

# The `letltxmacro` package

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## Abstract

TeX's `\let` assignment does not work for L<sup>A</sup>T<sub>E</sub>X macros with optional arguments or for macros that are defined as robust macros by `\DeclareRobustCommand`. This package defines `\LetLtxMacro` that also takes care of the involved internal macros.

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## 1 Documentation

If someone wants to redefine a macro with using the old meaning, then one method is TeX's command `\let`:

```

\newcommand{\Macro}{\typeout{Test Macro}}
\let\SavedMacro=\Macro
\renewcommand{\Macro}{%
  \typeout{Begin}%
  \SavedMacro
  \typeout{End}%
}

```

However, this method fails, if `\Macro` is defined by `\DeclareRobustCommand` and/or has an optional argument. In both cases L<sup>A</sup>T<sub>E</sub>X defines an additional internal macro that is forgotten in the simple `\let` assignment of the example above.

```
\LetLtxMacro {\langle new macro\rangle} {\langle old macro\rangle}
```

Macro `\LetLtxMacro` behaves similar to T<sub>E</sub>X's `\let` assignment, but it takes care of macros that are defined by `\DeclareRobustCommand` and/or have optional arguments. Example:

```

\DeclareRobustCommand{\Macro}[1][default]{...}
\LetLtxMacro{\SavedMacro}{\Macro}

```

Then macro `\SavedMacro` only uses internal macro names that are derived from `\SavedMacro`'s macro name. Macro `\Macro` can now be redefined without affecting `\SavedMacro`.

## 1.1 Supported macro definition commands

<code>\newcommand</code> , <code>\renewcommand</code>	latex/base
<code>\newenvironment</code> , <code>\renewenvironment</code>	latex/base
<code>\DeclareRobustCommand</code>	latex/base
<code>\newrobustcmd</code> , <code>\renewrobustcmd</code>	etoolbox
<code>\robustify</code>	etoolbox 2008/06/22 v1.6

## 2 Implementation

### 2.1 Show cases

#### 2.1.1 letltxmacro-showcases.tex

- `\Line` The result is displayed by macro `\Line`. The percent symbol at line start allows easy grepping and inserting into the DTX file.

```

1 (*showcases)
2 \NeedsTeXFormat{LaTeX2e}
3 \makeatletter
4 \newcommand*\Line[1]{%
5   \typeout{@percentchar#1}%
6 }
7 \newcommand*\ShowCmdName[1]{%
8   \@ifundefined{#1}{}{%
9     \Line{%
10       \space\space(\expandafter\string\csname#1\endcsname) = %
11       (\expandafter\meaning\csname#1\endcsname)}%
12     }%
13   }%
14 }
15 \newcommand*\ShowCmds[1]{%
16   \ShowCmdName{#1}%
17   \ShowCmdName{#1 }%
18   \ShowCmdName{\#1}%

```

```

19   \ShowCmdName{\#1}%
20 }
21 \let\\@backslashchar

\ShowDef
22 \newcommand*\ShowDef[2]{%
23   \begingroup
24     \Line{%
25       \newcommand*\DefString{#2}%
26       \onelevel@sanitize\DefString
27       \Line{\DefString}%
28       #2%
29       \ShowCmds{#1}%
30   } \endgroup
31 }

32 \typeout{}
33 \Line{* LaTeX definitions:}
34 \ShowDef{cmd}{%
35   \newcommand{\cmd}[2][default]{}%
36 }
37 \ShowDef{cmd}{%
38   \DeclareRobustCommand{\cmd}{}%
39 }
40 \ShowDef{cmd}{%
41   \DeclareRobustCommand{\cmd}[2][default]{}%
42 }
43 \typeout{}

```

The minimal version of package etoolbox is 2008/06/12 v1.6a because it fixes `\robustify`.

```

44 \RequirePackage{etoolbox}[2008/06/12]%
45 \Line{%
46 \Line{* etoolbox's robust definitions:}
47 \ShowDef{cmd}{%
48   \newrobustcmd{\cmd}{}%
49 }
50 \ShowDef{cmd}{%
51   \newrobustcmd{\cmd}[2][default]{}%
52 }
53 \Line{%
54 \Line{* etoolbox's \string\robustify:}
55 \ShowDef{cmd}{%
56   \newcommand{\cmd}[2][default]{} %
57   \robustify{\cmd}%
58 }
59 \ShowDef{cmd}{%
60   \DeclareRobustCommand{\cmd}{} %
61   \robustify{\cmd}%
62 }
63 \ShowDef{cmd}{%
64   \DeclareRobustCommand{\cmd}[2][default]{} %
65   \robustify{\cmd}%
66 }
67 \typeout{}
68 \end
69 
```

