

The undolabl package*

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2010/07/15

Abstract

This package allows to override existing labels, especially automatically generated ones.

WARNING: Since version 1.0d [2010/07/15] the `\undonewlabel` command takes only one argument, `\undonewlabel{<label name>}`, instead of two, `\undonewlabel{<label name>}{\on@line}`. Packages or documents, which used older versions of the undolabl package, must be updated by removing the second argument of `\undonewlabel`, i. e. the `{\on@line}`.

Note: The main code of this package was invented by

Ulrich Diez (eu.angelion@web.de)

and first published in the `news:comp.text.tex` newsgroup at

Sun, 20 Apr 2008 16:39:26 +0200, with subject:

Re: How to undefine/overwrite a label? (see e. g.

<http://groups.google.de/group/comp.text.tex/msg/5ba8d4722e5cd326>).

While Ulrich Diez neither wanted to create a package himself yet nor have one published under his name, he granted the publication of his code. Therefore: Thanks! I submitted this package to CTAN (after some updates of the documentation, mainly layout, typos and such things.)

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Save per page about 200 ml water, 2 g CO₂ and 2 g wood: Therefore please print only if this is really necessary.

*This file has version number v1.0d, last revised 2010/07/15, documentation dated 2010/07/15.

Contents

1	Introduction	3
2	Usage	5
3	Example	5
4	The implementation	6
5	Installation	8
5.1	Downloads	8
5.2	Package, unpacking TDS	9
5.3	Refresh file name databases	10
5.4	Some details for the interested	10
6	Acknowledgements	11
7	History	11
	[2008/04/20 v0.3]	11
	[2010/04/08 v0.3b]	11
	[2010/06/01 v1.0]	11
	[2010/06/03 v1.0b]	11
	[2010/06/24 v1.0c]	11
	[2010/07/15 v1.0d]	12
8	Index	12

1 Introduction

The package's name `undolabl` is an eight-letter abbreviation for the phrases “undo” and “label”.

This package allows to override existing labels, especially automatically generated ones.

When an instance of the `\label-macro` occurs in the document (e.g. `\label{foo}`), then a delayed `\write` (a write which is performed at shipout-time when the page-number is determined) to the `.aux` file is issued and you find in the `.aux` file something like:

```
\newlabel{foo}{<page-no>{<sectional no>}{<probably something else>}}
```

During the beginning of the next \LaTeX -run, the `.aux` file will be read and

```
\newlabel{foo}{<page-no>{<sectional no>}{<probably something else>}}
```

is expanded to

```
\@newl@bel r{foo}{<page-no>{<sectional no>}{<probably something else>}}
```

which in turn gets expanded to something like (pseudo code):

```
IF (macro \r@foo is already defined)
THEN
  - Issue an error-message,
  - Make sure that the multiply-defined-labels-warning occurs
    in the log-file
ELSE
  \def\r@foo{<page-no>{<sectional no>}{<probably something else>}}
ENDIF
```

Referencing works as follows:

`\ref{foo}` ->

- expand `\r@foo`: `{<page-no>{<sectional no>}{<probably something else>}}`
- grab the second from the resulting arguments: `<sectional no>`

`\pageref{foo}` ->

- expand `\r@foo`: `{<page-no>{<sectional no>}{<probably something else>}}`
- grab the first from the resulting arguments: `<page-no>`

Back to the `\label`-mechanism:

- At the beginning of the \LaTeX -run, all the `\r@<label>`-macros get defined from reading the `.aux` file. The `\r@<label>`-macros get used by the referencing-macros (`\ref`, `\pageref`...) during the \LaTeX -run.
- During the \LaTeX -run, the `.aux` file gets rewritten.
- At the end of the \LaTeX -run, the `.aux` file (which was rewritten/newly created during the \LaTeX -run) is read in order to detect whether references have changed during the current \LaTeX -run.

