

The leaflet document class

Jürgen Schlegelmilch

Hubert Gäßlein

Rolf Niepraschk

Walter Schmidt

2012/06/04

Contents

1	Usage	1
2	Implementation	1
2.1	Saving some internal macros...	1
2.2	Option processing	1
2.3	Changing the class properties	6
2.4	Changing the page dimensions	8
2.5	Additional user macros	9
2.6	Page construction and output	9
2.6.1	Intercepting the small pages	9
2.6.2	Generating missing small pages	10
2.6.3	Reassembling the small pages	11

1 Usage

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

2 Implementation

```
1 \*class>
```

2.1 Saving some internal macros...

```
2 \let\LL@shipout\shipout \let\LL@outputpage\@outputpage
3 \let\LL@begindvi\@begindvi \let\LL@end\@end
```

2.2 Option processing

```
4 \ifundefined{iflandscape}{\newif{iflandscape}}{%
5 \ifundefined{iftumble}{\newif{iftumble}}{%
6 \ifundefined{iftwopart}{\newif{iftwopart}}{%
7 \newcommand\LL@debug@info[1]{}%
8 \DeclareOption{dvips}{\PassOptionsToPackage{\CurrentOption}{graphics}}
9 \DeclareOption{pdftex}{\PassOptionsToPackage{\CurrentOption}{graphics}}
10 \DeclareOption{vtex}{\PassOptionsToPackage{\CurrentOption}{graphics}}
11 \DeclareOption{dvipdfm}{\PassOptionsToPackage{\CurrentOption}{graphics}}
12 \DeclareOption{twoside}{\OptionNotUsed}
13 \DeclareOption{twocolumn}{\OptionNotUsed}
14 \DeclareOption{landscape}{\landscapetrue}
15 \DeclareOption{portrait}{\landscapefalse}
16 \DeclareOption{debug}{\let\LL@debug@info\typeout}
17 \DeclareOption{twopart}{\twoparttrue}
18 \DeclareOption{notwopart}{\twopartfalse}
19 \DeclareOption{nospecialtricks}{}%
20 \AtEndOfClass{%
21 \ifLL@combine
22 \let\immediate\@immediate\let\write\@write
```

```

23      \let\openout\@@@openout\let\closeout\@@@closeout
24      \let\special\@@@special\let\@@@exec@outs\relax
25      \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!

26 \newcommand*\LL@setPaperSize{}
27 \DeclareOption{a3paper}{\def\LL@setPaperSize{%
28   \paperwidth=420mm\paperheight=297mm\relax}}%
29 \@ifdefinable\ifLL@combine{\newif\ifLL@combine}
30 \DeclareOption{combine}{\LL@combinetrue}
31 \DeclareOption{nocombine}{\LL@combinefalse}

\LL@selectOutput

32 \newcommand*\LL@selectOutput{}
33 \DeclareOption{frontside}{\def\LL@selectOutput#1#2{#1}}
34 \DeclareOption{backside}{\def\LL@selectOutput#1#2{#2}}
35 \DeclareOption{bothsides}{\def\LL@selectOutput#1#2{#1#2}}

36 \DeclareOption{tumble}{\tumbletrue}
37 \DeclareOption{notumble}{\tumblefalse}

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

38 \newcommand*\LL@foldmark{}
39 \DeclareOption{foldmark}{%
40   \def\LL@foldmark{%
41     \begingroup
42       \linethickness{\LenToUnit{\foldmarkrule}}%
43       \setlength\@tempdima{\paperheight-\LL@tmargin}%
44       \put(0,\LenToUnit{\@tempdima}){%
45         \line(0,-1){\LenToUnit{\foldmarklength}}}%
46       \endgroup}%
47 }

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

49 \newcommand*\LL@toomanypages[2]{}
50 \DeclareOption{draft}{\PassOptionsToClass{\CurrentOption}{article}%
51   \AtEndOfClass{%
52     \def\LL@toomanypages#1#2{%
53       \ClassWarningNoLine{leaflet}{#1.\MessageBreak#2}}%
54   }%
55 }
56 \DeclareOption{final}{\PassOptionsToClass{\CurrentOption}{article}%
57   \AtEndOfClass{%
58     \ifLL@combine
59       \def\LL@toomanypages#1#2{%
60         \ClassError{leaflet}{#1}{#2.}}%
61     \else
62       \def\LL@toomanypages#1#2{%
63         \ClassWarningNoLine{leaflet}{#1.\MessageBreak#2}}%
64     \fi
65   }%
66 }
67 \DeclareOption*{\PassOptionsToClass{\CurrentOption}{article}}
68 \PassOptionsToClass{landscape,a4paper}{article}
69 \ExecuteOptions{tumble,foldmark,bothsides,combine,landscape,notwopart}
70 \ProcessOptions\relax
71 \ifLL@combine

\LL@rotate@I Rotates the output pages.
\LL@rotate@II
72 \newcommand*\LL@rotate@I{\newcommand*\LL@rotate@II{}}%
73 \iflandscape
74   \def\LL@rotate@I#1{#1}%