### 2.1.2 Result

\* LaTeX definitions:

```
\newcommand {\cmd} [2][default]{}%
```

```

(\cmd) = (macro:->\@protected@testopt \cmd \\cmd {default})
(\cmd) = (\long macro:[#1]#2->)

\DeclareRobustCommand {\cmd }{}
(\cmd) = (macro:->\protect \cmd_ )
(\cmd_) = (\long macro:->)

\DeclareRobustCommand {\cmd }[2][default]{}
(\cmd) = (macro:->\protect \cmd_ )
(\cmd_) = (macro:->\@protected@testopt \cmd_ \\cmd_ {default})
(\cmd_) = (\long macro:[#1]#2->)

* etoolbox's robust definitions:

\newrobustcmd {\cmd }{}
(\cmd) = (\protected\long macro:->)

\newrobustcmd {\cmd }[2][default]{}
(\cmd) = (\protected macro:->\@testopt \\cmd {default})
(\cmd) = (\long macro:[#1]#2->)

* etoolbox's \robustify:

\newcommand {\cmd }[2][default]{} \robustify {\cmd }
(\cmd) = (\protected macro:->\@protected@testopt \cmd \\cmd {default})
(\cmd) = (\long macro:[#1]#2->)

\DeclareRobustCommand {\cmd }{} \robustify {\cmd }
(\cmd) = (\protected macro:->)

\DeclareRobustCommand {\cmd }[2][default]{} \robustify {\cmd }
(\cmd) = (\protected macro:->\@protected@testopt \cmd_ \\cmd_ {default})
(\cmd_) = (macro:->\@protected@testopt \cmd_ \\cmd_ {default})
(\cmd_) = (\long macro:[#1]#2->)

```

## 2.2 Package

70 <\*package>

### 2.2.1 Catcodes and identification

```

71 \begingroup
72   \catcode123 1 % {
73   \catcode125 2 % }
74   \def\x{\endgroup
75     \expandafter\edef\csname l1m@AtEnd\endcsname{%
76       \catcode35 \the\catcode35\relax
77       \catcode64 \the\catcode64\relax
78       \catcode123 \the\catcode123\relax
79       \catcode125 \the\catcode125\relax
80     }%
81   }%
82 \x
83 \catcode35 6 % #
84 \catcode64 11 % @
85 \catcode123 1 % {
86 \catcode125 2 % }
87 \def\TMP@EnsureCode#1#2{%
88   \edef\l1m@AtEnd{%
89     \l1m@AtEnd
90     \catcode#1 \the\catcode#1\relax
91   }%
92   \catcode#1 #2\relax

```

```

93 }
94 \TMP@EnsureCode{40}{12}%
95 \TMP@EnsureCode{41}{12}%
96 \TMP@EnsureCode{42}{12}%
97 \TMP@EnsureCode{45}{12}%
98 \TMP@EnsureCode{46}{12}%
99 \TMP@EnsureCode{47}{12}%
100 \TMP@EnsureCode{58}{12}%
101 \TMP@EnsureCode{61}{12}%
102 \TMP@EnsureCode{62}{12}%
103 \edef\llm@AtEnd{%
104   \llm@AtEnd
105   \escapechar\the\escapechar\relax
106 }
107 \escapechar=92 % `\\

    Package identification.

108 \NeedsTeXFormat{LaTeX2e}
109 \ProvidesPackage{letltxmacro}%
110 [2008/06/24 v1.3 Let assignment for LaTeX macros (HO)]

```

## 2.2.2 Main macros

\LetLtxMacro

```

111 \newcommand*{\LetLtxMacro}[2]{%
112   \edef\reserved@a{%
113     \noexpand\protect
114     \expandafter\noexpand
115     \csname\expandafter\@gobble\string#2 \endcsname
116   }%
117   \ifx\reserved@a\relax
118     \edef#1{%
119       \noexpand\protect
120       \expandafter\noexpand
121       \csname\expandafter\@gobble\string#1 \endcsname
122     }%
123   \expandafter\let
124   \csname\expandafter\@gobble\string#1 \expandafter\endcsname
125   \csname\expandafter\@gobble\string#2 \endcsname
126   \expandafter\llm@LetLtxMacro
127     \csname\expandafter\@gobble\string#1 \expandafter\endcsname
128     \csname\expandafter\@gobble\string#2 \endcsname
129   \else
130     \llm@LetLtxMacro{#1}{#2}%
131   \fi
132 }

