The *changes*-package

Manual change markup — version 3.1.2

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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:

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

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

for deleted text:
\[ \text{\textbackslash deleted[id=<id>, comment=<comment>]{<old text>}} \]

for replaced text:
\[ \text{\textbackslash replaced[id=<id>, comment=<comment>]{<new text>}{<old text>}} \]

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

comment text:
\[ \text{\textbackslash comment[id=<id>]{<comment>}} \]

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 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
- problems with nested commands
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 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 in with input. This works sometimes, give it a try. Kudos to Charly Arenz for this tip.

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

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 complete list of enhancements in the issue tracker of gitlab.

- 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 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:

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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:

- *colored*  
  - no text markup, just coloring – example (default)
- *uline*  
  - underlined text – example
- *uuline*  
  - double underlined text – example
- *uwave*  
  - wavy underlined text – example
- *dashuline*  
  - dashed underlined text – example
- *dotuline*  
  - dotted underlined text – example
- *bf*  
  - bold text – example
- *it*  
  - italic text – example
- *sl*  
  - slanted text – example
- *em*  
  - emphasized text – example

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} \equiv \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:

- *sout*  
  - striked out text – example (default)
- *xout*  
  - crossed out text – example
- *colored*  
  - no text markup, just coloring – example
- *uline*  
  - underlined text – example
- *uuline*  
  - double underlined text – example
- *uwave*  
  - wavy underlined text – example
dashline dashed underlined text – example
dotuline dotted underlined text – example
bf bold text – example
it italic text – example
sl slanted text – example
em emphasized text – example

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{changes} \usepackage{changes} \usepackage{changes} \usepackage{changes} \usepackage{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:

background markup by background color – example (default)
uuline double underlined text – example
uwave wavy underlined text – example

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:

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

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:
superscript superscripted text – text\textsuperscript{author} (default)
subscript subscripted text – text_{author}
brackets text in brackets – text(author)
footnote text in footnote – text\textsuperscript{2}
one no author identification

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

\footnote{example comment}
\footnote{author}
4.1.9 authormarkupposition

\usepackage\{authormarkupposition=\text{position}\}\{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:

- **right**: right of the text – textauthor (default)
- **left**: left of the text – author text

**Examples**

\usepackage\{authormarkupposition=right\}\{changes\} = \usepackage{changes}
\usepackage\{authormarkupposition=left\}\{changes\}

4.1.10 authormarkuptext

\usepackage\{authormarkuptext=\text{text}\}\{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:

- **id**: author's id – textid (default)
- **name**: author's name – textauthorname

**Examples**

\usepackage\{authormarkuptext=id\}\{changes\} = \usepackage{changes}
\usepackage\{authormarkuptext=name\}\{changes\}

4.1.11 todonotes

\usepackage\{todonotes=\text{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

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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

This is new text. This is new\textsuperscript{EK} text too. This is more new text. This is the last new text.

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

This is old text. This is old\textsuperscript{EK} text too. This is more old text. This is the last old text.
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 new replaced text. This is new replaced EK text too. This is more new replaced text. This is the last new replaced text.

4.3 Highlighting and Comments

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.
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.

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 \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.

There are three optional arguments:

- `style` list style
- `title` individual title
- `show` markup types
style The style argument defines the layout of the list of changes. Three styles are defined:

- list: prints the list of changes like a list of figures (default)
- summary: prints the number of changes grouped by author
- compactsummary: same as summary 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:

- all: show all types (default)
- added: show only additions
- deleted: show only deletions
- replaced: show only replacements
- highlight: show only highlights
- comment: 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

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4.6.8 \settruncatewidth .......................................... 23
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4.6.10 \setsummarytowidth ...................................... 23
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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 \LA-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 \LA-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 \LaTeX-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 \LaTeX-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}{\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 \LaTeX-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\textsuperscript{author} (default)
- left: left of the text – author\textsuperscript{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\textsuperscript{id} (default)
- name: author’s name – text\textsuperscript{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 \setsummarytowidth
\setsummarytowidth{<text>}

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

Examples
\setsummarytowidth{Highlighted \quad}
\setsummarytowidth{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-file\textsuperscript{3}). 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

\begin{verbatim}
\setsocextension{changes}
\setsocextension{chg}
\end{verbatim}

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 it’s 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:

\begin{itemize}
\item xifthen provides an enhanced \texttt{if}-command as well as a \texttt{while}-loop
\item xkeyval provides options with key-value-pairs
\item xstring improves string operations
\end{itemize}

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

\begin{itemize}
\item pdfcolmk loaded if colored text is used for markup (default markup); solves the problem of colored text and page breaks (with pdflatex)
\item todonotes loaded if comments are layouted as todo notes (default markup)
\item ulem loaded if text has to be striked or exed out (default markup)
\item xcolor loaded if colored text is used for markup (default markup)
\end{itemize}

\textsuperscript{3} “soc” stands for “summary of changes”.
5 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
6 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
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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