

# The leaflet document class

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## 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 \ifundefined{iffoldcorr}{\newif\iffoldcorr}{}%
8 \newlength\LL@tempdima
9 \newcommand\LL@debug@info[1]{}%
10 \DeclareOption{dvips}{\PassOptionsToPackage{\CurrentOption}{graphics}}
11 \DeclareOption{pdftex}{\PassOptionsToPackage{\CurrentOption}{graphics}}
12 \DeclareOption{vtex}{\PassOptionsToPackage{\CurrentOption}{graphics}}
13 \DeclareOption{dvipdfm}{\PassOptionsToPackage{\CurrentOption}{graphics}}
14 \DeclareOption{twoside}{\OptionNotUsed}
15 \DeclareOption{twocolumn}{\OptionNotUsed}
16 \DeclareOption{landscape}{\landscapetrue}
17 \DeclareOption{portrait}{\landscapefalse}
18 \DeclareOption{debug}{\let\LL@debug@info\typeout}
19 \DeclareOption{twopart}{\twoparttrue}
20 \DeclareOption{notwopart}{\twopartfalse}
21 \DeclareOption{nospecialtricks}{%
22 \AtEndOfClass{%
```

```

23 \ifLL@combine
24 \let\immediate\@@immediate\let\write\@@write
25 \let\openout\@@openout\let\closeout\@@closeout
26 \let\special\@@special\let\@@@exec@outs\relax
27 \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!

```

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

```

`\LL@selectOutput`

```

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

38 \DeclareOption{tumble}{\tumbletrue}
39 \DeclareOption{notumble}{\tumblefalse}

```

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

```

40 \newcommand*\LL@foldmark{}
41 \DeclareOption{foldmark}{%
42 \def\LL@foldmark{%
43 \begingroup
44 \linethickness{\LenToUnit{\foldmarkrule}}%
45 \@tempdima=\dimexpr\paperheight-\LL@tmargin
46 \put(0,\LenToUnit{\@tempdima}){%
47 \line(0,-1){\LenToUnit{\foldmarklength}}}%
48 \endgroup}%
49 }

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

51 \DeclareOption{foldcorr}{\foldcorrtrue}
52 \DeclareOption{nofoldcorr}{\foldcorrfalse}

53 \newcommand*\LL@toomanypages[2]{}
54 \DeclareOption{draft}{\PassOptionsToClass{\CurrentOption}{article}}%
55 \AtEndOfClass{%
56 \def\LL@toomanypages#1#2{%
57 \ClassWarningNoLine{leaflet}{#1.\MessageBreak#2}}%
58 }%
59 }

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

71 \DeclareOption*{\PassOptionsToClass{\CurrentOption}{article}}
72 \PassOptionsToClass{landscape,a4paper}{article}
73 \ExecuteOptions{tumble,foldmark,bothsides,combine,landscape,notwopart}
74 \ProcessOptions\relax
75 \ifLL@combine

