

The *changes*-package

Manual change markup — version 3.2.1

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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 *gitlab*, please see

<http://edgesoft.de/projects/latex/changes/>

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

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. Additionally, text can be highlighted and/or commented. The package allows free definition of additional authors and their associated color. It also allows you to change the markup of changes, authors, highlights or comments.

Here is a short example of change markup:

[EK 1] missing word

This is **new** text. In this sentence, I replace a ~~good~~^{EK}~~bad~~ word. And, to sum up the text changes, there is another ~~obsolete~~^{EK} word to delete. Furthermore, text can be **highlighted**^{EK} or just commented.

[EK 2] For the fun of it.

Parallel to this manual is a folder “examples” which contains an extensive collection of example files, both \LaTeX and PDF files. Please refer to these examples for inspiration and first problem solving.

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. Additionally, text can be highlighted or commented. In order to use the package, you should follow these steps:

1. use *changes*-package
2. define authors
3. markup text changes
4. highlight and comment text
5. typeset the document with \LaTeX
6. output list of changes
7. 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 4.6.

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[name=<name>, color=<color>]{<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 4.5.

Markup text changes

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

for added text:

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

for deleted text:

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

for replaced text:

```
\replaced[id=<id>, comment=<comment>]{<new text>}{<old text>}
```

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

For detailed information please refer to Section 4.2.

Highlight and comment text

Maybe you want to highlight or comment some text?

highlight text:

```
\highlight[id=<id>, comment=<comment>]{<text>}
```

comment text:

```
\comment[id=<id>]{<comment>}
```

Stating the author's id and/or a comment for highlights is optional.

For detailed information please refer to Section 4.3.

Typeset the document with \LaTeX

After marking your changes in the text you are able to display them in the generated document by processing it as usual with \LaTeX . 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=<style>, title=<title>, show=<type>]
```

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` or `style=compactsummary`. Show only specific changes by using the `show` option.

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.

For detailed information please refer to Section 4.4.

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}
```

In order to remove the markup from the \TeX files, you have to remove the commands by hand or use the script by Yvon Cui. You find the script `pyMergeChanges.py` in the directory:

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

The script removes all markups either keeping or rejecting the change. You can select or deselect markup from removal using the interactive mode by starting the script without options.

For detailed information please refer to Section 5.

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 find information on how to report errors or improvements, give advice to other users, or participate in the development of the package.

You can find a list of known problems and possible solutions in Section 6. Please refer to the section first if your problem is known and a solution exists.

You can write me an email too, please send it to 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 cannot markup:

- figures
- tables
- headings
- some commands
- several paragraphs (sometimes)

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

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 and 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.

4.1 Package Options

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

The package options control the behavior of the overall package, i. e. all markup commands.

The following options are defined:

4.1.1	draft	9
4.1.2	final	9
4.1.3	markup	9
4.1.4	addedmarkup	10
4.1.5	deletedmarkup	10
4.1.6	highlightmarkup	11
4.1.7	commentmarkup	11
4.1.8	authormarkup	12
4.1.9	authormarkupposition	13
4.1.10	authormarkuptext	13
4.1.11	todonotes	13
4.1.12	truncate	14
4.1.13	ulem	14
4.1.14	xcolor	14

4.1.1 draft

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

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`.

4.1.2 final

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

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`.

4.1.3 markup

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

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*, *deletedmarkup*, *commentmarkup*, or *highlightmarkup*.

The following values for *markup* are defined:

default	default markup for added and deleted text, comments and highlighted text (default markup)
underlined	underlined for added text, wavy underlined for highlighted text, default for deleted text, and comments
bfit	bold added text, italic deleted text, default for comments and highlighted text
nocolor	no colored markup, underlined for added text, wavy underlined for highlighted text, default for deleted text and comments

Examples

```
\usepackage[markup=default]{changes} \equiv \usepackage{changes}
\usepackage[markup=underlined]{changes}
\usepackage[markup=bfit]{changes}
\usepackage[markup=nocolor]{changes}
```

When changing from color markup to markup without color and vice versa, some errors occur if an auxiliary file exists. Please ignore the errors, they vanish in the second run.

4.1.4 addedmarkup

```
\usepackage[addedmarkup=<addedmarkup>]{changes}
```

The `addedmarkup` option chooses a predefined visual markup of added text. The default markup is chosen if no explicit markup is given. The option `addedmarkup` overwrites the markup chosen with `markup`.

