

# The *changes*-package

Manual change markup — version 2.0.4

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## 1 Introduction

This package provides means for manual change markup.

Any comments, thoughts or improvements are welcome. The package is maintained at *sourceforge*, please see

<http://changes.sourceforge.net/>

for source code access, bug and feature tracker, forum etc. If you want to contact me directly, please send an email to [ekleinod@edgesoft.de](mailto:ekleinod@edgesoft.de). Please start your email subject with [changes].

README: The *changes*-package allows the user to manually markup changes of text, such as additions, deletions, or replacements. Changed text is shown in a different color; deleted text is striked out. The package allows free definition of additional authors and their associated color. It also allows you to change the markup of changes, authors, or annotations.

## 2 Using the *changes*-package

In this section a typical use case of the *changes*-package is described. You can find the detailed description of the package options and new commands in Section 4.

We start with the text you want to change. You want to markup the changes for each author individually. Such a change markup is well-known in WYSIWYG text processors such as *LibreOffice*, *OpenOffice*, or *Word*.

The *changes*-package was developed in order to support such change markup. The package provides commands for defining authors, and for marking text as added, deleted, or replaced. In order to use the package, you have to follow these steps:

1. use *changes*-package
2. define authors
3. markup text changes
4. typeset the document with  $\LaTeX$
5. output list of changes
6. remove markup

### use *changes*-package

In order to activate change management, use the *changes*-package as follows:

```
\usepackage{changes}
```

respectively

```
\usepackage[<options>]{changes}
```

You can use the options for defining the layout of the change markup. You can change the layout after using the *changes*-package as well.

For detailed information please refer to Section 4.1 and Section 4.4.

### **define authors**

The *changes*-package provides a default anonymous author. If you want to track your changes depending on the author, you have to define the needed authors as follows:

```
\definechangesauthor[<options>]{id}
```

Every author is uniquely identified through his or her id. You can give every author an optional name and/or color.

For detailed information please refer to Section 4.3.

### **markup text changes**

Now everything is set to markup the changed text. Please use the following commands according to your change:

for newly added text:

```
\added[id=<id>, remark=<remark>]{text}
```

for deleted text:

```
\deleted[id=<id>, remark=<remark>]{text}
```

for replaced text:

```
\replaced[id=<id>, remark=<remark>]{text}
```

Stating the author's id and/or a remark is optional.

For detailed information please refer to Section 4.2.

### **typeset the document with L<sup>A</sup>T<sub>E</sub>X**

After marking your changes in the text you are able to display them in the generated document by processing it as usual with L<sup>A</sup>T<sub>E</sub>X. By processing your document the changed text is layouted as you stated by the corresponding options and/or special commands.

### **output list of changes**

You can print a list of changes using:

```
\listofchanges[style=<list|summary>]
```

The list is meant to be the analogon to the list of tables, or the list of figures.

Stating the style is optional, default is `style=list`. In order to print a quick overview of the number and kind of changes of every author, use the option `style=summary`.

By running  $\TeX$  the data of the list is written into an auxiliary file. This data is used in the next  $\TeX$  run for typesetting the list of changes. Therefore, two  $\TeX$  runs are needed after every change in order to typeset an up-to-date list of changes.

### remove markup

Often you want to remove the change markup after acknowledging or rejecting the changes. You can suppress the output of changes with:

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

## 2.1 Available scripts

In order to remove the markup from the  $\TeX$  source code you can use a script from Silvano Chiaradonna. You find the script in the directory:

```
<texpath>/scripts/changes/
```

The script removes all markups. You can select or deselect markup from removal using the interactive mode. Switch on the interactive mode with the script parameter `-i`.

## 3 Limitations and possible enhancements

The *changes*-package was carefully programmed and tested. Yet the possibility of errors in the package exists, you might encounter problem during use, or you might miss functionality. In that case, please go to

<http://changes.sourceforge.net/>

There you can report errors, ask for help in the forum, or give advice to other users. You can view the source code, and change it according to your needs. I will try to include your changes in the maintained package. If you are a registered *sourceforge* user you can be a co-author of the *changes*-package.