```

```

\LL@rotate@I Rotates the output pages.
\LL@rotate@II 76 \newcommand*\LL@rotate@I{\newcommand*\LL@rotate@II{}}
77 \iflandscape
78 \def\LL@rotate@I#1{#1}%
79 \iftumble
80 \def\LL@rotate@II#1{\rotatebox[origin=c]{180}{#1}}%
81 \else
82 \def\LL@rotate@II#1{#1}%
83 \fi
84 \else
85 \def\LL@rotate@I#1{\rotatebox[origin=c]{90}{#1}}%
86 \iftumble
87 \def\LL@rotate@II#1{\rotatebox[origin=c]{270}{#1}}%
88 \else
89 \def\LL@rotate@II#1{\rotatebox[origin=c]{90}{#1}}%
90 \fi
91 \fi

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

92 \def\@@@pending@outs{\let\@@@immediate\immediate
93 \let\@@@write\write \let\@@@special\special
94 \let\@@@openout\openout \let\@@@closeout\closeout
95 \def\immediate{%
96 \let\write\immediate@write%
97 \let\openout\immediate@openout%
98 \let\closeout\immediate@closeout%
99 \let\special\immediate@special}%
100 \def\reset@immediate{%
101 \let\write\pending@write%
102 \let\openout\pending@openout%
103 \let\closeout\pending@closeout%
104 \let\special\@@@special}%
105 \long\def\pending@write#1{\pending@write{#1}}
106 \def\immediate@write{%
107 \reset@immediate\@@@immediate\@@@write}%
108 \def\immediate@openout{%
109 \reset@immediate\@@@immediate\@@@openout}%
110 \def\immediate@closeout{%
111 \reset@immediate\@@@immediate\@@@closeout}%
112 \def\immediate@special{%
113 \reset@immediate\@@@immediate\@@@special}%
114 \let\write\pending@write
115 \let\openout\pending@openout
116 \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.

117 \def\@dummy@whatsit{\special{}}
118 \begingroup\@ifundefined{pdfoutput}%
119 {\endgroup}
120 {\endgroup}
121 \ifnum\pdfoutput>\z@\def\@dummy@whatsit{\pdfliteral{}}\fi

122 \begingroup\expandafter\expandafter\expandafter\endgroup
123 \expandafter\ifx\cname eTeXversion\endcsname\relax
124 %% Test is from Markus Kohm (d.c.t.t, 29 Jun 2004)
125 \ClassWarningNoLine{leaflet}{%
126 *****\MessageBreak
127 * It's very recommended to use eTeX \MessageBreak

```

```

128 * with this package! \MessageBreak
129 *****}%

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

\pending@openout
133 \def\pending@openout#1 {%
134 \@dummy@whatsit
135 \g@addto@macro\@@@pending@outs{\@@@immediate\@@@openout\number#1,}%

\pending@closeout
136 \def\pending@closeout#1{%
137 \@dummy@whatsit
138 \g@addto@macro\@@@pending@outs{\@@@immediate\@@@closeout\number#1,}%

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

143 \else
144 \RequirePackage{etex}

Allocation of a new mark class.
145 \globmarks\@@@out@mark
146 \newcounter{@@total@outs}\setcounter{@@total@outs}{0}
147 \newcounter{@@last@exec}\setcounter{@@last@exec}{0}

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

\pending@openout
\pending@@openout 152 \def\pending@openout#1 {%
\pending@@@openout 153 \global\advance\c@@@total@outs\@ne%
\@ifequalsign 154 \marks\@@@out@mark{\the\c@@@total@outs}%
155 \g@addto@macro\@@@pending@outs{\@@@immediate\@@@openout\number#1,}%

\pending@closeout
156 \def\pending@closeout#1{%
157 \global\advance\c@@@total@outs\@ne%
158 \marks\@@@out@mark{\the\c@@@total@outs}%
159 \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.
160 \newcommand*\@@@exec@outs{%
161 \begingroup

Pending io's = \@tempcntb = TOTAL-OUTS - LAST-EXEC
162 \@tempcntb\c@@@total@outs\advance\@tempcntb-\c@@@last@exec%
163 \edef\reserved@a{\botmarks\@@@out@mark}%
164 \ifx\reserved@a\@empty\@tempcnta\z@\else\@tempcnta\reserved@a\fi%

```

```

165     \LL@debug@info{PENDING-OUTS:\the\@tempcntb\space\space
166         TOTAL-OUTS:\the\c@@@total@outs\space\space
167         LAST-EXEC:\the\c@@@last@exec\space\space
168         TOPMARK:\topmarks\@@@out@mark\space\space
169         FIRSTMARK:\firstmarks\@@@out@mark\space\space
170         BOTMARK:\botmarks\@@@out@mark}%

Last valid pending entry = \@tempcntb = PENDING-OUTS - TOTAL-OUTS + BOTMARK
Number of invalid (moved) out's = \@tempcnta = TOTAL-OUTS - BOTMARK

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

195 \fi% end of eTeX test.