But this time `\@newl@bel` is redefined (`\let equal to \@testdef`) and thus this time

```
\@newl@bel r{foo}{<page-no>{<sectional no>}{<probably something else>}}
```

expands to something like (pseudo code):

```
Compare the (newly written) third argument (that is:
{{<page-no>}}{{<sectional no>}}{{<probably something else>}} )
to the (current/former) definition of \r@foo.
If the two are different, then some page- or section-number
related to referencing has changed from the last to the current
LaTeX-run, thus in this case issue a message in the log-file:
"References may have changed. Rerun LaTeX in order to get
cross-references right".
```

So what do you need to do in order to override a label:

- First you need to write to the .aux file to silently undefine the associated \r@<label>-macro if it is already defined. That is why \overridelabel writes in terms of \protected@write to the .aux file:

```
\undonewlabel{<label>}
```

\undonewlabel “undefines” the \r@<label>-macro. (How this works will be explained below.)

- Then \overridelabel can call \label{<label>} again and thus produce another \newlabel{<label>}-entry to the .aux file.

In the .aux file all this results in a sequence like:

```
% from the former \label-call:
\newlabel{<label>}{..}
|->| \r@<label>-macro gets produced.
% from the \overridelabel-call:
% - call to \undonewlabel within \overridelabel:
\undonewlabel{<label>}
|->| \r@<label>-macro gets destroyed.
% - call to \label within \overridelabel:
\newlabel{<label>}{..}
|->| a new \r@<label>-macro but no multiply-label-defined warning
gets produced.
```

There is another issue left:

- It was said that .aux file is read at the beginning and at the end of the LaTeX-run for detecting whether references have changed.
- When overriding a <label>, there will be several \newlabel{<label>}-calls associated to the same label-name in the .aux file.
- At the beginning of the LaTeX-run only the last one counts for defining the associated \r@<label>-macro.
- But at the end, when the new .aux file is read, they all count and thus with all these entries but the last one, the above-mentioned \@testdef-comparison will yield difference and thus in any case cause a warning-message about references having changed although that might not be a correct statement.

Ulrich Diez decided to catch this up by his \undolabl@testdef command. The \undolabl@testdef-comparison-mechanism gets enhanced via “replacing”. This works as follows: When .aux file is read at the beginning of the LaTeX-run, \@newl@bel is not let equal to \@testdef. When .aux file is read at the end of the LaTeX-run, \@newl@bel is let equal to \@testdef. Thus it is sufficient to write into the beginning of the .aux file a direction which leads to letting \@newl@bel equal to \my@testdef in case its definition equals \@testdef. That direction is called “\reset@newl@bel”. Also, when the .aux file is read at the end of the LaTeX-run, \undonewlabel-entries therein should do nothing, thus \undonewlabel is let equal to \@gobble.

2 Usage

Load the package placing

```
\usepackage{undolabl}
```

in the preamble of your L^AT_EX 2_ε source file.

When an existing label shall be replaced by a new one, say
`\overridelabel{<label name>}`
(where <label name> is the name of the label to be replaced by the new one),
instead of just `\label{<label name>}`, which would produce a
LaTeX Warning: Label ‘<label name>’ multiply defined.

