \@nameuse{Ifscr@tso@#1@raggedpage}{%
19926         \addtolength{\parfillskip}{\z@ \@plus 1fil}%
19927       }}%
19928       \parindent \@nameuse{scr@tso@#1@indent}\relax
19929       \@afterindenttrue
19930       \interlinepenalty\@M
19931       \expandafter\ifx\csname ragged#1entry\endcsname\raggedright
19932         \addtolength\bidi@rightskip\@flushglue
19933       \else
19934         \def\reserved@a{\raggedright}%
19935         \expandafter\ifx\csname ragged#1entry\endcsname\reserved@a
19936           \addtolength\bidi@rightskip\@flushglue
19937         \else
19938           \renewcommand\reserved@a{\raggedright}%
19939           \expandafter\ifx\csname ragged#1entry\endcsname\reserved@a
19940             \addtolength\bidi@rightskip\@flushglue
19941           \fi
19942         \fi

```



```

19943 \fi
19944 \leavevmode
19945 \@tempdima \@nameuse{scr@tso@#1@numwidth}\relax
19946 \@nameuse{Ifscr@tso@#1@dynnumwidth}{%
19947   \scr@ifundefinedorrelax{scr@dte@#1@lastmaxnumwidth}{}{%
19948     \ifdim \@nameuse{scr@dte@#1@lastmaxnumwidth}>\@tempdima
19949       \@tempdima\@nameuse{scr@dte@#1@lastmaxnumwidth}\relax
19950     \fi
19951   }%
19952 }{}%
19953 \advance\bidil@leftskip \@tempdima
19954 \null\nobreak\hskip -\bidil@leftskip
19955 {%
19956   \usetocbasicnumberline
19957   \let\scr@dte@numberline@box\numberline@box
19958   \def\numberline@box##1{%
19959     \sbox\scr@dte@tocline@numbox{\@nameuse{scr@tso@#1@numberformat}{##1}}%
19960     \global\scr@dte@tocline@numberwidth
19961     \dimexpr\wd\scr@dte@tocline@numbox+\@nameuse{scr@tso@#1@numsep}\relax
19962     \ifdim \scr@dte@tocline@numberwidth
19963       >\@nameuse{scr@dte@#1@maxnumwidth}\relax
19964     \global\@nameuse{scr@dte@#1@maxnumwidth}\scr@dte@tocline@numberwidth
19965   \fi
19966   \@nameuse{Ifscr@tso@#1@dynnumwidth}{}{%
19967     \ifdim \scr@dte@tocline@numberwidth
19968       >\dimexpr \@nameuse{scr@tso@#1@numwidth}%
19969       +\@nameuse{scr@tso@#1@numsep}\relax
19970     \PackageWarning{tocbasic}%
19971     }{%
19972       number width of #1 toc entries should be
19973       increased!\MessageBreak
19974       Currently used number width =
19975       \the\wd\scr@dte@tocline@numbox,\MessageBreak
19976       Wanted number separation
19977       \space\space\space =
19978       \the\dimexpr\@nameuse{scr@tso@#1@numsep}\relax,\MessageBreak
19979       Reserved number width \space\space\space\space\space =
19980       \the\dimexpr\@nameuse{scr@tso@#1@numwidth}\relax%
19981     }%
19982   \fi
19983 }%
19984 \scr@dte@numberline@box{\@nameuse{scr@tso@#1@numberformat}{##1}}%
19985 \@nameuse{Ifscr@tso@#1@breakafternumber}{%
19986   {\parfillskip\@flushglue\par}\nobreak\hskip-\bidil@leftskip
19987 }{}%
19988 }%
19989 \@nameuse{scr@tso@#1@entryformat}{%
19990   #2%
19991   \nobreak
19992   {%
19993     \normalfont\normalsize\@nameuse{scr@tso@#1@linefill}%
19994     \nobreak
19995     \@nameuse{scr@tso@#1@pagenumberbox}{%
19996       \@nameuse{scr@tso@#1@pagenumberformat}{#3}%

```



```

19997         }%
19998     }%
19999     \@par
20000 }%
20001 }%
20002 }%
20003 \tocbasic@SetPenaltyByTOCLevel{#1}%
20004 \fi
20005 }
20006
20007 \bidi@undef\scr@dte@def@1@tocline
20008 \bidi@undef\scr@dte@tocline@init
20009 \DeclareTOCEntryStyle{tocline}[{%
20010   \DefineTOCEntryLengthOption{beforeskip}%
20011     {scr@tso@}{@beforeskip}{vertical skip before the entry}%
20012   \DefineTOCEntryIfOption{breakafternumber}%
20013     {scr@tso@}{@breakafternumber}{line break after number flag}%
20014   \DefineTOCEntryIfOption{dynnumwidth}%
20015     {scr@tso@}{@dynnumwidth}{dynamic number width flag}%
20016   \DefineTOCEntryCommandOption{entryformat}%
20017     {scr@tso@}{@entryformat}[1]{entry format}%
20018   \DefineTOCEntryCommandOption{entrynumberformat}%
20019     {scr@tso@}{@numberformat}[1]{entry number format}%
20020   \DefineTOCEntryCommandOption{linefill}[{\TOCLineLeaderFill}]%
20021     {scr@tso@}{@linefill}{filling between text and page number}%
20022   \DefineTOCEntryLengthOption{numsep}%
20023     {scr@tso@}{@numsep}{entry number separation}%
20024   \DefineTOCEntryCommandOption{onstarthigherlevel}%
20025     {scr@tso@}{@LastTOCLevelWasLower}{start higher level entry hook}%
20026   \DefineTOCEntryCommandOption{onstartlowerlevel}%
20027     {scr@tso@}{@LastTOCLevelWasHigher}{start lower level entry hook}%
20028   \DefineTOCEntryCommandOption{onstartsamelevel}%
20029     {scr@tso@}{@LastTOCLevelWasSame}{start same level entry hook}%
20030   \DefineTOCEntryCommandOption{pagenumberbox}%
20031     {scr@tso@}{@pagenumberbox}[1]{page number box}%
20032   \DefineTOCEntryCommandOption{pagenumberformat}%
20033     {scr@tso@}{@pagenumberformat}[1]{page number format}%
20034   \DefineTOCEntryOption{raggedentrytext}[true]{%
20035     \FamilySetBool{KOMAAarg}{raggedentrytext}{@tempswa}{##1}%
20036     \ifx\FamilyKeyState\FamilyKeyStateProcessed
20037       \if@tempswa
20038         \expandafter\let\csname ragged\scr@dte@current entry\endcsname
20039           \raggedright
20040       \else
20041         \expandafter\let\csname ragged\scr@dte@current entry\endcsname
20042           \relax
20043       \fi
20044     \fi
20045   }%
20046   \DefineTOCEntryIfOption{raggedpagenumber}%
20047     {scr@tso@}{@raggedpage}{page number ragged flag}%
20048   \DefineTOCEntryLengthOption{indent}%
20049     {scr@tso@}{@indent}{entry indent}%
20050   \DefineTOCEntryLengthOption{numwidth}%

```



```

20051 {scr@tso@}{@numwidth}{entry number width}%
20052 \scr@ifundefinedorrelax{#1tocdepth}{%
20053   \ifstrstart{#1}{sub}{%
20054     \scr@ifundefinedorrelax{\scr@dte@nosub{#1}tocdepth}{}%
20055     \expandafter\edef\csname #1tocdepth\endcsname{%
20056       \the\numexpr \noexpand\@nameuse{\scr@dte@nosub{#1}tocdepth}+\@ne\relax
20057     }%
20058   }%
20059 }{}%
20060 }{}%
20061 \@ifundefined{#1tocdepth}{%
20062   \ifstr{#1}{part}{\@namedef{#1tocdepth}{-1}}{%
20063     \ifstr{#1}{chapter}{\@namedef{#1tocdepth}{0}}{%
20064       \ifstr{#1}{section}{\@namedef{#1tocdepth}{1}}{%
20065         \ifstr{#1}{subsection}{\@namedef{#1tocdepth}{2}}{%
20066           \ifstr{#1}{subsubsection}{\@namedef{#1tocdepth}{3}}{%
20067             \ifstr{#1}{paragraph}{\@namedef{#1tocdepth}{4}}{%
20068               \ifstr{#1}{subparagraph}{\@namedef{#1tocdepth}{5}}{%
20069                 \ifstr{#1}{figure}{\@namedef{#1tocdepth}{1}}{%
20070                   \ifstr{#1}{table}{\@namedef{#1tocdepth}{1}}{%
20071                     \expandafter\let\csname #1tocdepth\endcsname
20072                     \csname #1numdepth\endcsname
20073                   }%
20074                 }%
20075               }%
20076             }%
20077           }%
20078         }%
20079       }%
20080     }%
20081   }%
20082 }{}%
20083 \scr@ifundefinedorrelax{scr@tso@#1@indent}{%
20084   \@ifundefined{scr@#1@tocindent}{%
20085     \ifstrstart{#1}{sub}{%
20086       \scr@ifundefinedorrelax{scr@tso@\scr@dte@nosub{#1}@indent}{%
20087         \scr@ifundefinedorrelax{scr@tso@\scr@dte@nosub{#1}@numwidth}{}%
20088         \expandafter\edef\csname scr@tso@#1@indent\endcsname{%
20089           \glueexpr \noexpand\@nameuse{scr@tso@\scr@dte@nosub{#1}@numwidth}}%
20090         \relax
20091       }%
20092     }%
20093   }{%
20094     \scr@ifundefinedorrelax{scr@tso@\scr@dte@nosub{#1}@numwidth}{%
20095       \expandafter\edef\csname scr@tso@#1@indent\endcsname{%
20096         \glueexpr \noexpand\@nameuse{scr@tso@\scr@dte@nosub{#1}@indent}}%
20097       \relax
20098     }%
20099   }{%
20100     \expandafter\edef\csname scr@tso@#1@indent\endcsname{%
20101       \glueexpr \noexpand\@nameuse{scr@tso@\scr@dte@nosub{#1}@indent}}%
20102       +\noexpand\@nameuse{scr@tso@\scr@dte@nosub{#1}@numwidth}}%
20103     \relax
20104   }%

```



```

20105         }%
20106     }%
20107 }{}%
20108 }{%
20109     \@namedef{scr@tso@#1@indent}{\@nameuse{scr@#1@tocindent}}%
20110 }%
20111 }{}%
20112 \@ifundefined{scr@tso@#1@indent}{%
20113     \ifstr{#1}{figure}{\@namedef{scr@tso@#1@indent}{1.5em}}{%
20114         \ifstr{#1}{table}{\@namedef{scr@tso@#1@indent}{1.5em}}{%
20115             \ifstr{#1}{part}{\@namedef{scr@tso@#1@indent}{0em}}{%
20116                 \ifstr{#1}{chapter}{\@namedef{scr@tso@#1@indent}{0em}}{%
20117                     \scr@ifundefinedorrelax{l@chapter}{%
20118                         \ifstr{#1}{section}{\@namedef{scr@tso@#1@indent}{Opt}}{%
20119                             \ifstr{#1}{subsection}{\@namedef{scr@tso@#1@indent}{1.5em}}{%
20120                                 \ifstr{#1}{subsubsection}{%
20121                                     \@namedef{scr@tso@#1@indent}{3.8em}%
20122                                 }{%
20123                                     \ifstr{#1}{paragraph}{%
20124                                         \@namedef{scr@tso@#1@indent}{7em}%
20125                                     }{%
20126                                         \ifstr{#1}{subparagraph}{%
20127                                             \@namedef{scr@tso@#1@indent}{10em}%
20128                                         }{%
20129                                             }%
20130                                         }%
20131                                     }%
20132                                 }%
20133                             }%
20134                         }{}%
20135                     \ifstr{#1}{section}{\@namedef{scr@tso@#1@indent}{1.5em}}{%
20136                         \ifstr{#1}{subsection}{\@namedef{scr@tso@#1@indent}{3.8em}}{%
20137                             \ifstr{#1}{subsubsection}{%
20138                                 \@namedef{scr@tso@#1@indent}{7.0em}%
20139                             }{%
20140                                 \ifstr{#1}{paragraph}{%
20141                                     \@namedef{scr@tso@#1@indent}{10em}%
20142                                 }{%
20143                                     \ifstr{#1}{subparagraph}{%
20144                                         \@namedef{scr@tso@#1@indent}{12em}%
20145                                     }{%
20146                                         }%
20147                                     }%
20148                                 }%
20149                             }%
20150                         }%
20151                     }%
20152                 }%
20153             }%
20154         }%
20155     }%
20156 }{}%
20157 \scr@ifundefinedorrelax{scr@tso@#1@numwidth}{%
20158     \scr@ifundefinedorrelax{scr@#1@tocnumwidth}{%

```