You can write me an email too, please send it to [ekleinod@edgesoft.de](mailto:ekleinod@edgesoft.de). In that case, please start your email subject with [changes].

Change markup of texts works well, it is possible to markup whole paragraphs. You can markup more than one paragraph at a time but occasionally this leads to errors. You cannot markup figures or tables.

You can try putting such text in an extra file and include in with `input`. This works sometimes, give it a try. Kudos to Charly Arenz for this tip.

There is a problem of typesetting footnotes in special environments, such as tables or tabblings. Since footnotes are the default markup of remarks, this would be a problem. You can solve this problem by defining another annotation of remarks.

There are several possibilities of enhancing the *changes*-package. I will describe but a few here, I will not implement them due to lack of time and/or skill. You can have a look at the more complete list of enhancements on the *sourceforge* page.

- selecting of acknowledged and rejected texts; deletion of the corresponding markup
- markup of more than one paragraph
- markup of figures and tables
- automatic markup based on diff information (with regard to the limitations, such as markup of paragraphs, figures etc.)
- translation of language dependent texts and the user documentation in other languages

## 4 User interface of the *changes*-package

This section describes the user interface of the *changes*-package, i.e. all options and commands of the package. Every option respectively new command is described. If you want to see the options and commands in action, please refer to the examples in

`<texpath>/doc/latex/changes/examples/`

The example files are named with the used option respectively command.

A preliminary remark regarding typesetting of replaced text: replaced text is always typeset as follows: `<new text><old text>`. Thus, there is no possibility to influence the output of replaced text directly, but via changing the output of added respectively deleted text.

### 4.1 Package Options

#### 4.1.1 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} ≅ \usepackage{changes}
```



### 4.1.2 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}
```

### 4.1.3 markup

The `markup` option chooses a predefined visual markup of changed text. The default markup is chosen if no explicit markup is given. The markup chosen with `markup` can be overwritten with the more special markup options `addedmarkup` and/or `deletedmarkup`.

The following values are allowed:

**default** colored markup of added text, striked out for deleted text (default markup)

**underlined** underlined for added text, striked out for deleted text

**bfit** bold added text, italic deleted text

**nocolor** no colored markup, underlined for added text, striked out for deleted text

*Call*

```
\usepackage[markup=markup]{changes}
```

*Examples*

```
\usepackage[markup=default]{changes} ≅ \usepackage{changes}
```

```
\usepackage[markup=underlined]{changes}
```

```
\usepackage[markup=bfit]{changes}
```

```
\usepackage[markup=nocolor]{changes}
```

### 4.1.4 addedmarkup, deletedmarkup

The `addedmarkup` option chooses a predefined visual markup of added text. The `deletedmarkup` option chooses a predefined visual markup of deleted text respectively. The default markup is chosen if no explicit markup is given. The options `addedmarkup` and `deletedmarkup` overwrite the markup chosen with `markup`.

The following values are allowed:

**none** no markup – example (default markup for added text)

**uline** underlined text – example

**uuline** double underlined text – example

**uwave** wavy underlined text – example

**dashuline** dashed underlined text – example

**dotuline** dotted underlined text – ~~example~~  
**sout** striked out text – ~~example~~ (default markup for deleted text)  
**xout** crossed out text – ~~example~~  
**bf** bold text – **example**  
**it** italic text – *example*  
**sl** slanted text – *example*  
**em** emphasized text – *example*

*Call*

```
\usepackage[addedmarkup=markup]{changes}
```

*Examples*

```
\usepackage[addedmarkup=none]{changes} ≅ \usepackage{changes}
\usepackage[addedmarkup=uline]{changes}
```

*Call*

```
\usepackage[deletedmarkup=markup]{changes}
```

*Examples*

```
\usepackage[deletedmarkup=sout]{changes} ≅ \usepackage{changes}
\usepackage[deletedmarkup=xout]{changes}
\usepackage[deletedmarkup=uwave]{changes}
```

#### 4.1.5 authormarkup

The `authormarkup` option chooses a predefined visual markup of the author's identification. The default markup is chosen if no explicit markup is given.

