

The *changes*-package

Manual change markup — version 0.5.3

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1 Introduction

This package provides manual change markup.

Any comments, thoughts or improvements are welcome, just send an email.

If you want to see the commented package-sourcecode, please uncomment `\OnlyDescription` in `changes.drv` and translate the document.

README: The `changes-package` allows users to manually markup changes of text such as additions, deletions, or replacements. Changed text is shown in a different colour; deleted text is striked out. The package allows free defining of additional authors and their associated colour. It also allows you to define a markup for authors or annotations.

As I'm not a native speaker, please feel free to report any grammatic or orthographic errors.

2 User interface of the *changes-package*

For activating manual change management, address the *changes-package* as follows:

```
\usepackage{changes}
```

Options for the package are described in [subsection 2.2](#).

2.1 Used packages

The *changes-package* uses already existing packages. The following packages have to be installed for the *changes-package*; otherwise errors may occur.

You will find detailed description of the packages in their distributions.

ifthen provides an enhanced `\if`-command as well as a `while`-loop

pdfcolmk solves the problem of coloured text and page breaks (with `pdflatex`)

ulem striking out texts

xcolor provides colourised markup of texts

xkeyval provides options with key-value-pairs

2.2 Options

draft

The *draft*-option enables markup of changes. The list of changes is available via `\listofchanges`. This option is the default option, if no other option is selected.

The *changes* package reuses the declaration of *draft* in `\documentclass`. The local declaration of *final* overrules the declaration of *draft* in `\documentclass`.

```
\usepackage[draft]{changes}
```

final

The *final*-option disables markup of changes, only the correct text will be shown. The list of changes is disabled, too.

The *changes* package reuses the declaration of *final* in `\documentclass`. The local declaration of *draft* overrules the declaration of *final* in `\documentclass`.

```
\usepackage[final]{changes}
```

ulem

All options for the *ulem* package can be specified as parameters of the *ulem*-option. Two or more options have to be embraced in curly brackets.

```
\usepackage[ulem=normalem]{changes}  
\usepackage[ulem={normalem,normalbf}]{changes}
```

xcolor

All options for the *xcolor* package can be specified as parameters of the *xcolor*-option. Two or more option have to be embraced in curly brackets.

```
\usepackage[xcolor=dvipdf]{changes}  
\usepackage[xcolor={dvipdf,gray}]{changes}
```

2.3 New commands

This section describes all new commands of the *changes*-package.

2.3.1 Change management

`\added`

The command `\added` marks new text. The new text is the mandatory argument for the command, thus it is written in curly braces. There are two optional arguments: `author-id` and `remark`. The `author-id` has to be defined using `\definechangesauthor`. Use an empty author for an anonymous remark.

Definition `\added[$\langle author-id \rangle$][$\langle remark \rangle$]{ $\langle new text \rangle$ }`

Example This is `\added[EK]{new}` text.
This is new^{EK} text.
This is `\added[][anonymous]{new}` text.
This is new¹ text.

`\deleted`

The command `\deleted` marks deleted text. For arguments see `\added`.

Definition `\deleted[$\langle author-id \rangle$][$\langle remark \rangle$]{ $\langle deleted text \rangle$ }`

Example This is `\deleted[][unnecessary]{bad}` text.
This is bad² text.

`\replaced`

The command `\replaced` marks replaced text. Mandatory arguments are new and old text. For optional arguments see `\added`.

Definition `\replaced[$\langle author-id \rangle$][$\langle remark \rangle$]{ $\langle new text \rangle$ }{ $\langle old text \rangle$ }`

Example This is `\replaced[EK]{nice}{ugly}` text.
This is niceugly^{EK} text.

`\listofchanges`

The command `\listofchanges` outputs a list of changes. The first \LaTeX -run creates an auxiliary file, the second run uses the data of this file. Therefore you need two \LaTeX -runs for an actual list of changes.

Definition `\listofchanges`

2.3.2 User specific adaption

`\definechangesauthor`

The command `\definechangesauthor` defines a new author for changes. You have to define a unique author-id and a corresponding colour. Special characters or spaces are not allowed in the author-id. The name of the author can optionally be defined, it is used in the list of changes.