```

20159 \ifstrstart{#1}{sub}{%
20160 \scr@ifundefinedorrelax{scr@tso@\scr@dte@nosub{#1}@numwidth}{%}{%
20161 \expandafter\edef\csname scr@tso@#1@numwidth\endcsname{%
20162 \glueexpr \noexpand\@nameuse{scr@tso@\scr@dte@nosub{#1}@numwidth}%
20163 +.9em%
20164 \relax
20165 }%
20166 }%
20167 }{}%
20168 }{%
20169 \@namedef{scr@tso@#1@numwidth}{\@nameuse{scr@#1@tocnumwidth}}%
20170 }%
20171 }{}%
20172 \@ifundefined{scr@tso@#1@numwidth}{%
20173 \ifstr{#1}{figure}{\@namedef{scr@tso@#1@numwidth}{2.3em}}{%
20174 \ifstr{#1}{table}{\@namedef{scr@tso@#1@numwidth}{2.3em}}{%
20175 \ifstr{#1}{chapter}{\@namedef{scr@tso@#1@numwidth}{1.5em}}{%
20176 \scr@ifundefinedorrelax{chapter}{%
20177 \ifstr{#1}{section}{\@namedef{scr@tso@#1@numwidth}{1.5em}}{%
20178 \ifstr{#1}{subsection}{\@namedef{scr@tso@#1@numwidth}{2.3em}}{%
20179 \ifstr{#1}{subsubsection}{%
20180 \@namedef{scr@tso@#1@numwidth}{3.2em}%
20181 }{%
20182 \ifstr{#1}{paragraph}{%
20183 \@namedef{scr@tso@#1@numwidth}{4.1em}%
20184 }{%
20185 \ifstr{#1}{subparagraph}{%
20186 \@namedef{scr@tso@#1@numwidth}{5m}%
20187 }{%
20188 }%
20189 }%
20190 }%
20191 }%
20192 }%
20193 }{%
20194 \ifstr{#1}{section}{\@namedef{scr@tso@#1@numwidth}{2.3em}}{%
20195 \ifstr{#1}{subsection}{\@namedef{scr@tso@#1@numwidth}{3.2em}}{%
20196 \ifstr{#1}{subsubsection}{%
20197 \@namedef{scr@tso@#1@numwidth}{3.1em}%
20198 }{%
20199 \ifstr{#1}{paragraph}{%
20200 \@namedef{scr@tso@#1@numwidth}{5em}%
20201 }{%
20202 \ifstr{#1}{subparagraph}{%
20203 \@namedef{scr@tso@#1@numwidth}{6em}%
20204 }{%
20205 }%
20206 }%
20207 }%
20208 }%
20209 }%
20210 }%
20211 }%
20212 }%

```



```

20213     }%
20214 }{}%
20215 \expandafter\renewcommand%
20216 \csname scr@tso@#1@LastTOCLevelWasLower\endcsname{\LastTOCLevelWasLower}%
20217 \expandafter\renewcommand%
20218 \csname scr@tso@#1@LastTOCLevelWasSame\endcsname{\LastTOCLevelWasSame}%
20219 \expandafter\renewcommand%
20220 \csname scr@tso@#1@LastTOCLevelWasHigher\endcsname{\LastTOCLevelWasHigher}%
20221 \@ifundefined{scr@tso@#1@beforeskip}{%
20222   \ifstr{#1}{part}{%
20223     \@namedef{scr@tso@#1@beforeskip}{\glueexpr 2.25em \@plus\p@relax}%
20224   }{%
20225     \ifstr{#1}{chapter}{%
20226       \@namedef{scr@tso@#1@beforeskip}{\glueexpr 1.0em \@plus\p@relax}%
20227     }%
20228     \ifstr{#1}{section}{%
20229       \scr@ifundefinedorrelax{1@chapter}{%
20230         \@namedef{scr@tso@#1@beforeskip}{\glueexpr 1.0em \@plus\p@relax}%
20231       }{}%
20232     }{}%
20233   }%
20234 }%
20235 \expandafter\renewcommand\expandafter*%
20236 \csname scr@tso@#1@beforeskip\endcsname{\glueexpr \z@ plus .2\p@relax}%
20237 }{}%
20238 \@ifundefined{scr@dte@#1@maxnumwidth}{%
20239   \expandafter\newlength\csname scr@dte@#1@maxnumwidth\endcsname
20240   \setlength{\@nameuse{scr@dte@#1@maxnumwidth}}{\z@}%
20241 }{}%
20242 \renewcommand*{\scr@dte@donumwidth}{}%
20243 \g@addto@macro{\scr@dte@donumwidth}{\do{#1}}%
20244 \expandafter\renewcommand\expandafter*%
20245 \csname scr@tso@#1@numsep\endcsname{.4em}%
20246 \expandafter\renewcommand%
20247 \csname scr@tso@#1@numberformat\endcsname[1]{##1}%
20248 \ifstr{#1}{part}{%
20249   \expandafter\renewcommand%
20250   \csname scr@tso@#1@entryformat\endcsname[1]{\large\bfseries ##1}%
20251 }{%
20252   \ifstr{#1}{chapter}{%
20253     \expandafter\renewcommand%
20254     \csname scr@tso@#1@entryformat\endcsname[1]{\bfseries ##1}%
20255   }{%
20256     \scr@ifundefinedorrelax{1@chapter}{%
20257       \ifstr{#1}{section}{%
20258         \expandafter\renewcommand%
20259         \csname scr@tso@#1@entryformat\endcsname[1]{\bfseries ##1}%
20260       }{}%
20261     }{}%
20262     \expandafter\renewcommand%
20263     \csname scr@tso@#1@entryformat\endcsname[1]{##1}%
20264   }%
20265 }%
20266 \expandafter\renewcommand

```



```

20267 \csname Ifscr@tso@#1@breakafternumber\endcsname[2]{##2}%
20268 \@ifundefined{scr@tso@#1@linefill}{%
20269   \ifstr{#1}{part}{%
20270     \@namedef{scr@tso@#1@linefill}{\hfill}%
20271   }{%
20272     \ifstr{#1}{chapter}{%
20273       \@namedef{scr@tso@#1@linefill}{\hfill}%
20274     }{%
20275       \scr@ifundefinedorrelax{1@chapter}{%
20276         \ifstr{#1}{section}{%
20277           \@namedef{scr@tso@#1@linefill}{\hfill}%
20278         }{}
20279       }{}
20280       \expandafter\renewcommand%
20281       \csname scr@tso@#1@linefill\endcsname{\TOCLineLeaderFill\relax}%
20282     }%
20283   }%
20284 }{}%
20285 \expandafter\renewcommand\csname Ifscr@tso@#1@raggedpage\endcsname[2]{##2}%
20286 \ifstr{#1}{part}{%
20287   \expandafter\renewcommand%
20288   \csname scr@tso@#1@pagenumberformat\endcsname[1]{\large\bfseries ##1}%
20289 }{%
20290   \expandafter\renewcommand%
20291   \csname scr@tso@#1@pagenumberformat\endcsname[1]{%
20292     {\normalfont\normalcolor ##1}}%
20293 }%
20294 \expandafter\renewcommand%
20295 \csname scr@tso@#1@pagenumberbox\endcsname[1]{%
20296   \hb@xt@{\@pnumwidth}{\hfil ##1}}%
20297 \expandafter\renewcommand\csname Ifscr@tso@#1@dynnumwidth\endcsname[2]{##2}%
20298 }]{%
20299   \scr@dte@tocline{#1}{##1}{##2}%
20300 }
20301

```

## 123 File tocstyle-xetex-bidi.def

```

20302 \ProvidesFile{tocstyle-xetex-bidi.def}[2010/07/25 v0.1 bidi adaptations for tocstyle package]
20303 \renewcommand*{\tocstyle@dottedtocline}[5]{%
20304   \let\numberline\tocstyle@numberline
20305   \ifnum #1>\c@tocdepth \else
20306     \if@tocstyle@penalties
20307       \begingroup
20308         \@tempcnta 20010
20309         \advance \@tempcnta by -#1
20310         \ifnum \@tempcnta>\lastpenalty
20311           \aftergroup\penalty\aftergroup\@lowpenalty
20312         \fi
20313       \endgroup
20314     \fi
20315     \edef\tocstyledepth{#1}%
20316     \tocstyle@activate@features
20317     \ifx\tocstyle@feature@entryvskip\relax

```



```

20318 \vskip \z@ \@plus.2\p@
20319 \else
20320 \addvspace{\tocstyle@feature@entry\vskip}%
20321 \fi
20322 {%
20323 \parskip \z@ \parindent \z@ \if@RTL\righskip\else\leftskip\fi \z@ \if@RTL\leftskip\el
20324 \tocstyle@feature@raggedhook
20325 \@tempdima #3\relax
20326 \@tempdimb #2\relax
20327 \typeout{m (\tocstyleTOC, \tocstyledepth): \the\@tempdima}%
20328 \ifnum #1>\z@\relax
20329 \@tempcnta #1\relax \advance\@tempcnta \m@ne
20330 \ifcsname tocstyle@skipwidth@\tocstyleTOC @\the\@tempcnta\endcsname
20331 \ifcsname tocstyle@numwidth@\tocstyleTOC @\the\@tempcnta\endcsname
20332 \@tempdimb
20333 \csname tocstyle@skipwidth@\tocstyleTOC @\the\@tempcnta\endcsname
20334 \advance\@tempdimb
20335 \csname tocstyle@numwidth@\tocstyleTOC @\the\@tempcnta\endcsname
20336 \fi
20337 \fi
20338 \fi
20339 \typeout{C (\tocstyleTOC, \tocstyledepth): \the\@tempdimb}%
20340 \ifcsname tocstyle@skipwidth@\tocstyleTOC @#1\endcsname
20341 \ifdim \@tempdimb>
20342 \csname tocstyle@skipwidth@\tocstyleTOC @#1\endcsname\relax
20343 \expandafter\xdef\csname tocstyle@skipwidth@\tocstyleTOC
20344 @#1\endcsname{\the\@tempdimb}%
20345 \fi
20346 \else
20347 \expandafter\xdef\csname tocstyle@skipwidth@\tocstyleTOC
20348 @#1\endcsname{\the\@tempdimb}%
20349 \fi
20350 \iftocstyle@autolength
20351 \ifcsname tocstyle@maxskipwidth@\tocstyleTOC @#1\endcsname
20352 \@tempdimb \csname tocstyle@maxskipwidth@\tocstyleTOC @#1\endcsname
20353 \relax
20354 \fi
20355 \ifcsname tocstyle@maxnumwidth@\tocstyleTOC @#1\endcsname
20356 \@tempdima \csname tocstyle@maxnumwidth@\tocstyleTOC @#1\endcsname
20357 \relax
20358 \fi
20359 \typeout{a (\tocstyleTOC, \tocstyledepth): \the\@tempdima}%
20360 \typeout{A (\tocstyleTOC, \tocstyledepth): \the\@tempdimb}%
20361 \else
20362 \@tempdimb #2\relax
20363 \typeout{M (\tocstyleTOC, \tocstyledepth): \the\@tempdimb}%
20364 \fi
20365 \ifcsname tocstyle@unumwidth@\tocstyleTOC @\endcsname
20366 \ifdim \@tempdima>
20367 \csname tocstyle@unumwidth@\tocstyleTOC @\endcsname\relax
20368 \expandafter\xdef\csname tocstyle@unumwidth@\tocstyleTOC
20369 @\endcsname{\the\@tempdima}%
20370 \fi
20371 \else

```



```

20372     \expandafter\edef\csname tocstyle@unumwidth@\tocstyleTOC
20373     @\endcsname{\the\@tempdima}%
20374 \fi
20375 \ifcase\tocstyle@indentstyle\relax\else
20376     \@tempdimb \z@
20377     \ifcsname tocstyle@maxunumwidth@\tocstyleTOC @\endcsname
20378     \@tempdima \csname tocstyle@maxunumwidth@\tocstyleTOC @\endcsname
20379     \relax
20380 \fi
20381     \typeout{s (\tocstyleTOC, \tocstyledepth): \the\@tempdima}%
20382     \typeout{S (\tocstyleTOC, \tocstyledepth): \the\@tempdimb}%
20383 \fi
20384 \advance\parindent \@tempdimb\@afterindenttrue
20385 \advance\if@RTL\righskip\else\leftskip\fi \parindent
20386 \advance\if@RTL\leftskip\else\righskip\fi \@tocrmarg
20387 \parfillskip -\if@RTL\leftskip\else\righskip\fi
20388 \ifx\tocstyle@feature@parfillskip\relax\else
20389     \advance\parfillskip \tocstyle@feature@parfillskip\relax
20390 \fi
20391 \interlinepenalty\@M
20392 \leavevmode
20393 \advance\if@RTL\righskip\else\leftskip\fi \@tempdima
20394 \null\nobreak
20395 \iftocstyle@indentnotnumbered\else
20396     \hskip -\if@RTL\righskip\else\leftskip\fi
20397 \fi
20398 \tocstyle@feature@entryhook
20399 {#4}\nobreak
20400 \ifx\tocstyle@feature@leaders\relax
20401     \leaders\hbox{$\m@th
20402         \mkern \@dotsep mu\hbox{\tocstyle@feature@dotohook .}%
20403         \mkern \@dotsep mu$}\hfill
20404 \else
20405     \tocstyle@feature@leaders
20406 \fi
20407 \nobreak
20408 \ifx\tocstyle@feature@pagenumberbox\relax
20409     \hb@xt@\@pnumwidth{\hfil\tocstyle@feature@pagenumberhook #5}%
20410 \else
20411     \tocstyle@feature@pagenumberbox{\tocstyle@feature@pagenumberhook #5}%
20412 \fi
20413 \par
20414 }%
20415 \iftocstyle@penalties
20416     \bgroup
20417     \@tempcnta 20009
20418     \advance\@tempcnta by -#1
20419     \edef\reserved@a{\egroup\penalty\the\@tempcnta\relax}%
20420     \reserved@a
20421 \fi
20422 \fi}
20423 \renewcommand*{\tocstyle@numberline}[1]{%
20424 \begingroup
20425     \ifx\tocstyle@feature@spaceafternumber\relax

```