```

\llm@LetLtxMacro

```

133 \def\llm@LetLtxMacro#1#2{%
134   \expandafter\llm@CheckParams\meaning#2:->\@nil{%
135     \begingroup
136       \def\@protected@testopt{%
137         \expandafter\@testopt\@gobble
138       }%
139       \def\@testopt##1##2{%
140         \toks@={##2}%
141       }%
142       \let\llm@testopt\@empty
143       \edef\x{%
144         \noexpand\@protected@testopt
145         \noexpand#2%
146         \expandafter\noexpand\csname\string#2\endcsname
147       }%
148       \expandafter\expandafter\expandafter\def

```

```

149      \expandafter\expandafter\expandafter\y
150      \expandafter\expandafter\expandafter\expandafter{%
151          \expandafter\llm@CarThree#2{}{}{}\llm@nil
152      }%
153      \ifx\x\y
154          #2%
155          \def\llm@testopt{%
156              \noexpand\@protected@testopt
157              \noexpand#1%
158          }%
159      \else
160          \edef\x{%
161              \noexpand\@testopt
162              \expandafter\noexpand\csname\string#2\endcsname
163          }%
164          \expandafter\expandafter\expandafter\def
165          \expandafter\expandafter\expandafter\y
166          \expandafter\expandafter\expandafter{%
167              \expandafter\llm@CarTwo#2{}{}{}\llm@nil
168          }%
169          \ifx\x\y
170              #2%
171              \def\llm@testopt{%
172                  \noexpand\@testopt
173              }%
174          \fi
175      \fi
176      \ifx\llm@testopt\@empty
177      \else
178          \llm@protected\xdef\llm@GlobalTemp{%
179              \llm@testopt
180              \expandafter\noexpand\csname\string#1\endcsname
181              {\the\toks@}%
182          }%
183      \fi
184      \expandafter\endgroup\ifx\llm@testopt\@empty
185          \let#1=#2\relax
186      \else
187          \let#1=\llm@GlobalTemp
188          \expandafter\let\csname\string#1\expandafter\endcsname
189                      \csname\string#2\endcsname
190      \fi
191  }{%
192      \let#1=#2\relax
193  }%
194 }

\llm@CheckParams

195 \def\llm@CheckParams#1:-#2@nil{%
196     \begingroup
197         \def\x{\#1}%
198     \ifx\x\llm@macro
199         \endgroup
200         \def\llm@protected{}%
201         \expandafter\@firstoftwo
202     \else
203         \ifx\x\llm@protectedmacro
204             \endgroup
205             \def\llm@protected{\protected}%
206             \expandafter\expandafter\expandafter\@firstoftwo
207     \else
208         \endgroup
209         \expandafter\expandafter\expandafter\@secondoftwo

```

```

210      \fi
211  \fi
212 }

\llm@macro
213 \def\llm@macro{macro}
214 \@onelvel@sanitize\llm@macro

\llm@protectedmacro
215 \def\llm@protectedmacro{\protected macro}
216 \@onelvel@sanitize\llm@protectedmacro

\llm@CarThree
217 \def\llm@CarThree#1#2#3#\llm@nil{#1#2#3}%

\llm@CarTwo
218 \def\llm@CarTwo#1#2#3\llm@nil{#1#2}%

219 \llm@AtEnd
220 </package>

```

### 3 Test

#### 3.1 Catcode checks for loading

```

221 <*test1>
222 \NeedsTeXFormat{LaTeX2e}
223 \documentclass{minimal}
224 \makeatletter
225 \def\RestoreCatcodes{}
226 \count@=0 %
227 \loop
228   \edef\RestoreCatcodes{%
229     \RestoreCatcodes
230     \catcode\the\count@=\the\catcode\count@\relax
231   }%
232 \ifnum\count@<255 %
233   \advance\count@\@ne
234 \repeat
235
236 \def\RangeCatcodeInvalid#1#2{%
237   \count@=#1\relax
238   \loop
239     \catcode\count@=15 %
240   \ifnum\count@<#2\relax
241     \advance\count@\@ne
242   \repeat
243 }
244 \def\Test{%
245   \RangeCatcodeInvalid{0}{47}%
246   \RangeCatcodeInvalid{58}{64}%
247   \RangeCatcodeInvalid{91}{96}%
248   \RangeCatcodeInvalid{123}{127}%
249   \catcode` \@=12 %
250   \catcode` \ =0 %
251   \catcode` \ {=1 %
252   \catcode` \ }=2 %
253   \catcode` \#=6 %
254   \catcode` \ [=12 %
255   \catcode` \ ]=12 %
256   \catcode` \ %=14 %