3 Example

```
1 (*example)
2 \documentclass[british]{article}
3 %%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
4 \usepackage{undolabl}[2010/07/15]% v1.0d
5 %% There are no options for the undolabl package. %%
6 \usepackage{hyperref}[2010/06/18]% v6.81g; if you want to use nameref
7 \hypersetup{
8   extension=pdf,%
9   plainpages=false,%
10  pdfpagelabels=true,%
11  hyperindex=false,%
12  pdflang={en},%
13  pdftitle={undolabl package example},%
14  pdfauthor={Hans-Martin Muench, after Ulrich Dietz},%
15  pdfsubject={Example for the undolabl package},%
16  pdfkeywords={LaTeX, undolabl, Ulrich Dietz, Hans-Martin Muench},%
17  pdfview=FitH,%
18  pdfstartview=FitH,%
19  pdfpagelayout=OneColumn,%
20  bookmarksopen=true%
21 }
22 \makeatletter
23 %% Code from tcilatex.tex, Macros for Scientific Word and      %%
24 %% Scientific WorkPlace 5.5 <06 Oct 2005>                      %%
25 %% Copyright (C) 2005 Mackichan Software, Inc.                %%
26 %% That macro file is NOT proprietary and may be freely copied %%
27 %% and distributed.                                           %%
28 \def\unit#1{\mathord{\thinspace\rm #1}}%
29 %% End of code from tcilatex.tex                               %%
30 \makeatother
31 \listfiles
32 \begin{document}
33 \pagenumbering{arabic}
34 \section*{Example for undolabl}
35
36 This example demonstrates the use of package\newline
37 \textsf{undolabl}, v1.0d as of 2010/07/15 (HMM).\newline
38 For details please see the documentation!\newline
39
40 \noindent Save per page about $200\unit{ml}$~water,
41 $2\unit{g}$~CO$_2$ and $2\unit{g}$~wood:\newline
42 Therefore please print only if this is really necessary.\newline
43 I do NOT think, that it is necessary to print THIS file, really\newline
44 (at least not after this page)!
45
46 \bigskip
47
48 \section{Test}
49
50 text \label{testlabel}\\
51 page-reference: \pageref{testlabel}\\\% -> page 4
```

```

52 sectional-reference: \ref{testlabel}\% -> section 4
53 name-reference: \nameref{testlabel}% -> Still another test
54
55 \newpage
56
57 \section{Another test}
58
59 text \overridelabel{testlabel}\%
60 page-reference: \pageref{testlabel}\% -> page 4
61 sectional-reference: \ref{testlabel}\% -> section 4
62 name-reference: \nameref{testlabel}% -> Still another test
63
64 \newpage
65
66 \section{Yet another test}
67
68 text \overridelabel{testlabel}\%
69 page-reference: \pageref{testlabel}\% -> page 4
70 sectional-reference: \ref{testlabel}\% -> section 4
71 name-reference: \nameref{testlabel}% -> Still another test
72
73 \newpage
74
75 \section{Still another test}
76
77 text \overridelabel{testlabel}\%
78 page-reference: \pageref{testlabel}\% -> page 4
79 sectional-reference: \ref{testlabel}\% -> section 4
80 name-reference: \nameref{testlabel}% -> Still another test
81
82 \end{document}
83 \end{example}

```

4 The implementation

For a somewhat longer description see section 1.

We start off by checking that we are loading into L^AT_EX 2_ε and announcing the name and version of this package.

```

84 (*package)
85 \NeedsTeXFormat{LaTeX2e}[1994/06/01]
86 \ProvidesPackage{undolabl}[2010/07/15 v1.0d
87   Overriding labels (HMM)]
88

```

`\overridelabel` In order to override a label, first you need to write to the .aux file to silently undefine the associated `\r@<label>`-macro if it is already defined. That is why `\overridelabel` writes in terms of `\protected@write` to the .aux file: `\undonewlabel{<label>}`, “undefining” the `\r@<label>`-macro. And a message about this is given.

```

89 \newcommand\overridelabel[1]{%
90   \@bsphack
91   \protected@write\@auxout{}\string\undonewlabel{#1}%
92   \overriddenmessage s{#1}%

```

Then `\overridelabel` can call `\label{<label>}` again and thus produce another `\newlabel{<label>}`-entry to the .aux file.

```

93   \label{#1}%
94   \@esphack
95 }
96

```

`\undonewlabel`

```

97 \newcommand\undonewlabel{\und@newl@bel r}%
98

```

\@und@newl@bel

If \r@<label> is undefined, give an error message:

```
99 \newcommand\@und@newl@bel[2]{%
100 \ifundefined{#1@#2}{%
101 \PackageError{undolabl}{Label ‘#2’ shall be overridden ^^J
102 although it does not yet exist}{%
103 A label which does not exist cannot be overridden.}%
104 }%
```

otherwise:

Undefine \r@label via letting it equal to \relax:

```
105 \expandafter\global
106 \expandafter\let
107 \csname #1@#2\endcsname\relax
108 }%
109 }
110
```

\@overriddenmessage

Command for the notification of overriding a label:

```
111 \newcommand\@overriddenmessage[2]{%
112 \@ifundefined{#1@#2}{\global\@namedef{#1@#2}{i}}{%
113 \expandafter\g@addto@macro\csname #1@#2\endcsname{i}%
114 }%
115 \PackageWarning{undolabl}{Label ‘#2’ overridden}
116 }
117
```