```

```

75 \iftumble
76 \def\LL@rotate@II#1{\rotatebox[origin=c]{180}{#1}}%
77 \else
78 \def\LL@rotate@II#1{#1}%
79 \fi
80 \else
81 \def\LL@rotate@I#1{\rotatebox[origin=c]{90}{#1}}%
82 \iftumble
83 \def\LL@rotate@II#1{\rotatebox[origin=c]{270}{#1}}%
84 \else
85 \def\LL@rotate@II#1{\rotatebox[origin=c]{90}{#1}}%
86 \fi
87 \fi

```

`\immediate` Im Folgenden definieren wir die TeX primitives `\immediate`, `\write`, `\openout` und `\closeout` um. Alle nicht “immediate” ausgeführten Anweisungen werden dem Makro `\@@@pending@outs` (Kommaliste) hinzugefügt. So können speziell die `\write`-Anweisungen unabhängig von TeX’s `\shipout` zu einem günstigen Zeitpunkt ausgeführt werden. For VTeX we must keep in mind that `\immediate\special` exist.

```

88 \def\@@@pending@outs{\let\@@@immediate\immediate
89 \let\@@@write\write \let\@@@special\special
90 \let\@@@openout\openout \let\@@@closeout\closeout
91 \def\immediate{%
92 \let\write\immediate@write%
93 \let\openout\immediate@openout%
94 \let\closeout\immediate@closeout%
95 \let\special\immediate@special}%
96 \def\reset@immediate{%
97 \let\write\pending@write%
98 \let\openout\pending@openout%
99 \let\closeout\pending@closeout%
100 \let\special\@@@special}%
101 \long\def\pending@write#1#{\pending@write{#1}}
102 \def\immediate@write{%
103 \reset@immediate\@@@immediate\@@@write}%
104 \def\immediate@openout{%
105 \reset@immediate\@@@immediate\@@@openout}%
106 \def\immediate@closeout{%
107 \reset@immediate\@@@immediate\@@@closeout}%
108 \def\immediate@special{%
109 \reset@immediate\@@@immediate\@@@special}%
110 \let\write\pending@write
111 \let\openout\pending@openout
112 \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.

```

113 \def\@dummy@whatsit{\special{}}
114 \begingroup\ifundefined{pdfoutput}%
115 {\endgroup}
116 {\endgroup
117 \ifnum\pdfoutput>\z\def\@dummy@whatsit{\pdfliteral{}}\fi}

118 \begingroup\expandafter\expandafter\expandafter\endgroup
119 \expandafter\ifx\csname eTeXversion\endcsname\relax
120 %%% Test is from Markus Kohm (d.c.t.t, 29 Jun 2004)
121 \ClassWarningNoLine{leaflet}{%
122 *****\MessageBreak
123 * It’s very recommended to use eTeX \MessageBreak
124 * with this package! \MessageBreak
125 *****}%

```

`\pending@write` Doesn’t work correctly without any `\mark` or `\special` or `\pdfliteral` command inside.

