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# Reversion Documentation

*Release 0.2*

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August 07, 2015



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Reversion is a command line tool to easily update version numbers in project files.

To install it:

```
pip install reversion
```

Python 3 is required.

To use it, create a config file `reversion.toml` in the root directory of your project. It should look like this:

```
currentversion = "0.1"

[[place]]
file = "reversion/__init__.py"
# linematch is a regex; use single quotes so you don't have to escape backslash
line-regex = '__version__'

[[place]]
file = "docs/conf.py"
line-regex = 'release'
```

Each `[[place]]` table indicates where a copy of the version number is found.

Then run:

```
reversion +0.1
```

To check the config file and version number places without changing anything, run:

```
reversion --check
```



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## Specifying version number changes

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At the command line, you can specify a few ways to change the version number:

- Starts with a number - set a completely new version number:

```
reversion 4.0
```

- Starts with ~ - add a suffix to the current version:

```
reversion ~.1  
# 4.0 -> 4.0.1
```

- Starts with + - increment the current version:

```
reversion +.1  
# 4.0 -> 4.1
```

Any non-numeric parts have to match exactly, so you can do:

```
reversion +..0beta1  
# 4.0.0beta1 -> 4.0.0beta2
```

- The word `final` - strip any non-numeric version parts:

```
reversion final  
# 4.0.0rc3 -> 4.0.0
```

You can also chain changes together. For instance, immediately after a major release, you may want to increment the version number and add a dev suffix:

```
reversion +1 ~.dev0  
# 4.0.0 -> 5.0.0.dev0
```



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## The config file

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The config file should be called `reversion.toml`, and be in the root directory of your project. `reversion` will look in the current directory when you invoke it.

The config file uses the **TOML** format.

Here's `reversion`'s own config file:

```
currentversion = "0.2"

[[place]]
file = "reversion/__init__.py"
line-regex = '__version__'

[[place]]
file = "docs/conf.py"
line-regex = 'release'
```

### **currentversion**

The current version number of the project. This is used to find the version number in files. `Reversion` will automatically update it along with the other version numbers.

## 2.1 Place sections

Each instance of the version number in your code should have a corresponding `[[place]]` section.

### **file**

The file containing the version number. Paths are relative to the directory containing `reversion.toml`.

### **line-regex**

A regular expression to find the line with the version number. `Reversion` will only see lines matching both this pattern and the current version number. You probably want to specify this using a single-quoted string - this is a literal string in TOML syntax, so you don't need to escape backslashes.