\undolabl@testdef

```
118 \newcommand\undolabl@testdef[3]{%
119 \@ifundefined{s@#2}\@secondoftwo\@firstofone{%
120 \expandafter\ifx\csname s@#2\endcsname\empty
121 \expandafter\@firstofone
122 \else
123 \expandafter\xdef\csname s@#2\endcsname{%
124 \expandafter\expandafter
125 \expandafter\@gobble
126 \csname s@#2\endcsname
127 }%
128 \expandafter\@gobble
129 \fi
130 }%
131 {%
132 \@testdef{#1}{#2}{#3}%
133 }%
134 }%
135
```

\protected@write

@auxout

```
136 \protected@write\@auxout{}\{\string\reset@newl@bel}%
137
```

\reset@newl@bel

```
138 \newcommand\reset@newl@bel{%
139 \ifx\@newl@bel\@testdef
140 \let\@newl@bel\undolabl@testdef
141 \let\undonewlabel\@gobble
142 \fi
143 }%
144 \</package>
```

5 Installation

5.1 Downloads

Everything should be available on **CTAN**: <ftp://ftp.ctan.org/tex-archive/>, but may need additional packages themselves.

undolabl.dtx For unpacking the **undolabl.dtx** file and constructing the documentation it is required:

- T_EXFormat L^AT_EX 2_ε, 1994/06/01, v2_ε: **CTAN**:
- document class **ltxdoc**, 2007/11/11, v2.0u,
[CTAN:macros/latex/base/ltxdoc.dtx](#)
- package **holtxdoc**, 2010/04/18, v0.18,
[CTAN:macros/latex/contrib/oberdiek/holtxdoc.dtx](#)
- package **hypdoc**, 2010/03/26, v1.9,
[CTAN:macros/latex/contrib/oberdiek/hypdoc.dtx](#)

undolabl.sty The **undolabl.sty** for L^AT_EX 2_ε (i. e. all documents using the **undolabl** package) requires:

- T_EXFormat L^AT_EX 2_ε, 1994/06/01, v2_ε, **CTAN**:

undolabl-example.tex The **undolabl-example.tex** requires the same files as all documents using the **undolabl** package, and additionally:

- class **article**, 2007/10/19, v1.4h, from **classes.dtx**:
[CTAN:macros/latex/base/classes.dtx](#)
- package **hyperref**, 2010/06/18, v6.81g,
[CTAN:macros/latex/contrib/hyperref/](#),
if **nameref** shall be used
(and when the references shall be hyperlinked, of course)
- package **undolabl**, 2010/07/15, v1.0d,
[CTAN:macros/latex/contrib/undolabl/undolabl.dtx](#)
(Well, it is the example file for this package, and because you are reading the documentation for the **undolabl** package, it can be assumed that you already have some version of it – is it the current one?)

Oberdiek All packages of Heiko Oberdiek’s bundle ‘**oberdiek**’ (especially **holtxdoc** and **hypdoc**) are also available in a TDS compliant ZIP archive:

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

hypdoc **Warning:** **holtxdoc**, 2010/04/24 v0.19, requires the packages

- **hypdoc**, 2010/03/26, v1.9
- **hyperref**, 2010/03/30, v6.80u (latest: 2010/06/18, v6.81g)
- **pdftexcmds**, 2010/04/01, v0.9
- **ltxcmds**, 2010/03/09, v1.4 (latest: 2010/04/26, v1.7)
- **hologo**, 2010/04/24, v1.2
- **array** (latest: 2008/09/09, v2.4c)

(or more recent versions) and does neither work with nor check for earlier versions!
(It is probably best to download

[CTAN:install/macros/latex/contrib/oberdiek.tds.zip](#) and use this, because the packages in there should be both recent and compatible.)

undolabl 2010/07/15, v1.0d, [CTAN:macros/latex/contrib/undolabl.dtx](#)
The package described in this very documentation.
(Code initially by Ulrich Dietz on [news:comp.text.tex](#) at
Mon, 21 Apr 2008 23:04:03 +0200, see e.g.
<http://groups.google.de/group/comp.text.tex/msg/af6cfe93917097da>.)

pagesLTS 2010/07/15, v1.1d, [CTAN:macros/latex/contrib/pagesLTS.dtx](#)
That package allows to refer to the (very) last page, gives the total number of pages, references to special pages, facilitates the use of nearly any pagenumbers you like (e.g. negative **Roman** numbers or more than **Z** pages with **Alph** page numbering), and works even with **fnsymbol** page numbers.

papermas 2010/06/24, v1.0c, [CTAN:macros/latex/contrib/papermas.dtx](#)
That package allows to compute the number of sheets of paper needed to print a document as well as the mass of that printed version of the document. Further that package allows to compute “base to the power of exponent” inside **L^AT_EX**.

hrefhide 2010/06/24, v1.0c, [CTAN:macros/latex/contrib/hrefhide.dtx](#)
That package allows to “hide” some (hyperlinked) text when printing the document while keeping the layout.