```

`\protected@write` Because our redefined `\write` is expandable we must protect it inside of L<sup>A</sup>T<sub>E</sub>X's `\protected@write`.

```

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

```

`\shipout` We make L<sup>A</sup>T<sub>E</sub>X's `\shipout` inefficacious (no more shipout at all).

```

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

```

`\@begindvi` Delay `\@begindvi` to be executed until the real page output.

```

206 \let\@begindvi\@empty
207 \fi% end of \ifLL@combine

```

`\LL@toomanypages` Now elsewhere ...

```

208 \LoadClass{article}
209 \RequirePackage{everyshi,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.

```

210 \newcommand*\LL@pagesize@specials[2]{%
211 \ifundefined{Gin@driver}{}%
212 {%
213 \ifx\Gin@driver\empty\else%
214 \filename@parse{\Gin@driver}\@tempwafalse%
215 \def\reserved@a{dvips}%
216 \ifx\filename@base\reserved@a\@tempwattrue\fi%
217 \def\reserved@a{dvipdfm}%
218 \ifx\filename@base\reserved@a\@tempwattrue\fi%
219 \if@tempswa
220 \ClassInfo{leaflet}{Generating code for dvips}%
221 \def\LL@pagesize@specials#1#2{%
222 \@tempdima=#1\@tempdimb=#2%
223 \AtBeginDvi{\special{papersize=\the\@tempdima,\the\@tempdimb}}}%
224 \fi
225 \def\reserved@a{pdftex}%
226 \ifx\filename@base\reserved@a
227 \ClassInfo{leaflet}{Generating code for pdfTeX}%
228 \def\LL@pagesize@specials#1#2{%
229 \@tempdima=#1\@tempdimb=#2%
230 \pdfpagewidth\@tempdima\pdfpageheight\@tempdimb}%
231 \fi
232 \def\reserved@a{xetex}%
233 \ifx\filename@base\reserved@a
234 \ClassInfo{leaflet}{Generating code for XeTeX}%
235 \def\LL@pagesize@specials#1#2{%
236 \@tempdima=#1\@tempdimb=#2%
237 \pdfpagewidth\@tempdima\pdfpageheight\@tempdimb}%
238 \fi
239 \def\reserved@a{vtex}%
240 \ifx\filename@base\reserved@a
241 \ClassInfo{leaflet}{Generating code for VTeX}%
242 \def\LL@pagesize@specials#1#2{%
243 \@tempdima=#1\@tempdimb=#2%
244 \mediawidth\@tempdima\mediaheight\@tempdimb}%
245 \fi
246 \fi
247 }

```

`\LL@CmdIgnored`

```

248 \newcommand*\LL@CmdIgnored[1]{%
249 \ClassWarning{leaflet}{%
250 '\string#1' ignored}}

```

### 2.3 Changing the class properties

```

251 \setlength{\parskip}{1ex plus 2pt}
252 \@listi%
253 \setlength{\labelwidth}{\leftmargin}
254 \addtolength{\labelwidth}{-\labelsep}
255 \pagestyle{empty}
256 \headheight\z@
257 \headsep\z@
258 \footskip\z@
259 \marginparwidth\z@
260 \marginparsep\z@
261 \sloppy
262 \setcounter{secnumdepth}{0}
263 %\renewcommand\marginpar[2][\LL@CmdIgnored{\marginpar}]
264 \renewcommand\twocolumn[1][\LL@CmdIgnored{\twocolumn}]
265 \renewcommand\onecolumn{\LL@CmdIgnored{\onecolumn}}

```

```

266 \renewcommand\topfraction{0.7}
267 \renewcommand\bottomfraction{0.7}
268 \setlength{\textfloatsep}{10pt plus 4pt minus 3pt}
269 \setlength{\parindent}{\z@}
270 \setlength{\leftmarginii}{1.5em}
271 \setlength{\leftmarginiii}{1.5em}
272 \setlength{\leftmarginiiii}{1.5em}
273 \setlength{\leftmarginiv}{1.5em}
274 \setlength{\leftmarginv}{1.5em}
275 \setlength{\leftmarginvi}{1.5em}
276 \setlength{\labelsep}{.5em}
277 \setlength \labelwidth{\leftmarginii}
278 \addtolength\labelwidth{-\labelsep}