```

20426 \settowidth\@tempdima{\tocstyle@@numberline{#1}\enskip}%
20427 \else
20428 \settowidth\@tempdima{\tocstyle@@numberline{#1}}%
20429 \advance \@tempdima \tocstyle@feature@spaceafternumber\relax
20430 \fi
20431 \ifcsname tocstyle@numwidth@\tocstyleTOC @\tocstyledepth\endcsname
20432 \ifdim \@tempdima >
20433 \csname tocstyle@numwidth@\tocstyleTOC @\tocstyledepth\endcsname\relax
20434 \expandafter\xdef\csname tocstyle@numwidth@\tocstyleTOC
20435 @\tocstyledepth\endcsname{\the\@tempdima}%
20436 \fi
20437 \else
20438 \expandafter\xdef\csname tocstyle@numwidth@\tocstyleTOC
20439 @\tocstyledepth\endcsname{\the\@tempdima}%
20440 \fi
20441 \endgroup
20442 \iftocstyle@indentnotnumbered
20443 \hskip -\if@RTL\rightskip\else\leftskip\fi
20444 \fi
20445 \ifcase \tocstyle@indentstyle
20446 \hb@xt@\@tempdima{\tocstyle@@numberline{#1}\hfil}%
20447 \or
20448 \hb@xt@\@tempdima{\tocstyle@@numberline{#1}\hfil}%
20449 \else
20450 \ifx\tocstyle@feature@spaceafternumber\relax
20451 \hbox{\tocstyle@@numberline{#1}\enskip}%
20452 \else
20453 \hbox{\tocstyle@@numberline{#1}\hskip
20454 \tocstyle@feature@spaceafternumber\relax}%
20455 \fi
20456 \fi
20457 }
20458 \AtBeginDocument{%
20459 \ifcsname l@part\endcsname
20460 \ifcsname l@chapter\endcsname
20461 \setbox\@tempboxa\vbox{\hsize\maxdimen
20462 \l@part{\tocstyle@l@define{part}{-1}}{}}%
20463 \else
20464 \setbox\@tempboxa\vbox{\hsize\maxdimen
20465 \l@part{\tocstyle@l@define{part}{0}}{}}%
20466 \fi
20467 \fi
20468 \ifcsname l@chapter\endcsname
20469 \setbox\@tempboxa\vbox{\hsize\maxdimen
20470 \l@chapter{\tocstyle@l@define{chapter}{0}}{}}%
20471 \fi
20472 \ifcsname l@section\endcsname
20473 \setbox\@tempboxa\vbox{\hsize\maxdimen
20474 \l@section{\tocstyle@l@define{section}{1}}{}}%
20475 \fi
20476 \ifcsname l@subsection\endcsname
20477 \setbox\@tempboxa\vbox{\hsize\maxdimen
20478 \l@subsection{\tocstyle@l@define{subsection}{2}}{}}%
20479 \fi

```



```

20480 \ifcsname l@subsubsection\endcsname
20481   \setbox\@tempboxa\vbox{\hsize\maxdimen
20482     \l@subsubsection{\tocstyle@l@define{subsubsection}{3}}{}}%
20483 \fi
20484 \ifcsname l@paragraph\endcsname
20485   \setbox\@tempboxa\vbox{\hsize\maxdimen
20486     \l@paragraph{\tocstyle@l@define{paragraph}{4}}{}}%
20487 \fi
20488 \ifcsname l@subparagraph\endcsname
20489   \setbox\@tempboxa\vbox{\hsize\maxdimen
20490     \l@subparagraph{\tocstyle@l@define{subparagraph}{5}}{}}%
20491 \fi
20492 \ifcsname l@table\endcsname
20493   \setbox\@tempboxa\vbox{\hsize\maxdimen
20494     \l@table{\tocstyle@l@define{table}{1}}{}}%
20495 \fi
20496 \ifcsname l@figure\endcsname
20497   \setbox\@tempboxa\vbox{\hsize\maxdimen
20498     \l@figure{\tocstyle@l@define{figure}{1}}{}}%
20499 \fi
20500 \def\@tempa#1#2#3#4#5{%
20501   \ifnum #1>\c@tocdepth \else
20502     \vskip \z@ \@plus.2\p@
20503     {\if@RTL\rightskip\else\leftskip\fi #2\relax \if@RTL\leftskip\else\rightskip\fi \@tocdepth
20504     \parindent #2\relax\@afterindenttrue
20505     \interlinepenalty\@M
20506     \leavevmode
20507     \@tempdima #3\relax
20508     \advance\if@RTL\rightskip\else\leftskip\fi \@tempdima \null\nobreak\hskip -\if@RTL\rightskip
20509     {#4}\nobreak
20510     \leaders\hbox{$\m@th
20511       \mkern \dotsep mu\hbox{.}\mkern \dotsep
20512       mu$}\hfill
20513     \nobreak
20514     \hb@xt@\@pnumwidth{{\hfil \normalfont \normalcolor #5}}%
20515     \par}%
20516 \fi}%
20517 \ifx\@dottedtocline\@tempa\else
20518   \tocstyle@macrochangewarning\@dottedtocline
20519 \fi
20520 \let\tocstyle@saved@dottedtocline\@dottedtocline
20521 \def\@tempa#1{\hb@xt@\@tempdima{#1\autodot\hfil}}%
20522 \ifx\numberline\@tempa\else
20523   \def\@tempa#1{\hb@xt@\@tempdima{#1\hfil}}%
20524 \fi
20525 \ifx\numberline\@tempa\else
20526   \tocstyle@macrochangewarning\numberline
20527 \fi
20528 \let\tocstyle@saved@numberline\numberline
20529 }
20530 \renewcommand*{\tocstyle@l@define}[2]{%
20531   \advance\if@RTL\rightskip\else\leftskip\fi-\@tempdima
20532   \edef\@tempa{%
20533     \noexpand\global\noexpand\let

```



```

20534 \expandafter\noexpand\csname tocstyle@saved@l@#1\endcsname
20535 \expandafter\noexpand\csname l@#1\endcsname
20536 \noexpand\gdef
20537 \expandafter\noexpand\csname tocstyle@l@#1\endcsname{%
20538 \noexpand\@dottedtocline{#2}{\the\if@RTL\rightskip\else\leftskip\fi}{\the\@tempdima}}%
20539 \noexpand\g@addto@macro\noexpand\tocstyle@activate@all@l{%
20540 \noexpand\let\expandafter\noexpand\csname l@#1\endcsname
20541 \expandafter\noexpand\csname tocstyle@l@#1\endcsname
20542 }%
20543 }%
20544 \PackageInfo{tocstyle}{prepare \expandafter\string
20545 \csname l@#1\endcsname\space for redefinition}%
20546 \@tempa
20547 }

```

## 124 File todonotes-xetex-bidi.def

```

20548 \ProvidesFile{todonotes-xetex-bidi.def}[2016/11/08 v0.4 bidi adaptations for todonotes packa
20549 \newif\if@bidi@todonotes@textdirection@RTL
20550 \newif\if@bidi@todonotes@figposition@right
20551 \newcommand{\@bidi@todonotes@align}{}%
20552 \define@key{todonotes}{align}{\renewcommand{\@bidi@todonotes@align}{#1}}%
20553 \newcommand{\@bidi@todonotes@textdirection}{}%
20554 \define@choicekey{todonotes}{textdirection}[\bidi@todonotes@tempa\bidi@todonotes@tempb]{right,
20555 \ifcase\bidi@todonotes@tempb\relax
20556 \@bidi@todonotes@textdirection@RTLtrue
20557 \let\@bidi@todonotes@textdirection\RLE
20558 \or
20559 \@bidi@todonotes@textdirection@RTLfalse
20560 \let\@bidi@todonotes@textdirection\LRE
20561 \fi}
20562 \define@choicekey{todonotes}{figposition}[\bidi@todonotes@tempa\bidi@todonotes@tempb]{right,
20563 \ifcase\bidi@todonotes@tempb\relax
20564 \@bidi@todonotes@figposition@righttrue
20565 \or
20566 \@bidi@todonotes@figposition@rightfalse
20567 \fi}
20568 \if@todonotes@disabled%
20569 \else % \if@todonotes@disabled
20570 \renewcommand{\@todonotes@drawInlineNote}{%
20571 \if@todonotes@dviStyle%
20572 {\par\noindent\begin{tikzpicture}[remember picture]%
20573 \draw node[inlinenotestyle] {};\end{tikzpicture}\par}%
20574 \if@todonotes@authorgiven%
20575 {\noindent \@todonotes@sizecommand \@todonotes@author:\,\@todonotes@text}%
20576 \else%
20577 {\noindent \@todonotes@sizecommand \@todonotes@text}%
20578 \fi
20579 {\par\noindent\begin{tikzpicture}[remember picture]%
20580 \draw node[inlinenotestyle] {};\end{tikzpicture}\par}%
20581 \else%
20582 {\par\noindent\begin{tikzpicture}[remember picture]%
20583 \if@bidi@todonotes@textdirection@RTL\setRTL\fi%
20584 \draw node[inlinenotestyle,font=\@todonotes@sizecommand,align=\@bidi@todonotes@

```





```

20585         \if@todonotes@authorgiven%
20586             {\noindent \@todonotes@sizecommand \@todonotes@author:\,\@todonotes@text%
20587             \else%
20588                 {\noindent \@todonotes@sizecommand \@todonotes@text}%
20589             \fi};%
20590         \end{tikzpicture}\par}%
20591     \fi}%
20592 \renewcommand{\@todonotes@drawMarginNoteWithLine}{%
20593 \begin{tikzpicture}[remember picture, overlay, baseline=-0.75ex]%
20594     \node [coordinate] (inText) {};%
20595 \end{tikzpicture}%
20596 \marginpar[{\% Draw note in left margin
20597     \@todonotes@drawMarginNote%
20598     \if@RTL\@todonotes@drawLineToRightMargin\else\@todonotes@drawLineToLeftMargin\fi%
20599 }]{\% Draw note in right margin
20600     \@todonotes@drawMarginNote%
20601     \if@RTL\@todonotes@drawLineToLeftMargin\else\@todonotes@drawLineToRightMargin\fi%
20602 }%
20603 }%
20604 \renewcommand{\@todonotes@drawMarginNote}{%
20605 \if@todonotes@dviStyle%
20606     \begin{tikzpicture}[remember picture]%
20607         \draw node[notestyle] {};%
20608     \end{tikzpicture}\\%
20609     \begin{minipage}{\@todonotes@textwidth}%
20610         \if@todonotes@authorgiven%
20611             \@todonotes@sizecommand \@todonotes@author \@todonotes@text%
20612         \else%
20613             \@todonotes@sizecommand \@todonotes@text%
20614         \fi%
20615     \end{minipage}\\%
20616     \begin{tikzpicture}[remember picture]%
20617         \draw node[notestyle] (inNote) {};%
20618     \end{tikzpicture}%
20619 \else%
20620     \let\originalHbadness\hbadness%
20621     \hbadness 10000%
20622     \begin{tikzpicture}[remember picture,baseline=(X.base)]%
20623         \if@bidi@todonotes@textdirection@RTL\setRTL\fi%
20624         \node(X){\vphantom{X}};%
20625         \draw node[notestyle,font=\@todonotes@sizecommand,anchor=north,align=\@bidi@todonotes@textdirection]{\@todonotes@text};%
20626         \if@todonotes@authorgiven%
20627             \draw node[notestyle,font=\@todonotes@sizecommand,anchor=north,align=\@bidi@todonotes@textdirection]{\@todonotes@sizecommand \@todonotes@author};%
20628             \node(Y)[below=of X]{};%
20629             \draw node[notestyle,font=\@todonotes@sizecommand,anchor=north,align=\@bidi@todonotes@textdirection]{\@todonotes@text};%
20630         \else%
20631             \draw node[notestyle,font=\@todonotes@sizecommand,anchor=north,align=\@bidi@todonotes@textdirection]{\@todonotes@text};%
20632         \fi%
20633     \end{tikzpicture}%
20634     \hbadness \originalHbadness%

```



