

# The leaflet document class

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## 1 Usage

Process the file `leaflet-manual.tex` with  $\text{\LaTeX}$  to see details of usage and layout.

## 2 Implementation

```
1 (*class)
```

### 2.1 Test whether the LaTeX format is new enough

We use the 'shipout/before' hook.

```
2 \ifundefined{DiscardShipoutBox}{%
3   \ClassError{leaflet}{%
4     LaTeX version equal to or newer \MessageBreak
5     than '2020-10-01' is required%
6   }{%
7     Renew your TeX installation.%
8   }%
9 }
```

### 2.2 Saving some internal macros. . .

```
10 \let\LL@begindvi\@begindvi
```

### 2.3 Option processing

```
11 \ifundefined{iflandscape}{\newif\iflandscape}{}%
12 \ifundefined{iftumble}{\newif\iftumble}{}%
13 \ifundefined{iftwopart}{\newif\iftwopart}{}%
14 \ifundefined{iffoldcorr}{\newif\iffoldcorr}{}%
15 \newlength\LL@tempdima
16 \newcommand\LL@debug@info[1]{}%
17 \DeclareOption{dvips}{\PassOptionsToPackage{CurrentOption}{graphics}}
```

```

18 \DeclareOption{pdftex}{\PassOptionsToPackage{\CurrentOption}{graphics}}
19 \DeclareOption{vtex}{\PassOptionsToPackage{\CurrentOption}{graphics}}
20 \DeclareOption{dvipdfm}{\PassOptionsToPackage{\CurrentOption}{graphics}}
21 \DeclareOption{twoside}{\OptionNotUsed}
22 \DeclareOption{twocolumn}{\OptionNotUsed}
23 \DeclareOption{landscape}{\landscapetrue}
24 \DeclareOption{portrait}{\landscapefalse}
25 \DeclareOption{debug}{\let\LL@debug@info\typeout}
26 \DeclareOption{twopart}{\twoparttrue}
27 \DeclareOption{notwopart}{\twopartfalse}
28 \DeclareOption{nospecialtricks}{%
29   \AtEndOfClass{%
30     \ifLL@combine
31       \let\immediate\@@@immediate\let\write\@@@write
32       \let\openout\@@@openout\let\closeout\@@@closeout
33       \let\special\@@@special\let\@@@exec@outs\relax
34     \fi}}

```

**\LL@setPaperSize** Some paper sizes are not supported by the article class. Hence this work-around. These page dimensions *must* be given in landscape orientation!

```

35 \newcommand*\LL@setPaperSize{}
36 \DeclareOption{a3paper}{\def\LL@setPaperSize{%
37   \paperwidth=420mm\paperheight=297mm\relax}}%
38 \ifdefinable\ifLL@combine{\newif\ifLL@combine}
39 \DeclareOption{combine}{\LL@combinetrue}
40 \DeclareOption{nocombine}{\LL@combinefalse}

```

**\LL@selectOutput**

```

41 \newcommand*\LL@selectOutput{}
42 \DeclareOption{frontside}{\def\LL@selectOutput#1#2{#1}}
43 \DeclareOption{backside}{\def\LL@selectOutput#1#2{#2}}
44 \DeclareOption{bothsides}{\def\LL@selectOutput#1#2{#1#2}}

45 \DeclareOption{tumble}{\tumbletrue}
46 \DeclareOption{notumble}{\tumblefalse}

```

**\LL@foldmark** Drawing code for the fold mark. (Will be called within a picture environment.)

```

47 \newcommand*\LL@foldmark{}
48 \DeclareOption{foldmark}{%
49   \def\LL@foldmark{%
50     \begingroup
51       \linethickness{\foldmarkrule}%
52       \@tempdima=\dimexpr\paperheight-\LL@tmargin
53       \put(0,\@tempdima){%
54         \line(0,-1){\foldmarklength}}%
55       \endgroup}%
56 }

57 \DeclareOption{nofoldmark}{\def\LL@foldmark{}}%

58 \DeclareOption{foldcorr}{\foldcorrtrue}
59 \DeclareOption{nofoldcorr}{\foldcorrfalse}

60 \newcommand*\LL@toomanypages[2]{}
61 \DeclareOption{draft}{\PassOptionsToClass{\CurrentOption}{article}%
62   \AtEndOfClass{%
63     \def\LL@toomanypages#1#2{%
64       \ClassWarningNoLine{leaflet}{#1.\MessageBreak#2}}%
65   }}%
66 }
67 \DeclareOption{final}{\PassOptionsToClass{\CurrentOption}{article}%
68   \AtEndOfClass{%
69     \ifLL@combine
70       \def\LL@toomanypages#1#2{%