The following values are allowed:

**superscript** superscripted text –  $\text{text}^{\text{author}}$  (default markup)  
**subscript** subscripted text –  $\text{text}_{\text{author}}$   
**brackets** text in brackets –  $\text{text}(\text{author})$   
**footnote** text in footnote –  $\text{text}^1$   
**none** no author identification

*Call*

```
\usepackage[authormarkup=markup]{changes}
```

*Examples*

```
\usepackage[authormarkup=superscript]{changes} ≅ \usepackage{changes}
\usepackage[authormarkup=subscript]{changes}
\usepackage[authormarkup=brackets]{changes}
\usepackage[authormarkup=footnote]{changes}
\usepackage[authormarkup=none]{changes}
```

---

<sup>1</sup> author

### 4.1.6 authormarkupposition

The `authormarkupposition` option chooses the position of the author's identification. The default value is chosen if no explicit markup is given.

The following values are allowed:

**right** right of the text – `textexample` (default value)

**left** left of the text – `exampletext`

*Call*

```
\usepackage[authormarkupposition=<markup>]{changes}
```

*Examples*

```
\usepackage[authormarkupposition=right]{changes} ≅ \usepackage{changes}
```

```
\usepackage[authormarkupposition=left]{changes}
```

### 4.1.7 authormarkuptext

The `authormarkuptext` option chooses the text that is used for the author's identification. The default value is chosen if no explicit markup is given.

The following values are allowed:

**id** author's id – `textid` (default value)

**name** author's name – `textauthorname`

*Call*

```
\usepackage[authormarkuptext=<markup>]{changes}
```

*Examples*

```
\usepackage[authormarkuptext=id]{changes} ≅ \usepackage{changes}
```

```
\usepackage[authormarkuptext=name]{changes}
```

### 4.1.8 ulem

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

*Call*

```
\usepackage[ulem=<options>]{changes}
```

*Examples*

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

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

### 4.1.9 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.

*Call*

```
\usepackage[xcolor=<options>]{changes}
```

*Examples*

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

## 4.2 Change management

### 4.2.1 \added

\added

The command `\added` marks new text. The new text is the mandatory argument for the command, thus it is written in curly braces. The optional argument contains key-value-pairs for author-id and remark. The author-id has to be defined using `\definechangesauthor`. If the remark contains special characters or spaces, use curly brackets to enclose the remark.

*Call*

```
\added[id=<author's id>, remark=<remark>]{<new text>}
```

*Examples*

```
This is \added[id=EK]{new} text.
This is newEK text.
This is \added[id=EK, remark={has to be in it}]{new} text.
This is newEK(has to be in it) text.
This is \added[remark=anonymous]{new} text.
This is new(anonymous) text.
```

### 4.2.2 \deleted

\deleted

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

*Call*

```
\deleted[id=<author's id>, remark=<remark>]{<deleted text>}
```

*Examples*

```
This is \deleted[remark=obsolete]{bad} text.
This is bad(obsolete) text.
```

### 4.2.3 `\replaced`

`\replaced`

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

*Call*

```
\replaced[id=<author's id>, remark=<remark>]{<new text>}{<old text>}
```

*Examples*

```
This is \replaced[id=EK]{nice}{bad} text.
```

```
This is nicebadEK text.
```

### 4.2.4 `\listofchanges`

`\listofchanges`

The command `\listofchanges` outputs a list or summary 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 up-to-date list of changes.

The style argument is optional, by default the list of changes is printed. If you want to print a summary you have to use the option `style=summary`.

*Call*

```
\listofchanges[style=<list|summary>]
```

## 4.3 Author management

### 4.3.1 `\definechangesauthor`

`\definechangesauthor`

The command `\definechangesauthor` defines a new author for changes. You have to define a unique author's id, special characters or spaces are not allowed within the author's id. You may define a corresponding color and the author's name. If you do not define a color, black is used. The author's name is used in the list of changes and in the markup, if you set the corresponding option.

