

The undolabl package

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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

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 $\LaTeX 2_{\epsilon}$ 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[british]{article}[2007/10/19]% v1.4h
3 \usepackage{undolabl}[2015/03/29]% v1.01
4 %% There are no options for the undolabl package. %%
5 \usepackage[%
6 extension=pdf,%
7 plainpages=false,%
8 pdfpagelabels=true,%
9 hyperindex=false,%
10 pdflang={en},%
11 pdftitle={undolabl package example},%
12 pdfauthor={H.-Martin Muench, after Ulrich Diez},%
13 pdfsubject={Example for the undolabl package},%
14 pdfkeywords={LaTeX, undolabl, undolabel, H.-Martin Muench, Ulrich Diez},%
15 pdfview=FitH,%
16 pdfstartview=FitH,%
17 pdfpagelayout=OneColumn,%
18 bookmarksopen=true%
19 ]{hyperref}[2012/11/06]% v6.83m; when you want to use nameref
20 \gdef\unit#1{\mathord{\thinspace\mathrm{#1}}}%
21 \listfiles
22 \begin{document}
23 \pagenumbering{arabic}
24 \section*{Example for undolabl}
```

```

25
26 This example demonstrates the use of package\newline
27 \textsf{undolabl}, v1.01 as of 2015/03/29 (HMM).\newline
28 For details please see the documentation!\newline
29
30 \noindent Save per page about $200\unit{ml}$~water,
31 $2\unit{g}$~CO$_{2}$ and $2\unit{g}$~wood:\newline
32 Therefore please print only if this is really necessary.\newline
33 I do NOT think, that it is necessary to print THIS file, really!
34
35 \bigskip
36
37 \section{Test}
38
39 text \label{testlabel}\
40 page-reference: \pageref{testlabel}\%% -> page 4
41 sectional-reference: \ref{testlabel}\%% -> section 4
42 name-reference: \nameref{testlabel}\%% -> Still another test
43
44 \newpage
45
46 \section{Another test}
47
48 text \overridelabel{testlabel}\
49 page-reference: \pageref{testlabel}\%% -> page 4
50 sectional-reference: \ref{testlabel}\%% -> section 4
51 name-reference: \nameref{testlabel}\%% -> Still another test
52
53 \newpage
54
55 \section{Yet another test}
56
57 text \overridelabel{testlabel}\
58 page-reference: \pageref{testlabel}\%% -> page 4
59 sectional-reference: \ref{testlabel}\%% -> section 4
60 name-reference: \nameref{testlabel}\%% -> Still another test
61
62 \newpage
63
64 \section{Still another test}
65
66 text \overridelabel{testlabel}\
67 page-reference: \pageref{testlabel}\%% -> page 4
68 sectional-reference: \ref{testlabel}\%% -> section 4
69 name-reference: \nameref{testlabel}\%% -> Still another test
70
71 \end{document}
72 \</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.

```
73 (*package)
74 \NeedsTeXFormat{LaTeX2e}[2014/05/01]
75 \ProvidesPackage{undolabl}%
76 [2015/03/29 v1.01 Overriding labels (HMM)]
77 %% undolabl may work with earlier versions of LaTeX2e,
78 %% but this was not tested. Please consider updating
79 %% your LaTeX2e to the most recent version
80 %% (if it is not already the most recent version).
81
\AtBeginDocument \AtBeginDocument it is checked whether writing to files is allowed. Some packages
(e. g. tikz and selectp) sometimes prevent the output to the aux file. In that case a
warning or an error message is issued. This is no problem as long as there is/was
another compilation run where the labels can/could be processed via the aux file.

82 \AtBeginDocument{%
83   \if@filesw%

then \relax.
When writing to files is not allowed, nothing can be done. But when the labels were
already processed via the aux file, nothing needs to be done (if enough compilation
runs have been done before).

84   \else%
85     \@ifpackageloaded{tikz}{%
86       \PackageWarning{undolabl}%
87         {The undolabl package was not allowed to write to an\MessageBreak%
88           .aux file. This package does not work without access\MessageBreak%
89           to an .aux file.\MessageBreak%
90           It is OK if the .aux file was already updated\MessageBreak%
91           by a previous compiler run\MessageBreak%
92           and would not have changed anyway.\MessageBreak%
93         }%
94     }\PackageError{undolabl}{No writing to auxiliary file allowed}%
95     {The undolabl package was not allowed to write to an .aux file.\MessageBreak%
96       This package does not work without access to an .aux file.\MessageBreak%
97       Press Ctrl+Z to exit.\MessageBreak%
98       But it is OK if the .aux file was already updated\MessageBreak%
99       by a previous compiler run\MessageBreak%
100      and would not have changed anyway.\MessageBreak%
101     }%
102   }%
103   \fi%
```