```

```

71 \ClassError{leaflet}{#1}{#2.}}%
72 \else
73 \def\LL@toomanypages#1#2{%
74 \ClassWarningNoLine{leaflet}{#1.\MessageBreak#2}}%
75 \fi
76 }%
77 }
78 \DeclareOption*{\PassOptionsToClass{\CurrentOption}{article}}
79 \PassOptionsToClass{landscape,a4paper}{article}
80 \ExecuteOptions{tumble,foldmark,bothsides,combine,landscape,notwopart}
81 \ProcessOptions\relax
82 \ifLL@combine

```

`\LL@rotate@I` Rotates the output pages.

```

\LL@rotate@II 83 \newcommand*\LL@rotate@I{\newcommand*\LL@rotate@II}%
84 \iflandscape
85 \def\LL@rotate@I#1{#1}%
86 \iftumble
87 \def\LL@rotate@II#1{\rotatebox[origin=c]{180}{#1}}%
88 \else
89 \def\LL@rotate@II#1{#1}%
90 \fi
91 \else
92 \def\LL@rotate@I#1{\rotatebox[origin=c]{90}{#1}}%
93 \iftumble
94 \def\LL@rotate@II#1{\rotatebox[origin=c]{270}{#1}}%
95 \else
96 \def\LL@rotate@II#1{\rotatebox[origin=c]{90}{#1}}%
97 \fi
98 \fi

```

`\immediate` In the following we redefine the  $\TeX$  primitives `\immediate`, `\write`, `\openout`, and `\closeout`. All of them not “immediate” executed statements are added to the macro `\@@@pending@outs` (comma list). So especially the `\write` statements independent of  $\TeX$ ’s `\shipout` run at a convenient time. For  $\text{V}\TeX$  we must keep in mind that `\immediate\special` exist.

```

99 \def\@@@pending@outs{\let\@@@immediate\immediate
100 \let\@@@write\write \let\@@@special\special
101 \let\@@@openout\openout \let\@@@closeout\closeout
102 \def\immediate{%
103 \let\write\immediate@write%
104 \let\openout\immediate@openout%
105 \let\closeout\immediate@closeout%
106 \let\special\immediate@special}%
107 \def\reset@immediate{%
108 \let\write\pending@write%
109 \let\openout\pending@openout%
110 \let\closeout\pending@closeout%
111 \let\special\@@@special}%
112 \long\def\pending@write#1{\pending@@write{#1}}
113 \def\immediate@write{%
114 \reset@immediate\@@@immediate\@@@write}%
115 \def\immediate@openout{%
116 \reset@immediate\@@@immediate\@@@openout}%
117 \def\immediate@closeout{%
118 \reset@immediate\@@@immediate\@@@closeout}%
119 \def\immediate@special{%
120 \reset@immediate\@@@immediate\@@@special}%
121 \let\write\pending@write
122 \let\openout\pending@openout
123 \let\closeout\pending@closeout

```

`\@dummy@whatsit` Makes our redefined primitives more like “whatsits” (???). ‘`\special{}`’ is also possible for

pdfTeX but we get a lot of strange warnings (“Non-PDF special ignored!”) in this case.

```

124 \def\@dummy@whatsit{\special{}}
125 \begingroup\@ifundefined{pdfoutput}%
126 {\endgroup}
127 {\endgroup}
128 \ifnum\pdfoutput>\z@\def\@dummy@whatsit{\pdfliteral{}}\fi

129 \begingroup\expandafter\expandafter\expandafter\endgroup
130 \expandafter\ifx\csname eTeXversion\endcsname\relax
131   %% Test is from Markus Kohm (d.c.t.t, 29 Jun 2004)
132   \ClassWarningNoLine{leaflet}{%
133     *****\MessageBreak
134     * It's very recommended to use eTeX \MessageBreak
135     * with this package! \MessageBreak
136     *****}%

\pending@@write Doesn't work correctly without any \mark or \special or \pdfliteral command inside.
137 \long\def\pending@@write#1#2{%
138   \@dummy@whatsit
139   \g@addto@macro\@@@pending@outs{\@@@immediate\@@@write\number#1{#2},}%

\pending@openout
140 \def\pending@openout#1 {%
141   \@dummy@whatsit
142   \g@addto@macro\@@@pending@outs{\@@@immediate\@@@openout\number#1,}%

\pending@closeout
143 \def\pending@closeout#1{%
144   \@dummy@whatsit
145   \g@addto@macro\@@@pending@outs{\@@@immediate\@@@closeout\number#1,}%

@@@exec@outs Note to this implementation: The out commands and the page breaks are not allways in sync,
which means possible wrong page references.
146 \newcommand*{\@@@exec@outs{%
147   \@@@pending@outs\gdef\@@@pending@outs{%
148     \LL@debug@info{%
149       >>> execute the output commands of the current page <<<}}%

150 \else
151   \RequirePackage{etex}

Allocation of a new mark class.
152 \globmarks\@@@out@mark
153 \newcounter{\@@total@outs}\setcounter{\@@total@outs}{0}
154 \newcounter{\@@last@exec}\setcounter{\@@last@exec}{0}

\pending@@write Doesn't work correctly without any \mark or \special or \pdfliteral command inside.
155 \long\def\pending@@write#1#2{%
156   \global\advance\c@@@total@outs\@ne%
157   \marks\@@@out@mark{\the\c@@@total@outs}%
158   \g@addto@macro\@@@pending@outs{\@@@immediate\@@@write\number#1{#2},}%

\pending@openout
\pending@@openout 159 \def\pending@openout#1 {%
\pending@@@openout 160 \global\advance\c@@@total@outs\@ne%
@ifequalsign 161 \marks\@@@out@mark{\the\c@@@total@outs}%
162 \g@addto@macro\@@@pending@outs{\@@@immediate\@@@openout\number#1,}%

\pending@closeout
163 \def\pending@closeout#1{%
164   \global\advance\c@@@total@outs\@ne%
165   \marks\@@@out@mark{\the\c@@@total@outs}%
166   \g@addto@macro\@@@pending@outs{\@@@immediate\@@@closeout\number#1,}%