5.2 Package, unpacking TDS

Package. This package is available on [CTAN](#):

[CTAN:macros/latex/contrib/undolabl/undolabl.dtx](#)
The source file.

[CTAN:macros/latex/contrib/undolabl/undolabl.ins](#)
The installation file.

[CTAN:macros/latex/contrib/undolabl/undolabl.drv](#)
The driver to generate the documentation.

[CTAN:macros/latex/contrib/undolabl/ltxdoc.cfg](#)
The **L^AT_EX** documentation configuration file, also for generating the documentation.

[CTAN:macros/latex/contrib/undolabl/undolabl.pdf](#)
The documentation.

[CTAN:macros/latex/contrib/undolabl/undolabl.sty](#)
The **style** file.

[CTAN:macros/latex/contrib/undolabl/undolabl-example.tex](#)
The example file.

[CTAN:macros/latex/contrib/undolabl/undolabl-example.pdf](#)
The compiled example file, as it should look like.

[CTAN:install/macros/latex/contrib/undolabl.tds.zip](#)
Everything in TDS compliant, compiled format.

For required other packages, see the preceding subsection.

Unpacking. The **.dtx** file is a self-extracting docstrip archive. The files are extracted by running the **.dtx** through plain **T_EX**:

```
tex undolabl.dtx
```

About generating the documentation see paragraph 5.4 below.

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

```
undolabl.sty      → tex/latex/muench/undolabl.sty
undolabl.pdf      → doc/latex/muench/undolabl.pdf
undolabl-example.tex → doc/latex/muench/undolabl-example.tex
undolabl-example.pdf → doc/latex/muench/undolabl-example.pdf
undolabl.dtx      → source/latex/muench/undolabl.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`.

5.3 Refresh file name databases

If your $\text{T}_{\text{E}}\text{X}$ distribution (`te $\text{T}_{\text{E}}\text{X}$` , `mik $\text{T}_{\text{E}}\text{X}$` ,...) relies on file name databases, you must refresh these. For example, `te $\text{T}_{\text{E}}\text{X}$` users run `texhash` or `mktextlsr`.

5.4 Some details for the interested

Unpacking with $\text{L}^{\text{A}}\text{T}_{\text{E}}\text{X}$. The `.dtx` chooses its action depending on the format:

plain $\text{T}_{\text{E}}\text{X}$: Run `docstrip` and extract the files.

$\text{L}^{\text{A}}\text{T}_{\text{E}}\text{X}$: Generate the documentation.

If you insist on using $\text{L}^{\text{A}}\text{T}_{\text{E}}\text{X}$ for `docstrip` (really, `docstrip` does not need $\text{L}^{\text{A}}\text{T}_{\text{E}}\text{X}$), then inform the autodetect routine about your intention:

```
latex \let\install=y\input{undolabl.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 the following 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 `pdf $\text{L}^{\text{A}}\text{T}_{\text{E}}\text{X}$` :

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

and with `pdf $\text{L}^{\text{A}}\text{T}_{\text{E}}\text{X}$` :

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

6 Acknowledgements

The main code of this package was invented by **Ulrich Diez** (eu.angelion@web.de) and first published in the [news:comp.text.tex](#) newsgroup at Sun, 20 Apr 2008 16:39:26 +0200, with subject: Re: How to undefine/overwrite a label? (see e.g. <http://groups.google.de/group/comp.text.tex/msg/5ba8d4722e5cd326>). I (H.-Martin Münch) would like to thank Ulrich Diez for this as well as for his permission to publish it on **CTAN**. I also thank those anonymous people who had published it somewhere else on the internet, where I found it first. Further I would like to thank Heiko Oberdiek (heiko dot oberdiek at googlemail dot com) for providing a lot (!) of useful packages (from which I also got everything I know about creating a file in `dtx` format, ok, say it: copying), and the [news:comp.text.tex](#) and [news:de.comp.text.tex](#) newsgroups for their help in all things `TEX`.