```

```

257  \catcode`\ =10 %
258  \catcode13=5 %
259  \RequirePackage{letltxmacro}[2008/06/24]\relax
260  \RestoreCatcodes
261 }
262 \Test
263 \csname @@end\endcsname
264 \end
265 
```

### 3.2 Package tests

```

266 <*test2>
267 \NeedsTeXFormat{LaTeX2e}
268 \nofiles
269 \documentclass{minimal}
270
271 \usepackage{letltxmacro}[2008/06/24]
272
273 \usepackage{qstest}
274 \IncludeTests{*}
275 \LogTests{log}{*}{*}
276
277 \makeatletter
278
279 \def\TestDef#1{%
280   \begingroup
281     \c@makeother\\%
282     \c@makeother\ %
283     \expandafter\c@TestDef\csname #1\endcsname
284 }
285 \def@cTestDef#1#2{%
286   \edef@a{\expandafter\strip@prefix\meaning#1}%
287   \edef@b{\detokenize{#2}}%
288   \ifx@a\b
289   \else
290     \typeout{1 [\a]}%
291     \typeout{2 [\b]}%
292   \fi
293   \endgroup
294   \Expect*{\expandafter\strip@prefix\meaning#1}*{\detokenize{#2}}%
295 }
296 \def\TestEquals#1#2{%
297   \Expect*{%
298     \expandafter\ifx\csname#1\expandafter\endcsname
299       \csname#2\endcsname
300     equals%
301   \else
302     wrong%
303   \fi
304 }{equals}%
305 }
306 \def\SaveA{%
307   \let\SavedA\TestA
308   \expandafter\let\csname string\SavedA\expandafter\endcsname
309     \csname string\TestA\endcsname
310   \expandafter\let\csname SavedA \expandafter\endcsname
311     \csname TestA \endcsname
312 }
313 \def\CheckA{%
314   \TestEquals{SavedA}{TestA}%
315   \TestEquals{string\SavedA}{string\TestA}%
316   \TestEquals{SavedA }{TestA }%

```

```

317 }
318
319 \begin{qstest}{robust}{robust}
320   \DeclareRobustCommand*\{\TestA\}{Test}%
321   \SaveA
322   \TestDef{\TestA}{\protect \TestA }%
323   \CheckA
324   \DeclareRobustCommand{\TestA}{Test}%
325   \SaveA
326   \TestDef{\TestA}{\protect \TestA }%
327   \LetLtxMacro{\TestB}{\TestA}
328   \TestDef{\TestB}{\protect \TestB }%
329   \TestEquals{\TestB }{\TestA }%
330   \CheckA
331 \end{qstest}
332
333 \begin{qstest}{default}{default}
334   \newcommand{\TestA}[1][\relax default \empty]{TestA #1}%
335   \SaveA
336   \TestDef
337   {\TestA}{\@protected@testopt \TestA \\TestA {\relax default \empty} }%
338   \LetLtxMacro{\TestB}{\TestA}
339   \TestDef
340   {\TestB}{\@protected@testopt \TestB \\TestB {\relax default \empty} }%
341   \CheckA
342 \end{qstest}
343
344 \begin{qstest}{robustdefault}{robustdefault}
345   \DeclareRobustCommand{\TestA}[1][\default]{TestA}%
346   \SaveA
347   \LetLtxMacro{\TestB}{\TestA}
348   \TestDef{\TestB}{\protect \TestB }%
349   \TestDef{\TestB }{\@protected@testopt \TestB \\TestB {\default} }%
350   \CheckA
351 \end{qstest}
352
353 \begin{qstest}{plain}{plain}
354   \LetLtxMacro{\NewRelax}{\relax
355   \Expect*{\meaning\relax}*{\string\relax}%
356   \Expect*{\meaning\NewRelax}*{\string\relax}%
357   \LetLtxMacro{\NewHbox}{\hbox
358   \Expect*{\meaning\hbox}*{\string\hbox}%
359   \Expect*{\meaning\NewHbox}*{\string\hbox}%
360   \LetLtxMacro{\NewEmpty}{\empty
361   \Expect*{\meaning\empty}{macro:->}%
362   \Expect*{\meaning\NewEmpty}{macro:->}%
363   \def\TestA{\iffalse}%
364   \LetLtxMacro{\TestB}{\TestA}
365   \TestDef{\TestB}{\iffalse }%
366   \TestEquals{\TestA}{\TestB}%
367 \end{qstest}
368 \usepackage{etoolbox}[2008/06/22]
369
370 \begin{qstest}{oldnewrobustcmd}{oldnewrobustcmd}
371   \protected\edef\TestA{%
372     \noexpand\@protected@testopt
373     \noexpand\TestA
374     \expandafter\noexpand\csname\string\TestA\endcsname
375     {\noexpand\default}%
376   }%
377   \expandafter\protected\expandafter
378   \def\csname\string\TestA\endcsname{\TestA}%