*Call*

```
\definechangesauthor[name={<author's name>}, color={<color>}]{<author's id>}
```

*Examples*

```
\definechangesauthor{EK}
```

```
\definechangesauthor[color=orange]{EK}
```

```
\definechangesauthor[name={Ekkart Kleinod}]{EK}
```

---

```
\definechangesauthor[name={Ekkart Kleinod}, color=orange]{EK}
```

## 4.4 Adaptation of the output

### 4.4.1 `\setaddedmarkup`

`\setaddedmarkup`

The command `\setaddedmarkup` defines the layout of added text. The default markup is colored text, or the markup set with the option `markup` respectively `addedmarkup`.

Values for definition: any  $\TeX$ -commands, added text can be used with “#1”.

*Call*

```
\setaddedmarkup{\langle definition \rangle}
```

*Examples*

```
\setaddedmarkup{\emph{#1}}
```

```
\setaddedmarkup{+++ : #1}
```

### 4.4.2 `\setdeletedmarkup`

`\setdeletedmarkup`

The command `\setdeletedmarkup` defines the layout of deleted text. The default markup is striked-out, or the markup set with the option `markup` respectively `deletedmarkup`.

Values for definition: any  $\TeX$ -commands, deleted text can be used with “#1”.

*Call*

```
\setdeletedmarkup{\langle definition \rangle}
```

*Examples*

```
\setdeletedmarkup{\emph{#1}}
```

```
\setdeletedmarkup{-- : #1}
```

### 4.4.3 `\setauthormarkup`

`\setauthormarkup`

The command `\setauthormarkup` defines the layout of the author’s markup in the text. The default markup is a superscripted author’s text.

Values for definition: any  $\TeX$ -commands, author’s text can be used with “#1”.

*Call*

```
\setauthormarkup{⟨definition⟩}
```

*Examples*

```
\setauthormarkup{(#1)}  
\setauthormarkup{(#1)~---~}  
\setauthormarkup{\marginpar{#1}}
```

#### 4.4.4 `\setauthormarkupposition`

```
\setauthormarkupposition
```

The command `\setauthormarkupposition` defines the position of the author’s markup relative to the changed text. The default position is right of the changed text.

Possible values: *left* == left of the changes; all other values: right

*Call*

```
\setauthormarkupposition{⟨position⟩}
```

*Examples*

```
\setauthormarkupposition{left}
```

#### 4.4.5 `\setauthormarkuptext`

```
\setauthormarkuptext
```

The command `\setauthormarkuptext` defines the text for the author’s markup. The default markup is the author’s id.

Possible values: *name* == author’s name; all other values: author’s id

*Call*

```
\setauthormarkuptext{⟨text⟩}
```

*Examples*

```
\setauthormarkuptext{name}
```

#### 4.4.6 `\setremarkmarkup`

```
\setremarkmarkup
```

The command `\setremarkmarkup` defines the layout of remarks in the text. The default markup typesets the remark in a footnote.

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

*Call*

```
\setremarkmarkup{⟨definition⟩}
```

*Examples*

```
\setremarkmarkup{(#2 -- #1)}
```

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

#### 4.4.7 `\setsoceextension`

`\setsoceextension`

The command `\setsoceextension` sets the extension of the auxiliary file for the summary of changes (soc-file<sup>2</sup>). The default extension is “soc”. In the example stated below, the soc-file for “foo.tex” would be named “foo.changes” instead of the default name “foo.soc”. new since

*Call*

```
\setsoceextension{⟨extension⟩}
```

*Examples*

```
\setsoceextension{changes}
```

### 4.5 Other new commands

#### 4.5.1 `\textsubscript`

`\textsubscript`

$\TeX$  provides the command `\textsuperscript`, but not its counterpart `\textsubscript`. If the command is not defined yet, it will be provided by the *changes*-package. If the command is defined yet, it will not be changed.