7 History

[2008/04/20 v0.3]

- created by Ulrich Diez

[2010/04/08 v0.3b]

- `.dtx` updated by H.-Martin Münch, submitted to **CTAN**:
(no changes in the style code).

[2010/06/01 v1.0]

- `.dtx` updated by H.-Martin Münch: some minor corrections in the documentation, an internal renaming for possible better compatibility with other packages.
- The main code of this package was invented in 2008 by Ulrich Diez (eu.angelion@web.de) and published on the internet. Because Ulrich Diez neither wanted to create a package himself yet nor have one published under his name, but granted the publication of his code (Thanks!), I had to change author/maintainer of this package and resubmit it.

[2010/06/03 v1.0b]

- Found an unchanged reference to the package author/maintainer.
- Example adapted to other examples of mine.
- Updated references to other packages.
- TDS locations updated.
- Several changes in the documentation and the Readme file.

[2010/06/24 v1.0c]

- `holtxdoc` warning in `drv` updated.
- Corrected the location of the package at CTAN. (TDS still missing due to packaging error.)
- Updated references to other packages: `hyperref` and `pagesLTS`.
- Added a list of my other packages.

[2010/07/15 v1.0d]

- There was another update by Ulrich Dietz on `news:comp.text.tex` at Mon, 21 Apr 2008 23:04:03 +0200, see e.g. <http://groups.google.de/group/comp.text.tex/msg/af6cfe93917097da>, which was now included in this package.
- Put more emphasis on **Ulrich Dietz** writing the initial code.
- Updated references to other packages: `hyperref` and `pagesLTS`.
- Corrected the given location of the `undolabl.tds.zip` file at CTAN.

When you find a mistake or have a suggestion for an improvement of this package, please send an e-mail to the maintainer, thanks! (Please see BUG REPORTS in the README.)

8 Index

Numbers written in *italic* refer to the page where the corresponding entry is described; numbers underlined refer to the code line of the definition; plain numbers refer to the code lines where the entry is used.

Symbols		M	
<code>\@auxout</code>	91, 136	<code>M\{"u}nch</code>	9
<code>\@bsphack</code>	90	<code>\mathord</code>	28
<code>\@esphack</code>	94		
<code>\@firstofone</code>	119, 121	N	
<code>\@gobble</code>	125, 128, 141	<code>\nameref</code>	53, 62, 71, 80
<code>\@ifundefined</code>	100, 112, 119	<code>\newcommand</code> ..	89, 97, 99, 111, 118, 138
<code>\@namedef</code>	112		
<code>\@newl@bel</code>	139, 140	O	
<code>\@overriddenmessage</code>	7, 92, 111	<code>\Oberdiek</code>	8
<code>\@secondoftwo</code>	119	<code>\overridelabel</code>	6, 59, 68, 77, 89
<code>\@testdef</code>	132, 139		
<code>\@und@newl@bel</code>	7, 97, 99	P	
		<code>\PackageError</code>	101
C		<code>\PackageWarning</code>	115
<code>\csname</code>	107, 113, 120, 123, 126	<code>\pagenumbering</code>	33
E		<code>\protected@write</code>	91, 136
<code>\empty</code>	120	<code>\protected@write\@auxout</code>	7
<code>\endcsname</code> ...	107, 113, 120, 123, 126		
G		R	
<code>\g@addto@macro</code>	113	<code>\ref</code>	52, 61, 70, 79
		<code>\reset@newl@bel</code>	7, 136, 138
H		<code>\rm</code>	28
<code>\holtxdoc</code>	8		
<code>\hypdoc</code>	8	U	
<code>\hypersetup</code>	7	<code>\undolabl-example.tex</code>	8
L		<code>\undolabl.dtx</code>	8
<code>\label</code>	50, 93	<code>\undolabl.sty</code>	8
<code>\listfiles</code>	31	<code>\undolabl@testdef</code>	7, 118, 140
		<code>\undonewlabel</code>	6, 91, 97, 141
		<code>\unit</code>	28, 40, 41