```

```

\@@@exec@outs With the call of \@@@exec@outs we simulate TEX's execution of non-immediate output com-
mands. The number of pending commands which can be executed must be decremented by
\value{@@total@outs} - \botmarks\@@@out@mark. The remaining commands must still wait
until the next output page is ready. It works only for output commands in the main text which
moved to the next page but not for floating output commands.
167 \newcommand*\@@@exec@outs{%
168   \begingroup
      Pending io's = \@tempcntb = TOTAL-OUTS - LAST-EXEC
169   \@tempcntb\c@@@total@outs\advance\@tempcntb-\c@@@last@exec%
170   \edef\reserved@a{\botmarks\@@@out@mark}%
171   \ifx\reserved@a\empty\@tempcnta\z@else\@tempcnta\reserved@a\fi%
172   \LL@debug@info{PENDING-OUTS:\the\@tempcntb\space\space
173                 TOTAL-OUTS:\the\c@@@total@outs\space\space
174                 LAST-EXEC:\the\c@@@last@exec\space\space
175                 TOPMARK:\topmarks\@@@out@mark\space\space
176                 FIRSTMARK:\firstmarks\@@@out@mark\space\space
177                 BOTMARK:\botmarks\@@@out@mark}%
      Last valid pending entry = \@tempcntb = PENDING-OUTS - TOTAL-OUTS + BOTMARK
      Number of invalid (moved) out's = \@tempcnta = TOTAL-OUTS - BOTMARK
178   \advance\@tempcnta-\c@@@total@outs \advance\@tempcntb\@tempcnta
179   \@tempcnta-\@tempcnta%
180   \ifnum\@tempcnta>\z@
181     \LL@debug@info{%
182       >>> resave \the\@tempcnta\space output command(s).
183       Too early to execute! <<<}%
184   \fi
185   \@tempcnta\z@ \def\reserved@b{}%
186   \@for\reserved@a :=\@@@pending@outs\do{%
187     \ifx\reserved@a\emptyelse
188       \ifnum\@tempcnta<\@tempcntb%
189         \reserved@a% execute output's related to the current page box.
190         \global\advance\c@@@last@exec\@ne
191         \LL@debug@info{>>> execute output command number
192                       \the\c@@@last@exec\space<<<}%
193       \else
      Other output's must be resaved and still pending.
194         \expandafter\g@addto@macro\expandafter\reserved@b\expandafter{%
195           \reserved@a,}%
196         \fi
197         \advance\@tempcnta\@ne%
198       \fi}%
199   \expandafter\@temptokena\expandafter{\reserved@b}%
200   \xdef\@@@pending@outs{\the\@temptokena}%
201 \endgroup}%
202 \fi% end of eTeX test.

\protected@write Because our redefined \write is expandable we must protect it inside of LATEX's
\protected@write.
203 \long\def\protected@write#1#2#3{%
204   \begingroup
205     \let\thepage\relax
206     #2%
207     \let\protect\@unexpandable@protect
208     \edef\reserved@a{\noexpand\write#1{#3}}%
209     \reserved@a%
210   \endgroup
211   \if@nobreak\ifvmode\nobreak\fi\fi}%

\@begindvi Delay \@begindvi to be executed until the real page output.
212 \let\@begindvi\empty
213 \fi% end of \ifLL@combine

```

\LL@toomanypages Now elsewhere ...

```
214 \LoadClass{article}
215 \RequirePackage{graphicx}
```