```

20639 \fi}%
20640 \renewcommand{\missingfigure}[2] [] {%
20641 \setkeys{todonotes}{#1}%
20642 \addcontentsline{tdo}{todo}{\@todonotes@MissingFigureText: #2}%
20643 \par
20644 \noindent
20645 \begin{tikzpicture}
20646 \draw[fill=\@todonotes@currentfigcolor, draw = black!40, line width=2pt]
20647 (-2, -2.5) rectangle +(\@todonotes@currentfigwidth, \@todonotes@currentfigheight);
20648 \if@bidi@todonotes@figposition@right%
20649 \begin{scope}[xshift=\@todonotes@currentfigwidth-4cm]
20650 \fi%
20651 \draw[red, fill=white, rounded corners = 5pt, line width=10pt]
20652 (30:2cm) -- (150:2cm) -- (270:2cm) -- cycle;
20653 \if@bidi@todonotes@figposition@right%
20654 \end{scope}
20655 \begin{scope}[xshift=-3.8cm]
20656 \fi%
20657 \if@bidi@todonotes@textdirection@RTL\setRTL\fi%
20658 \draw (2, -0.3) node[right, text
20659 width=\@todonotes@currentfigwidth-4.5cm, align=\@bidi@todonotes@align] {#2};
20660 \if@bidi@todonotes@figposition@right%
20661 \end{scope}
20662 \begin{scope}[xshift=\@todonotes@currentfigwidth-4cm]
20663 \fi%
20664 \draw (0, 0.3) node[align=\@bidi@todonotes@align] {\@bidi@todonotes@textdirection{\@todonotes@
20665 \draw (0, -0.3) node[align=\@bidi@todonotes@align] {\@bidi@todonotes@textdirection{\@todonotes@
20666 \if@bidi@todonotes@figposition@right%
20667 \end{scope}
20668 \fi%
20669 \end{tikzpicture}}\hfill
20670 }% Ending \missingfigure command
20671 \fi % Ending \@todonotes@ifdisabled
20672 \presetkeys%
20673 {todonotes}%
20674 {align=left,%
20675 textdirection=lefttoright,%
20676 figposition=left}{}%

```

## 125 File wrapfig-xetex-bidi.def

```

20677 \ProvidesFile{wrapfig-xetex-bidi.def}[2014/04/23 v0.3 bidi adaptations for wrapfig package f
20678 \let\WF@everypar\@everypar
20679 \def\WF@putfigmaybe{%
20680 \ifinner
20681 \vskip-\parskip \global\WF@floatfalse
20682 \let\pagetotal\maxdimen % kludge flag for "not top of page"
20683 \else % outer page
20684 \@tempdima\pagedepth % save page depth
20685 {\advance\parskip\@tempdima\ifRTL\advance\parskip\baselineskip\fi\vskip-\parskip}% back
20686 \penalty\interlinepenalty % update pg. parameters
20687 \@tempdima\pagegoal \advance\@tempdima-\pagetotal % room left on page
20688 \ifdim\@tempdima<\z@ % \WF@info{Page overfull already;}%
20689 \global\WF@floatfalse

```



```

20690 \ifdim-\@tempdimb>\pageshrink \else \pagebreak \fi
20691 \else
20692 \ifdim\WF@size>\@tempdimb
20693 \ifWF@float \dimen@.5\baselineskip \else \dimen@ 2\baselineskip\fi
20694 \ifdim\pagestretch>\dimen@ \dimen@\pagestretch \fi
20695 \ifdim\pagefilstretch>\z@ \dimen@\@tempdimb \fi
20696 \ifdim\pagefillstretch>\z@ \dimen@\@tempdimb \fi
20697 \advance\dimen@.5\baselineskip
20698 \ifdim\dimen@>\@tempdimb % \WF@info{Page nearly full; can stretch}%
20699 \global\WF@floatfalse \pagebreak
20700 \fi
20701 \else % \WF@info{Fits in \the\@tempdimb;}%
20702 \global\WF@floatfalse
20703 \fi\fi
20704 \vskip\@tempdima\relax % (return erased page depth)
20705 \fi
20706 \noindent
20707 \ifWF@float
20708 \WF@fltnes
20709 \else % putting here;
20710 \WF@info{Put \WF@wfname here:}%
20711 {\ifodd\if@twoside\c@page\else\@one\fi % assign l/r to i/o placement
20712 \lccode`i`l\lccode`o`r\else \lccode`i`r\lccode`o`l\fi
20713 \xdef\WF@place{\the\lccode\lccode\WF@place}}% twice to get only l or r
20714 \hbox to\z@{% llap or rlap depending on {l} or {r}; calc effective width
20715 \@tempdima\wd\WF@box \@tempdimb\WF@ovh
20716 \advance\@tempdima-\@tempdimb \advance\@tempdima\columnsep
20717 \@tempdimb\hsize \advance\@tempdimb-\@tempdima
20718 \xdef\WF@adjlw{\the\@tempdima}%
20719 \ifnum `l=\WF@place % fig on left
20720 \if@RTL%
20721 \kern\@tempdimb \kern\columnsep
20722 \def\@tempa{\hss}% position to left of the gap
20723 \else%
20724 \hss % figure overlaps space to the left
20725 \def\@tempa{\kern\columnsep}% position to left of the gap
20726 \fi%
20727 \else % fig on right
20728 \if@RTL%
20729 \hss
20730 \@tempdima\z@
20731 \def\@tempa{\kern\columnsep}
20732 \else%
20733 \@tempdima\z@ % no left indentation
20734 \kern\@tempdimb \kern\columnsep
20735 \def\@tempa{\hss}% figure overlaps space to the right
20736 \fi%
20737 \fi
20738 \ifdim\@tempdimb<\hsize
20739 \xdef\WF@wrapil{\the\@tempdima \the\@tempdimb}% indentation and length
20740 \xdef\WF@adjtlm{\the\@tempdima}%
20741 \else
20742 \xdef\WF@wrapil{\z@ \the\hsize}%
20743 \xdef\WF@adjlw{\z@}\xdef\WF@adjtlm{\z@}%

```



```

20744 \fi
20745 \ifdim\pagetotal=\z@ % \WF@info{Put \WF@wfname at top of p.\thepage}%
20746 \global\advance\WF@size-\intextsep
20747 \else % \WF@info{Putting \WF@wfname in middle of page}%
20748 \setbox\WF@box\hbox{\lower\intextsep\box\WF@box}%
20749 \fi \dp\WF@box\z@ \box\WF@box \@tempa
20750 }% end \hbox to Opt
20751 \aftergroup\WF@startwrapping % after the \endgroup which immediately follows
20752 \fi}

```

## 126 File xcolor-xetex-bidi.def

```

20753 \ProvidesFile{xcolor-xetex-bidi.def}[2013/04/08 v0.2 bidi adaptations for xcolor package for
20754 \long\def\color@b@x#1#2#3%
20755 {\leavevmode\ifmmode\else\if@RTL\beginL\fi\fi
20756 \setbox\z@\hbox{\kern\fbboxsep\set@color\if@RTL\beginR\fi#3\if@RTL\endR\fi}\kern\fbboxsep}%
20757 \dimen@ht\z@\advance\dimen@\fbboxsep\ht\z@\dimen@
20758 \dimen@dp\z@\advance\dimen@\fbboxsep\dp\z@\dimen@
20759 {\if#2\color@block{\wd\z@}{\ht\z@}{\dp\z@}\box\z@}\ifmmode\else\if@RTL\endL\fi\fi}
20760 \def\normalcolor{\let\currentcolor\defaultcolor\ifhmode\if@RTL\beginL\aftergroup\endR\fi\fi}
20761 \DeclareRobustCommand\color
20762 {\ifhmode\if@RTL\beginL\aftergroup\endR\fi\fi@ifnextchar[\@undeclaredcolor\@declaredcolor]}
20763 \def\@undeclaredcolor[#1]#2%
20764 {\begingroup
20765 \let\@ccls@empty
20766 \XC@getmodclr12{#1}{#2}{}}%
20767 {\ifblendcolors
20768 \ifx\colorblend\@empty\else
20769 \edef\@mix{\expandafter\@gobble\colorblend}\@tempswafalse
20770 \XC@coremodel\@mod\@clr\@xcolor@{}{}\@mod\@clr
20771 \fi
20772 \fi
20773 \ifconvertcolorsU
20774 \edef\@tmp{\XC@tgt@mod{\@mod}}%
20775 \convertcolorspec\@mod\@clr\@tmp\@clr \let\@mod\@tmp
20776 \fi
20777 \ifmaskcolors
20778 \convertcolorspec\@mod\@clr\XC@mmod\@clr
20779 \let\@mod\XC@mmod
20780 \XC@inflate\@mod\XC@mclr\@clr\@tmp
20781 \expandafter\XC@mul\@tmp,\@clr
20782 \fi
20783 \edef\@tmp{\noexpand\XC@undeclaredcolor{\@mod}{\@clr}}%
20784 \expandafter\endgroup\@tmp}}
20785 \def\@declaredcolor#1%
20786 {\XC@edef\XC@tmp{#1}\XC@tstfalse
20787 \ifcase\XC@type\XC@tmp\relax \XC@tsttrue\or \relax\else
20788 \ifblendcolors\XC@tsttrue\fi \ifmaskcolors\XC@tsttrue\fi
20789 \ifconvertcolorsU\XC@tsttrue\fi
20790 \fi
20791 \ifXC@tst
20792 \expandafter\XC@declaredcolor\else
20793 \expandafter\XC@declaredcolor\fi}
20794 \def\XC@undeclaredcolor#1#2%

```



```

20795 {\@ifundefinedmodel{#1}%
20796 {\c@lor@error{model `#1'}}}%
20797 {\@nameuse{color@#1}\current@color{#2}%
20798 \edef\XC@current@color{\noexpand\xcolor@{}{\current@color}{#1}{#2}}%
20799 \XC@display}\ifhmode\if@RTL\beginR\aftergroup\endL\fi\fi\ignorespaces}
20800 \def\XC@declaredc@lor
20801 {\XC@let@Nc\XC@current@color{\string\color@\XC@@tmp}%
20802 \edef\current@color{\XC@current@color}%
20803 \XC@display\ifhmode\if@RTL\beginR\aftergroup\endL\fi\fi\ignorespaces}
20804 \DeclareRobustCommand\bidicolor
20805 {\@ifnextchar[\@bidiundeclaredcolor\@bidideclaredcolor}
20806 \def\@bidiundeclaredcolor[#1]#2%
20807 {\begingroup
20808 \let\@c@ls\@empty
20809 \XC@getmodclr12{#1}{#2}{}}%
20810 {\ifblendcolors
20811 \ifx\colorblend\@empty\else
20812 \edef\@mix{\expandafter@gobble\colorblend}\@tempswafalse
20813 \XC@coremodel\@mod\@clr\xcolor@{}{\@mod\@clr
20814 \fi
20815 \fi
20816 \ifconvertcolorsU
20817 \edef\@tmp{\XC@tgt@mod{\@mod}}%
20818 \convertcolorspec\@mod\@clr\@tmp\@clr \let\@mod\@tmp
20819 \fi
20820 \ifmaskcolors
20821 \convertcolorspec\@mod\@clr\XC@mmod\@clr
20822 \let\@mod\XC@mmod
20823 \XC@inflate\@mod\XC@mclr\@clr\@tmp
20824 \expandafter\XC@mul\@tmp,\@clr
20825 \fi
20826 \edef\@tmp{\noexpand\XC@bidiundeclaredcolor{\@mod}{\@clr}}%
20827 \expandafter\endgroup\@tmp}}
20828 \def\XC@bidiundeclaredcolor#1#2%
20829 {\@ifundefinedmodel{#1}%
20830 {\c@lor@error{model `#1'}}}%
20831 {\@nameuse{color@#1}\current@color{#2}%
20832 \edef\XC@current@color{\noexpand\xcolor@{}{\current@color}{#1}{#2}}%
20833 \XC@display}}
20834 \def\@bidideclaredcolor#1%
20835 {\XC@edef\XC@@tmp{#1}\XC@@tstfalse
20836 \ifcase\XC@type\XC@@tmp\relax \XC@@tsttrue\or \relax\else
20837 \ifblendcolors\XC@@tsttrue\fi \ifmaskcolors\XC@@tsttrue\fi
20838 \ifconvertcolorsU\XC@@tsttrue\fi
20839 \fi
20840 \if\XC@@tst
20841 \expandafter\XC@bidideclaredcolor\else
20842 \expandafter\XC@bidideclaredc@lor\fi}
20843 \def\XC@bidideclaredcolor
20844 {\XC@split\XC@@tmp
20845 \edef\@tmp{\noexpand\@bidiundeclaredcolor[\@mod]{\@clr}}%
20846 \expandafter\endgroup\@tmp}
20847 \def\XC@bidideclaredc@lor
20848 {\XC@let@Nc\XC@current@color{\string\color@\XC@@tmp}%

```



