

The undolabl package

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2012/01/01 v1.0k

Abstract

This L^AT_EX 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/af6cfe93917097da?dmode=source>).

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) and try to maintain it.

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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.

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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 the `.aux` file is read at the beginning of the \LaTeX -run, `\@newl@bel` is not let equal to `\@testdef`. When the `.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 `\undolabl@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 \LaTeX 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}[2007/10/19]% v1.4h
3 %%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
4 \usepackage{undolabl}[2012/01/01]% v1.0k
5 %% There are no options for the undolabl package. %%
6 \usepackage[%
7  extension=pdf,%
8  plainpages=false,%
9  pdfpagelabels=true,%
10 hyperindex=false,%
11 pdflang={en},%
12 pdftitle={undolabl package example},%
13 pdfauthor={H.-Martin Muench, after Ulrich Diez},%
14 pdfsubject={Example for the undolabl package},%
15 pdfkeywords={LaTeX, undolabl, undolabel, H.-Martin Muench, Ulrich Diez},%
16 pdfview=FitH,%
17 pdfstartview=FitH,%
18 pdfpagelayout=OneColumn,%
19 bookmarksopen=true%
20 ]{hyperref}[2011/12/04]% v6.82m; when you want to use nameref
21 \gdef\unit#1{\mathord{\thinspace\mathrm{#1}}}%
22 \listfiles
23 \begin{document}
24 \pagenumbering{arabic}
```

```

25 \section*{Example for undolabl}
26
27 This example demonstrates the use of package\newline
28 \textsf{undolabl}, v1.0k as of 2012/01/01 (HMM).\newline
29 For details please see the documentation!\newline
30
31 \noindent Save per page about $200\unit{ml}$~water,
32 $2\unit{g}$~CO$_{2}$ and $2\unit{g}$~wood:\newline
33 Therefore please print only if this is really necessary.\newline
34 I do NOT think, that it is necessary to print THIS file, really!
35
36 \bigskip
37
38 \section{Test}
39
40 text \label{testlabel}\\
41 page-reference: \pageref{testlabel}\\\% -> page 4
42 sectional-reference: \ref{testlabel}\\\% -> section 4
43 name-reference: \nameref{testlabel}\\\% -> Still another test
44
45 \newpage
46
47 \section{Another test}
48
49 text \overridelabel{testlabel}\\
50 page-reference: \pageref{testlabel}\\\% -> page 4
51 sectional-reference: \ref{testlabel}\\\% -> section 4
52 name-reference: \nameref{testlabel}\\\% -> Still another test
53
54 \newpage
55
56 \section{Yet another test}
57
58 text \overridelabel{testlabel}\\
59 page-reference: \pageref{testlabel}\\\% -> page 4
60 sectional-reference: \ref{testlabel}\\\% -> section 4
61 name-reference: \nameref{testlabel}\\\% -> Still another test
62
63 \newpage
64
65 \section{Still another test}
66
67 text \overridelabel{testlabel}\\
68 page-reference: \pageref{testlabel}\\\% -> page 4
69 sectional-reference: \ref{testlabel}\\\% -> section 4
70 name-reference: \nameref{testlabel}\\\% -> Still another test
71
72 \end{document}
73 \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.

```
74 (*package)
75 \NeedsTeXFormat{LaTeX2e}[2011/06/27]
76 \ProvidesPackage{undolabl}[2012/01/01 v1.0k
77   Overriding labels (HMM)]
78 %% undolabl may work with earlier versions of LaTeX2e,
79 %% but this was not tested. Please consider updating
80 %% your LaTeX2e to the most recent version
81 %% (if it is not already the most recent version).
82

\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.

83 \newcommand\overridelabel[1]{%
84   \@bsphack
85   \protected@write\auxout{}\string\undonewlabel{#1}%
86   \@overriddenmessage s{#1}%

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

87   \label{#1}%
88   \@esphack%
89 }
90

\undonewlabel

91 \newcommand\undonewlabel{\@und@newl@bel r}
92

\@und@newl@bel

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

93 \newcommand\@und@newl@bel[2]{%
94   \@ifundefined{#1#2}{%
95     \PackageError{undolabl}{Label ‘#2’ shall be overridden ^~J%
96       although it does not yet exist}{%
97       A label which does not exist cannot be overridden.}%
98   }{%

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

99   \expandafter\global
100  \expandafter\let
101  \csname #1#2\endcsname\relax
102  }%
103 }
104
```

```

\@overriddenmessage      Command for the notification of overriding a label:

105 \newcommand\@overriddenmessage[2]{%
106   \@ifundefined{#1@#2}{\global\@namedef{#1@#2}{i}}{%
107     \expandafter\g@addto@macro\csname #1@#2\endcsname{i}%
108   }%
109   \PackageWarning{undolabl}{Label ‘#2’ overridden}%
110 }
111

\undolabl@testdef

112 \newcommand\undolabl@testdef[3]{%
113   \@ifundefined{s@#2}\@secondoftwo\@firstofone{%
114     \expandafter\ifx\csname s@#2\endcsname\empty
115     \expandafter\@firstofone
116   \else
117     \expandafter\xdef\csname s@#2\endcsname{%
118       \expandafter\expandafter
119       \expandafter\@gobble
120       \csname s@#2\endcsname
121     }%
122     \expandafter\@gobble
123   \fi
124   }\@testdef{#1}{#2}{#3}%
125   }%
126 }
127

\protected@write
  @auxout
128 \protected@write\@auxout{}\{\string\reset@newl@bel}
129

\reset@newl@bel

130 \newcommand\reset@newl@bel{%
131   \ifx\@newl@bel\@testdef
132     \let\@newl@bel\undolabl@testdef
133     \let\undonewlabel\@gobble
134   \fi
135 }
136
137 \</package>