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

Modification of list and section parameters for a more compact layout.
280 \let\old@small\small
281 \renewcommand{\small}{\old@small\let\@listi\@listI}
282 \let\old@footnotesize\footnotesize
283 \renewcommand{\footnotesize}{\old@footnotesize\let\@listi\@listI}

\sectfont User macro for changing the font of the typesetted parameter of the \?section commands.
284 \newcommand{\sectfont}{\bfseries}

285 \renewcommand\section{\@startsection{section}{1}{\z@}%
286   {-3.5ex \@plus -.75ex}%
287   {1ex} %\{1.5ex}%
288   {\normalfont\large\sectfont}}
289 \renewcommand\subsection{\@startsection{subsection}{2}{\z@}%
290   {-2.5ex plus -.5ex}%
291   {1\p@} %\{1ex}%
292   {\normalfont\normalsize\sectfont}}
293 \renewcommand\subsubsection{\@startsection{subsubsection}{3}{\z@}%
294   {-2.5ex plus -.5ex}%
295   {-1em}%
296   {\normalfont\normalsize\sectfont}}
297 \def\part{\LL@CmdIgnored{\part}\secdef\@part\@spart}
298 \def\@part[#1]#2{
299 \def\@spart#1{
300
301 \renewcommand*\descriptionlabel[1]{%
302 \hspace\labelsep\normalfont\descfont #1}

\descfont User macro for changing the font of the description label.
303 \newcommand*\descfont{\bfseries}

304 \iffalse
305 % Doesn't work!
306 \g@addto@macro\enumerate{\parsep2\p@\@plus2\p@\@minus\z@}
307 \g@addto@macro\itemize{\parsep2\p@\@plus2\p@\@minus\z@}
308 \g@addto@macro\description{\parsep2\p@\@plus2\p@\@minus\z@}
309 \else
310 \newcommand*\LL@listsetup{%
311 % \parsep.445ex\@plus.445ex\@minus.2225ex%
312 % \parsep.5ex\@plus.5ex\@minus.25ex%
313 \parsep1ex\@plus.5ex\@minus.25ex%
314 \LL@debug@info{***parsep=\the\parsep}%
315 % \itemsep.25\parsep
316 \itemsep\z@
317 \LL@debug@info{***itemsep=\the\itemsep}%
318 \topsep\z@
319 \LL@debug@info{***topsep=\the\topsep}%

```

```

320 % \partopsep\z@
321 \LL@debug@info{***partopsep=\the\partopsep}%
322 }
323 \def\enumerate{%
324 \ifnum \@enumdepth >\thr@@\toodeep\else
325 \advance\@enumdepth\@ne
326 \edef\@enumctr{enum\romannumeral\the\@enumdepth}%
327 \expandafter
328 \list
329 \csname label\@enumctr\endcsname
330 {\usecounter\@enumctr
331 \def\makelabel##1{\hss\llap{##1}}%
332 %\def\makelabel##1{##1\hfill}%
333 %\def\makelabel##1{\hss##1}%
334 \LL@listsetup
335 }%
336 \fi}
337 \def\itemize{%
338 \ifnum \@itemdepth >\thr@@\toodeep\else
339 \advance\@itemdepth\@ne
340 \edef\@itemitem{labelitem\romannumeral\the\@itemdepth}%
341 \expandafter
342 \list
343 \csname\@itemitem\endcsname
344 {%
345 \def\makelabel##1{\hss\llap{##1}}%
346 %\def\makelabel##1{##1\hfill}%
347 %\def\makelabel##1{\hss##1}%
348 \LL@listsetup
349 }%
350 \fi}
351 \renewenvironment{description}
352 {\list{}{\labelwidth\z@ \itemindent-\leftmargin
353 \let\makelabel\descriptionlabel
354 \LL@listsetup}}
355 {\endlist}
356 \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.

```

357 \newcommand*\setmargins[4]{%
temp. top!
358 \setlength\topmargin{#1}%
359 \edef\LL@tmargin{\the\topmargin}%
temp. bottom!
360 \setlength\evensidemargin{#2}%
361 \textheight=\dimexpr\paperheight
362 -\topmargin-\evensidemargin-\headheight-\headsep-\footskip
temp. left!
363 \setlength\oddsidemargin{#3}%
temp. right!
364 \setlength\evensidemargin{#4}%
365 \textwidth=\dimexpr\paperwidth