\LL@pagesize@specials Now the graphics driver is known. We will check the graphics driver and set special code for page dimensions and other.

```
216 \newcommand*\LL@pagesize@specials[2]{%
217 \ifundefined{Gin@driver}{}%
218 \ifx\Gin@driver\empty\else%
219 \filename@parse{\Gin@driver}\@tempswafalse%
220 \def\reserved@a{dvips}%
221 \ifx\filename@base\reserved@a\@tempwattrue\fi%
222 \def\reserved@a{dvipdfm}%
223 \ifx\filename@base\reserved@a\@tempwattrue\fi%
224 \if@tempswa
225 \ClassInfo{leaflet}{Generating code for dvips}%
226 \def\LL@pagesize@specials#1#2{%
227 \@tempdima=#1\@tempdimb=#2 %
228 \AtBeginDvi{\special{papersize=\the\@tempdima,\the\@tempdimb}}}%
229 \fi
230 \def\reserved@a{pdftex}%
231 \ifx\filename@base\reserved@a
232 \ClassInfo{leaflet}{Generating code for pdfTeX}%
233 \def\LL@pagesize@specials#1#2{%
234 \@tempdima=#1\@tempdimb=#2 %
235 \pdfpagewidth\@tempdima\pdfpageheight\@tempdimb}%
236 \fi
237 \def\reserved@a{luatex}%
238 \ifx\filename@base\reserved@a
239 \ClassInfo{leaflet}{Generating code for LuaTeX}%
240 \ifx\pdfpagewidth\undefined
241 \def\LL@pagesize@specials#1#2{%
242 \@tempdima=#1\@tempdimb=#2 %
243 \pagewidth\@tempdima\pageheight\@tempdimb}%
244 \else
245 \def\LL@pagesize@specials#1#2{%
246 \@tempdima=#1\@tempdimb=#2 %
247 \pdfpagewidth\@tempdima\pdfpageheight\@tempdimb}%
248 \fi
249 \fi
250 \def\reserved@a{xetex}%
251 \ifx\filename@base\reserved@a
252 \ClassInfo{leaflet}{Generating code for XeTeX}%
253 \def\LL@pagesize@specials#1#2{%
254 \@tempdima=#1\@tempdimb=#2%
255 \pdfpagewidth\@tempdima\pdfpageheight\@tempdimb}%
256 \fi
257 \def\reserved@a{vtex}%
258 \ifx\filename@base\reserved@a
259 \ClassInfo{leaflet}{Generating code for VTeX}%
260 \def\LL@pagesize@specials#1#2{%
261 \@tempdima=#1\@tempdimb=#2%
262 \mediawidth\@tempdima\mediaheight\@tempdimb}%
263 \fi
264 \fi
265 }
```

\LL@CmdIgnored

```
266 \newcommand*\LL@CmdIgnored[1]{%
267 \ClassWarning{leaflet}{%
268 '\string#1' ignored}}
```

## 2.4 Changing the class properties

```

269 \setlength{\parskip}{1ex plus 2pt}
270 \@listi%
271 \setlength{\labelwidth}{\leftmargin}
272 \addtolength{\labelwidth}{-\labelsep}
273 \pagestyle{empty}
274 \headheight\z@
275 \headsep\z@
276 \footskip\z@
277 \marginparwidth\z@
278 \marginparsep\z@
279 \sloppy
280 \setcounter{secnumdepth}{0}
281 %\renewcommand\marginpar[2][]{\LL@CmdIgnored{\marginpar}}
282 \renewcommand\twocolumn[1]{\LL@CmdIgnored{\twocolumn}}
283 \renewcommand\onecolumn{\LL@CmdIgnored{\onecolumn}}
284 \renewcommand\topfraction{0.7}
285 \renewcommand\bottomfraction{0.7}
286 \setlength{\textfloatsep}{10pt plus 4pt minus 3pt}
287 \setlength{\parindent}{\z@}
288 \setlength{\leftmargini}{1.5em}
289 \setlength{\leftmarginii}{1.5em}
290 \setlength{\leftmarginiii}{1.5em}
291 \setlength{\leftmarginiv}{1.5em}
292 \setlength{\leftmarginv}{1.5em}
293 \setlength{\leftmarginvi}{1.5em}
294 \setlength{\labelsep}{.5em}
295 \setlength \labelwidth{\leftmargini}
296 \addtolength\labelwidth{-\labelsep}

```

\noparskip

```

297 \def\noparskip{\par\vspace{-\parskip}}

```

Modification of list and section parameters for a more compact layout.

```

298 \let\old@small\small
299 \renewcommand{\small}{\old@small\let\@listi\@listI}
300 \let\old@footnotesize\footnotesize
301 \renewcommand{\footnotesize}{\old@footnotesize\let\@listi\@listI}

