

# The undolabl package

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## Abstract

This L<sup>A</sup>T<sub>E</sub>X 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 CO<sub>2</sub> 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  $\text{\LaTeX}$ -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  $\text{\LaTeX}$ -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  $\text{\LaTeX}$ -run.
- During the  $\text{\LaTeX}$ -run, the `.aux` file gets rewritten.
- At the end of the  $\text{\LaTeX}$ -run, the `.aux` file (which was rewritten/newly created during the  $\text{\LaTeX}$ -run) is read in order to detect whether references have changed during the current  $\text{\LaTeX}$ -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  $\text{\LaTeX}$ -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  $\text{\LaTeX}$ -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 `.aux` file is read at the end of the  $\text{\LaTeX}$ -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  $\text{\LaTeX}$ -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  $\text{\LaTeX}$   $2_{\epsilon}$  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{article}
3 %%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
4 \usepackage{undolabl}[2011/06/26]% v1.0h
5 %% There are no options for the undolabl package. %%
6 \usepackage{hyperref}[2011/04/17]% v6.82g; when 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 Diez},%
15  pdfsubject={Example for the undolabl package},%
16  pdfkeywords={LaTeX, undolabl, Ulrich Diez, Hans-Martin Muench},%
17  pdfview=FitH,%
18  pdfstartview=FitH,%
19  pdfpagelayout=OneColumn,%
20  bookmarksopen=true%
21 }
22 \gdef\unit#1{\mathord{\thinspace\mathrm{#1}}}%
23 \listfiles
24 \begin{document}
25 \pagenumbering{arabic}
```

```

26 \section*{Example for undolabl}
27
28 This example demonstrates the use of package\newline
29 \textsf{undolabl}, v1.0i as of 2011/06/26 (HMM).\newline
30 For details please see the documentation!\newline
31
32 \noindent Save per page about $200\unit{ml}$~water,
33 $2\unit{g}$~CO$_{2}$ and $2\unit{g}$~wood:\newline
34 Therefore please print only if this is really necessary.\newline
35 I do NOT think, that it is necessary to print THIS file, really\newline
36 (at least not after this page)!
37
38 \bigskip
39
40 \section{Test}
41
42 text \label{testlabel}\\
43 page-reference: \pageref{testlabel}\\\% -> page 4
44 sectional-reference: \ref{testlabel}\\\% -> section 4
45 name-reference: \nameref{testlabel}\\\% -> Still another test
46
47 \newpage
48
49 \section{Another test}
50
51 text \overridelabel{testlabel}\\
52 page-reference: \pageref{testlabel}\\\% -> page 4
53 sectional-reference: \ref{testlabel}\\\% -> section 4
54 name-reference: \nameref{testlabel}\\\% -> Still another test
55
56 \newpage
57
58 \section{Yet another test}
59
60 text \overridelabel{testlabel}\\
61 page-reference: \pageref{testlabel}\\\% -> page 4
62 sectional-reference: \ref{testlabel}\\\% -> section 4
63 name-reference: \nameref{testlabel}\\\% -> Still another test
64
65 \newpage
66
67 \section{Still another test}
68
69 text \overridelabel{testlabel}\\
70 page-reference: \pageref{testlabel}\\\% -> page 4
71 sectional-reference: \ref{testlabel}\\\% -> section 4
72 name-reference: \nameref{testlabel}\\\% -> Still another test
73
74 \end{document}
75 \end{example}

```

## 4 The implementation

For a somewhat longer description see section 1.

We start off by checking that we are loading into L<sup>A</sup>T<sub>E</sub>X 2<sub>ε</sub> and announcing the name and version of this package.

