

# The `changelog` Package

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## Abstract

Changelogs are important. Unfortunately, there are few facilities for typesetting changelogs in L<sup>A</sup>T<sub>E</sub>X. `changelog` defines a `changelog` environment to make changelogs simple and intuitive.

For rationale, read [keepachangelog.com](http://keepachangelog.com).

**NOTE** Browse the sources, contribute, or complain at  
[github.com/9999years/latex-changelog](https://github.com/9999years/latex-changelog)

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# 1 I don't want to read this documentation

Perfectly understandable. [changelog](#) comes in a “simple” flavor:

## Changelog

**1.0.0** Rebecca Turner (2018-12-28)

- Cool features
- Bug fixes

**0.1.0** Rebecca Turner (2018-10-25) — Initial beta

```
\begin{changelog}[author=Rebecca
Turner, simple,
sectioncmd=\section*]
\begin{version}[v=1.0.0,
date=2018-12-28]
\item Cool features
\item Bug fixes
\end{version}
\shortversion{v=0.1.0,
date=2018-10-25,
changes=Initial beta}
\end{changelog}
```

And a more organized variant based on [keepachangelog.com](#):

## Changelog

**1.0.0** Rebecca Turner (2018-12-28)

### Added

- Cool features

### Fixed

- Bug fixes

**0.1.0** Rebecca Turner (2018-10-25) — Initial beta

```
\begin{changelog}[author=Rebecca
Turner, sectioncmd=\section*]
\begin{version}[v=1.0.0,
date=2018-12-28]
\added
\item Cool features
\fixed
\item Bug fixes
\end{version}
\shortversion{v=0.1.0,
date=2018-10-25,
changes=Initial beta}
\end{changelog}
```

# 2 Intro

## 2.1 Why?

Read [Olivier Lacan](#)'s lovely site [keepachangelog.com](#). To excerpt:

### 2.1.1 What is a changelog?

A changelog is a file which contains a curated, chronologically ordered list of notable changes for each version of a project.

### 2.1.2 Why keep a changelog?

To make it easier for users and contributors to see precisely what notable changes have been made between each release (or version) of the project.

### 2.1.3 Who needs a changelog?

People do. Whether consumers or developers, the end users of software are human beings who care about what's in the software. When the software changes, people want to know why and how.

## 2.2 The competition

It's always good to know the competition. Unfortunately, there isn't much here. Know of another package with similar functionality? Drop me a line or open a pull request!

`vhistory` provides a decent-looking changelog. However, it's designed for short changes and provides a less-than-elegant interface. Additionally, it's based on the `ltxtable` package, meaning it makes restrictions on the contents of version information and writes the table to a file.

`holtxdoc` has a decent changelog feature (via Oberdiek's History and Version environments), but `holtxdoc` "contains some private macros and setup for my needs. Thus do not use it." In addition, Oberdiek's changelogs don't support multiple authors.

`gitlog` is an interesting idea, but `gitlog` "is a proof-of-concept release to allow users an early evaluation..."

Also, friends don't let friends dump git logs into changelogs.

## 3 The changelog environment

```
\begin{changelog}[\langle options \rangle]... \end{changelog}
```

Wraps description while providing the `version` environment and the `\shortversion` command. In addition to the options shown below, `\langle options \rangle` may contain any of the options for `version` as a form of "partial application"; this may be useful if, for example, most of your versions have the same author.

`section=\{true|false\}` true

Insert a `\section` before the changelog?

`sectioncmd=\{command\}` \section

Which sectioning command to use?

`title=\{txt\}` Changelog

What to title the changelog section?

`label=\{label\}` sec:changelog

What to `\label` the section?

```
\begin{version}[\langle options \rangle]... \end{version}
```

Gives a single version; wraps `itemize`.

If the `date` option is absent, the date isn't printed.

If the `v/version` option is absent, the date is used in its place.

If both `version` and `date` are absent, the version is shown as `Unreleased` and `\today` is used for the date. `\today` isn't ideal (which is to say, not ISO 8601 compliant) but it's well-known and easy to redefine.<sup>1</sup>

`(options)` may include:

**version**=*<version string>*

The version string for this version

**v**=*<version string>*

An alias for `version`

**author**=*<author(s)>*

The author(s) of this version

**date**=*<date string>*

The date of this version's release

**yanked**=*<true|false>*

false

Indicates that the release was revoked due to a "serious bug or security issue"; prints a visible notice next to the version number

**simple**=*<true|false>*

false

Indicates this version isn't split up into `\added`, `\changed`, etc. categories; if this option is given, a `version` environment acts like a plain `itemize`

**short**=*<true|false>*

false

Renders a short version, like `\shortversion`'s `changes` option; useful if you need to put verbatim material in the changes which would otherwise cause an error due to being used in an argument.