```

\sectfont User macro for changing the font of the typesetted parameter of the \?section commands.

```

302 \newcommand{\sectfont}{\bfseries}

303 \renewcommand\section{\@startsection{section}{1}{\z@}%
304   {-3.5ex \@plus -.75ex}%
305   {1ex} %\{1.5ex}%
306   {\normalfont\large\sectfont}}
307 \renewcommand\subsection{\@startsection{subsection}{2}{\z@}%
308   {-2.5ex plus -.5ex}%
309   {1\p@} %\{1ex}%
310   {\normalfont\normalsize\sectfont}}
311 \renewcommand\subsubsection{\@startsection{subsubsection}{3}{\z@}%
312   {-2.5ex plus -.5ex}%
313   {-1em}%
314   {\normalfont\normalsize\sectfont}}
315 \def\part{\LL@CmdIgnored{\part}\secdef\@part\@spart}
316 \def\@part[#1]#2{}
317 \def\@spart#1{}
318
319 \renewcommand*\descriptionlabel[1]{%
320   \hspace\labelsep\normalfont\descfont #1}

```

\descfont User macro for changing the font of the description label.

```

321 \newcommand*\descfont{\bfseries}

```

```

322 \iffalse
323 % Doesn't work!
324 \g@addto@macro\enumerate{\parsep2\p@\@plus2\p@\@minus\z@}
325 \g@addto@macro\itemize{\parsep2\p@\@plus2\p@\@minus\z@}
326 \g@addto@macro\description{\parsep2\p@\@plus2\p@\@minus\z@}
327 \else
328 \newcommand*{\LL@listsetup{%
329 % \parsep.445ex\@plus.445ex\@minus.2225ex%
330 % \parsep.5ex\@plus.5ex\@minus.25ex%
331 \parsep1ex\@plus.5ex\@minus.25ex%
332 \LL@debug@info{***parsep=\the\parsep}%
333 % \itemsep.25\parsep
334 \itemsep\z@
335 \LL@debug@info{***itemsep=\the\itemsep}%
336 \topsep\z@
337 \LL@debug@info{***topsep=\the\topsep}%
338 % \partopsep\z@
339 \LL@debug@info{***partopsep=\the\partopsep}%
340 }
341 \def\enumerate{%
342 \ifnum \@enumdepth >\thr@@\@toodeep\else
343 \advance\@enumdepth\@ne
344 \edef\@enumctr{enum\romannumeral\the\@enumdepth}%
345 \expandafter
346 \list
347 \csname label\@enumctr\endcsname
348 {\usecounter\@enumctr
349 \def\makelabel##1{\hss\llap{##1}}%
350 %\def\makelabel##1{##1\hfill}%
351 %\def\makelabel##1{\hss##1}%
352 \LL@listsetup
353 }%
354 \fi}
355 \def\itemize{%
356 \ifnum \@itemdepth >\thr@@\@toodeep\else
357 \advance\@itemdepth\@ne
358 \edef\@itemitem{labelitem\romannumeral\the\@itemdepth}%
359 \expandafter
360 \list
361 \csname\@itemitem\endcsname
362 {%
363 \def\makelabel##1{\hss\llap{##1}}%
364 %\def\makelabel##1{##1\hfill}%
365 %\def\makelabel##1{\hss##1}%
366 \LL@listsetup
367 }%
368 \fi}
369 \renewenvironment{description}
370 {\list{\labelwidth\z@ \itemindent-\leftmargin
371 \let\makelabel\descriptionlabel
372 \LL@listsetup}}
373 {\endlist}
374 \fi

```

## 2.5 Changing the page dimensions

`\setmargins` User command to specify the margins. (o, u, l, r)

`\setmargins{<top>}{<bottom>}{<left>}{<right>}`

The new user interface! By default, the `leaflet` class does not use headings, footings and marginal notes. If the user desires, these can be restored by setting the respective lengths *before* calling `\setmargins`. Setting the margins should *always* be done using `\setmargins`; if the user assigns to any of the length registers `\topmargin`, `\evensidemargin`, `\oddsidemargin`



```

using \setlength, chaos will happen.
375 \newcommand*\setmargins[4]{%
temp. top!
376 \setlength\topmargin{#1}%
377 \edef\LL@tmargin{\the\topmargin}%
temp. bottom!
378 \setlength\evensidemargin{#2}%
379 \textheight=\dimexpr\paperheight
380 -\topmargin-\evensidemargin-\headheight-\headsep-\footskip
temp. left!
381 \setlength\oddsidemargin{#3}%
temp. right!
382 \setlength\evensidemargin{#4}%
383 \textwidth=\dimexpr\paperwidth
384 -\oddsidemargin-\evensidemargin-\marginparwidth-\marginparsep
real top!
385 \addtolength\topmargin{-1in}%
real left!
386 \addtolength\oddsidemargin{-1in}%
probably not necessary
387 \evensidemargin\oddsidemargin
388 }

The dimensions of a single small page.
389 \LL@setPaperSize
390 \paperwidth=0.333333334\paperwidth
391 \setmargins{11mm}{11mm}{8mm}{8mm}