```

5 Installation

5.1 Downloads

Everything is available on CTAN: <http://www.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_EX Format L^AT_EX 2_ε, <http://www.CTAN.org/>
- document class `ltxdoc`, 2007/11/11, v2.0u, <http://ctan.org/pkg/ltxdoc>
- package `hltxdoc`, 2011/02/04, v0.21, <http://ctan.org/pkg/hltxdoc>
- package `hypdoc`, 2010/03/26, v1.9, <http://ctan.org/pkg/hypdoc>

`undolabl.sty` The `undolabl.sty` for L^AT_EX 2_ε (i.e. each document using the `undolabl` package) requires:

- T_EX Format L^AT_EX 2_ε, <http://www.CTAN.org/>

`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](http://www.ctan.org/macros/latex/base/classes.dtx)
- package `hyperref`, 2011/12/04, v6.82m: <http://ctan.org/pkg/hyperref>,
if `\nameref` shall be used
(and when the references shall be hyperlinked, of course)
- package `undolabl`, 2012/01/01, v1.0k, <http://ctan.org/pkg/undolabl>
(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 `hltxdoc` and
`hltxdoc` `hypdoc`) are also available in a TDS compliant ZIP archive:

`hypdoc` [CTAN:install/macros/latex/contrib/oberdiek.tds.zip](http://www.ctan.org/install/macros/latex/contrib/oberdiek.tds.zip).

It is probably best to download and use this, because the packages in there are quite probably both recent and compatible among themselves.

`hyperref` `hyperref` is not included in that bundle and needs to be downloaded separately,
<http://mirror.ctan.org/install/macros/latex/contrib/hyperref.tds.zip>.

`Münch` A hyperlinked list of my (other) packages can be found at <http://www.Uni-Bonn.de/~uzs5pv/LaTeX.html>.

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.pdf](#)
The documentation.

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

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

There is also an undolabl.tds.zip available:

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

which additionally contains

undolabl.ins	The installation file.
undolabl.drv	The driver to generate the documentation.
undolabl.sty	The <code>.style</code> file.
undolabl-example.tex	The example file.

For required other packages, please see the preceding subsection.