```

126 \long\def\pending@@write#1#2{%
127 \@dummy@whatsit
128 \g@addto@macro\@@@pending@outs{\@@@immediate\@@@write\number#1{#2},}%

\pending@openout
129 \def\pending@openout#1 {%
130 \@dummy@whatsit
131 \g@addto@macro\@@@pending@outs{\@@@immediate\@@@openout\number#1,}%

\pending@closeout
132 \def\pending@closeout#1{%
133 \@dummy@whatsit
134 \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.
135 \newcommand*\@@@exec@outs{%
136 \@@@pending@outs\gdef\@@@pending@outs{%
137 \LL@debug@info{%
138 >>> execute the output commands of the current page <<<}}%

139 \else
140 \RequirePackage{etex}
Allocation of a new mark class.
141 \globmarks\@@@out@mark
142 \newcounter{@@total@outs}\setcounter{@@total@outs}{0}
143 \newcounter{@@last@exec}\setcounter{@@last@exec}{0}

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

\pending@openout
\pending@@openout 148 \def\pending@openout#1 {%
\pending@@@openout 149 \global\advance\c@@@total@outs\@ne%
\@ifequalsign 150 \marks\@@@out@mark{\the\c@@@total@outs}%
151 \g@addto@macro\@@@pending@outs{\@@@immediate\@@@openout\number#1,}%

\pending@closeout
152 \def\pending@closeout#1{%
153 \global\advance\c@@@total@outs\@ne%
154 \marks\@@@out@mark{\the\c@@@total@outs}%
155 \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.
156 \newcommand*\@@@exec@outs{%
157 \begingroup
Pending io's = \@tempcntb = TOTAL-OUTS - LAST-EXEC
158 \@tempcntb\c@@@total@outs\advance\@tempcntb-\c@@@last@exec%
159 \edef\reserved@a{\botmarks\@@@out@mark}%
160 \ifx\reserved@a\@empty\@tempcnta\z@\else\@tempcnta\reserved@a\fi%
161 \LL@debug@info{PENDING-OUTS:\the\@tempcntb\space\space
162 TOTAL-OUTS:\the\c@@@total@outs\space\space
163 LAST-EXEC:\the\c@@@last@exec\space\space
164 TOPMARK:\topmarks\@@@out@mark\space\space
165 FIRSTMARK:\firstmarks\@@@out@mark\space\space
166 BOTMARK:\botmarks\@@@out@mark}%

```

Last valid pending entry = $\backslash\text{tempcntb}$ = PENDING-OUTS – TOTAL-OUTS + BOTMARK
Number of invalid (moved) out's = $\backslash\text{tempcnta}$ = TOTAL-OUTS – BOTMARK

```

167      \advance\@tempcnta-\c@@total@outs \advance\@tempcntb\@tempcnta
168      \@tempcnta-\@tempcnta%
169      \ifnum\@tempcnta>\z@
170          \LLdebug@info{%
171              >>> resave \the\@tempcnta\space output command(s).
172              Too early to execute! <<<}%
173      \fi
174      \@tempcnta\z@ \def\reserved@b{}%
175      \@for\reserved@a :=\@@@pending@outs\do{%
176          \ifx\reserved@a\@empty\else
177              \ifnum\@tempcnta<\@tempcntb%
178                  \reserved@a% execute output's related to the current page box.
179                  \global\advance\c@@@last@exec\@ne
180                  \LLdebug@info{>>> execute output command number
181                      \the\c@@@last@exec\space<<<}%
182              \else
183                  \expandafter\g@addto@macro\expandafter\reserved@b\expandafter{%
184                      \reserved@a,}%
185              \fi
186              \advance\@tempcnta\@ne%
187          \fi}%
188      \expandafter\@temptokena\expandafter{\reserved@b}%
189      \xdef\@@@pending@outs{\the\@temptokena}%
190      \endgroup}%
191      \fi% end of eTeX test.

```

$\backslash\text{protected@write}$ Because our redefined $\backslash\text{write}$ is expandable we must protect it inside of L^AT_EX's $\backslash\text{protected@write}$.

```

192      \long\def\protected@write#1#2#3{%
193          \begingroup
194              \let\thepage\relax
195              #2%
196              \let\protect\@unexpandable@protect
197              \edef\reserved@a{\noexpand\write#1{#3}}%
198              \reserved@a%
199          \endgroup
200          \if\nobreak\ifvmode\nobreak\fi\fi}%

```

$\backslash\text{shipout}$ We make L^AT_EX's $\backslash\text{shipout}$ inefficacious (no more shipout at all).

```

201      \def\shipout{\deadcycles\z@\setbox\@tempboxa=}

```

$\backslash\text{@begindvi}$ Delay $\backslash\text{@begindvi}$ to be executed until the real page output.

```

202      \let\@begindvi\@empty
203      \fi% end of \ifLL@combine

```

$\backslash\text{LL@toomanypages}$ Now elsewhere ...

