

The **leaflet** document class

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1 Usage

Process the file `leaflet-manual.tex` with L^AT_EX 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{nospécialtricks}{%
20   \AtEndOfClass{%
21     \ifLL@combine
22       \let\immediate\@Immediate\let\write\@Write
```

```

23      \let\openout\@openout\let\closeout\@closeout
24      \let\special\@special\let\@execouts\relax
25      \fi}%
26 \newcommand*\LL@setPaperSize{%
27 \DeclareOption{a3paper}{\def\LL@setPaperSize{%
28   \paperwidth=420mm\paperheight=297mm\relax}}%
29 \if definable\ifLL@combine{\newif\ifLL@combine}%
30 \DeclareOption{combine}{\LL@combinetrue}%
31 \DeclareOption{nocombine}{\LL@combinefalse}%
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}%
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
72 \newcommand*\LL@rotate@I{} \newcommand*\LL@rotate@II{}%
73 \if landscape
74   \def\LL@rotate@I{\#1}%
\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!
\LL@selectOutput Drawing code for the fold mark. (Will be called within a picture environment.)
\LL@foldmark Rotates the output pages.
\LL@rotate@II

```

```

75      \iftumble
76          \def\LL@rotate@I{\rotatebox[origin=c]{180}{#1}}%
77      \else
78          \def\LL@rotate@I{\#1}%
79      \fi
80  \else
81      \def\LL@rotate@I{\rotatebox[origin=c]{90}{#1}}%
82  \iftumble
83      \def\LL@rotate@II{\rotatebox[origin=c]{270}{#1}}%
84  \else
85      \def\LL@rotate@II{\rotatebox[origin=c]{90}{#1}}%
86  \fi
87 \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.
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    \g@addto@macro{\@@pending@outs{\@@immediate\@@@write\number#1{#2},}}%
128    \g@addto@macro{\@@pending@outs{\@@immediate\@@@openout\number#1{#2},}}%
129  \def\pending@openout#1 {%
130    \g@addto@macro{\@@pending@outs{\@@immediate\@@@openout\number#1{#1},}}%
131  }%
132  \def\pending@closeout#1 {%
133    \g@addto@macro{\@@pending@outs{\@@immediate\@@@closeout\number#1{#1},}}%
134  }%
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 commands. 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
TOTAL-OUTS:\the\c@@@total@outs\space\space
LAST-EXEC:\the\c@@@last@exec\space\space
TOPMARK:\topmarks{@@out@mark\space\space
FIRSTMARK:\firstmarks{@@out@mark\space\space
BOTMARK:\botmarks{@@out@mark}}%

```

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

```
167      \advance\@tempcnta-\c@@@total@outs \advance\@tempcntb\@tempcnta
168      \@tempcnta-\@tempcnta%
169      \ifnum\@tempcnta>\z@
170          \LL@debug@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                  \LL@debug@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.
```

\protected@write Because our redefined \write is expandable we must protect it inside of L^AT_EX's \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     \ifnobreak\ifvmode\nobreak\fi\fi}%
201 \def\shipout{\deadcycles\z@\setbox\@tempboxa=}
```

\shipout We make L^AT_EX's \shipout ineffectual (no more shipout at all).

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

\LL@toomanypages Now elsewhere ...

```
204 \LoadClass{article}
205 \RequirePackage{everyshi,calc,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.

```
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     \fi
213 }
```

```

212      \ifx\filename@base\reserved@a\@tempswatrue\fi%
213      \def\reserved@a{dvipdfm}%
214      \ifx\filename@base\reserved@a\@tempswatrue\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{vtx}%
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{\leftmarginiv}{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} {\z@}%
284 {\normalfont\large\sectfont}}
285 \renewcommand{\subsection}{\@startsection{subsection}{2}{\z@}%
286 {-2.5ex plus -.5ex}%
287 {1p@} {\z@}%
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 \c@enumdepth >\thr@@\c@toodeep\else
321 \advance\c@enumdepth\one
322 \edef\c@enumctr{\c@enum\romannumeral\the\c@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 \c@itemdepth > \thr@@ \c@toodeep \else
335         \advance\c@itemdepth \c@ne
336         \edef\c@itemitem{labelitem\romannumeral\the\c@itemdepth}%
337         \expandafter
338         \list
339             \csname\c@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-\footskip\%}
  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=0.33333334\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{\@tempswatruel\LL@AddToBackground}%
375   {\@tempswafalsel\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{\@tempswatruel\LL@CutLine}{\@tempswafalsel\LL@CutLine}%
384   \onlypreamble\CutLine
385 \newcommand*\LL@CutLine[1]{%
386   \ifLL@combine
387     \ifx\Scissors\empty\@tempswatruel\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\@ccilv\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\@ccilv%
424 \ifLL@combine
425 \@@@exec@outs
426 \expandafter\newsavebox\csname LL@box\Roman{LL@page}\endcsname%
427 \setbox\@ccilv=\vbox{\vskip1in\unvbox\@ccilv}%
428 \setbox\@ccilv=\vbox{\moveright1in\box\@ccilv}%
429 \setbox\@ccilv=\hb@xt@{\paperwidth{\box\@ccilv\hss}}%
430 \setbox\@ccilv=\vb@xt@{\paperheight{\box\@ccilv\vss}}%
431 \global\expandafter\setbox%
432 \csname LL@box\Roman{LL@page}\endcsname=\box\@ccilv%
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\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.

```

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 L^AT_EX 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?)

Change History

v0.8c		testing purposes. (RN)	1
General: Repacked as dtx file. (RN)	1	\closeout: \special must be processed	
v0.9d		similar to e.g. \write (VTeX). (RN)	3
General: LPPL 1.3 (HjG)	1	\LL@shipoutPage: Fix \protect-ion prob-	
M-x delete-trailing-whitespace (HjG)	1	lems. (RN/HjG)	11
More code documentation; some			
caveats. (HjG)	1	v1.0d	
v0.9e		General: Options ‘twopart/notwopart’	
General: Add option ‘finish’. (RN/HjG)	1	suggested by Luis Rivera. No more	
v0.9f		‘final’ in \ExecuteOptions suggested	
General: Merge v0.9d and v0.9e (hastily).		by Axel Berger (RN)	1
(HjG)	1	v1.0e	
v0.9g		\LL@pagesize@specials: Patch from	
General: Rename option ‘finish’ to ‘com-		Toby Thurston for XeLaTeX. (RN) . .	5
bine’. (RN/HjG)	1	v1.0pre1	
v1.0		General: Redefinition of \immediate,	
General: CTAN release. (RN/HjG)	1	\write, \openout and \closeout.	
v1.0a		(RN)	1
General: Option ‘debug’. (RN)	1	v1.0pre2	
\LenToUnit: New macro \LenToUnit.		General: eTeX support. (RN)	1
(RN)	9	v1.0pre3	
v1.0b		General: Options ‘landscape’ and ‘por-	
General: New option nospecialtricks for		tait’. (RN)	1

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