The following values for *addedmarkup* are defined:

<code>colored</code>	no text markup, just coloring – example (default)
<code>uline</code>	underlined text – <u>example</u>
<code>uuline</code>	double underlined text – <u><u>example</u></u>
<code>uwave</code>	wavy underlined text – <u>example</u>
<code>dashuline</code>	dashed underlined text – <u>example</u>
<code>dotuline</code>	dotted underlined text – <u>example</u>
<code>bf</code>	bold text – example
<code>it</code>	italic text – <i>example</i>
<code>sl</code>	slanted text – <i>example</i>
<code>em</code>	emphasized text – <i>example</i>

The output of replaced text is a combination of added and deleted text, thus any change in their layout influences the layout of replaced text.

Examples

```
\usepackage[addedmarkup=colored]{changes} ≡ \usepackage{changes}
\usepackage[addedmarkup=uline]{changes}
\usepackage[addedmarkup=bf]{changes}
```

4.1.5 deletedmarkup

```
\usepackage[deletedmarkup=<deletedmarkup>]{changes}
```

The `deletedmarkup` option chooses a predefined visual markup of deleted text. The default markup is chosen if no explicit markup is given. The option `deletedmarkup` overwrites the markup chosen with `markup`.

The following values for *deletedmarkup* are defined:

<code>sout</code>	striked out text – example (default)
<code>xout</code>	crossed out text – example
<code>colored</code>	no text markup, just coloring – example
<code>uline</code>	underlined text – <u>example</u>
<code>uuline</code>	double underlined text – <u><u>example</u></u>
<code>uwave</code>	wavy underlined text – <u>example</u>

<code>dashuline</code>	dashed underlined text – <u>example</u>
<code>dotuline</code>	dotted underlined text – <u>example</u>
<code>bf</code>	bold text – example
<code>it</code>	italic text – <i>example</i>
<code>sl</code>	slanted text – <i>example</i>
<code>em</code>	emphasized text – <i>example</i>

The output of replaced text is a combination of added and deleted text, thus any change in their layout influences the layout of replaced text.

Examples

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

4.1.6 highlightmarkup

```
\usepackage[highlightmarkup=<highlightmarkup>]{changes}
```

The `highlightmarkup` option chooses a predefined visual markup for highlighted text. The default markup is chosen if no explicit markup is given. The option `highlightmarkup` overwrites the markup chosen with `markup`.

The following values for *highlightmarkup* are defined:

<code>background</code>	markup by background color – example (default)
<code>uuline</code>	double underlined text – <u>example</u>
<code>uwave</code>	wavy underlined text – <u>example</u>

Examples

```
\usepackage[highlightmarkup=background]{changes} ≡ \usepackage{
  changes}
\usepackage[highlightmarkup=uuline]{changes}
```

4.1.7 commentmarkup

```
\usepackage[commentmarkup=<commentmarkup>]{changes}
```

The `commentmarkup` option chooses a predefined visual markup for comments. The default markup is chosen if no explicit markup is given. The option `commentmarkup` overwrites the markup chosen with `markup`.

The following values for *commentmarkup* are defined:

example
comment

example
comment

<code>todo</code>	comment as todo note, which is not added to list of todos (default)
<code>margin</code>	comment in margin
<code>footnote</code>	comment as footnote ¹
<code>uwave</code>	wavy underlined text – <u>example comment</u>

Examples

```
\usepackage[commentmarkup=todo]{changes} ≡ \usepackage{changes}
\usepackage[commentmarkup=footnote]{changes}
\usepackage[commentmarkup=uwave]{changes}
```

4.1.8 authormarkup

```
\usepackage[authormarkup=<authormarkup>]{changes}
```

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 for *authormarkup* are defined:

<code>superscript</code>	superscripted text – text ^{author} (default)
<code>subscript</code>	subscripted text – text _{author}
<code>brackets</code>	text in brackets – text(author)
<code>footnote</code>	text in footnote – text ²
<code>none</code>	no author identification

Examples

```
\usepackage[authormarkup=superscript]{changes} ≡ \usepackage{changes}
\usepackage[authormarkup=brackets]{changes}
\usepackage[authormarkup=none]{changes}
```

¹ example comment

² author

4.1.9 authormarkupposition

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

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 for *authormarkupposition* are defined:

<code>right</code>	right of the text – $\text{text}^{\text{author}}$ (default)
<code>left</code>	left of the text – $\text{author}^{\text{text}}$

Examples

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

4.1.10 authormarkuptext

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

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 for *authormarkuptext* are defined:

<code>id</code>	author's id – text^{id} (default)
<code>name</code>	author's name – $\text{text}^{\text{authorname}}$

Examples

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

4.1.11 todonotes

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

Options for the *todonotes* package can be specified as parameters of the `todonotes`-option. Several options or options with special characters have to be put in curly brackets.