```

20849 \edef\current@color{\XC@current@color}%
20850 \XC@display}
20851 \def\color@box#1#2{\color@b@x\relax{\bidicolor#1{#2}}}
20852 \def\color@fbbox#1#2#3#4{\protect\color@fb@x{#1}{#2}{#3}}
20853 \def\color@fb@x#1#2#3#4%
20854 {\color@b@x{\fbboxsep\z@\bidicolor#1{#2}\XC@fbbox}%
20855 {\@ifxempty{#3}{\bidicolor#1}{\bidicolor#3}{#4}}}
20856 \def\color@setgroup{\begingroup\ifhmode\if@RTL\beginL\aftergroup\endR\fi\fi\set@color\ifhmode

```

## 127 File latex-xetex-bidi.def

```

20857 \ProvidesFile{latex-xetex-bidi.def}[2022/02/01 v1.3.8 bidi adaptations for `latex.ltx' for
20858 \newcommand{\TeXXeTOn}{\TeXXeTstate@ne}
20859 \newcommand{\TeXXeTOff}{\TeXXeTstate@z@}
20860 \TeXXeTOn
20861 \def\ bidi@RTL@everypar{\setbox\z@\lastbox\if@RTL\beginR\else\beginL\fi\ifvoid\z@\else\usebox\z@}
20862 \let\ bidi@o@everypar=\everypar
20863 \newtoks\ bidi@n@everypar
20864 \ bidi@n@everypar\expandafter{\the\ bidi@o@everypar}
20865 \ bidi@o@everypar{\ bidi@RTL@everypar\the\ bidi@n@everypar}
20866 \let\ everypar=\ bidi@n@everypar
20867 \def\ moreLRE{\bracetext \aftergroup\endL \beginL\@RTLfalse}
20868 \def\ moreRLE{\bracetext \aftergroup\endR \beginR\@RTLtrue}
20869 \protected\def\ hboxR{\hbox\bgroup
20870 \everyhbox{%
20871 \aftergroup\egroup
20872 \everyhbox{}}%
20873 \beginR
20874 \@hboxRconstructtrue
20875 \bgroup
20876 \aftergroup\endR
20877 \aftergroup\egroup
20878 }\hbox}
20879 \protected\def\ hboxL{\hbox\bgroup
20880 \everyhbox{%
20881 \aftergroup\egroup
20882 \everyhbox{}}%
20883 \beginL
20884 \@hboxRconstructfalse
20885 \bgroup
20886 \aftergroup\endL
20887 \aftergroup\egroup
20888 }\hbox}
20889 \protected\def\ vboxR{\vbox\bgroup
20890 \everyvbox{%
20891 \aftergroup\egroup
20892 \everyvbox{}}%
20893 \@RTLtrue
20894 \@RTLtabtrue
20895 \bgroup
20896 \aftergroup\egroup
20897 }\vbox}
20898 \protected\def\ vboxL{\vbox\bgroup
20899 \everyvbox{%

```



```

20900 \aftergroup\egroup
20901 \everyvbox{}%
20902 \@RTLfalse
20903 \@RTLtabfalse
20904 \bgroup
20905 \aftergroup\egroup
20906 }\vbox}
20907 \newcommand*{\bidi@leftskip}{\if@RTL\rightskip\else\leftskip\fi}
20908 \newcommand*{\bidi@rightskip}{\if@RTL\leftskip\else\rightskip\fi}
20909 \def\LTR{\par\@RTLfalse\@RTL@footnotefalse\@RTLtabfalse\hsize\linewidth\parshape\z@}
20910 \def\endLTR{\par}
20911 \newenvironment{LTR*}{\LTR
20912 \everypar{%
20913     {\setbox\z@\lastbox
20914       \ifvoid\z@
20915         \kern-\parindent
20916       \fi}%
20917 }%
20918 }{\endLTR\@endpetrue}
20919 \def\RTL{\par\@RTLtrue\@RTL@footnotetrue\@RTLtabtrue\hsize\linewidth\parshape\z@}
20920 \def\endRTL{\par}
20921 \newenvironment{RTL*}{\RTL
20922 \everypar{%
20923     {\setbox\z@\lastbox
20924       \ifvoid\z@
20925         \kern-\parindent
20926       \fi}%
20927 }%
20928 }{\endRTL\@endpetrue}
20929 \def\setRTL{\@RTLtrue\@RTL@footnotetrue\@RTLtabtrue}
20930 \def\setLTR{\@RTLfalse\@RTL@footnotefalse\@RTLtabfalse}
20931 \let\unsetRTL=\setRTL
20932 \let\unsetLTR=\setLTR
20933 \let\LR=\LRE
20934 \let\RL=\RLE
20935 \def\@ensure@RTL#1{\if@RTL#1\else\RLE{#1}\fi}
20936 \def\@ensure@LTR#1{\if@RTL\LRE{#1}\else#1\fi}
20937 \let\@ensure@RL=\@ensure@RTL
20938 \let\@ensure@LR=\@ensure@LTR
20939 \def\@ensure@dir#1{\if@RTL\RLE{#1}\else{#1}\fi}
20940 \let\@ensure@maindir=\@ensure@dir
20941 \def\@RTL{RTL}
20942 \def\@LTR{LTR}
20943 \def\save@dir{\if@RTL\gdef\saved@dir{RTL}\else\gdef\saved@dir{LTR}\fi}
20944 \def\reset@dir{\ifx\saved@dir\@RTL\setRTL\else\ifx\saved@dir\@LTR\setLTR\else\relax\fi}
20945 \let\@TeX\TeX
20946 \def\TeX{\@ensure@LTR{\@TeX}}
20947 \let\@LaTeX\LaTeX
20948 \def\LaTeX{\@ensure@LTR{\@LaTeX}}
20949 \let\@LaTeXe\LaTeXe
20950 \def\LaTeXe{\@ensure@LTR{\@LaTeXe}}
20951 \long\def\bidi@reflect@box#1{%
20952     \leavevmode
20953     \setbox\z@\hbox{#1}}%

```



```

20954 \setbox\tw@\hbox{\special{x:gsave}\special{x:scale -1 1}\rlap{\copy\z@}\special{x:grestore
20955 \hb@xt@\wd\z@{\kern\wd\z@\box\tw@\hss}%
20956 }
20957 \bidi@newrobustcmd*{\XeTeX}{\LR{\leavevmode$\smash{\hbox{X\lower.5ex
20958 \hbox{\kern-.125em\bidi@reflect@box{E}}\kern-.1667em \TeX}}$}}
20959 \bidi@newrobustcmd*{\XeLaTeX}{\LR{\leavevmode$\smash{\hbox{X\lower.5ex
20960 \hbox{\kern-.125em\bidi@reflect@box{E}}\kern-.1667em \LaTeX}}$}}
20961 \let\setRL=\setRTL
20962 \let\setLR=\setLTR
20963 \let\unsetRL=\setLTR
20964 \def\bidi@tabular@RTLcases{\let\@halignto\@empty\@bidi@tabular@RTLcases}
20965 \ifpackageloaded{array}{%
20966 \def\@bidi@tabular@RTLcases{\@RTLtabtrue%
20967 \leavevmode
20968 \hbox \bgroup $\left.\col@sep\tabcolsep \let\d@llarbegin\begin\group
20969 \let\d@llarend\end\group
20970 \@tabarray}
20971 \def\endbidi@tabular@RTLcases{\endarray \right\rbrace$\egroup}
20972 }{%
20973 \def\@bidi@tabular@RTLcases{\@RTLtabtrue%
20974 \leavevmode \hbox \bgroup
20975 $\left.\let\@acol\@tabacol
20976 \let\@classz\@tabclassz
20977 \let\@classiv\@tabclassiv \let\\\@tabularcr\@tabarray}
20978
20979 \def\endbidi@tabular@RTLcases{\crr\egroup\if@RTLtab\egroup\endR\egroup\fi
20980 \egroup\right\rbrace $\egroup}}
20981 \def\RTLcases#1{\left.\vcenter{\normalbaselines\m@th
20982 \ialign{##\hfil$\quad{##}\hfil\crr#1\crr}}\right\}
20983 \renewenvironment{RTLcases}{%
20984 \bidi@matrix@check\RTLcases\env@RTLcases
20985 }{%
20986 \endbidi@tabular@RTLcases%
20987 }
20988 \def\env@RTLcases{%
20989 \let\@ifnextchar\bidi@new@ifnextchar
20990 \def\arraystretch{1.2}%
20991 \bidi@tabular@RTLcases{@{}r@{\quad}r@{}}%
20992 }
20993 \def\SepMark#1{\gdef\@SepMark{#1}}
20994 \SepMark{.}
20995 \def\@thmcountersep{\@SepMark}
20996 \def\setRTLbibitems{\@RTLbibitemstrue\@LTRbibitemsfalse}
20997 \def\setLTRbibitems{\@LTRbibitemstrue\@RTLbibitemsfalse}
20998 \def\setdefaultbibitems{\@RTLbibitemsfalse\@LTRbibitemsfalse}
20999 \newcommand*{\bidi@thebibliography@font@hook}{}
21000 \def\list#1#2{%
21001 \ifnum \@listdepth >5\relax
21002 \@toodeep
21003 \else
21004 \global\advance\@listdepth\@ne
21005 \fi
21006 \rightmargin\z@
21007 \listparindent\z@

```





```

21008 \itemindent\z@
21009 \csname @list\romannumeral\the\@listdepth\endcsname
21010 \def\@itemlabel{#1}%
21011 \let\makelabel\@mklab
21012 \@nmbbrlistfalse
21013 #2\relax
21014 \@trivlist
21015 \parskip\parsep
21016 \parindent\listparindent
21017 \advance\linewidth -\rightmargin
21018 \advance\linewidth -\leftmargin
21019 \if@bidi@list@minipage@parbox
21020 \if@RTL
21021 \advance\@totalleftmargin \leftmargin
21022 \else
21023 \advance\@totalleftmargin \rightmargin
21024 \fi
21025 \else
21026 \if@hboxRconstruct
21027 \if@bidi@list@minipage@parbox@not@nob
21028 \if@RTL
21029 \advance\@totalleftmargin \rightmargin
21030 \else
21031 \advance\@totalleftmargin \leftmargin
21032 \fi
21033 \else
21034 \if@RTL
21035 \advance\@totalleftmargin \leftmargin
21036 \else
21037 \advance\@totalleftmargin \rightmargin
21038 \fi\fi
21039 \else
21040 \if@RTL
21041 \advance\@totalleftmargin \rightmargin
21042 \else
21043 \advance\@totalleftmargin \leftmargin
21044 \fi\fi\fi
21045 \parshape \@ne \@totalleftmargin \linewidth
21046 \ignorespaces}
21047 \long\def\@iiiparbox#1#2[#3]#4#5{%
21048 \leavevmode
21049 \@pboxswfalse
21050 \if@hboxRconstruct
21051 \@bidi@list@minipage@parbox@not@nobtrue
21052 \fi
21053 \if@RTL
21054 \ifx#1t%
21055 \@bidi@list@minipage@parboxtrue
21056 \else
21057 \ifx#1b%
21058 \@bidi@list@minipage@parboxtrue
21059 \fi
21060 \fi
21061 \fi

```