```

204      \LoadClass{article}
205      \RequirePackage{everyshi,calc,graphicx}

```

$\backslash\text{LL@pagesize@specials}$ Now the graphics driver is known. We will Check the graphics driver and set special code for page dimensions and other.

```

206      \newcommand*\LL@pagesize@specials[2]{%
207          \@ifundefined{Gin@driver}{}%
208          {%
209              \ifx\Gin@driver\@empty\else%
210                  \filename@parse{\Gin@driver}\@tempswafalse%
211                  \def\reserved@a{dvips}%

```

```

212 \ifx\filename@base\reserved@a\@tempwattrue\fi%
213 \def\reserved@a{dvipdfm}%
214 \ifx\filename@base\reserved@a\@tempwattrue\fi%
215 \if@tempswa
216 \ClassInfo{leaflet}{Generating code for dvips}%
217 \def\LL@pagesize@specials#1#2{%
218 \@tempdima=#1\@tempdimb=#2%
219 \AtBeginDvi{\special{papersize=\the\@tempdima,\the\@tempdimb}}}%
220 \fi
221 \def\reserved@a{pdftex}%
222 \ifx\filename@base\reserved@a
223 \ClassInfo{leaflet}{Generating code for pdfTeX}%
224 \def\LL@pagesize@specials#1#2{%
225 \@tempdima=#1\@tempdimb=#2%
226 \pdfpagewidth\@tempdima\pdfpageheight\@tempdimb}%
227 \fi
228 \def\reserved@a{xetex}%
229 \ifx\filename@base\reserved@a
230 \ClassInfo{leaflet}{Generating code for XeTeX}%
231 \def\LL@pagesize@specials#1#2{%
232 \@tempdima=#1\@tempdimb=#2%
233 \pdfpagewidth\@tempdima\pdfpageheight\@tempdimb}%
234 \fi
235 \def\reserved@a{vtex}%
236 \ifx\filename@base\reserved@a
237 \ClassInfo{leaflet}{Generating code for VTeX}%
238 \def\LL@pagesize@specials#1#2{%
239 \@tempdima=#1\@tempdimb=#2%
240 \mediawidth\@tempdima\mediaheight\@tempdimb}%
241 \fi
242 \fi
243 }

```

\LL@CmdIgnored

```

244 \newcommand*\LL@CmdIgnored[1]{%
245 \ClassWarning{leaflet}{%
246 '\string#1' ignored}}

```

2.3 Changing the class properties

```

247 \setlength{\parskip}{1ex plus 2pt}
248 \@listi%
249 \setlength{\labelwidth}{\leftmargin}
250 \addtolength{\labelwidth}{-\labelsep}
251 \pagestyle{empty}
252 \headheight\z@
253 \headsep\z@
254 \footskip\z@
255 \marginparwidth\z@
256 \marginparsep\z@
257 \sloppy
258 \setcounter{secnumdepth}{0}
259 %\renewcommand\marginpar[2][]{\LL@CmdIgnored{\marginpar}}
260 \renewcommand\twocolumn[1][]{\LL@CmdIgnored{\twocolumn}}
261 \renewcommand\onecolumn{\LL@CmdIgnored{\onecolumn}}
262 \renewcommand\topfraction{0.7}
263 \renewcommand\bottomfraction{0.7}
264 \setlength{\textfloatsep}{10pt plus 4pt minus 3pt}
265 \setlength{\parindent}{\z@}
266 \setlength{\leftmargini}{1.5em}
267 \setlength{\leftmarginii}{1.5em}
268 \setlength{\leftmarginiii}{1.5em}
269 \setlength{\leftmarginiv}{1.5em}

```

```

270 \setlength{\leftmarginv}{1.5em}
271 \setlength{\leftmarginvi}{1.5em}
272 \setlength{\labelsep}{.5em}
273 \setlength{\labelwidth}{\leftmargini}
274 \addtolength{\labelwidth}{-\labelsep}

\noparskip

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

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

276 \let\old@small\small
277 \renewcommand{\small}{\old@small\let\@listi\@listI}
278 \let\old@footnotesize\footnotesize
279 \renewcommand{\footnotesize}{\old@footnotesize\let\@listi\@listI}

