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# **Yaclog**

***Release 1.0.3***

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Yaclog is a python library and command line tool to make it easier to keep track of changes to your projects. It includes commands for appending new changes to a markdown changelog file, as well as releasing new versions for deployment via git tags.



## 1.1 Getting Started

### 1.1.1 Installation

Install and update using `pip`:

```
$ pip install -U yaclog
```

### 1.1.2 Usage

For detailed documentation on the `yaclog` command and its subcommands see the *Command Reference*.

#### Example workflow

Create a new changelog in the current directory:

```
$ yaclog init
```

Add some new entries to the “Added” section of the current unreleased version:

```
$ yaclog entry -b 'Introduced some more bugs'  
$ yaclog entry -b 'Introduced some more features'
```

Show the current version:

```
$ yaclog show
```

```
Unreleased  
  
- Introduced some more bugs  
- Introduced some more features
```

Release the current version and make a git tag for it

```
$ yaclog release 0.0.1 -c
```

```
Renamed version "Unreleased" to "0.0.1".
Commit and create tag for version 0.0.1? [y/N]: y
Created commit a7b6789
Created tag "0.0.1".
```

## 1.2 Changelog Files

Yaclog works on Markdown changelog files, using a machine-readable format based on what is proposed by [Keep a Changelog](#). Changelog files can be created using the **yaclog init** command.

### 1.2.1 Preamble

The preamble is the text at the top of the file before any version information. It can contain the title, an explanation of the file's purpose, as well as any general machine-readable information you may want to include for use with other tools. Yaclog does not provide any ways to manipulate the front matter from the command line due to its open-ended nature.

### 1.2.2 Versions

Version information begins with a header, which is an H2 containing the version's name, as well as optionally the date in ISO-8601 form, and any tag metadata. Some example version headers:

```
## 1.0.0
```

```
## 3.2.0 "Columbia" - 1981-07-20
```

```
## Version 8.0.0rc1 1988-11-15 [PRERELEASE]
```

Version names should (but are not required to) include a version number in [PEP 440](#) format, which is a superset of [semantic versioning](#). Versions can be incremented or renamed using the **yaclog release** command.

### 1.2.3 Entries

Entries are individual changes made since the previous version. They can be paragraphs, list items, or any markdown block element. Entries can be either uncategorized, or organized into sections using H3 headers. Entries can be added using the **yaclog entry** command.

### 1.2.4 Tags

Tags are additional metadata added to a version header, denoted by all-caps text surrounded in square brackets. Tags can be used to mark that a version is a prerelease, that it has been yanked for security reasons, or for marking compatibility with some other piece of software. Tags can be added and removed using the **yaclog tag** command.



## 1.2.5 Example

```
# Changelog

All notable changes to this project will be documented in this file.

## 0.13.0 "Aquarius" - 1970-04-11 [YANKED]

Yanked due to issues with oxygen tanks, currently investigating

### Added

- Extra propellant in preparation for future versions

### Changed

- Replaced Ken Mattingly
- Stirred oxygen tanks

## 0.12.0 "Intrepid" - 1969-11-14

### Added

- New ALSEP package for surface science
- Color cameras
- Surface rendezvous with Surveyor 3

### Fixed

- 1201/1202 alarm distracting crew during landing

### Known Issues

- Lightning strike during launch: No effect on performance

## 0.11.0 "Eagle" - 1969-07-20

Initial stable release

### Changed

- Fully fueled lander to allow landing on the lunar surface
```

## 1.3 Command Reference

### 1.3.1 yaclog

Manipulate markdown changelog files.

```
yaclog [OPTIONS] COMMAND [ARGS]...
```

## Options

- path** <FILE>  
Location of the changelog file.  
**Default** CHANGELOG.md
- version**  
Show the version and exit.

## Environment variables

**YACLOG\_PATH**  
Provide a default for *--path*

## entry

Add entries to SECTION in VERSION

SECTION is the name of the section to append to. If not given, entries will be uncategorized.

VERSION is the name of the version to append to. If not given, the most recent version will be used, or a new 'Unreleased' version will be added if the most recent version has been released.

```
yaclog entry [OPTIONS] SECTION VERSION
```

## Options

- b, --bullet** <TEXT>  
Add a bullet point.
- p, --paragraph** <TEXT>  
Add a paragraph

## Arguments

**SECTION**  
Optional argument

**VERSION**  
Optional argument

## format

Reformat the changelog file.

```
yaclog format [OPTIONS]
```

## init

Create a new changelog file.

```
yaclog init [OPTIONS]
```

## release

Release VERSION, or a version incremented from the last release.