```

21062 \setlength\@tempdima{#4}%
21063 \@begin@tempboxa\vbox{\hsize\@tempdima\@parboxrestore#5\@@par}%
21064 \ifx\relax#2\else
21065 \setlength\@tempdimb{#2}%
21066 \edef\@parboxto{to\the\@tempdimb}%
21067 \fi
21068 \if#1b\vbox
21069 \else\if #1t\vtop
21070 \else\ifmmode\vcenter
21071 \else\@pboxswtrue $\vcenter
21072 \fi\fi\fi
21073 \@parboxto{\let\hss\vss\let\unhbox\unvbox
21074 \csname bm@#3\endcsname}%
21075 \if@pboxsw \m@th$\fi
21076 \@end@tempboxa}
21077 \newenvironment{LTRitems}
21078 {\par\@RTLfalse\@RTLtabfalse
21079 \if@bidi@list@minipage@parbox
21080 \parshape \@ne \dimexpr(\@totalleftmargin-\leftmargin) \linewidth
21081 \else \if@hboxRconstruct\if@bidi@list@minipage@parbox@not@nob
21082 \parshape \@ne \dimexpr(\@totalleftmargin+\leftmargin) \linewidth\else
21083 \parshape \@ne \dimexpr(\@totalleftmargin-\leftmargin) \linewidth\fi
21084 \else \parshape \@ne \dimexpr(\@totalleftmargin+\leftmargin) \linewidth\fi
21085 \ignorespaces}{\vskip\z@}
21086 \newenvironment{RTLitems}
21087 {\par\@RTLtrue\@RTLtabtrue
21088 \if@bidi@list@minipage@parbox
21089 \parshape \@ne \dimexpr(\@totalleftmargin+\leftmargin) \linewidth
21090 \else \if@hboxRconstruct\if@bidi@list@minipage@parbox@not@nob
21091 \parshape \@ne \dimexpr(\@totalleftmargin-\leftmargin) \linewidth\else
21092 \parshape \@ne \dimexpr(\@totalleftmargin+\leftmargin) \linewidth\fi
21093 \else \parshape \@ne \dimexpr(\@totalleftmargin-\leftmargin) \linewidth\fi
21094 \ignorespaces}{\vskip\z@}
21095 \newenvironment{LTRbibitems}
21096 {\par\@RTLfalse\@RTLtabfalse
21097 \if@bidi@list@minipage@parbox
21098 \parshape \@ne \dimexpr(\@totalleftmargin-\leftmargin) \linewidth
21099 \else \if@hboxRconstruct\if@bidi@list@minipage@parbox@not@nob
21100 \parshape \@ne \dimexpr(\@totalleftmargin+\leftmargin) \linewidth\else
21101 \parshape \@ne \dimexpr(\@totalleftmargin-\leftmargin) \linewidth\fi
21102 \else \parshape \@ne \dimexpr(\@totalleftmargin+\leftmargin) \linewidth\fi
21103 \ignorespaces}{\vskip\z@}
21104 \newenvironment{RTLbibitems}
21105 {\par\@RTLtrue\@RTLtabtrue
21106 \if@bidi@list@minipage@parbox
21107 \parshape \@ne \dimexpr(\@totalleftmargin+\leftmargin) \linewidth
21108 \else \if@hboxRconstruct\if@bidi@list@minipage@parbox@not@nob
21109 \parshape \@ne \dimexpr(\@totalleftmargin-\leftmargin) \linewidth\else
21110 \parshape \@ne \dimexpr(\@totalleftmargin+\leftmargin) \linewidth\fi
21111 \else \parshape \@ne \dimexpr(\@totalleftmargin-\leftmargin) \linewidth\fi
21112 \ignorespaces}{\vskip\z@}
21113 \def\raggedright{%
21114 \let\\\@centercr\@rightskip\@flushglue \rightskip\@rightskip
21115 \leftskip\z@skip

```



```

21116 \parindent\z@\parfillskip\z@skip}
21117 \let\bidiorig@raggedleft\raggedleft
21118 \let\bidiorig@raggedright\raggedright
21119 \renewcommand\raggedleft{\if@bidi@list@minipage@parbox\bidiorig@raggedright\else\if@hboxRco
21120 \renewcommand\raggedright{\if@bidi@list@minipage@parbox\bidiorig@raggedleft\else\if@hboxRco
21121 \newcommand{\bidioraggedright}{\if@RTL\raggedleft\else\raggedright\fi}
21122 \newcommand{\bidioraggedleft}{\if@RTL\raggedright\else\raggedleft\fi}
21123 \def\centerline#1{%
21124 \if@RTL\@@line{\hss\beginR#1\endR\hss}
21125 \else\@@line{\hss#1\hss}\fi}
21126 \def\leftline#1{%
21127 \if@RTL\@@line{\beginR#1\endR\hss}
21128 \else\@@line{#1\hss}\fi}
21129 \def\rightline#1{%
21130 \if@RTL\@@line{\hss\beginR#1\endR}
21131 \else\@@line{\hss#1}\fi}
21132 \let\bidiorig@leftline\leftline
21133 \let\bidiorig@rightline\rightline
21134 \def\leftline#1{\ifhmode\if@RTL\bidiorig@rightline{#1}\else\bidiorig@leftline{#1}\fi\else\
21135 \def\rightline#1{\ifhmode\if@RTL\bidiorig@leftline{#1}\else\bidiorig@rightline{#1}\fi\else\
21136 \def\bidirlap#1{\hb@xt@{z@}{\if@RTL\hss\fi#1\if@RTL\else\hss\fi}}
21137 \def\bidillap#1{\hb@xt@{z@}{\if@RTL\else\hss\fi#1\if@RTL\hss\fi}}
21138 \def\hangfrom#1{\setbox\@tempboxa\hbox{{#1}}}%
21139 \hangindent \if@RTL-\else\fi\wd\@tempboxa\noindent\box\@tempboxa}
21140 \def\narrower{%
21141 \advance\if@RTL\rightskip\else\leftskip\fi\parindent
21142 \advance\if@RTL\leftskip\else\rightskip\fi\parindent}
21143 \def\underline#1{%
21144 \relax
21145 \ifmmode\@@underline{#1}%
21146 \else
21147 \if@RTL $\@@underline{\hbox{\beginR#1\endR}}\m@th$\relax
21148 \else
21149 $\@@underline{\hbox{#1}}\m@th$\relax\fi\fi}
21150 \if@compatibility
21151 \let\undertext=\underline
21152 \fi
21153 \def\@tabular{%
21154 \leavevmode \hbox \bgroup \if@RTLtab\beginR \fi
21155 $\let\@acol\@tabacol
21156 \let\@classz\@tabclassz
21157 \let\@classiv\@tabclassiv \let\\\@tabularcr\@tabarray}
21158 \def\endtabular{\crr\egroup\if@RTLtab\egroup\endR\egroup\fi
21159 \egroup $\if@RTLtab\endR\fi\egroup}
21160 \expandafter \let \csname endtabular*\endcsname = \endtabular
21161 \def\@array[#1]#2{%
21162 \if #1t\vtop \else \if#1b\vbox \else \vcenter \fi\fi
21163 \bgroup
21164 \setbox\@arstrutbox\hbox{%
21165 \vrule \@height\arraystretch\ht\strutbox
21166 \@depth\arraystretch \dp\strutbox
21167 \@width\z@}%
21168 \mkpream{#2}%
21169 \edef\@preamble{%

```



```

21170 \ialign \noexpand\@halignto
21171 \bgroup \@arstrut \@preamble \tabskip\z@skip \cr}%
21172 \let\@startpbox\@startpbox \let\@endpbox\@endpbox
21173 \let\tabularnewline\%
21174 \let\par\@empty
21175 \let\@sharp##%
21176 \set@typeset@protect
21177 \lineskip\z@skip\baselineskip\z@skip
21178 \ifhmode \@preamerr\z@ \@@par\fi
21179 \if@RTLtab\hbox\bgroup\beginR\@hboxRconstructtrue\if #1t\vtop \else \vbox \fi\bgroup\fi
21180 \@preamble}
21181 \def\array{\let\@acol\@arrayacol \let\@classz\@arrayclassz
21182 \let\@classiv\@arrayclassiv
21183 \let\\\@arraycr\let\@halignto\@empty\@RTLtabfalse\@tabarray}
21184 \def\@testpach#1{\@chclass \ifnum \@lastchclass=\tw@ 4 \else
21185 \ifnum \@lastchclass=3 5 \else
21186 \z@ \if #1c\@chnum \z@ \else
21187 \if \if@RTLtab#1r\else#1l\fi\@chnum \@ne \else
21188 \if \if@RTLtab#1l\else#1r\fi\@chnum \tw@ \else
21189 \@chclass \if #1|\@ne \else
21190 \if #1@\tw@ \else
21191 \if #1p3 \else \z@ \@preamerr 0\fi
21192 \fi \fi \fi \fi \fi \fi
21193 \fi}
21194 \def\bm@l{\if@RTL\hss\unhbox\@tempboxa\else\unhbox\@tempboxa\hss\fi}
21195 \def\bm@r{\if@RTL\unhbox\@tempboxa\hss\else\hss\unhbox\@tempboxa\fi}
21196 \def\bm@t{\unhbox\@tempboxa\hss}
21197 \def\bm@b{\hss\unhbox\@tempboxa}
21198 \def\@dottedtocline#1#2#3#4#5{%
21199 \ifnum #1>\c@tocdepth \else
21200 \vskip \z@ \@plus.2\p@
21201 {\if@RTL\righskip\else\leftskip\fi #2\relax \if@RTL\leftskip\else\righskip\fi \@tocma
21202 \parindent #2\relax\@afterindenttrue
21203 \interlinepenalty\@M
21204 \leavevmode
21205 \@tempdima #3\relax
21206 \advance\if@RTL\righskip\else\leftskip\fi \@tempdima \null\nobreak\hskip -\if@RTL\righ
21207 {#4}\nobreak
21208 \leaders\hbox{$\m@th
21209 \mkern \@dotsep mu\hbox{.}\mkern \@dotsep
21210 mu$}\hfill
21211 \nobreak
21212 \hb@xt@\@pnumwidth{\hfil\normalfont \normalcolor #5}}%
21213 \par}%
21214 \fi}
21215
21216 \newcount\@bidi@column@check@number
21217
21218 \def\@bidi@column@status#1{\gdef\@bidi@current@column@status{#1}}
21219
21220 \def\@bidi@set@column@status#1#2{%
21221 \global\expandafter\let\csname #1\endcsname\@bidi@current@column@status}
21222
21223 \if@twocolumn

```



```

21224 \newcommand\DetectColumn[3][1]{%
21225 \ifx\ bidi@firstcolumn@status@write\relax
21226 \PackageError{bidi}%
21227 {Option 'DetectColumn' not selected}%
21228 {\string\DetectColumn\space
21229 requires the use of the 'DetectColumn'
21230 option on the package}%
21231 \fi
21232 \global\advance\ bidi@column@check@number\@ne
21233 \edef\ bidi@column@type{\expandafter\ifx
21234 \csname bidi@column-\the\ bidi@column@check@number\endcsname\relax
21235 0\else
21236 \csname bidi@column-\the\ bidi@column@check@number\endcsname
21237 \fi}%
21238 \ifcase \ bidi@column@type\relax
21239 \ifcase #1\or #2\or #3\fi % 0 not known use first column as default
21240 \or
21241 #2% % 1 First column
21242 \or
21243 #3% % 2 Second (Last column)
21244 \else
21245 \ERROR
21246 \fi
21247 \edef\next{\write\@auxout
21248 {\string\ bidi@set@column@status{\ bidi@column-\the\ bidi@column@check@number}%
21249 {\ bidi@column@type}}}%
21250 \next
21251 }
21252
21253 \AtEndDocument{\def\ bidi@set@column@status#1#2{%
21254 \ifnum #2=\ bidi@current@column@status\else
21255 \@tempwattrue
21256 \fi}%
21257 }
21258 \fi
21259
21260 \def\RTL@outputdblcol{%
21261 \if@firstcolumn
21262 \global\@firstcolumnfalse
21263 \global\setbox\@leftcolumn\copy\@outputbox
21264 \splitmaxdepth\maxdimen
21265 \vbadness\maxdimen
21266 \setbox\@outputbox\vbox{\unvbox\@outputbox\unskip}%
21267 \setbox\@outputbox\vsplit\@outputbox to\maxdimen
21268 \toks@\expandafter{\topmark}%
21269 \xdef\@firstcoltopmark{\the\toks@}%
21270 \toks@\expandafter{\splitfirstmark}%
21271 \xdef\@firstcolfirstmark{\the\toks@}%
21272 \ifx\@firstcolfirstmark\@empty
21273 \global\let\@setmarks\relax
21274 \else
21275 \gdef\@setmarks{%
21276 \let\firstmark\@firstcolfirstmark
21277 \let\topmark\@firstcoltopmark}%

```



```

21278 \fi
21279 \else
21280 \global\@firstcolumntrue
21281 \setbox\@outputbox\vbox{%
21282 \hb@xt@\textwidth{%
21283 \hskip \columnwidth
21284 \hfil
21285 {\normalcolor\vrule \@width\columnseprule}%
21286 \hfil
21287 \hb@xt@\columnwidth{%
21288 \bidi@firstcolumn@status@write%
21289 \box\@leftcolumn \hss}%
21290 \hskip -\textwidth
21291 \hb@xt@\columnwidth{%
21292 \bidi@lastcolumn@status@write%
21293 \box\@outputbox \hss}%
21294 \hskip \columnsep
21295 \hskip \columnwidth }}%
21296 \@combinedblfloats
21297 \@setmarks
21298 \@outputpage
21299 \begingroup
21300 \@dblfloatplacement
21301 \@startdblcolumn
21302 \@whiles\if@fcolmade \fi{\@outputpage
21303 \@startdblcolumn}%
21304 \endgroup
21305 \fi}%
21306
21307 \def\LTR@outputdblcol{%
21308 \if@firstcolumn
21309 \global\@firstcolumnfalse
21310 \global\setbox\@leftcolumn\copy\@outputbox
21311 \splitmaxdepth\maxdimen
21312 \vbadness\maxdimen
21313 \setbox\@outputbox\vbox{\unvbox\@outputbox\unskip}%
21314 \setbox\@outputbox\vsplit\@outputbox to\maxdimen
21315 \toks@\expandafter{\topmark}%
21316 \xdef\@firstcoltopmark{\the\toks@}%
21317 \toks@\expandafter{\splitfirstmark}%
21318 \xdef\@firstcolfirstmark{\the\toks@}%
21319 \ifx\@firstcolfirstmark\@empty
21320 \global\let\@setmarks\relax
21321 \else
21322 \gdef\@setmarks{%
21323 \let\firstmark\@firstcolfirstmark
21324 \let\topmark\@firstcoltopmark}%
21325 \fi
21326 \else
21327 \global\@firstcolumntrue
21328 \setbox\@outputbox\vbox{%
21329 \hb@xt@\textwidth{%
21330 \hb@xt@\columnwidth{%
21331 \bidi@firstcolumn@status@write%

```