Definition `\definechangesauthor[<author-name>]{<author-id>}{<colour>}`

Example `\definechangesauthor{EK}{orange}`
`\definechangesauthor[Ekkart Kleinod]{EK}{orange}`

`\setlocextension`

The command `\setlocextension` sets the extension of the auxiliary file for the list of changes. The default extension is "loc". In the example, the auxiliary file for "foo.tex" would be named "foo.changes".

Definition `\setlocextension{<extension>}`

Example `\setlocextension{changes}`

`\setauthormarkup`

The command `\setauthormarkup` sets the layout of the authormarkup in the text. The default markup is a superscripted author-id on the right side of the changed text.

Values for position (optional): left = left of the changes; all other values: right
Values for definition: any \TeX -commands, author-id can be shown using "#1".

Definition `\setauthormarkup[<position>]{<definition>}`

Example `\setauthormarkup{(#1)}`
`\setauthormarkup[left]{(#1)~---}`
`\setauthormarkup{\marginpar{#1}}`
`\setauthormarkup[right]{}`

`\setremarkmarkup`

The command `\setremarkmarkup` sets the layout of the remarkmarkup in the text. The default markup sets the remark in a footnote.

Values for definition: any \TeX -commands, author-id can be used with "#1", remark can be shown using "#2". Using the author-id you can use the author's colour with `Changes@Color#1`.

Definition `\setremarkmarkup{\langle definition \rangle}`

Example `\setremarkmarkup{(#2:#1)}`
`\setremarkmarkup{\footnote{#1:\textcolor{Changes@Color#1}{#2}}}`

3 Authors

The *changes* packages was written by several authors. The authors are (in alphabetical order):

- Kleinod, Ekkart
- Wolter, Steve

4 Versions

4.1 TODO/known bugs

- ant-task for deleting all *changes*-commands
- markup of figures/tables
- change-environments for longer text
- missing T1-fonts (umlauts) and *inputenc* create errors
- maybe introducing second-class change-commands (not so important), using starred commands?

4.2 Version 0.5.3

Date: 2010/11/21

- document options of `\documentclass` are used as well (suggestion and code of Steve Wolter)

4.3 Version 0.5.2

Date: 2007/10/10

- package options for *pdfcolmk*, *ulem*, and *xcolor* are passed to the packages

4.4 Version 0.5.1

Date: 2007/08/27

- deleted text is striked out again using package *ulem*, greying didn't work

4.5 Version 0.5

Date: 2007/08/26

- no usage of package *arrayjob* anymore, thus no errors using package *array*
- switch to UTF-8-encoding
- no usage of package *soul* anymore, thus no errors using UTF-8-encoding
- markup for deleted text changed to gray background, because there's no possibility to conveniently strikeout UTF-8-text
- new optional argument for author name
- coloured list of changes
- changed loc file format
- improved English documentation

4.6 Version 0.4

Date: 2007/01/24

- included *pdfcolmk* to solve problem with coloured text and page breaks
- extended `\setremarkmarkup` with author-id for using colour in remarks
- remarks are by default coloured now
- first version uploaded to CTAN

4.7 Version 0.3

Date: 2007/01/22

- english user-documentation
- replaced `\changed` with `\replaced`
- improved `final`-option: no additional space

4.8 Version 0.2

Date: 2007/01/17

- defined loc-names when missing *babel*-package
- `\setauthormarkup`, `\setlocextension`, `\setremarkmarkup` new
- generated examples
- inserted LPPL

Bugfixes

- fixed wrong *ifthen*-placement
- fixed error in loc, always showing "added"
- fixed `authormarkup` (`\if-condition` not bugfree)

4.9 Version 0.1

Date: 2007/01/16

- initial version
- commands `\added`, `\deleted`, and `\changed`

5 Distribution, Copyright, License

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<http://www.latex-project.org/lppl.txt>

and version 1.3 or later is part of all distributions of \LaTeX version 2005/12/01 or later.

This work has the LPPL maintenance status "maintained". The current maintainer of this work is Ekkart Kleinod.

This work consists of the files

```
changes.drv
changes.dtx
changes.ins
README
```

and the derived files

```
changes.sty
changes.pdf
changes.example1.tex
changes.example2.tex
changes.example3.tex
```