```

## 2.6 Additional user macros

`\foldmarkrule` The dimension of the foldmark between page 2 and page 3.

```

\foldmarklength 392 \newcommand*\foldmarkrule{0.4pt}
393 \newcommand*\foldmarklength{2mm}

```

`\AddToBackground` Adds the given parameter #2 (some picture commands) to a macro which will be used inside a zero-dimensional picture environment located at the lower left corner of a page. Parameter #1 selects the page number. The star version adds the picture commands to the background of one of the combined large pages instead of one of the small pages.

```

\AddToBackground* 394 \newcommand\AddToBackground{%
395 \ifstar{\@tempswatrue\LL@AddToBackground}
396 {\@tempswafalse\LL@AddToBackground}}
397 \@onlypreamble\AddToBackground
398 \newcommand\LL@AddToBackground[2]{%
399 \if@tempswa\def\@tempa{\LL@largePic}\else\def\@tempa{\LL@smallPic}\fi
400 \expandafter\providecommand\csname\@tempa\@Roman{#1}\endcsname{%
401 \expandafter\g@addto@macro\csname\@tempa\@Roman{#1}\endcsname{#2}}

```

`\CutLine` Adds a dotted line with two scissors on the left side of the page given as parameter #1. The starred version draws only the dotted line.

`\CutLine*`

`\Scissors`

```

402 \newcommand*\CutLine{%
403 \ifstar{\@tempswatrue\LL@CutLine}{\@tempswafalse\LL@CutLine}}
404 \@onlypreamble\CutLine
405 \newcommand*\LL@CutLine[1]{%
406 \ifLL@combine
407 \ifx\Scissors\@empty\@tempswatrue\fi
408 \if@tempswa
409 \AddToBackground{#1}{%

```

```

410      \put(0,0){%
411      \rotatebox{90}{\makebox(\paperheight,0){%
412      \normalsize
413      \dotfill}}}}%
414  \else
415      \AddToBackground{#1}{%
416      \put(0,0){%
417      \rotatebox{90}{\makebox(\paperheight,0){%
418      \normalsize
419      \dotfill\Scissors\dotfill\dotfill\Scissors\dotfill}}}}%
420  \fi
421 \fi}
422 \IfFileExists{pifont.sty}
423 {\RequirePackage{pifont}%
424  \newcommand*{\Scissors}{\raisebox{-0.85ex}{\large\ding{34}}}%
425 {\newcommand*{\Scissors}{}}

```

Adds the fold mark code between page 2 and page 3.

```

426 \AddToBackground{3}{\LL@foldmark}

```

## 2.7 Page construction and output

### 2.7.1 Intercepting the small pages

`\vb@xt@` Similar to `\hb@xt@` (should be part of the L<sup>A</sup>T<sub>E</sub>X kernel).

```

427 \providecommand*\vb@xt@{\vbox to}

```

We use our own page saving macro instead of real L<sup>A</sup>T<sub>E</sub>X output.

```

428 \AtBeginDocument{\AddToHook{shipout/before}{\LL@processPage}}

```

`LL@page` A counter for the small pages (absolute counting).

```

429 \newcounter{LL@page}\setcounter{LL@page}{1}
430 \newcommand\LL@tempa{}

```

`\LL@processPage` With “combine” option the six small pages will be saved in box registers (`\LL@boxI...` `\LL@boxVI`). The `\ShipoutBox` with the page content must be a bit moved to get a “normal-sized” box. In “nocombine” mode only put the background picture.

```

431 \newcommand*\LL@processPage{%
432   \ifLL@combine\DiscardShipoutBox\fi
433   \ifnum\c@LL@page<7\relax
434     \LL@tempdima=\paperwidth
435     \ifLL@combine
436       \iffoldcorr
437         \@tempswafalse
438         \ifnum\c@LL@page=4\relax
439           \@tempswatrue
440         \else
441           \ifnum\c@LL@page=5\relax
442             \@tempswatrue
443           \fi
444         \fi
445       \if@tempswa\LL@tempdima=0.9797979798\paperwidth
446       \else\LL@tempdima=1.0101010101\paperwidth \fi
447     \fi
448     %%\@@@exec@outs
449     \expandafter\newsavebox\c@name LL@box\Roman{LL@page}\endc@name%
450     \setbox\ShipoutBox=\vbox{\vskip1in\unvbox\ShipoutBox}%
451     \setbox\ShipoutBox=\vbox{\moveright1in\box\ShipoutBox}%
452     \setbox\ShipoutBox=\hb@xt@\paperwidth{\box\ShipoutBox\hss}%
453     \iffoldcorr
454     \setbox\ShipoutBox=\hb@xt@\LL@tempdima{\hss\box\ShipoutBox\hss}\fi