```

```

379  \SaveA
380  \LetLtxMacro\TestB\TestA
381  \TestDef{TestB}{\@protected@testopt \TestB \\TestB {\default } }%
382  \protected\edef\TestC{%
383      \noexpand\@protected@testopt
384      \noexpand\TestB
385      \expandafter\noexpand\csname\string\TestB\endcsname
386      {\noexpand\default}%
387  }%
388  \TestEquals{TestB}{TestC}%
389  \CheckA
390 \end{qstest}
391
392 \begin{qstest}{newrobustcmd}{newrobustcmd}
393   \newrobustcmd{\TestA}[1] [\default]{TestA}%
394   \SaveA
395   \LetLtxMacro\TestB\TestA
396   \TestDef{TestB}{\@testopt \\TestB {\default } }%
397   \protected\edef\TestC{%
398       \noexpand\@testopt
399       \expandafter\noexpand\csname\string\TestB\endcsname
400       {\noexpand\default}%
401   }%
402   \TestEquals{TestB}{TestC}%
403   \CheckA
404 \end{qstest}
405
406 \begin{qstest}{robustifyopt}{robustifyopt}
407   \newcommand{\TestA}[2] [\default]{}
408   \TestDef{TestA}{\@protected@testopt \TestA \\TestA {\default } }%
409   \robustify\TestA
410   \TestDef{TestA}{\@protected@testopt \TestA \\TestA {\default } }%
411   \protected\edef\TestC{%
412       \noexpand\@protected@testopt
413       \noexpand\TestA
414       \expandafter\noexpand\csname\string\TestA\endcsname
415       {\noexpand\default}%
416   }%
417   \TestEquals{TestA}{TestC}%
418   \SaveA
419   \LetLtxMacro\TestB\TestA
420   \TestDef{TestB}{\@protected@testopt \TestB \\TestB {\default } }%
421   \protected\edef\TestC{%
422       \noexpand\@protected@testopt
423       \noexpand\TestB
424       \expandafter\noexpand\csname\string\TestB\endcsname
425       {\noexpand\default}%
426   }%
427   \TestEquals{TestB}{TestC}%
428   \CheckA
429 \end{qstest}
430
431 \begin{qstest}{robustifydeclare}{robustifydeclare}
432   \DeclareRobustCommand\TestA{\iffalse}%
433   \robustify\TestA
434   \SaveA
435   \LetLtxMacro\TestB\TestA
436   \TestDef{TestB}{\iffalse }%
437   % before etoolbox 2008/06/22: \protected\long\def
438   % since etoolbox 2008/06/22: \protected\def
439   \protected\def\TestC{\iffalse}%
440   \TestEquals{TestB}{TestC}%

```

```

441   \CheckA
442 \end{qstest}
443
444 \begin{qstest}{robustifydeclarelong}{robustifydeclarelong}
445   \DeclareRobustCommand\TestA[1]{\iffalse}%
446   \robustify\TestA
447   \SaveA
448   \LetLtxMacro\TestB\TestA
449   \TestDef{\TestB}{\iffalse}%
450   % before etoolbox 2008/06/22: \protected\long\def
451   % since etoolbox 2008/06/22: \protected\def
452   \protected\long\def\TestC#1{\iffalse}%
453   \TestEquals{\TestB}{\TestC}%
454   \CheckA
455 \end{qstest}
456 \csname @@end\endcsname
457 
```

## 4 Installation

### 4.1 Download

**Package.** This package is available on CTAN<sup>1</sup>:

[CTAN:macros/latex/contrib/oberdiek/letltxmacro.dtx](http://CTAN:macros/latex/contrib/oberdiek/letltxmacro.dtx) The source file.

[CTAN:macros/latex/contrib/oberdiek/letltxmacro.pdf](http://CTAN:macros/latex/contrib/oberdiek/letltxmacro.pdf) Documentation.