```
76 (*package)
77 \NeedsTeXFormat{LaTeX2e}[2009/09/24]
78 \ProvidesPackage{undolabl}[2011/06/26 v1.0i]
79   Overriding labels (HMM)]
80
\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.
81 \newcommand\overridelabel[1]{%
82   \bsphack
83   \protected@write\auxout{}\string\undonewlabel{#1}}%
84   \@overriddenmessage s{#1}%

                  Then \overridelabel can call \label{<label>} again and thus produce an-
                  other \newlabel{<label>}-entry to the .aux file.
85   \label{#1}%
86   \esphack
87 }
88
\undonewlabel

89 \newcommand\undonewlabel{\@und@newl@bel r}
90
\@und@newl@bel

                  If \r@<label> is undefined, give an error message:
91 \newcommand\@und@newl@bel[2]{%
92   \ifundefined{#1@#2}{%
93     \PackageError{undolabl}{Label ‘#2’ shall be overridden ^^J%
94       although it does not yet exist}{%
95       A label which does not exist cannot be overridden.}%
96   }{%

otherwise:
Undefined \r@label via letting it equal to \relax:
97   \expandafter\global
98   \expandafter\let
99   \csname #1@#2\endcsname\relax
100 }%
101 }
102

\@overriddenmessage
```

Command for the notification of overriding a label:

```

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

\undolabl@testdef

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

\protected@write
  @auxout
126 \protected@write\@auxout{}\{\string\reset@newl@bel}
127

\reset@newl@bel

128 \newcommand\reset@newl@bel{%
129   \ifx\@newl@bel\@testdef
130     \let\@newl@bel\undolabl@testdef
131     \let\undonewlabel\@gobble
132   \fi
133 }
134

135 \</package>

```



## 5 Installation

### 5.1 Downloads

Everything is 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<sub>E</sub>XFormat L<sup>A</sup>T<sub>E</sub>X 2<sub>ε</sub>, 2009/09/24, v2<sub>ε</sub>: [CTAN:](#)
- document class `ltxdoc`, 2007/11/11, v2.0u,  
[CTAN:macros/latex/base/ltxdoc.dtx](#)
- package `hltxdoc`, 2011/02/04, v0.21,  
[CTAN:macros/latex/contrib/oberdiek/hltxdoc.dtx](#)
- package `hypdoc`, 2010/03/26, v1.9,  
[CTAN:macros/latex/contrib/oberdiek/hypdoc.dtx](#)

`undolabl.sty` The `undolabl.sty` for L<sup>A</sup>T<sub>E</sub>X 2<sub>ε</sub> (i.e. each document using the `undolabl` package) requires:

- T<sub>E</sub>XFormat L<sup>A</sup>T<sub>E</sub>X 2<sub>ε</sub>, 2009/09/24, v2<sub>ε</sub>, [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`, 2011/04/17, v6.82g:  
[CTAN:macros/latex/contrib/hyperref/](#),  
if `nameref` shall be used  
(and when the references shall be hyperlinked, of course)
- package `undolabl`, 2011/06/26, v1.0i,  
[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 `hltxdoc` and  
`hltxdoc` `hypdoc`) are also available in a TDS compliant ZIP archive:

`hypdoc` [CTAN: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 a `undolabl.tds.zip` available:

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

which additionally contains

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

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  $\text{\TeX}$ :

```
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):

<code>undolabl.sty</code>	→ <code>tex/latex/muench/undolabl.sty</code>
<code>undolabl.pdf</code>	→ <code>doc/latex/muench/undolabl.pdf</code>
<code>undolabl-example.tex</code>	→ <code>doc/latex/muench/undolabl-example.tex</code>
<code>undolabl-example.pdf</code>	→ <code>doc/latex/muench/undolabl-example.pdf</code>
<code>undolabl.dtx</code>	→ <code>source/latex/muench/undolabl.dtx</code>

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

## 5.4 Some details for the interested

**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{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<sup>A</sup>T<sub>E</sub>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](mailto:eu.angelion@web.de)) and first published in the [news:comp.text.tex](mailto: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](mailto:news:comp.text.tex) and [news:de.comp.text.tex](mailto:news:de.comp.text.tex) newsgroups for their help in all things T<sub>E</sub>X.

## 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](mailto: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.
- 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.
- 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](mailto: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 version 2010/12/16 v6.81z 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: 2011/04/17, v6.82g.
- Quite some changes in the `.dtx`/documentation.

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.)

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