```



```

366     -\oddsidemargin-\evensidemargin-\marginparwidth-\marginparsep
real top!
367   \addtolength\topmargin{-1in}%
real left!
368   \addtolength\oddsidemargin{-1in}%
probably not necessary
369   \evensidemargin\oddsidemargin
370 }

```

The dimensions of a single small page.

```

371 \LL@setPaperSize
372 \paperwidth=0.333333334\paperwidth
373 \setmargins{11mm}{11mm}{8mm}{8mm}

```

## 2.5 Additional user macros

```

\foldmarkrule The dimension of the foldmark between page 2 and page 3.
\foldmarklength 374 \newcommand*\foldmarkrule{0.4pt}
375 \newcommand*\foldmarklength{2mm}

\AddToBackground Adds the given parameter #2 (some picture commands) to a macro which will be used inside a
\AddToBackground* 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.
376 \newcommand\AddToBackground{%
377   \@ifstar{\@tempwatrue\LL@AddToBackground}
378           {\@tempwafalse\LL@AddToBackground}}
379 \@onlypreamble\AddToBackground
380 \newcommand\LL@AddToBackground[2]{%
381   \if@tempswa\def\@tempa{\LL@largePic}\else\def\@tempa{\LL@smallPic}\fi
382   \expandafter\providecommand\csname\@tempa\@Roman{#1}\endcsname{}}%
383   \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.
384 \providecommand\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 385 \newcommand*\CutLine{%
386   \@ifstar{\@tempwatrue\LL@CutLine}{\@tempwafalse\LL@CutLine}}
387 \@onlypreamble\CutLine
388 \newcommand*\LL@CutLine[1]{%
389   \ifLL@combine
390     \ifx\Scissors\@empty\@tempwatrue\fi
391     \if@tempswa
392       \AddToBackground{#1}{%
393         \put(0,0){%
394           \rotatebox{90}{\makebox(\LenToUnit{\paperheight},0){%
395             \normalsize
396             \dotfill}}}}}%
397     \else
398       \AddToBackground{#1}{%
399         \put(0,0){%
400           \rotatebox{90}{\makebox(\LenToUnit{\paperheight},0){%
401             \normalsize
402             \dotfill\Scissors\dotfill\dotfill\Scissors\dotfill}}}}}%
403     \fi
404   \fi}
405 \IfFileExists{pifont.sty}

```

```

406 {\RequirePackage{pifont}%
407 \newcommand*\Scissors{\raisebox{-0.85ex}{\large\ding{34}}}%
408 {\newcommand*\Scissors{}}

```

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

```

409 \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<sup>A</sup>T<sub>E</sub>X kernel).

```

410 \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.

```

411 \AtBeginDocument{\EveryShipout{\LL@savePage}}

```

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

```

412 \newcounter{LL@page}\setcounter{LL@page}{1}
413 \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.

```

414 \newcommand*\LL@savePage{%
415 \ifnum\c@LL@page<7\relax
416 \LL@tempdima=\paperwidth
417 \ifLL@combine
418 \iffoldcorr
419 \@tempswafalse
420 \ifnum\c@LL@page=4\relax
421 \@tempswatruel
422 \else
423 \ifnum\c@LL@page=5\relax
424 \@tempswatruel
425 \fi
426 \fi
427 \if@tempswa\LL@tempdima=0.9797979798\paperwidth
428 \else\LL@tempdima=1.0101010101\paperwidth \fi
429 \fi
430 \@@@exec@outs
431 \expandafter\newsavebox\c@name LL@box\Roman{LL@page}\endcsname%
432 \setbox\@cclv=\vbox{\vskip1in\unvbox\@cclv}%
433 \setbox\@cclv=\vbox{\moveright1in\box\@cclv}%
434 \setbox\@cclv=\hb@xt@\paperwidth{\box\@cclv\hss}%
435 \iffoldcorr\setbox\@cclv=\hb@xt@\LL@tempdima{\hss\box\@cclv\hss}\fi

```

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