**Bundle.** All the packages of the bundle ‘oberdiek’ are also available in a TDS compliant ZIP archive. There the packages are already unpacked and the documentation files are generated. The files and directories obey the TDS standard.

[CTAN:install/macros/latex/contrib/oberdiek.tds.zip](http://CTAN:install/macros/latex/contrib/oberdiek.tds.zip)

*TDS* refers to the standard “A Directory Structure for T<sub>E</sub>X Files” ([CTAN:tds/tds.pdf](http://CTAN:tds/tds.pdf)). Directories with `texmf` in their name are usually organized this way.

### 4.2 Bundle installation

**Unpacking.** Unpack the `oberdiek.tds.zip` in the TDS tree (also known as `texmf` tree) of your choice. Example (linux):

```
unzip oberdiek.tds.zip -d ~/texmf
```

**Script installation.** Check the directory `TDSScripts/oberdiek/` for scripts that need further installation steps. Package `attachfile2` comes with the Perl script `pdfatfi.pl` that should be installed in such a way that it can be called as `pdfatfi`. Example (linux):

```
chmod +x scripts/oberdiek/pdfatfi.pl
cp scripts/oberdiek/pdfatfi.pl /usr/local/bin/
```

### 4.3 Package installation

**Unpacking.** The `.dtx` file is a self-extracting `docstrip` archive. The files are extracted by running the `.dtx` through plain-T<sub>E</sub>X:

```
tex letltxmacro.dtx
```

---

<sup>1</sup>[ftp://ftp.ctan.org/tex-archive/](http://ftp.ctan.org/tex-archive/)

**TDS.** Now the different files must be moved into the different directories in your installation TDS tree (also known as `texmf` tree):

```
letltxmacro.sty          → tex/latex/oberdiek/letltxmacro.sty
letltxmacro.pdf          → doc/latex/oberdiek/letltxmacro.pdf
letltxmacro-showcases.tex → doc/latex/oberdiek/letltxmacro-showcases.tex
test/letltxmacro-test1.tex → doc/latex/oberdiek/test/letltxmacro-test1.tex
test/letltxmacro-test2.tex → doc/latex/oberdiek/test/letltxmacro-test2.tex
letltxmacro.dtx          → source/latex/oberdiek/letltxmacro.dtx
```

If you have a `docstrip.cfg` that configures and enables `docstrip`'s TDS installing feature, then some files can already be in the right place, see the documentation of `docstrip`.

#### 4.4 Refresh file name databases

If your TeX distribution (teTeX, mikTeX, ...) relies on file name databases, you must refresh these. For example, teTeX users run `texhash` or `mktexlsr`.

#### 4.5 Some details for the interested

**Attached source.** The PDF documentation on CTAN also includes the `.dtx` source file. It can be extracted by AcrobatReader 6 or higher. Another option is `pdftk`, e.g. unpack the file into the current directory:

```
pdftk letltxmacro.pdf unpack_files output .
```

**Unpacking with L<sup>A</sup>T<sub>E</sub>X.** The `.dtx` chooses its action depending on the format:

**plain-T<sub>E</sub>X:** Run `docstrip` and extract the files.

**L<sup>A</sup>T<sub>E</sub>X:** Generate the documentation.

If you insist on using L<sup>A</sup>T<sub>E</sub>X for `docstrip` (really, `docstrip` does not need L<sup>A</sup>T<sub>E</sub>X), then inform the autodetect routine about your intention:

```
latex \let\install=y\input{letltxmacro.dtx}
```

Do not forget to quote the argument according to the demands of your shell.

**Generating the documentation.** You can use both the `.dtx` or the `.drv` to generate the documentation. The process can be configured by the configuration file `ltxdoc.cfg`. For instance, put this line into this file, if you want to have A4 as paper format:

```
\PassOptionsToClass{a4paper}{article}
```

An example follows how to generate the documentation with pdfL<sup>A</sup>T<sub>E</sub>X:

```
pdflatex letltxmacro.dtx
makeindex -s gind.ist letltxmacro.idx
pdflatex letltxmacro.dtx
makeindex -s gind.ist letltxmacro.idx
pdflatex letltxmacro.dtx
```

### 5 History

[2008/06/09 v1.0]

- First version.

[2008/06/12 v1.1]

- Support for etoolbox's \newrobustcmd added.

[2008/06/13 v1.2]

- Support for etoolbox's \robustify added.

[2008/06/24 v1.3]

- Test file adapted for etoolbox 2008/06/22 v1.6.

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