```

21332      \box\@leftcolumn \hss}%
21333      \hfil
21334      {\normalcolor\vrule \@width\columnseprule}%
21335      \hfil
21336      \hb@xt@\columnwidth{%
21337      \bidi@lastcolumn@status@write%
21338      \box\@outputbox \hss}}}%
21339 \@@combinedblfloats
21340 \@@setmarks
21341 \@@outputpage
21342 \begin@group
21343 \@@dblfloatplacement
21344 \@@startdblcolumn
21345 \@@whilesw@if@fcolmade \fi{\@@outputpage
21346 \@@startdblcolumn}%
21347 \end@group
21348 \fi}%
21349
21350
21351 \renewcommand{\@@outputdblcol}{\if@RTLmain\RTL@outputdblcol\else\LTR@outputdblcol\fi}
21352 \newcommand{\RTLdblcol}{\renewcommand{\@@outputdblcol}{\RTL@outputdblcol}}
21353 \newcommand{\LTRdblcol}{\renewcommand{\@@outputdblcol}{\LTR@outputdblcol}}
21354
21355 \bidi@patchcmd\@makecol{%
21356 \ifvoid\footins
21357 \setbox\@outputbox \box\@cclv
21358 \else
21359 \setbox\@outputbox \vbox {%
21360 \boxmaxdepth \@maxdepth
21361 \unvbox \@cclv
21362 \vskip \skip\footins
21363 \color@begingroup
21364 \normalcolor
21365 \footnoterule
21366 \unvbox \footins
21367 \color@endgroup
21368 }%
21369 \fi
21370 }{%
21371 \ifvoid\footins
21372 \ifvoid\@bidi@copyins@
21373 \setbox\@outputbox \box\@cclv
21374 \else
21375 \setbox\@outputbox \vbox {%
21376 \boxmaxdepth \@maxdepth
21377 \unvbox \@cclv
21378 \vskip \skip\@bidi@copyins@
21379 \color@begingroup
21380 \normalcolor
21381 \unvbox \@bidi@copyins@
21382 \color@endgroup
21383 }%
21384 \fi
21385 \else

```



```

21386 \setbox\@outputbox \vbox {%
21387 \boxmaxdepth \@maxdepth
21388 \unvbox \@cclv
21389 \vskip \skip\footins
21390 \color@begingroup
21391 \normalcolor
21392 \footnoterule
21393 \unvbox \footins
21394 \color@endgroup
21395 \ifvoid\@bidi@copyins@
21396 \else
21397 \vskip \skip\@bidi@copyins@
21398 \color@begingroup
21399 \normalcolor
21400 \unvbox \@bidi@copyins@
21401 \color@endgroup
21402 \fi
21403 }%
21404 \fi
21405 }{}{}
21406
21407 \def\LTRmarginpar{%
21408 \ifhmode
21409 \@bsphack
21410 \@floatpenalty -\@Mii
21411 \else
21412 \@floatpenalty-\@Miii
21413 \fi
21414 \ifinner
21415 \@parmoderr
21416 \@floatpenalty\z@
21417 \else
21418 \@next\@currbox\@freelist{}{}%
21419 \@next\@marbox\@freelist{global\count\@marbox\m@ne}%
21420 {\@floatpenalty\z@
21421 \@fltovf\def\@currbox{\@tempboxa}\def\@marbox{\@tempboxa}}%
21422 \fi
21423 \@ifnextchar [\@LTRxmpar\@LTRympar}
21424 \long\def\@LTRxmpar[#1]#2{%
21425 \@LTRsavemarbox\@marbox{#1}%
21426 \@LTRsavemarbox\@currbox{#2}%
21427 \@xympar}
21428 \long\def\@LTRympar#1{%
21429 \@LTRsavemarbox\@marbox{#1}%
21430 \global\setbox\@currbox\copy\@marbox
21431 \@xympar}
21432 \long\def \@LTRsavemarbox #1#2{%
21433 \global\setbox #1%
21434 \color@vbox
21435 \vtop{%
21436 \hsize\marginparwidth
21437 \@parboxrestore
21438 \@LTRmarginparreset
21439 #2%

```





```

21440         \@minipagefalse
21441         \outer@nobreak
21442     }%
21443     \color@endbox
21444 }
21445 \def \@LTRmarginparreset {%
21446     \reset@font
21447     \normalsize
21448     \@minipagetrue
21449     \everypar{\@minipagefalse\everypar{}\beginL}%
21450 }
21451 \def\RTLmarginpar{%
21452     \ifhmode
21453         \@bsphack
21454         \@floatpenalty -\@Mii
21455     \else
21456         \@floatpenalty-\@Miii
21457     \fi
21458     \ifinner
21459         \@parmoderr
21460         \@floatpenalty\z@
21461     \else
21462         \@next\@currbox\@freelist{}\}%
21463         \@next\@marbox\@freelist{\global\count\@marbox\m@ne}%
21464         {\@floatpenalty\z@
21465         \@fltovf\def\@currbox{\@tempboxa}\def\@marbox{\@tempboxa}}}%
21466     \fi
21467     \ifnextchar [\@RTLxmpar\@RTLympar}
21468 \long\def\@RTLxmpar[#1]#2{%
21469     \@RTLSavemarbox\@marbox{#1}%
21470     \@RTLSavemarbox\@currbox{#2}%
21471     \@xympar}
21472 \long\def\@RTLympar#1{%
21473     \@RTLSavemarbox\@marbox{#1}%
21474     \global\setbox\@currbox\copy\@marbox
21475     \@xympar}
21476 \long\def \@RTLSavemarbox #1#2{%
21477     \global\setbox #1%
21478     \color@vbox
21479     \vtop{%
21480         \hsize\marginparwidth
21481         \@parboxrestore
21482         \@RTLmarginparreset
21483         #2%
21484         \@minipagefalse
21485         \outer@nobreak
21486     }%
21487     \color@endbox
21488 }
21489 \def \@RTLmarginparreset {%
21490     \reset@font
21491     \normalsize
21492     \@minipagetrue
21493     \everypar{\@minipagefalse\everypar{}\beginR}%

```



```

21494 }
21495 \def\addmarginpar{\@next\@marbox\@currlist{\@cons\@freelist\@marbox
21496   \@cons\@freelist\@currbox}\@latexbug\@tempcnta\@ne
21497   \if@twocolumn
21498     \if@firstcolumn \@tempcnta\m@ne \fi
21499   \else
21500     \if@mparswitch
21501       \ifodd\c@page \else\@tempcnta\m@ne \fi
21502     \fi
21503     \if@reversemargin \@tempcnta -\@tempcnta \fi
21504   \fi
21505   \ifnum\@tempcnta <\z@ \global\setbox\@marbox\box\@currbox \fi
21506   \@tempdima\@mparbottom
21507   \advance\@tempdima -\@pageht
21508   \advance\@tempdima\ht\@marbox
21509   \ifdim\@tempdima >\z@
21510     \@latex@warning@no@line {Marginpar on page \thepage\space moved}%
21511   \else
21512     \@tempdima\z@
21513   \fi
21514   \global\@mparbottom\@pageht
21515   \global\advance\@mparbottom\@tempdima
21516   \global\advance\@mparbottom\dp\@marbox
21517   \global\advance\@mparbottom\marginparpush
21518   \advance\@tempdima -\ht\@marbox
21519   \global\setbox \@marbox
21520     \vbox {\vskip \@tempdima
21521           \box \@marbox}%
21522   \global \ht\@marbox \z@
21523   \global \dp\@marbox \z@
21524   \kern -\@pagedp
21525   \nointerlineskip
21526   \hb@xt@\columnwidth
21527     {\if@RTL\if@LTRmarginpar\beginL\else\beginR\fi\else\if@RTLmarginpar\beginR\else\beginL
21528       \hskip\columnwidth \hskip\marginparsep
21529     \else
21530       \hskip -\marginparsep \hskip -\marginparwidth
21531     \fi
21532     \box\@marbox \hss\if@RTL\if@LTRmarginpar\endL\else\endR\fi\else\if@RTLmarginpar\endR
21533   \nointerlineskip
21534   \hbox{\vrule \@height\z@ \@width\z@ \@depth\@pagedp}}
21535 \long\def\@ympar#1{%
21536   \@savemarbox\@marbox{\if@RTL\if@LTRmarginpar\@RTLfalse\else\@RTLtrue\fi\else\if@RTLmarginpar
21537   \global\setbox\@currbox\copy\@marbox
21538   \@xympar}
21539 \def\setRTLmarginpar{\@RTLmarginpartrue\@LTRmarginparfalse}
21540 \def\setLTRmarginpar{\@LTRmarginpartrue\@RTLmarginparfalse}
21541 \def\setdefaultmarginpar{\@RTLmarginparfalse\@LTRmarginparfalse}
21542 \def\@stopline{\unskip\@stopfield\if@rjfield \global\@rjfieldfalse
21543   \@tempdima\@totalleftmargin \advance\@tempdima\linewidth
21544 \hbox to\@tempdima{\if@RTL\beginR\fi\@itemfudge\hskip\dimen\@curtabmar
21545   \box\@curline\hfil\box\@curfield\if@RTL\endR\fi}\else\@addfield
21546   \hbox to\linewidth{\if@RTL\beginR\fi\@itemfudge
21547   \hskip\dimen\@curtabmar\box\@curline\hfil\if@RTL\endR\fi}%

```



```

21548 \fi}
21549
21550 \ExplSyntaxOn
21551 \cs_undefine:N \__shipout_picture_overlay:n
21552 \cs_new:Npn \__shipout_picture_overlay:n #1 {
21553   \__shipout_init_page_origins:
21554   \if@RTL
21555     \kern \__dim_eval:w \textwidth-\c__shipout_horigin_tl \scan_stop:
21556   \else
21557     \kern -\c__shipout_horigin_tl \scan_stop:
21558   \fi
21559   \vbox_to_zero:n {
21560     \kern -\c__shipout_vorigin_tl \scan_stop:
21561     \unitlength 1pt \scan_stop:
21562     \hbox_set_to_wd:Nnn \l__shipout_tmp_box \c_zero_dim
21563       { \ignorespaces #1 \hss }
21564     \box_set_ht:Nn \l__shipout_tmp_box \c_zero_dim
21565     \box_set_dp:Nn \l__shipout_tmp_box \c_zero_dim
21566     \box_use:N \l__shipout_tmp_box
21567     \tex_vss:D
21568   }
21569 }
21570 \ExplSyntaxOff
21571
21572 \newcommand*{\bidi@font@@outputpage}{\}
21573
21574 \def\@outputpage{%
21575   \begingroup           % the \endgroup is put in by \aftergroup
21576   \let \protect \noexpand
21577   \@resetactivechars
21578   \global\let\@@if@newlist@if@newlist
21579   \global\@newlistfalse
21580   \@parboxrestore
21581   \global\let\bidi@BeforeOutputPageShipOut\@firstofone
21582   \bidi@beforeoutputpageshipouthook
21583   \shipout \vbox{%
21584     \set@typeset@protect
21585     \aftergroup \endgroup
21586     \aftergroup \set@typeset@protect
21587                               % correct? or just restore by ending
21588                               % the group?
21589   \if@specialpage
21590     \global\@specialpagefalse\@nameuse{ps@\@specialstyle}%
21591   \fi
21592   \if@twoside
21593     \ifodd\count\z@ \let\@thehead\@oddhead \let\@thefoot\@oddfoot
21594     \if@RTLmain
21595       \let\@themargin\evensidemargin
21596     \else
21597       \let\@themargin\oddsidemargin
21598     \fi
21599   \else \let\@thehead\@evenhead \let\@thefoot\@evenfoot
21600   \if@RTLmain
21601     \let\@themargin\oddsidemargin

```