```

Add a background picture to a single small page ('combine').

```

455     \setbox\ShipoutBox=\vb@xt@\paperheight{%
456     \vbox{%
457     \pictur@(0,0)(0,\paperheight)%
458     \begingroup
459     \set@typeset@protect
460     \paperwidth=\LL@tempdima
461     \@nameuse{LL@smallPic\Roman{LL@page}}%
462     \endgroup
463     \endpicture
464     }%
465     \nointerlineskip\box\ShipoutBox\vss
466     }%
467     \global\expandafter\setbox
468     \csname LL@box\Roman{LL@page}\endcsname=\box\ShipoutBox
469     \typeout{\@spaces[\the\c@LL@page] ==> [\Roman{LL@page}]}%
470     \else

```

Add a background picture to a single small page ('nocombine').

```

471     \setbox\ShipoutBox\vbox{%
472     \vbox{\@tempdima=1in\relax
473     \@tempdimb=\paperheight\advance\@tempdimb-\@tempdima
474     \pictur@(0,0)(\@tempdima,\@tempdimb)%
475     \begingroup
476     \set@typeset@protect
477     \@nameuse{LL@smallPic\Roman{LL@page}}%
478     \endgroup
479     \endpicture
480     }%
481     \nointerlineskip\box\ShipoutBox
482     }%
483     \fi
484     \fi
485     \ifnum\c@LL@page=7\relax

```

Make this an error or warning message, depending on class option. (--> warning in all cases?)

```

486     \begingroup
487     \set@typeset@protect
488     \LL@toomanypages{%
489     The text you supplied fills more than six pages\MessageBreak
490     and will therefore not fit onto a single flyer}%
491     Try using smaller fonts or reducing vertical space}%
492     \endgroup
493     \fi
494     \stepcounter{LL@page}}

```

NOTE TO OURSELVES: All the following must be done if the document code is already processed.

`\LL@add@empty@pages` Generating missing small pages

```

495 \newcommand*\LL@add@empty@pages{%
496 \clearpage\pagestyle{empty}%
497 \loop\ifnum\c@LL@page<7\relax
498 \ClassInfo{leaflet}{Generating empty page \the\c@page}%
499 \null\newpage
500 \repeat
501 }

```

`\LL@shipout@combined@pages`

```

502 \newcommand*\LL@shipout@combined@pages{%

```

## 2.7.2 Reassembling the small pages

Suppresses all shipout hook's clients (removing other kinds of background pictures). Our page saving macro is still needed for the next step and must be set again.

```

503 \RemoveFromHook{shipout/foreground}[*]
504 \RemoveFromHook{shipout/background}[*]
505 \RemoveFromHook{shipout/firstpage}[*]
506 \RemoveFromHook{shipout/lastpage}[*]
507 \RemoveFromHook{shipout/before}[*]
508 \AddToHook{shipout/before}{\LL@processPage}

Create empty pages if necessary.
509 \LL@add@empty@pages

Here begins the real output. LaTeX's \shipout will no more suppressed. The begin dvi hook
is reactivated. Final removing content from the hook.
510 \RemoveFromHook{shipout/before}[*]
511 \let\@begindvi\LL@begindvi
512 \paperwidth=3\paperwidth
513 \iflandscape
514 \LL@pagesize@specials{\paperwidth}{\paperheight}%
515 \else
516 \LL@pagesize@specials{\paperheight}{\paperwidth}%
517 \fi

\LL@shipoutPage This is similar to LATEX's \outputpage, but without a group; \set@display@protect seems
to work as well.

\LL@preparePages Helper macros for page output: reassemble the small pages.
\LL@preparePage
518 \newcommand*\LL@shipoutPage[1]{%
519 % \set@display@protect
520 \let \protect \noexpand
521 \shipout\vb@xt@\paperheight{%
522 \set@typeset@protect
523 \vskip-1in%
524 \@begindvi\hb@xt@\paperwidth{\hskip-1in##1\hss}\vss}}%
525 \newcommand*\LL@preparePages[3]{%
526 \typeout{[[@Roman{##1}\space@Roman{##2}\space@Roman{##3}] ==>]}%

Add a background picture to a large page.
527 \pictur@(0,0)\@nameuse{\LL@largePic\Roman{page}}\endpicture%
528 \LL@preparePage{##1}\LL@preparePage{##2}\LL@preparePage{##3}}%
529 \newcommand*\LL@preparePage[1]{%
530 \expandafter\box\csname LL@box\@Roman{##1}\endcsname}%

Combine and output the frontside and the backside. The option two part arranges the pages
in a different than the “natural” order, to allow the typesetting of a 4 page leaflet and a
detachable 2 page form, for summaries, fill-in forms, applications, questionnaires, etc.
531 \LL@selectOutput
532 \iftwopart
533 {\setcounter{page}{1}%
534 \LL@shipoutPage{\LL@rotate@I{\LL@preparePages{6}{4}{1}}}%
535 {\setcounter{page}{2}%
536 \LL@shipoutPage{\LL@rotate@II{\LL@preparePages{2}{3}{5}}}%
537 \else
538 {\setcounter{page}{1}%
539 \LL@shipoutPage{\LL@rotate@I{\LL@preparePages{5}{6}{1}}}%
540 {\setcounter{page}{2}%
541 \LL@shipoutPage{\LL@rotate@II{\LL@preparePages{2}{3}{4}}}%
542 \fi
543 }%

544 \ifLL@combine
545 \AddToHook{enddocument/end}{\LL@shipout@combined@pages}
546 \else

Create empty pages if necessary and then call the normal LATEX end.
547 \LL@pagesize@specials{\paperwidth}{\paperheight}%