VERSION is the name of the version to release. If VERSION is not provided but increment options are, then the most recent valid PEP440 version number is used instead.

The most recent version in the log will be renamed (except by the `-commit` option) by using the VERSION as well as any increment options. Increment options will always reset the later segments, and prerelease increments will clear other kinds of prerelease.

```
yaclog release [OPTIONS] VERSION
```

## Options

**-M, --major**

Increment major version number.

**-m, --minor**

Increment minor version number.

**-p, --patch**

Increment patch number.

**-a, --alpha**

Increment alpha version number.

**-b, --beta**

Increment beta version number.

**-r, --rc**

Increment release candidate version number.

**-f, --full**

Clear the prerelease value creating a full release.

**-c, --commit**

Create a git commit tagged with the new version number. If there are no changes to commit, the current commit will be tagged instead.

## Arguments

**VERSION**

Optional argument

### show

Show the changes for VERSIONS.

VERSIONS is a list of versions to print. If not given, the most recent version is used.

```
yaclog show [OPTIONS] VERSIONS
```

### Options

- a, --all**  
Show the entire changelog.
- m, --markdown, -t, --txt**  
Display as markdown or plain text.
- f, --full**  
Show version header and body.
- n, --name**  
Show only the version name
- b, --body**  
Show only the version body.
- h, --header**  
Show only the version header.

### Arguments

**VERSIONS**  
Optional argument(s)

### tag

Modify TAG on VERSION.

VERSION is the name of a version to add tags to. If not given, the most recent version is used.

```
yaclog tag [OPTIONS] TAG VERSION
```

### Options

- a, --add, -d, --delete**  
Add or delete tags

## Arguments

### **TAG**

Required argument

### **VERSION**

Optional argument



## API REFERENCE

### 2.1 changelog Module

Contains the *Changelog* class that represents a parsed changelog file that can be read from and written to disk as markdown, as well as the *VersionEntry* class that represents a single version within that changelog.

```
class VersionEntry (name: str = 'Unreleased', date: Optional[datetime.date] = None, tags: Optional[List[str]] = None, link: Optional[str] = None, link_id: Optional[str] = None, line_no: Optional[int] = None)
```

A serialized representation of a single version entry in a *Changelog*, containing the changes made since the previous version

#### Parameters

- **name** (*str*) – The version’s name
- **date** (*Optional[datetime.date]*) – When the version was released
- **tags** – The version’s tags
- **link** – The version’s URL
- **link\_id** – The version’s link ID
- **line\_no** – What line in the original file the version starts on

**name:** `str`

The version’s name

**date:** `Optional[datetime.date]`

When the version was released

**tags:** `List[str]`

The version’s tags

**link:** `Optional[str]`

The version’s URL

**link\_id:** `Optional[str]`

The version’s link ID, uses the version name by default when writing

**line\_no:** `Optional[int]`

What line the version occurs at in the file, or `None` if the version was not read from a file. This is not guaranteed to be correct after the changelog has been modified, and it has no effect on the written file

**sections:** `Dict[str, List[str]]`

The dictionary of change entries in the version, organized by section. Uncategorized changes have a section of an empty string.

**classmethod from\_header** (*header: str, line\_no: Optional[int] = None*) → *Yaclog.changelog.VersionEntry*

Create a new version entry from a markdown header

**Parameters**

- **header** – A markdown header to parse
- **line\_no** – Line number the header is on

**Returns** a new VersionEntry with the header's information

**add\_entry** (*contents: str, section: str = ""*) → *None*

Add a new entry to the version

**Parameters**

- **contents** – The contents string to add
- **section** – Which section to add to.