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

```
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/undolabl/undolabl.sty
undolabl.pdf	→ doc/latex/undolabl/undolabl.pdf
undolabl-example.tex	→ doc/latex/undolabl/undolabl-example.tex
undolabl-example.pdf	→ doc/latex/undolabl/undolabl-example.pdf
undolabl.dtx	→ source/latex/undolabl/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 `TEX` distribution (te`TEX`, mik`TEX`,...) relies on file name databases, you must refresh these. For example, te`TEX` users run `texhash` or `mktextlsr`.

5.4 Some details for the interested

Unpacking with L^AT_EX. The .dtx chooses its action depending on the format:

plain T_EX: Run docstrip and extract the files.

L^AT_EX: Generate the documentation.

If you insist on using L^AT_EX for docstrip (really, docstrip does not need L^AT_EX), 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 a 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 pdfL^AT_EX:

```
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?dmode=source> as well as <http://groups.google.de/group/comp.text.tex/msg/af6cfe93917097da?dmode=source>).

I (H.-MARTIN MÜNCH) would like to thank ULRICH DIEZ for this as well as for his permission to publish it on **CTAN**: as well as for his bug reports. I also thank those anonymous people who had published the package somewhere else on the internet, where I found it first. Further I would like to thank RAINER WINTERMUTE for explaining the `\Checksum`, HEIKO OBERDIEK 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), ROBIN FAIRBAIRNS and everybody of the **CTAN**: team for managing **CTAN**:, and the **news:comp.text.tex** and **news:de.comp.text.tex** newsgroups for their help in all things T_EX.

7 History

[2008/04/20 v0.3(a)]

- 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(a)]

- .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 of this version was still missing due to a packaging error.)
- Updated references to other packages: `hyperref` and `pagesLTS` (which has been renamed to `pageslts` and is no longer referenced since v1.0h).
- Added a list of my other packages.

[2010/07/15 v1.0d]

- There was another update by ULRICH DIEZ on [news:comp.text.tex](http://groups.google.de/group/comp.text.tex/msg/af6cfe93917097da?dmode=source) at Mon, 21 Apr 2008 23:04:03 +0200, see e. g. <http://groups.google.de/group/comp.text.tex/msg/af6cfe93917097da?dmode=source>, which now has been included in this package.
- Put more emphasis on Ulrich Diez writing the initial code.

- Updated references to other packages: `hyperref` and `pagesLTS` (which has been renamed to `pageslts` and is no longer referenced since v1.0h).
- Corrected the given location of the `undolabl.tds.zip` file at [CTAN](#).

[2010/07/25 v1.0e]

- Bugs reported by ULRICH DIEZ on [news:comp.text.tex](#) at Sat, 17 Jul 2010 12:27:10 +0200, subject Re: CTAN Update: undolabl, see e.g. <http://groups.google.com/group/comp.text.tex/msg/d366821ce4f8b62e?dmode=source>, eradicated.
- `\StopEventually` added and `\Checksum` value corrected (was 0).
- Minor details.

[2010/07/29 v1.0f]

- Corrected diverse urls, updated references to other packages.

[2010/09/12 v1.0g]

- There was a wrong % behind 2010/07/29 v1.0f, resulting in the version being displayed as “v1.0fOverriding”.
- Changed the `\unit` definition (got rid of an old `\rm`).
- A lot of small changes.

[2011/02/01 v1.0h]

- Updated to new version of the `hyperref` package.
- Removed `/muench/` from the path at diverse locations.
- Replaced the list of my packages with a link to a web page list of those, which has the advantage of showing the recent versions of all those packages.
- Some small changes.

[2011/06/26 v1.0i]

- The `holtxdoc` package was fixed (recent: 2011/02/04, v0.21), therefore the warning in `drv` could be removed. – Adapted the style of this documentation to new OBERDIEK `dtx` style.
- There is a new version of the used `hyperref` package.
- Quite some changes in the `.dtx`/documentation.

[2011/08/08 v1.0j]

- The `pagesLTS` package has been renamed to `pageslts`: 2011/08/08, v1.2a.
- Some minor changes.

[2012/01/01 v1.0k]

- Bugfix: Obsolete installation path given in the documentation, updated.
- Bugfix: A section was broken in the documentation (text had been lost but was recovered now).
- Update of documentation, README, and `dtx` internals.

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>	85, 128	<code>\M"{u}nch</code>	9
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