Examples

```
\usepackage[todonotes={textsize=tiny}]{changes}
```

4.1.12 truncate

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

Options for the *truncate* package can be specified as parameters of the *truncate*-option. Several options or options with special characters have to be put in curly brackets.

Examples

```
\usepackage[truncate=hyphenate]{changes}
```

4.1.13 ulem

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

Options for the *ulem* package can be specified as parameters of the *ulem*-option. Several options or options with special characters have to be put in curly brackets.

Examples

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

4.1.14 xcolor

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

Options for the *xcolor* package can be specified as parameters of the *xcolor*-option. Several options or options with special characters have to be put in curly brackets.

Examples

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

4.2 Change management

4.2.1	\added	15
4.2.2	\deleted	15
4.2.3	\replaced	16

4.2.1 \added

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

The command `\added` marks newly added text. The new text is given in curly braces.

The optional argument contains key-value-pairs for author-id and comment. The author-id has to be defined using `\definechangesauthor`. If the comment contains special characters or spaces, use curly brackets to enclose the comment.

If a comment is given, the direct author markup at the changes text is omitted, because the author is printed in the comment.

Examples

```
This is \added{new} text.  
This is \added[id=EK]{new} text too.  
This is more \added[id=EK, comment={has to be in it}]{new} text.  
This is the last \added[comment=anonymous]{new} text.
```

Result

[EK 3] has
to be in it

This is **new** text. This is **new**^{EK} text too. This is more **new** text. This is the last
new text.

[1] anony-
mous

4.2.2 \deleted

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

The command `\deleted` marks deleted text. The deleted text is given in curly braces.

For the optional arguments see `\added` (Section 4.2.1).

Examples

```
This is \deleted{old} text.  
This is \deleted[id=EK]{old} text too.  
This is more \deleted[id=EK, comment={too old}]{old} text.  
This is the last \deleted[comment=away]{old} text.
```

Result

[EK 4] too
old

This is **old** text. This is **old**^{EK} text too. This is more **old** text. This is the last
old text.

[2] away

4.2.3 \replaced

`\replaced[id=<id>, comment=<comment>]{<new text>}{<old text>}`

The command `\replaced` marks replaced text. The new and the replaced text are given in this order in curly braces.

For the optional arguments see `\added` (Section 4.2.1).

The output of replaced text is a combination of added and deleted text, thus any change in their layout influences the layout of replaced text.

Examples

```
This is \replaced{new}{replaced} text.
This is \replaced[id=EK]{new}{replaced} text too.
This is more \replaced[id=EK, comment={better}]{new}{replaced} text.
This is the last \replaced[comment=improved]{new}{replaced} text.
```

Result

This is newreplaced text. This is newreplaced^{EK} text too. This is more newreplaced text. This is the last newreplaced text.

[EK 5] better

[3] improved

4.3 Highlighting and Comments

4.3.1	<code>\highlight</code>	16
4.3.2	<code>\comment</code>	17

4.3.1 \highlight

`\highlight[id=<id>, comment=<comment>]{<text>}`

The command `\highlight` highlights text. The highlighted text is given in curly braces.

For the optional arguments see `\added` (Section 4.2.1).

Examples

```
This is \highlight{highlighted} text.
This is \highlight[id=EK]{highlighted} text too.
This is more \highlight[id=EK, comment={Good one.}]{highlighted} text
.
This is the last \highlight[comment=remember]{highlighted} text.
```

Result

This is highlighted text. This is highlighted^{EK} text too. This is more highlighted text. This is the last highlighted text.

[EK 6] Good one.

[4] remember

4.3.2 \comment

```
\comment[id=<id>]{<comment>}
```

The command `\comment` adds a comment to the document. The comment is given in curly braces.

The command has only one optional argument: a key-value-pair for the author-id. The author-id has to be defined using `\definechangesauthor`.

The comments are numbered automatically, the number is printed in the comment.

Examples

```
This is \comment{Sure}commented text.  
This is \comment[id=EK]{Correct.}commented text too.
```

Result

This is commented text. This is commented text too.

[5] Sure

[EK 7] Correct.

4.4 Overview of changes**4.4.1 \listofchanges**

```
\listofchanges[style=<style>, title=<title>, show=<type>]
```

The command `\listofchanges` outputs a list or summary of changes. The first \TeX -run creates an auxiliary file, the second run uses the data of this file. Therefore you need two \TeX -runs for an up-to-date list of changes.