```

```

548 \AtEndDocument{%
549 \LL@add@empty@pages
550 }
551 \fi
552 \</class>

```

Done. Phew! (Did you hear that deep-drawn sigh?)

## Change History

v0.8c	General: Repacked as dtx file. (RN) . . . . 1	v1.0pre1	General: Redefinition of <code>\immediate</code> , <code>\write</code> , <code>\openout</code> and <code>\closeout</code> . (RN) . . . . . 1
v0.9d	General: LPPL 1.3 (HjG) . . . . . 1	v1.0pre2	General: eTeX support. (RN) . . . . . 1
	M-x delete-trailing-whitespace (HjG) . . 1	v1.0pre3	General: Options ‘landscape’ and ‘portait’. (RN) . . . . . 1
	More code documentation; some caveats. (HjG) . . . . . 1	v1.1a	<code>\LL@processPage</code> : Additions for new option ‘foldcorr’. (RN) . . . . . 10
v0.9e	General: Add option ‘finish’. (RN/HjG) . 1		General: New options ‘foldcorr/nofoldcorr’ suggested by Walter Schmidt. (RN) . . . . . 2
v0.9f	General: Merge v0.9d and v0.9e (hastily). (HjG) . . . . . 1		Using <code>\dimexpr</code> instead of package ‘calc’. (RN) . . . . . 6
v0.9g	General: Rename option ‘finish’ to ‘combine’. (RN/HjG) . . . . . 1	v1.1b	<code>\LL@pagesize@specials</code> : Adding code for LuaTeX >0.85. Thanks to Knut Lickert for his bug report. (RN) . . . . 6
v1.0	General: CTAN release. (RN/HjG) . . . . 1	v2.0a	<code>\LL@processPage</code> : Temporary don’t call <code>\@@@exec@outs</code> . (RN) . . . . . 10
v1.0a	General: Option ‘debug’. (RN) . . . . . 1		Using L <sup>A</sup> T <sub>E</sub> X’s new ‘shipout/before’ hook. (RN) . . . . . 10
v1.0b	<code>\closeout</code> : <code>\special</code> must be processed similar to e.g. <code>\write</code> (V <sub>T</sub> E <sub>X</sub> ). (RN) . 3		General: The macro <code>\LenToUnit</code> is no longer required. (RN) . . . . . 1
	General: New option <code>nospecialtricks</code> for testing purposes. (RN) . . . . . 1	v2.0b	<code>\LL@processPage</code> : Renamed <code>\LL@savePage</code> to <code>\LL@processPage</code> . (RN) . . . . . 10
v1.0c	<code>\LL@shipoutPage</code> : Fix <code>\protect-ion</code> problems. (RN/HjG) . . . . . 12		<code>\LL@shipout@combined@pages</code> : Suppress other background images. (RN) . . . . 11
v1.0d	<code>\LL@foldmark</code> : Invalid code for option “nofoldmark” changed. Thanks to Una Smith. (RN) . . . . . 2		General: Using hooks instead of redefinition of <code>\@@end</code> . (RN) . . . . . 11
	General: Options ‘twopart/notwopart’ suggested by Luis Rivera. No more ‘final’ in <code>\ExecuteOptions</code> suggested by Axel Berger (RN) . . . . . 1		
v1.0e	<code>\LL@pagesize@specials</code> : Patch from Toby Thurston for XeLaTeX. (RN) . . 6		

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