```

436 \setbox\@cclv=\vb@xt@\paperheight{%
437 \vbox{%
438 \pictur@(0,0)(0,\LenToUnit{\paperheight})%
439 \begingroup
440 \set@typeset@protect
441 \paperwidth=\LL@tempdima
442 \@nameuse{LL@smallPic\Roman{LL@page}}%
443 \endgroup
444 \endpicture
445 }%
446 \nointerlineskip\box\@cclv\vss
447 }%
448 \global\expandafter\setbox
449 \c@name LL@box\Roman{LL@page}\endcsname=\box\@cclv
450 \typeout{\@spaces[\the\c@LL@page] ==> [\Roman{LL@page}]}%
451 \else

```

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

```

452     \setbox\@cclv\vbox{%
453     \vbox{\@tempdima=1in\relax
454     \@tempdimb=\paperheight\advance\@tempdimb-\@tempdima
455     \pictur@(0,0)(\LenToUnit{\@tempdima},\LenToUnit{\@tempdimb})}%
456     \begingroup
457     \set@typeset@protect
458     \@nameuse{LL@smallPic\Roman{LL@page}}%
459     \endgroup
460     \endpicture
461     }%
462     \nointerlineskip\box\@cclv
463     }%
464     \fi
465     \fi
466     \ifnum\c@LL@page=7\relax

```

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

```

467     \begingroup
468     \set@typeset@protect
469     \LL@toomanypages{%
470     The text you supplied fills more than six pages\MessageBreak
471     and will therefore not fit onto a single flyer}%
472     Try using smaller fonts or reducing vertical space}%
473     \endgroup
474     \fi
475     \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.

```
476 \ifLL@combine
```

\@@end

```

477 \def\@@end{%
478 \clearpage\pagestyle{empty}%

```

Restore the original \@outputpage command (removing any related background pictures).

```

479 \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.

```

480 \def\@EveryShipout@Hook{}%
481 \def\@EveryShipout@AtNextHook{}%
482 \EveryShipout{\LL@savePage}%

```

Create empty pages if necessary.

```

483 \loop\ifnum\c@LL@page<7\relax
484 \ClassInfo{leaflet}{Generating empty page \the\c@page}%
485 \null\newpage
486 \repeat

```

## 2.6.3 Reassembling the small pages

Here begins the real output using L<sup>A</sup>T<sub>E</sub>X's original \shipout. The everyshi package isn't active any more. The begin dvi hook is reactivated.

```

487 \let\shipout\LL@shipout \let\@begindvi\LL@begindvi
488 \paperwidth=3\paperwidth
489 \iflandscape
490 \LL@pagesize@specials{\paperwidth}{\paperheight}%
491 \else
492 \LL@pagesize@specials{\paperheight}{\paperwidth}%
493 \fi

```

`\LL@shipoutPage` This is similar to L<sup>A</sup>T<sub>E</sub>X'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
494   \newcommand*\LL@shipoutPage[1]{%
495 %   \set@display@protect
496   \let \protect \noexpand
497   \shipout\vbox{\paperheight{%
498     \set@typeset@protect
499     \vskip-1in%
500     \@beginvdi\hbox{\paperwidth{\hskip-1in##1\hss}\vss}}%
501   \newcommand*\LL@preparePages[3]{%
502     \typeout{[\@Roman{##1}\space\@Roman{##2}\space\@Roman{##3}] ==>}%

```

Add a background picture to a large page.

```
503   \pictur@(0,0)\@nameuse{\LL@largePic\Roman{page}}\endpicture%
504   \LL@preparePage{##1}\LL@preparePage{##2}\LL@preparePage{##3}%
505   \newcommand*\LL@preparePage[1]{%
506     \expandafter\box\cname 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.