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

280 \newcommand{\sectfont}{\bfseries}

281 \renewcommand\section{\@startsection{section}{1}{\z@}%
282   {-3.5ex \@plus -.75ex}%
283   {1ex} %\{1.5ex}%
284   {\normalfont\large\sectfont}}
285 \renewcommand\subsection{\@startsection{subsection}{2}{\z@}%
286   {-2.5ex plus -.5ex}%
287   {1\p@} %\{1ex}%
288   {\normalfont\normalsize\sectfont}}
289 \renewcommand\subsubsection{\@startsection{subsubsection}{3}{\z@}%
290   {-2.5ex plus -.5ex}%
291   {-1em}%
292   {\normalfont\normalsize\sectfont}}
293 \def\part{\LL@CmdIgnored{\part}\secdef\@part\@spart}
294 \def\@part[#1]#2{}
295 \def\@spart#1{}
296
297 \renewcommand*\descriptionlabel[1]{%
298   \hspace{\labelsep}\normalfont\descfont #1}

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

299 \newcommand*\descfont{\bfseries}

300 \iffalse
301 % Doesn't work!
302 \g@addto@macro\enumerate{\parsep2\p@\@plus2\p@\@minus\z@}
303 \g@addto@macro\itemize{\parsep2\p@\@plus2\p@\@minus\z@}
304 \g@addto@macro\description{\parsep2\p@\@plus2\p@\@minus\z@}
305 \else
306 \newcommand*\LL@listsetup{%
307   \parsep.445ex\@plus.445ex\@minus.2225ex%
308   \parsep.5ex\@plus.5ex\@minus.25ex%
309   \parsep1ex\@plus.5ex\@minus.25ex%
310   \LL@debug@info{***parsep=\the\parsep}%
311   \itemsep.25\parsep
312   \itemsep\z@
313   \LL@debug@info{***itemsep=\the\itemsep}%
314   \topsep\z@
315   \LL@debug@info{***topsep=\the\topsep}%
316   \partopsep\z@
317   \LL@debug@info{***partopsep=\the\partopsep}%
318 }
319 \def\enumerate{%
320   \ifnum \@enumdepth >\thr@@\@toodeep\else
321     \advance\@enumdepth\@ne
322     \edef\@enumctr{enum\romannumeral\the\@enumdepth}%
323     \expandafter

```

```

324 \list
325 \csname label\@enumctr\endcsname
326 {\usecounter\@enumctr
327 \def\makelabel##1{\hss\llap{##1}}%
328 %\def\makelabel##1{##1\hfill}%
329 %\def\makelabel##1{\hss##1}%
330 \LL@listsetup
331 }%
332 \fi}
333 \def\itemize{%
334 \ifnum \@itemdepth >\thr@@\toodeep\else
335 \advance\@itemdepth\@ne
336 \edef\@itemitem{labelitem\romannumeral\the\@itemdepth}%
337 \expandafter
338 \list
339 \csname\@itemitem\endcsname
340 {%
341 \def\makelabel##1{\hss\llap{##1}}%
342 %\def\makelabel##1{##1\hfill}%
343 %\def\makelabel##1{\hss##1}%
344 \LL@listsetup
345 }%
346 \fi}
347 \renewenvironment{description}
348 {\list{}{\labelwidth\z@ \itemindent-\leftmargin
349 \let\makelabel\descriptionlabel
350 \LL@listsetup}}
351 {\endlist}
352 \fi

```

2.4 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.

```

353 \newcommand*\setmargins[4]{%
temp. top!
354 \setlength\topmargin{#1}%
355 \edef\LL@tmargin{\the\topmargin}%
temp. bottom!
356 \setlength\evensidemargin{#2}%
357 \setlength\textheight{%
358 \paperheight-\topmargin-\evensidemargin%
359 -\headheight-\headsep-\footsep}%
temp. left!
360 \setlength\oddsidemargin{#3}%
temp. right!
361 \setlength\evensidemargin{#4}%
362 \setlength\textwidth{%
363 \paperwidth-\oddsidemargin-\evensidemargin-\marginparwidth-\marginparsep}%
real top!
364 \addtolength\topmargin{-1in}%
real left!
365 \addtolength\oddsidemargin{-1in}%

```


probably not necessary

```
366 \evensidemargin\oddsidemargin%
367 }
```

The dimensions of a single small page.