The `undolabl` and the `acronym` packages shared some commands with the same names and were therefore incompatible. JAN HEISSWOLF (ITIV at KIT) reported this in 2014 (Thanks!). Changing the macros in the `undolabl` package also required changing them in the `pageslts` package and providing a fallback mechanism for the old commands used in existing `.aux` files. When I wanted to implement this in 2015, it turned out the `acronym` package had been updated a week before (Thanks!) and fixed the incompatibility. Now what remained to be done was just to check that no older `acronym` package is used:

```

104 \@ifpackageloaded{acronym}%
105   {\@ifpackagelater{acronym}{2015/03/20}%
106     {% later, OK
107     }\PackageError{undolabl}{Incompatible old acronym package detected}%
108     {The undolabl package is not compatible with the acronym package%
109     \MessageBreak%
110     older than 2015/03/21 v1.41. Please update your acronym package!%
111     \MessageBreak%
112     }%
113   }%
114   {% not loaded, OK
115   }%
116 }
117

```

`\overridelabel` In order to override a label, first one needs 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.

```

118 \newcommand\overridelabel[1]{%
119 \@bsphack%
120 \if@files%
121 \protected@write\@auxout{}{\string\undonewlabel{#1}}%
122 \@overriddenmessage s{#1}%

```

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

```

123 \label{#1}%
124 \fi%
125 \@esphack%
126 }
127

```

`\undonewlabel`

```

128 \newcommand\undonewlabel{\@und@newl@bel r}
129

```

`\@und@newl@bel`

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

```

130 \newcommand\@und@newl@bel[2]{%
131 \@ifundefined{#1#2}{%
132 \PackageError{undolabl}{Label ‘#2’ shall be overridden ^~J%
133 although it does not yet exist}{%
134 A label which does not exist cannot be overridden.}%
135 }%

```

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

```
136 \expandafter\global
137 \expandafter\let
138 \csname #1#2\endcsname\relax%
139 }%
140 }
141
```

\@overriddenmessage

Command for the notification of overriding a label:

```
142 \newcommand\@overriddenmessage[2]{%
143 \ifundefined{#1#2}{\global\@namedef{#1#2}{i}}{%
144 \expandafter\g@addto@macro\csname #1#2\endcsname{i}%
145 }%
146 \PackageWarning{undolabl}{Label ‘#2’ overridden}%
147 }
148
```

\undolabl@testdef

```
149 \newcommand\undolabl@testdef[3]{%
150 \ifundefined{s#2}\@secondoftwo\@firstofone{%
151 \expandafter\ifx\csname s#2\endcsname\empty
152 \expandafter\@firstofone
153 \else%
154 \expandafter\xdef\csname s#2\endcsname{%
155 \expandafter\expandafter
156 \expandafter\@gobble
157 \csname s#2\endcsname
158 }%
159 \expandafter\@gobble
160 \fi%
161 }{\@testdef{#1}{#2}{#3}%
162 }%
163 }
164
```

\protected@write

@auxout

```
165 \if@files%
166 \protected@write\@auxout{}{\string\reset@newl@bel}%
167 \fi%
168
```

\reset@newl@bel

```
169 \newcommand\reset@newl@bel{%
170 \ifx\@newl@bel\@testdef%
171 \let\@newl@bel\undolabl@testdef%
172 \let\undonewlabel\@gobble%
173 \fi%
174 }
175
176 </package>
```

5 Installation

5.1 Downloads

Everything is available at <https://www.ctan.org> 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, <https://www.CTAN.org>
- document class `ltxdoc`, 2014/09/29, v2.0u, <https://www.ctan.org/pkg/ltxdoc>
- package `holtxdoc`, 2012/03/21, v0.24, <https://www.ctan.org/pkg/holtxdoc>
- package `hypdoc`, 2011/08/19, v1.11, <https://www.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, <https://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`, 2014/09/29, v1.4h, <https://www.ctan.org/pkg/article>
- package `hyperref`, 2012/11/06, v6.83m: <https://www.ctan.org/pkg/hyperref>, if `\nameref` shall be used (and when the references shall be hyperlinked, of course)
- package `undolabl`, 2015/03/29, v1.0l, <https://www.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 `holtxdoc` and
`holtxdoc` `hypdoc`) are also available in a TDS compliant ZIP archive:
`hypdoc` <http://mirrors.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 <https://www.ctan.org/author/muench-hm>.

5.2 Package, unpacking TDS

Package. This package is available at <https://www.ctan.org/pkg/undolabl>, especially the manual (README, undolabl.pdf), the example (source: undolabl-example.tex, compiled: undolabl-example.pdf), and the undolabl.dtx. There is also an undolabl.tds.zip available: <http://mirrors.ctan.org/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 .sty 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 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/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 T_EX distribution (teT_EX, miK_TE_X,...) relies on file name databases, you must refresh these. For example, teT_EX users run texhash or mktexlsr.

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

Some old versions have been archived at
<http://ctanhg.scharrer-online.de/pkg/undolabl.html>.

[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: 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).

[2010/07/15 v1.0d]

- There was another update by **ULRICH DIEZ** 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?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 and corrected the given location of the undolabl.tds.zip file at CTAN.org.

[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 “v1.0f0verriding”.
- 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.
- 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.

[2015/03/29 v1.01]

- Incompatibility with acronym package fixed – by acronym package, thanks! Check for older versions introduced.
- Introduced a check, whether writing to the aux file is allowed.
- 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.)

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