```

21602         \else
21603             \let\@themargin\evensidemargin
21604         \fi
21605     \fi
21606     \ifx\@thehead\@empty \let\@thehead\hfil \fi
21607     \ifx\@theft\@empty \let\@theft\hfil \fi
21608     \else %% not @twoside
21609         \ifx\@oddhead\@empty \let\@thehead\hfil \fi
21610         \ifx\@oddft\@empty \let\@theft\hfil \fi
21611     \fi
21612     \reset@font
21613     \normalsize
21614     \bidi@font@@outputpage
21615     \normalsfcodes
21616     \let\label\@gobble
21617     \let\index\@gobble
21618     \let\glossary\@gobble
21619     \baselineskip\z@skip \lineskip\z@skip \lineskiplimit\z@
21620     \@begindvi
21621     \vskip \topmargin
21622     \moveright\@themargin \vbox {%
21623         \global\let\bidi@BeforeHeader\@firstofone
21624         \bidi@beforeheaderhook
21625         \setbox\@tempboxa \vbox to\headheight{%
21626             \vfil
21627             \color@hbox
21628             \normalcolor
21629             \hb@xt@\textwidth{\if@RTLmain\@RTLtrue\beginR\else\@RTLfalse\beginL\fi\@thehead\if@
21630             \color@endbox
21631             }%
21632             \dp\@tempboxa \z@
21633             \box\@tempboxa
21634             \vskip \headsep
21635             \global\let\bidi@BeforeOutputBoxOutputPage\@firstofone
21636             \bidi@beforeoutputboxoutputpagehook
21637             \box\@outputbox
21638             \global\let\bidi@AfterOutputBoxOutputPage\@firstofone
21639             \bidi@afteroutputboxoutputpagehook
21640             \global\let\bidi@BeforeFooter\@firstofone
21641             \bidi@beforefooterhook
21642             \baselineskip \footskip
21643             \color@hbox
21644             \normalcolor
21645             \hb@xt@\textwidth{\if@RTLmain\@RTLtrue\beginR\else\@RTLfalse\beginL\fi\@theft\if@
21646             \color@endbox
21647             \global\let\bidi@AfterFooter\@firstofone
21648             \bidi@afterfooterhook
21649             }%
21650         }%
21651     \global\let\bidi@AfterOutputPageShipOut\@firstofone
21652     \bidi@afteroutputpageshipouthook
21653     \global\let\if@newlist\@if@newlist
21654     \global \colht \textheight
21655     \stepcounter{page}%

```



```

21656 \let\firstmark\botmark
21657 \global\let\bidid@AtEndOutputPage\@firstofone
21658 \bidid@atendoutputpagehook
21659 }
21660 \long\def\@makecaption#1#2{%
21661 \vskip\abovecaptionskip
21662 \sbox\@tempboxa{#1: #2}%
21663 \ifdim \wd\@tempboxa >\hsize
21664 \if@RTL\beginR\fi#1: #2\if@RTL\endR\fi\par
21665 \else
21666 \global \@minipagefalse
21667 \hb@xt@\hsize{\if@RTL\beginR\fi\hfil\box\@tempboxa\hfil\if@RTL\endR\fi}%
21668 \fi
21669 \vskip\belowcaptionskip}
21670 \let\bidid@sav@eqno=\eqno
21671 \let\bidid@sav@leqno=\leqno
21672 \def\eqno{\ifnum\predisplaydirection<\z@ \bidid@sav@eqno \else \bidid@sav@eqno \fi}
21673 \def\leqno{\ifnum\predisplaydirection<\z@ \bidid@sav@eqno \else \bidid@sav@leqno \fi}
21674 \@ifpackageloaded{amsmath}{\{
21675 \def\@eqnnum{\normalfont \normalcolor \if@RTL\beginR\fi(\theequation)\if@RTL\endR\fi}}
21676 }
21677 \input{footnote-xetex-bidi.def}
21678 \if@twocolumn
21679 \let\autofootnoterule\relax
21680 \let\leftfootnoterule\relax
21681 \let\rightfootnoterule\relax
21682 \textwidthfootnoterule
21683 \fi
21684 \if@bidid@csundef{\@idxitem}{\{
21685 \renewcommand\@idxitem{\par\hangindent \if@RTL-\fi40\p@}%
21686 }
21687 \@ifpackageloaded{tocbasic}{\input{tocbasic-xetex-bidi.def}}{\{
21688 \@ifclassloaded{article}{\@ifclassloaded{svmult}{\{
21689 \input{article-xetex-bidi.def}}{\{
21690 \@ifclassloaded{extarticle}{\input{extarticle-xetex-bidi.def}}{\{
21691 \@ifclassloaded{artikel1}{\input{artikel1-xetex-bidi.def}}{\{
21692 \@ifclassloaded{artikel2}{\input{artikel2-xetex-bidi.def}}{\{
21693 \@ifclassloaded{artikel3}{\input{artikel3-xetex-bidi.def}}{\{
21694 \@ifclassloaded{amsart}{\input{amsart-xetex-bidi.def}}{\{
21695 \@ifclassloaded{letter}{\input{letter-xetex-bidi.def}}{\{
21696 \@ifclassloaded{scrlettr}{\input{scrlettr-xetex-bidi.def}}{\{
21697 \@ifclassloaded{extletter}{\input{extletter-xetex-bidi.def}}{\{
21698 \@ifclassloaded{memoir}{\input{memoir-xetex-bidi.def}}{\{
21699 \@ifclassloaded{refrep}{\input{refrep-xetex-bidi.def}}{\{
21700 \@ifclassloaded{extreport}{\input{extreport-xetex-bidi.def}}{\{
21701 \@ifclassloaded{report}{\@ifpackageloaded{flowfram}{\{
21702 \input{report-xetex-bidi.def}}{\{
21703 \@ifclassloaded{rapport1}{\input{rapport1-xetex-bidi.def}}{\{
21704 \@ifclassloaded{rapport3}{\input{rapport3-xetex-bidi.def}}{\{
21705 \@ifclassloaded{scrartcl}{\input{scrartcl-xetex-bidi.def}}{\{
21706 \@ifclassloaded{scrbook}{\input{scrbook-xetex-bidi.def}}{\{
21707 \@ifclassloaded{scrreprt}{\input{scrreprt-xetex-bidi.def}}{\{
21708 \@ifclassloaded{amsbook}{\input{amsbook-xetex-bidi.def}}{\{
21709 \@ifclassloaded{extbook}{\input{extbook-xetex-bidi.def}}{\{
21710 \@ifclassloaded{boek}{\input{boek-xetex-bidi.def}}{\{
21711 \@ifclassloaded{boek3}{\input{boek3-xetex-bidi.def}}{\{

```



```

21710 \@ifclassloaded{book}{\@ifpackageloaded{flowfram}{}{\input{book-xetex-bidi.def}}{}
21711 \@ifclassloaded{bookest}{\input{bookest-xetex-bidi.def}}{}
21712 \@ifclassloaded{combine}{\input{combine-xetex-bidi.def}}{}
21713 \@ifclassloaded{imsproc}{\input{imsproc-xetex-bidi.def}}{}
21714 \@ifpackageloaded{amsmath}{}{%
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21720 \input{mathtools-xetex-bidi.def}%
21721 }{}
21722 \@ifpackageloaded{crop}{\RequirePackage{graphicx}}{}
21723 \@ifpackageloaded{sidecap}{\RequirePackage{ragged2e}}{}
21724 \@ifpackageloaded{floatrow}{\RequirePackage{color}}{}
21725 \@ifpackageloaded{algorithm2e}{\input{algorithm2e-xetex-bidi.def}}{}
21726 \@ifpackagewith{algorithm2e}{algonl}{}%
21727 \renewcommand{\theAlgoLine}{\expandafter\csname the\algocf@float\endcsname\@SepMark\arabic{A
21728 }}{}
21729 \@ifpackagewith{algorithm2e}{algotpart}{\renewcommand{\algocf@within}{part}}{}
21730 \@ifpackagewith{algorithm2e}{algotchapter}{\renewcommand{\algocf@within}{chapter}}{}
21731 \@ifpackagewith{algorithm2e}{algotsection}{\renewcommand{\algocf@within}{section}}{}
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21733 \@ifpackageloaded{amstext}{\input{amstext-xetex-bidi.def}}{}
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21743 \@ifpackageloaded{cuted}{\input{cuted-xetex-bidi.def}}{}
21744 \@ifpackageloaded{xcolor}{\input{xcolor-xetex-bidi.def}}{}
21745 \@ifpackageloaded{colortbl}{\input{colortbl-xetex-bidi.def}}{}
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21759 \@ifpackageloaded{fancyhdr}{\input{fancyhdr-xetex-bidi.def}}{}
21760 \@ifpackageloaded{fix2col}{\input{fix2col-xetex-bidi.def}}{}
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21762 \@ifpackageloaded{midfloat}{\input{midfloat-xetex-bidi.def}}{}
21763 \@ifpackageloaded{draftwatermark}{\input{draftwatermark-xetex-bidi.def}}{}

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21767 \@ifpackageloaded{empheq}{\input{empheq-xetex-bidi.def}}{}
21768 \@ifpackageloaded{framed}{\input{framed-xetex-bidi.def}}{}
21769 \@ifpackageloaded{overpic}{\input{overpic-xetex-bidi.def}}{}
21770 \@ifpackageloaded{pdfbase}{\input{pdfbase-xetex-bidi.def}}{}
21771 \@ifpackageloaded{pdfpages}{\input{pdfpages-xetex-bidi.def}}{}
21772 \@ifpackageloaded{lettrine}{\input{lettrine-xetex-bidi.def}}{}
21773 \@ifpackageloaded{lineno}{\input{lineno-xetex-bidi.def}}{}
21774 \@ifpackageloaded{listings}{\input{listings-xetex-bidi.def}}{}
21775 \@ifpackageloaded{media9}{\RequirePackage{bidi-media9}}{}
21776 \@iftexfileloaded{pstricks}{\input{pstricks-xetex-bidi.def}}{}
21777 \@iftexfileloaded{pgfcorescopes.code}{\input{pgfcorescopes.code-xetex-bidi.def}}{}
21778 \@ifpackageloaded{titlesec}{\input{titlesec-xetex-bidi.def}}{}
21779 \@ifpackageloaded{titletoc}{\input{titletoc-xetex-bidi.def}}{}
21780 \@ifpackageloaded{array}{\input{array-xetex-bidi.def}}{}
21781 \@ifpackageloaded{sidecap}{\input{sidecap-xetex-bidi.def}}{}
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21784 \isSC@ODD{#2}\hspace{\sidecaptionsep}{#1} {{#1}\hspace{\sidecaptionsep}{#2}}}
21785 \renewcommand*{\SC@justify@caption{%
21786 \isSC@ODD{\RaggedRight}{\RaggedLeft}}\else
21787 \renewcommand*{\SC@FLOAT}[2]{%
21788 \isSC@ODD{#1}\hspace{\sidecaptionsep}{#2} {{#2}\hspace{\sidecaptionsep}{#1}}}
21789 \renewcommand*{\SC@justify@caption{%
21790 \isSC@ODD{\RaggedLeft}{\RaggedRight}}\fi
21791 }{}
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21794 \def\SC@justify@caption{\RaggedLeft}\else%
21795 \renewcommand*{\SC@FLOAT}[2]{{#2}\hspace{\sidecaptionsep}{#1}}
21796 \def\SC@justify@caption{\RaggedRight}\fi%
21797 }{}
21798 \@ifpackagewith{sidecap}{leftcaption}{%
21799 \ifRTL \renewcommand*{\SC@FLOAT}[2]{{#2}\hspace{\sidecaptionsep}{#1}}
21800 \def\SC@justify@caption{\RaggedRight}\else%
21801 \renewcommand*{\SC@FLOAT}[2]{{#1}\hspace{\sidecaptionsep}{#2}}
21802 \def\SC@justify@caption{\RaggedLeft}\fi%
21803 }{}
21804 \@ifpackageloaded{soul}{\input{soul-xetex-bidi.def}}{}
21805 \@ifpackageloaded{stabular}{\input{stabular-xetex-bidi.def}}{}
21806 \@ifpackageloaded{subfigure}{\input{subfigure-xetex-bidi.def}}{}
21807 \@ifpackageloaded{arydshln}{\input{arydshln-xetex-bidi.def}}{}
21808 \@ifpackageloaded{mdframed}{\input{mdframed-xetex-bidi.def}}{}
21809 \@ifpackageloaded{multicol}{\input{multicol-xetex-bidi.def}}{}
21810 \@ifpackageloaded{adjmulticol}{\input{adjmulticol-xetex-bidi.def}}{}
21811 \@ifpackageloaded{multienum}{\input{multienum-xetex-bidi.def}}{}
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21821 \ifpackageloaded{tcolorbox}{\input{tcolorbox-xetex-bidi.def}}{}
21822 \ifpackageloaded{tocstyle}{\input{tocstyle-xetex-bidi.def}}{}
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21825 \ifdefinitionfileloaded{tc-xetex}{\input{tc-xetex-bidi.def}}{}
21826 \ifpackageloaded{todonotes}{\input{todonotes-xetex-bidi.def}}{}

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## 128 File xltextra-xetex-bidi.def

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21827 \ProvidesFile{xltextra-xetex-bidi.def}[2010/07/25 v0.1 bidi adaptations for xltextra package f
21828 \let\@XeTeX\XeTeX
21829 \def\XeTeX{\@ensure@LTR{\@XeTeX}}
21830 \let\@XeLaTeX\XeLaTeX
21831 \def\XeLaTeX{\@ensure@LTR{\@XeLaTeX}}

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