```
368 \LL@setPaperSize
369 \paperwidth=0.333333334\paperwidth
370 \setmargins{11mm}{11mm}{8mm}{8mm}
```

2.5 Additional user macros

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

```
\foldmarklength 371 \newcommand*\foldmarkrule{0.4pt}
372 \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.

```
373 \newcommand\AddToBackground{%
374 \ifstar{\@tempswatrue\LL@AddToBackground}
375 {\@tempswafalse\LL@AddToBackground}}
376 \@onlypreamble\AddToBackground
377 \newcommand\LL@AddToBackground[2]{%
378 \if@tempswa\def\@tempa{\LL@largePic}\else\def\@tempa{\LL@smallPic}\fi
379 \expandafter\providecommand\csname\@tempa\@Roman{#1}\endcsname}%
380 \expandafter\g@addto@macro\csname\@tempa\@Roman{#1}\endcsname{#2}}
```

`\LenToUnit` `\LenToUnit{<dimension>}` can be used in a picture environment instead of multiples of `\unitlength`.

```
381 \newcommand\LenToUnit[1]{#1\@gobble}
```

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

```
\Scissors 382 \newcommand*\CutLine{%
383 \ifstar{\@tempswatrue\LL@CutLine}{\@tempswafalse\LL@CutLine}}
384 \@onlypreamble\CutLine
385 \newcommand*\LL@CutLine[1]{%
386 \ifLL@combine
387 \ifx\Scissors\@empty\@tempswatrue\fi
388 \if@tempswa
389 \AddToBackground{#1}{%
390 \put(0,0){%
391 \rotatebox{90}{\makebox(\LenToUnit{\paperheight},0){%
392 \normalsize
393 \dotfill}}}}}%
394 \else
395 \AddToBackground{#1}{%
396 \put(0,0){%
397 \rotatebox{90}{\makebox(\LenToUnit{\paperheight},0){%
398 \normalsize
399 \dotfill\Scissors\dotfill\dotfill\Scissors\dotfill}}}}}%
400 \fi
401 \fi}
402 \IfFileExists{pifont.sty}
403 {\RequirePackage{pifont}%
404 \newcommand*\Scissors{\raisebox{-0.85ex}{\large\ding{34}}}}%
405 {\newcommand*\Scissors{}}
```

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

```
406 \AddToBackground{3}{\LL@foldmark}
```

2.6 Page construction and output

2.6.1 Intercepting the small pages

`\vb@xt@` Similar to `\hb@xt@` (should be part of the L^AT_EX kernel).

```
407 \providecommand*\vb@xt@{\vbox to}
```

We use our own page saving macro instead of real L^AT_EX output.

```
408 \AtBeginDocument{\EveryShipout{\LL@savePage}}
```

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

```
409 \newcounter{LL@page}\setcounter{LL@page}{1}
```

```
410 \newcommand\LL@tempa{}
```

`\LL@savePage` With “combine” option the six small pages will be saved in box registers (`\LL@boxI...``\LL@boxVI`). The box255 with the page content must be a bit moved to get a “normal-sized” box.

```
411 \newcommand*\LL@savePage{%
```

```
412   \ifnum\c@LL@page<7\relax
```

Add a background picture to a single small page.

```
413   \setbox\@cclv\vbox{%
```

```
414     \vbox{\@tempdima=1in\relax
```

```
415       \@tempdimb=\paperheight\advance\@tempdimb-\@tempdima
```

```
416       \pictur@(0,0)(\LenToUnit{\@tempdima},\LenToUnit{\@tempdimb}})%
```

```
417       \begingroup
```

```
418       \set@typeset@protect
```

```
419       \@nameuse{LL@smallPic}\Roman{LL@page}}%
```

```
420       %\set@display@protect
```

```
421       \endgroup
```

```
422       \endpicture}%
```

```
423       \nointerlineskip\box\@cclv}%
```

```
424   \ifLL@combine
```

```
425     \@@@exec@outs
```

```
426     \expandafter\newsavebox\csname LL@box\Roman{LL@page}\endcsname%
```

```
427     \setbox\@cclv=\vbox{\vskip1in\unvbox\@cclv}%
```

```
428     \setbox\@cclv=\vbox{\moveright1in\box\@cclv}%
```

```
429     \setbox\@cclv=\hb@xt@\paperwidth{\box\@cclv\hss}%
```

```
430     \setbox\@cclv=\vb@xt@\paperheight{\box\@cclv\vss}%
```

```
431     \global\expandafter\setbox%
```

```
432     \csname LL@box\Roman{LL@page}\endcsname=\box\@cclv%
```

```
433     \typeout{\@spaces[\the\c@LL@page] ==> [\Roman{LL@page}]]}%
```

```
434   \fi
```

```
435 \fi
```

```
436 \ifnum\c@LL@page=7\relax
```