**body** (*md: bool = True, color: bool = False*) → *str*

Get the version's body as a string

**Parameters**

- **md** – Format headings as markdown
- **color** – Add color codes to the string for display in a terminal

**Returns** The formatted version body, without the version header

**header** (*md: bool = True, color: bool = False*) → *str*

Get the version's header as a string

**Parameters**

- **md** – Format headings as markdown
- **color** – Add color codes to the string for display in a terminal

**Returns** The formatted version header

**text** (*md: bool = True, color: bool = False*) → *str*

Get the version's contents as a string

**Parameters**

- **md** – Format headings as markdown
- **color** – Add color codes to the string for display in a terminal

**Returns** The formatted version header and body

**property released**

Returns true if a PEP440 version number is present in the version name, and has no prerelease segments

**property version**

Returns the PEP440 version number from the version name, or *None* if none is found

**class Changelog** (*path=None, preamble: str = '# Changelog\n\nAll notable changes to this project will be documented in this file'*)

A serialized representation of a Markdown changelog made up of a preamble, multiple versions, and a link table.

Contents will be automatically read from disk if the file exists

**Parameters**

- **path** – The changelog's path on disk.



- **preamble** (*str*) – The changelog preamble to use if the file does not exist.

**path**

The path of the changelog's file on disk

**preamble:** *str*

Any text at the top of the changelog before any version information, including the title. It can contain the title, an explanation of the file's purpose, as well as any general machine-readable information for use with other tools.

**versions:** *List*[*Yaclog.Changelog.VersionEntry*]

A list of versions in the changelog, with the most recent version first

**links:** *Dict*[*str*, *str*]

Link definitions at the end of the changelog, as a dictionary of {*id*: *url*}

**read** (*path=None*) → *None*

Read a markdown changelog file from disk. The object's contents will be overwritten by the file contents if reading is successful.

**Parameters** *path* – The changelog's path on disk. By default, *path* is used

**write** (*path=None*) → *None*

Write a changelog to a Markdown file.

**Parameters** *path* – The changelog's path on disk. By default, *path* is used.

**add\_version** (*index: int = 0*, \**args*, \*\**kwargs*) → *Yaclog.Changelog.VersionEntry*

Add a new version to the changelog

**Parameters**

- **index** – Where to add the new version in the log. Defaults to the top
- **args** – args to forward to the *VersionEntry* constructor
- **kwargs** – kwargs to forward to the *VersionEntry* constructor

**Returns** The created entry

**current\_version** (*released: Optional[bool] = None*, *new\_version: bool = False*, *new\_version\_name: str = 'Unreleased'*) → *Yaclog.Changelog.VersionEntry*

Get the current version from the changelog

**Parameters**

- **released** – if the returned version should be a released version, an unreleased version, or *None* to return the most recent
- **new\_version** – if a new version should be created if none exist.
- **new\_version\_name** – The name of the version to create if there are no matches and *new\_version* is *True*.

**Returns** The current version matching the criteria, or *None* if *new\_version* is disabled and none are found.

**get\_version** (*name: Optional[str] = None*) → *Yaclog.Changelog.VersionEntry*

Get a version from the changelog by name.

**Parameters** *name* – The name of the version to get, or *None* to return the most recent. The first version with this value in its name is returned.

**Returns** The first version with the selected name

## 2.2 markdown Module

Tools for parsing and manipulating markdown, including a very basic tokenizer.

**strip\_link** (*text*)

Parses and removes any links from the input string

**Parameters** **text** – An input string which may be a markdown link, either literal or an ID

**Returns** A tuple of (name, url, id). If the input is not a link, it is returned verbatim as the name.

**join** (*segments: List[str]*) → *str*

Joins multiple lines of markdown by adding double newlines between them, or a single newline between list items

**Parameters** **segments** – A list of strings to join

**Returns** A joined markdown string

**class** **Token** (*line\_no: int, lines: List[str], kind: str*)

A single tokenized block of markdown, consisting of one or more lines of text.

**line\_no**

Which line this block appears on in the original file

**lines**

The lines of text making up this block

**kind**

What kind of token this is. One of `h[1-6]`, `p`, `li` or `code`

**tokenize** (*text: str*)

Tokenize a markdown string

The tokenizer is very basic, and only cares about the highest-level blocks (Headers, top-level list items, links, code blocks, paragraphs).

**Parameters** **text** – input text to tokenize

**Returns** A list of tokens and a dictionary of links

## 2.3 version Module

Various helper functions for analyzing and manipulating [PEP 440](#) version numbers, meant to augment the `packaging.version` module.