`\shortversion{<options>}`

A short, one-line version. In addition to `version`'s options, the following options are available for `\shortversion`:

**changes**=*<change text>*

The changes to display for this version

### 3.1 Helper commands

The `changelog` package defines several "helper commands." These commands introduce a *set* of changes within the version. There must be at least one `\item` between one of these commands and the end of the `version` environment.

Note that these commands are *only* available when not using the `simple` option!

`\added`

Introduces a list of `\items` that represent added features

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<sup>1</sup>Try the `datetime2` package or [any of the other solutions here](#).

```
\changed
```

Introduces a list of \items that represent changed features

```
\deprecated
```

Introduces a list of \items that represent deprecated features

```
\removed
```

Introduces a list of \items that represent features which have been removed

```
\fixed
```

Introduces a list of \items that represent bug fixes

```
\security
```

Introduces a list of \items that represent security-fixes and closed security holes

## 3.2 Customization

The `changelog` environment wraps `changelogdescription` (which is defined by default to be just the `description` environment), and the `version` environment wraps `changelogitemize`. One could customize these in depth with `enumitem`, as in:

```
\usepackage{enumitem}
\renewenvironment{changelogitemize}
  {\begin{itemize}[label=---]}
  {\end{itemize}}
```

```
\changelogyanked
```

Prints the “revoked release” notice: **YANKED**. See: [yanked releases on keepachangelog.com](#).

## 4 Translations

Want to use `changelog` in a non-English document? Great! Thanks to a contribution by Holger Schieferdecker (see section 5 below), `changelog` comes with translations for English, German, and support for adding new translations. To use built-in translations, simply load `babel` with the desired language:

**1.0.0** Holger Schieferdecker  
**Hinzugefügt**  
• Features!

```
% In the preamble:  

% \usepackage[german]{babel}  

  

\begin{changelog}[section=false,  

    author=Holger Schieferdecker]  

\begin{version}[v=1.0.0]  

    \added  

        \item Features!  

\end{version}  

\end{changelog}
```

## 4.1 Creating new translations

`changelog` uses the `translations` package to provide translations, and a complete translation looks like this:

```
\documentclass{article}
\usepackage[english]{babel}
\usepackage{translations}
\DeclareTranslation{English}{changelog-Added}{Added}
\DeclareTranslation{English}{changelog-Changed}{Changed}
\DeclareTranslation{English}{changelog-Deprecated}{Deprecated}
\DeclareTranslation{English}{changelog-Removed}{Removed}
\DeclareTranslation{English}{changelog-Fixed}{Fixed}
\DeclareTranslation{English}{changelog-Security}{Security}
\DeclareTranslation{English}{changelog-Miscellaneous}{Miscellaneous}
\DeclareTranslation{English}{changelog-Unreleased}{Unreleased}
\DeclareTranslation{English}{changelog-Yanked}{YANKED}
\begin{document}
% ...
\end{document}
```

Refer to the [translations package documentation](#) and the [babel package documentation](#) for more information.

If you create a translation, please [send me an email](#) and I'll incorporate the translation into `changelog`'s next release!

## 5 Contributors

**Rebecca Turner** Original implementation.

**Holger Schieferdecker** Internationalization support and German translations.

## 6 Changelog

This is this package's actual changelog — not an example!

**2.1.0** Holger Schieferdecker (2019-06-29)

### Added

- Internationalization support.

- German translations.

**2.0.0** Rebecca Turner (2019-04-15)

#### **Added**

- Better error handling; more informative messages for empty `version` or `changelog` environments.
- `short` option in `versions`.

#### **Removed**

- Removed `color` package option.

#### **Fixed**

- Added dependencies for `xparse` and `xkeyval`, which had erroneously been excluded from the package.

**1.0.0** Rebecca Turner (2018-12-28)

#### **Added**

- The “simple” option for changelogs which aren’t split up into sections of added, changed, removed, etc. features

#### **Changed**

- Instead of commands like `\added` introducing an item, they introduce a list of items; this is what [keepachangelog.com](#) actually intended; previous implementations were incorrect to display an “Added” (or whatever) marker next to each item.

**0.2.1** Rebecca Turner (2018-10-26) — Documented `yanked` option

**0.2.0** Rebecca Turner (2018-10-26) — First stable release

**0.1.0** Rebecca Turner (2018-10-25) — Initial beta