There are three optional arguments:

<code>style</code>	list style
<code>title</code>	individual title
<code>show</code>	markup types

style The style argument defines the layout of the list of changes. Three styles are defined:

<code>list</code>	prints the list of changes like a list of figures (default)
<code>summary</code>	prints the number of changes grouped by author
<code>compactsummary</code>	same as <code>summary</code> but entries with count 0 are omitted

title The title argument is used to change the title for the list. If you want to use special characters or spaces in the title, enclose it in curly braces.

show The show argument defines which types of change markup are shown in the list of changes. You can combine the values using the `|` character. For example if you want to show all additions and deletions, use `show=added|deleted`.

The following values are defined:

<code>all</code>	show all types (default)
<code>added</code>	show only additions
<code>deleted</code>	show only deletions
<code>replaced</code>	show only replacements
<code>highlight</code>	show only highlights
<code>comment</code>	show only comments

Examples

```
\listofchanges
\listofchanges[style=list] ≅ \listofchanges
\listofchanges[style=summary, title={My Summary}]
\listofchanges[title={List of comments}, show=comment]}
\listofchanges[style=compactsummary, show=added|deleted|replaced,
  title={Text changes}]}
```

4.5 Author management

4.5.1 `\definechangesauthor`

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

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, blue is used.

The author's name is used in the list of changes and in the markup if you set the corresponding option.

The package predefines one anonymous author without id.

Examples

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

4.6 Adaptation of the output

4.6.1	<code>\setaddedmarkup</code>	20
4.6.2	<code>\setdeletedmarkup</code>	20
4.6.3	<code>\sethighlightmarkup</code>	21
4.6.4	<code>\setcommentmarkup</code>	21
4.6.5	<code>\setauthormarkup</code>	22
4.6.6	<code>\setauthormarkupposition</code>	22
4.6.7	<code>\setauthormarkuptext</code>	22
4.6.8	<code>\settruncatewidth</code>	23
4.6.9	<code>\setsummarywidth</code>	23
4.6.10	<code>\setsummarytewidth</code>	23
4.6.11	<code>\setsoextension</code>	24

4.6.1 `\setaddedmarkup`

`\setaddedmarkup{<definition>}`

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”

The output of replaced text is a combination of added and deleted text, thus any change in their layout influences the layout of replaced text.

Examples

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

4.6.2 `\setdeletedmarkup`

`\setdeletedmarkup{<definition>}`

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”

The output of replaced text is a combination of added and deleted text, thus any change in their layout influences the layout of replaced text.

Examples

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

4.6.3 `\sethighlightmarkup`

`\sethighlightmarkup{<definition>}`

The command `\sethighlightmarkup` defines the layout of highlighted text. The default markup is via a background color, or the markup set with the option `markup` respectively `highlightmarkup`.

Values for definition:

- any \TeX -commands
- highlighted text can be used with “#1”
- *ifthenelse* boolean test for colored text “`\isColored`”
- author’s color can be used with color “`authorcolor`”

Examples

```
\sethighlightmarkup{\emph{#1}}
\sethighlightmarkup{\ifthenelse{\isColored}{\color{authorcolor}
}}{\#\#: #1}
```

4.6.4 `\setcommentmarkup`

`\setcommentmarkup{<definition>}`

The command `\setcommentmarkup` defines the layout of comments. The default markup is a margin note, or the markup set with the option `markup` respectively `commentmarkup`.

Values for definition:

- any \TeX -commands
- comment can be used with “#1”
- author’s id can be used with “#2”
- author output (id or name) can be used with “#3”
- *ifthenelse* boolean test for anonymous author “`\isAnonymous`”
- *ifthenelse* boolean test for colored text “`\isColored`”
- author’s color can be used with color “`authorcolor`”
- comment count of the autor can be used with counter “`authorcommentcount`”

Examples

```
\setcommentmarkup{-- #1 --}
\setcommentmarkup{\ifthenelse{\isColored}{\color{authorcolor}}{\#1}}
\setcommentmarkup{\ifthenelse{\isAnonymous{#2}}{\textbf{#3: }}{#1}}
\setcommentmarkup{[\arabic{authorcommentcount}] #1}
```

4.6.5 `\setauthormarkup`

`\setauthormarkup{<definition>}`

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 output (id or name) can be used with “#1”

Examples

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

4.6.6 `\setauthormarkupposition`

`\setauthormarkupposition{<authormarkupposition>}`

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.