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

```
437   \begingroup
```

```
438   \set@typeset@protect
```

```
439   \LL@toomanypages{%
```

```
440     The text you supplied fills more than six pages\MessageBreak
```

```
441     and will therefore not fit onto a single flyer}{%
```

```
442     Try using smaller fonts or reducing vertical space}%
```

```
443   \endgroup
```

```
444 \fi
```

```
445 \stepcounter{LL@page}}
```

2.6.2 Generating missing small pages

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

```
446 \ifLL@combine
```

\@@end

```

447 \def\@@end{%
448 \clearpage\pagestyle{empty}%
Restore the original \@outputpage command (removing any related background pictures).
449 \let\@outputpage\LL@outputpage
Suppresses all everyshi's clients (removing other kinds of background pictures) but our page
saving macro is still needed for the next step and must be set again.
450 \def\@EveryShipout@Hook{}%
451 \def\@EveryShipout@AtNextHook{}%
452 \EveryShipout{\LL@savePage}%
Create empty pages if necessary.
453 \loop\ifnum\c@LL@page<7\relax
454 \ClassInfo{leaflet}{Generating empty page \the\c@page}%
455 \null\newpage
456 \repeat

```

2.6.3 Reassembling the small pages

Here begins the real output using L^AT_EX's original \shipout. The everyshi package isn't active any more. The begin dvi hook is reactivated.

```

457 \let\shipout\LL@shipout \let\@begindvi\LL@begindvi
458 \paperwidth=3\paperwidth
459 \iflandscape
460 \LL@pagesize@specials{\paperwidth}{\paperheight}%
461 \else
462 \LL@pagesize@specials{\paperheight}{\paperwidth}%
463 \fi

```

\LL@shipoutPage This is similar to L^AT_EX'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
464 \newcommand*\LL@shipoutPage[1]{%
465 % \set@display@protect
466 \let \protect \noexpand
467 \shipout\vb@xt@\paperheight{%
468 \set@typeset@protect
469 \vskip-1in%
470 \@begindvi\hb@xt@\paperwidth{\hskip-1in##1\hss}\vss}}%
471 \newcommand*\LL@preparePages[3]{%
472 \typeout{[\@Roman{##1}\space\@Roman{##2}\space\@Roman{##3}] ==>}%

```

Add a background picture to a large page.

```

473 \pictur@(0,0)\@nameuse{\LL@largePic\Roman{page}}\endpicture%
474 \LL@preparePage{##1}\LL@preparePage{##2}\LL@preparePage{##3}}%
475 \newcommand*\LL@preparePage[1]{%
476 \expandafter\box\c@name \LL@box\@Roman{##1}\endc@name}%

```

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.

```

477 \LL@selectOutput
478 \iftwopart
479 {\setcounter{page}{1}%
480 \LL@shipoutPage{\LL@rotate@I{\LL@preparePages{6}{4}{1}}}%
481 {\setcounter{page}{2}%
482 \LL@shipoutPage{\LL@rotate@II{\LL@preparePages{2}{3}{5}}}%
483 \else
484 {\setcounter{page}{1}%
485 \LL@shipoutPage{\LL@rotate@I{\LL@preparePages{5}{6}{1}}}%
486 {\setcounter{page}{2}%

```

```

487         \LL@shipoutPage{\LL@rotate@II{\LL@preparePages{2}{3}{4}}}%
488     \fi
489     \LL@@end
490 }%
    End of the redefinition of \@@end.

491 \else
    Create empty pages if necessary and then call the normal LATEX end.
492 \LL@pagesize@specials{\paperwidth}{\paperheight}%
493 \AtEndDocument{%
494     \clearpage\pagestyle{empty}%
495     \loop\ifnum\c@LL@page<7\relax
496         \ClassInfo{leaflet}{Generating empty page \the\c@page}%
497         \null\newpage
498     \repeat
499 }
500 \fi
501 \</class>
    Done. Phew! (Did you hear that deep-drawn sigh?)

```