```
507   \LL@selectOutput
508   \iftwopart
509     {\setcounter{page}{1}%
510     \LL@shipoutPage{\LL@rotate@I{\LL@preparePages{6}{4}{1}}}%
511     {\setcounter{page}{2}%
512     \LL@shipoutPage{\LL@rotate@II{\LL@preparePages{2}{3}{5}}}%
513   \else
514     {\setcounter{page}{1}%
515     \LL@shipoutPage{\LL@rotate@I{\LL@preparePages{5}{6}{1}}}%
516     {\setcounter{page}{2}%
517     \LL@shipoutPage{\LL@rotate@II{\LL@preparePages{2}{3}{4}}}%
518   \fi
519   \LL@@end
520 }%

```

End of the redefinition of `\@@end`.

521 `\else`

Create empty pages if necessary and then call the normal L<sup>A</sup>T<sub>E</sub>X end.

```
522 \LL@pagesize@specials{\paperwidth}{\paperheight}%
523 \AtEndDocument{%
524   \clearpage\pagestyle{empty}%
525   \loop\ifnum\c@LL@page<7\relax
526     \ClassInfo{leaflet}{Generating empty page \the\c@page}%
527     \null\newpage
528   \repeat
529 }
530 \fi
531 \endclass

```

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

## Change History

|                                      |         |  |
|--------------------------------------|---------|--|
| v0.8c                                |         | More code documentation; some              |
| General: Repacked as dtx file. (RN)  | .... 1  | caveats. (HjG) ..... 1                     |
| v0.9d                                |         | v0.9e                                      |
| General: LPPL 1.3 (HjG)              | ..... 1 |  |
| M-x delete-trailing-whitespace (HjG) | . 1     | General: Add option ‘finish’. (RN/HjG) . 1 |

|       |   |  |
|-------|---|--|
| v0.9f | General: Merge v0.9d and v0.9e (hastily).<br>(HjG) . . . . . 1                                | 'final' in <code>\ExecuteOptions</code> suggested<br>by Axel Berger (RN) . . . . . 1   |
| v0.9g | General: Rename option 'finish' to 'combine'. (RN/HjG) . . . . . 1                            | <code>\LL@pagesize@specials</code> : Patch from<br>Toby Thurston for XeLaTeX. (RN) . . . 6   |
| v1.0  | General: CTAN release. (RN/HjG) . . . . . 1   | General: Redefinition of <code>\immediate</code> ,<br><code>\write</code> , <code>\openout</code> and <code>\closeout</code> .<br>(RN) . . . . . 1 |
| v1.0a | General: Option 'debug'. (RN) . . . . . 1   | <code>\LenToUnit</code> : New macro <code>\LenToUnit</code> .<br>(RN) . . . . . 9  |
| v1.0b | General: New option <code>nospecialtricks</code> for<br>testing purposes. (RN) . . . . . 1    | General: Options 'landscape' and 'portrait'. (RN) . . . . . 1  |
| v1.0c | <code>\LL@shipoutPage</code> : Fix <code>\protect</code> -ion problems. (RN/HjG) . . . . . 12 | General: eTeX support. (RN) . . . . . 1  |
| v1.0d | General: Options 'twopart/notwopart'<br>suggested by Luis Rivera. No more                     | General: Options 'foldcorr/nofoldcorr'<br>suggested by Walter Schmidt. (RN) . . . 2  |
|       |   | Using <code>\dimexpr</code> instead of package<br>'calc'.(RN) . . . . . 5  |
|       |   | <code>\LenToUnit</code> : <code>\providecommand</code> instead of<br><code>\newcommand</code> . (RN) . . . . . 9                                   |
|       |   | <code>\LL@savePage</code> : Additions for new option<br>'foldcorr'. (RN) . . . . . 10  |

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| <code>\LL@foldmark</code> . . . . .        | <u>40</u> , 409                                  | <code>\partopsep</code> . . . . .  | 320, 321   | <code>\twopartfalse</code> . . . . .                      | 20                                |
| <code>\LL@listsetup</code> . . . . .       | 310, 334, 348, 354                               | <code>\PassOptionsToClass</code> . . . . .   | 54, 60, 71, 72   | <code>\twoparttrue</code> . . . . .                       | 19                                |