*Call*

```
\textsubscript{⟨text⟩}
```

*Examples*

```
This is a \textsubscript{subscript} text.
```

```
This is a subscript text.
```

### 4.6 Used packages

The *changes*-package uses already existing packages for its functions. You will find detailed description of the packages in their distributions.

The following packages are always required and have to be installed for the *changes*-package:

<sup>2</sup> “soc” stands for “summary of changes”.



**xifthen** provides an enhanced `\if`-command as well as a while-loop  
**xkeyval** provides options with key-value-pairs

The following packages are sometimes required and have to be installed if used by the corresponding option:

**pdfcolmk** loaded if colored text is used for markup (default markup); solves the problem of colored text and page breaks (with `pdflatex`)  
**ulem** loaded if text has to be striked or exed out (default markup)  
**xcolor** loaded if colored text is used for markup (default markup)

## 5 Authors

Several authors contributed to the *changes*-package. The authors are (in alphabetical order):

- Chiaradonna, Silvano
- Giovannini, Daniele
- Kleinod, Ekkart
- Wölfel, Philipp
- Wolter, Steve

## 6 Versions

### Version 2.0.4

Date: 2015/04/27

- fixed error when using an unknown language

### Version 2.0.3

Date: 2014/10/15

- fixed crash when used with the `amsart` class

### Version 2.0.2

Date: 2013/08/13

- no changes in code or behavior
- fixed problem of corrupt documentation PDFs in CTAN
- improved/bugfixed documentation

**Version 2.0.1**

Date: 2013/08/10

- no changes in code or behavior
- fixed upload problems with CTAN (wrong line endings)
- put all needed files in CTAN archive

**Version 2.0.0**

Date: 2013/06/30

- “real” list of changes, old summary now with optional parameter `style=summary`
- fixed problem with special characters in summary of changes
- renamed `\setlocextension` to `\setsocextension`
- new author markup `none`
- completed script description with `-i` parameter

**Version 1.0.0**

Date: 2012/04/25

- key-value-interface for change commands
- fixed bug (crash) with special characters in list of changes
- added space before author name in list of changes
- error message if an unknown author id is used

**Version 0.6.0**

Date: 2012/01/11

- Italian translations of captions by Daniele Giovannini
- redefined user interface for setting options and definitions of markup and authors
- restructuring and code improvement
- improved documentation including typical use case
- example files for all options and commands
- by default remarks are not colored anymore

**Version 0.5.4**

Date: 2011/04/25

- extraction of user documentation in separate file
- default language changed to English
- new script for removal of *changes* commands by Silvano Chiaradonna

**Version 0.5.3**

Date: 2010/11/22

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

### **Version 0.5.2**

Date: 2007/10/10

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

### **Version 0.5.1**

Date: 2007/08/27

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

### **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 strike out UTF-8-text
- new optional argument for author's name
- colored list of changes
- changed loc file format
- improved English documentation

### **Version 0.4**

Date: 2007/01/24

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

### **Version 0.3**

Date: 2007/01/22

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

### **Version 0.2**

Date: 2007/01/17

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

#### Bugfixes

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

#### Version 0.1

Date: 2007/01/16

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

## 7 Distribution, Copyright, License

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This work may be distributed and/or modified under the conditions of the  $\TeX$  Project Public License, either version 1.3 of this license or any later version. The latest version of this license is in <http://www.latex-project.org/lppl.txt> and version 1.3 or later is part of all distributions of  $\TeX$  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

```
source/latex/changes/changes.drv
source/latex/changes/changes.dtx
source/latex/changes/changes.ins
source/latex/changes/examples.dtx
source/latex/changes/README
source/latex/changes/userdoc/*.tex
scripts/changes/delcmdchanges.bash
```

and the derived files

```
doc/latex/changes/changes.english.pdf
doc/latex/changes/changes.english.withcode.pdf
doc/latex/changes/changes.ngerman.pdf
doc/latex/changes/examples/changes.example.*.tex
```

doc/latex/changes/examples/changes.example.\*.pdf  
tex/latex/changes/changes.sty