**extract\_version** (*version\_str: str*) → `Tuple[Optional[packaging.version.Version], int, int]`

Extracts a [PEP 440](#) version object from a string which may have other text

**Parameters** **version\_str** – The input string to extract from

**Returns** A tuple of (version, start, end), where start and end are the span of the version in the original string

**increment\_version** (*version\_str: str, rel\_seg: Optional[int] = None, pre\_seg: Optional[str] = None*) →

Increment the [PEP 440](#)<sup>str</sup> version number in a string

**Parameters**

- **version\_str** – The input string to manipulate

- **rel\_seg** – Which segment of the “release” value to increment, if any
- **pre\_seg** – Which kind of prerelease to use, if any. An empty string clears the prerelease field.

**Returns** The original string with the version number incremented

**join\_version** (*epoch, release, pre, post, dev, local*) → *str*

Join multiple segments of a **PEP 440** version

**is\_release** (*version\_str: str*) → *bool*

Check if a version string is a release version

**Parameters** **version\_str** – the input string to check

**Returns** True if the input contains a released **PEP 440** version, or False if a prerelease version or no version is found



## CHANGELOG

All notable changes to this project will be documented in this file

### 3.1 Version 1.0.3 - 2021-05-12

#### 3.1.1 Fixed

- Fixed `show` command not working with Click version 8
- Fixed release message incorrectly stating if a commit will be created or not

### 3.2 Version 1.0.2 - 2021-05-12

#### 3.2.1 Changed

- Updated to support Click version 8
- Modified module documentation page titles to include a module role

#### 3.2.2 Fixed

- Fixed tag names with spaces in versions

### 3.3 Version 1.0.1 - 2021-05-10

#### 3.3.1 Fixed

- Fixed broken header in new changelogs
- Improved consistency in command documentation metavaris

## 3.4 Version 1.0.0 - 2021-05-07

### 3.4.1 Changed

- API changes:
  - `header` attribute renamed to `preamble` to avoid confusion.
- improved version header parsing to be more robust and handle multi-word version names.
- improved version number incrementing in `release`.
  - can now handle other text surrounding a pep440-compliant version number, which will not be modified
  - can now handle pre-releases correctly. The version to increment is the most recent version in the log with a valid pep440 version number in it.
  - Release increment and prerelease increments can be mixed, allowing e.g: `yaclog release -mr` to create a release candidate with in incremented minor version number.
- `release` base version is now an argument instead of an option, for consistency with other commands.

### 3.4.2 Removed

- `entry` with multiple `-b` options no longer add sub bullet points, instead adding each bullet as its own line.

### 3.4.3 Added

- Terminal output has color to distinguish version names/headers, sections, and git information.
- Extra newlines are added between versions to improve readability of the raw markdown file.

## 3.5 Version 0.3.3 - 2021-04-27

### 3.5.1 Added

- Unit tests in the `tests` folder

### 3.5.2 Fixed

- Default links and dates in `VersionEntry` are now consistently `None`
- Changelog links dict now contains version links. Modified version links will overwrite those in the table when writing to a file
- Changelog object no longer errors when creating without a path.
- `release` now resets lesser version values when incrementing
- `release` now works with logs that have only unreleased changes

## 3.6 Version 0.3.2 - 2021-04-24

### 3.6.1 Added

- Readme file now has installation and usage instructions.
- yaclog command entry point added to setup.cfg.

### 3.6.2 Changed

- `release -c` will no longer create empty commits, and will use the current commit instead.

### 3.6.3 Fixed

- `release` and `entry` commands now work using empty changelogs.

## 3.7 Version 0.3.1 - 2021-04-24

### 3.7.1 Added

- yaclog tool for manipulating changelogs from the command line
  - `init` command to make a new changelog
  - `format` command to reformat the changelog
  - `show` command to show changes from the changelog
  - `entry` command for manipulating entries in the changelog
  - `tag` command for manipulating tags in the changelog
  - `release` command for creating releases

## 3.8 Version 0.2.0 - 2021-04-19

### 3.8.1 Added

- New yak log logo drawn by my sister

### 3.8.2 Changed

- Updated package metadata
- Rewrote parser to use a 2-step method that is more flexible.
  - Parser can now handle code blocks.
  - Parser can now handle setext-style headers and H2s not conforming to the schema.

## 3.9 Version 0.1.0 - 2021-04-16

First release

### 3.9.1 Added

- `yaclog.read()` method to parse changelog files



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The Corresponding Source for a work in source code form is that same work.

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