The following values for *authormarkupposition* are defined:

right	right of the text – text ^{author} (default)
left	left of the text – ^{author} text

Examples

```
\setauthormarkupposition{right}  
\setauthormarkupposition{left}
```

4.6.7 `\setauthormarkuptext`

`\setauthormarkuptext{<authormarkuptext>}`

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

The following values for *authormarkuptext* are defined:

id	author's id – text ^{id} (default)
name	author's name – text ^{authorname}

Examples

```
\setauthormarkuptext{id}  
\setauthormarkuptext{name}
```

4.6.8 \settruncatewidth

```
\settruncatewidth{<width>}
```

The command `\settruncatewidth` sets the width of the truncation in the list of changes to the given width. The default width is `0.6\textwidth`.

Examples

```
\settruncatewidth{5cm}  
\settruncatewidth{.3\textwidth}
```

4.6.9 \setsummarywidth

```
\setsummarywidth{<width>}
```

The command `\setsummarywidth` sets the width of the list of changes in summary style to the given width. The default width is `0.3\textwidth`.

Examples

```
\setsummarywidth{3cm}  
\setsummarywidth{.5\textwidth}
```

4.6.10 \setsummarytewidth

```
\setsummarytewidth{<text>}
```

The command `\setsummarytewidth` sets the width of the list of changes in summary style to the width of the given text.

Examples

```
\setsummarytewidth{Highlighted \qqquad}  
\setsummarytewidth{The longest text you can imagine for the summary.}
```


4.6.11 `\setsocextension`

`\setsocextension{<extension>}`

The command `\setsocextension` sets the extension of the auxiliary file for the summary of changes (soc-file³). The default extension is “soc”.

In the example, the soc-file for “foo.tex” would be named “foo.changes” resp. “foo.chg” instead of the default name “foo.soc”.

Examples

```
\setsocextension{changes}  
\setsocextension{chg}
```

Do not use a \TeX standard file extension, such as “toc” or “loc”, as this would collide with the normal \TeX run.

4.7 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:

xifthen	provides an enhanced <code>\if</code> -command as well as a while-loop
xkeyval	provides options with key-value-pairs
xstring	improves string operations

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)
todonotes	loaded if comments are layouted as todo notes (default markup)
ulem	loaded if text has to be striked or exed out (default markup)
xcolor	loaded if colored text is used for markup (default markup)

³ “soc” stands for “summary of changes”.

5 Remove markup from file

In order to remove the markup from the \LaTeX files, you have to remove the commands by hand or use the script by Yvon Cui. You find the script in the directory:

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

The script removes all markups either keeping or rejecting the change. You can select or deselect markup from removal using the interactive mode by starting the script without options.

The script requires *python3*.

Use the script as follows:

```
python pyMergeChanges.py [-arh] <Input File> <Output File>
```

Options:

```
-a: accept all added, deleted and replaced  
-r: reject all added, deleted and replaced  
-h: remove all highlights
```

If no option is given, runs interactively.

Run the script with no options and files for a short help text:

```
python pyMergeChanges.py
```

Known issues:

- removes only markup that is used in one line, not markup that spans multiple lines

6 Known problems and solutions

This section contains known problems and their solutions as far as I know some. If your problem is not listed here, please see the issue tracker on gitlab if it contains your problem (a search exists):

<https://gitlab.com/ekleinod/changes/issues>

If your problem is not listed, please open a new issue for your problem. Describe your problem as specific as possible, if possible, include a small example file with the problematic behavior.

6.1 Special content

Change markup of texts works well, it is possible to markup whole paragraphs. You cannot markup:

- figures
- tables
- headings
- some commands
- several paragraphs (sometimes)

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.

6.2 Footnotes and margin notes

There is a problem of typesetting footnotes or margin notes in special environments, such as tables or tabblings. Avoid such markup when using these environments.

6.3 The *ulem* package

I am using the *ulem* package for striking out text as default. This leads to problems with some commands or environments, e.g.

- in math mode
- when using the *siunitx* package
- when using the `\citet` or `\citep` command

In that case there are only a few good solutions, the best way is to avoid using the *ulem* package by defining your own deletion markup. See

- Section 4.1.5
- Section 4.6.2

7 Authors

Several authors contributed to the *changes*-package. Many bugs and problems were solved or their solution inspired via `de.comp.text.tex`. Thanks.

The authors are (in alphabetical order):

- Chiaradonna, Silvano
- Cui, Yvon
- Fischer, Ulrike
- Giovannini, Daniele
- Kleinod, Ekkart
- Mittelbach, Frank
- Voss, Herbert
- Wölfel, Philipp
- Wolter, Steve

8 Versions

For a list of versions and the changes within these version, please refer to

<https://gitlab.com/ekleinod/changes/blob/master/changelog.md>

Here you too find the implemented but not released changes for the new version.

If you are interested in planned new features, please see

<https://gitlab.com/ekleinod/changes/milestones>

9 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/pyMergeChanges.py
```

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
```