# **Bump'R Documentation**

Release 0.3.2

**Axel Haustant** 

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Bump'R is a version bumper and releaser allowing in a single command:

- Clean-up release artifact
- Bump version and tag it
- Build a source distribution and upload on PyPI
- Update version for a new development cycle

Bump'R intend to be customizable with the following features:

- Optionnal test suite run before bump
- Customizable with a config file
- Overridable by command line
- Extensible with hooks

The main goal is to provide a release workflow without manual intervention.

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## Compatibility

Bump'R requires Python 2.6+

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## Installation

You can install Bump'R with pip:

\$ pip install bumpr

or with easy\_install:

\$ easy\_install bumpr

## **Usage**

You can use directly the command line to setup every parameter:

```
$ bumpr fake/__init__.py README.rst -M -ps dev
```

But Bump'R is designed to work with a configuration file (bumpr.rc by defaults). Some features are only availables with the configuration file like:

- · commit message customization
- · hooks configuration
- · multiline test, clean and publish commands

Here's an exemple:

```
[bumpr]
file = fake/__init__.py
vcs = git
tests = tox
publish = python setup.py sdist register upload
   python setup.py clean
   rm -rf *egg-info build dist
files = README.rst
[bump]
unsuffix = true
message = Bump version {version}
[prepare]
suffix = dev
message = Prepare version {version} for next development cycle
[changelog]
file = CHANGELOG.rst
bump = {version} ({date:%Y-%m-%d})
prepare = In development
[readthedoc]
id = fake
```

This way you only have to specify which part you want to bump on the command line:

```
$ bumpr -M -s rc4 # Bump the major with an 'rc4' suffix
$ bumpr # Bump the default part aka. patch
```

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### **Documentation**

#### 4.1 Workflow

When you execute Bump'R it will follow the following workflow:

- 1. clean
- 2. test
- 3. bump
- 4. publish
- 5. prepare

If you have been using Maven, it's inspired by the Maven Release Plugin.

#### 4.1.1 Clean phase

Optionnal phase that simply execute the commands provided by the clean configuration parameter.

#### 4.1.2 Test phase

Optionnal phase that simply execute the commands provided by the tests configuration parameter.

#### 4.1.3 Bump phase

This is the main phase in which Bump'R will:

- 1. Compute replacements
- 2. Execute the bump phase for each hook
- 3. Bump replacement in version file and extra files
- 4. Commit the changes if a VCS is configured with commit=True
- 5. Tag the previously created commit if tag=True

#### 4.1.4 Publish phase

Optionnal phase that simply execute the commands provided by the publish configuration parameter.

Most of the time for Python project, you will want to execute:

```
python setup.py sdist register upload
```

#### 4.1.5 Prepare phase

This is the second main phase in which Bump'R will:

- 1. Compute replacements
- 2. Execute the prepare phase for each hook
- 3. Bump replacement in version file and extra files
- 4. Commit the changes if a VCS is configured with commit=True

## 4.2 Configuration file

The bumpr.rc configuration file is an inifile with the following possible sections and keys.

**Note:** You can also use the setup.cfg file to store the configuration. It's recommanded to prefix section with bumpr: (ie. [bumpr:bump]). Be carefull, when using Python 3, setup.cfg is parsed with ConfigParser and perform string interpolation.

#### 4.2.1 bumpr

This is the main section defining the common behavior and parameters.

```
file Default: None
```

The file containing the version string to extract.

```
regex Default: r' (__version__|VERSION)\s*=\s*(\'|") (?P<version>.+?) (\'|")'
```

The regex used to extract the version string. It must have a version named group.

encoding Default: utf8

The files encoding.

vcs Default: None

commit Default: True

If True and vcs is defined, commit the changes.

tag: Default: True

If True and vcs is defined, tag the version.

verbose Default: False

If True, display verbose output and command line output.

dryrun Default: False

If True, no command or VCS operation will be executed. They will be displayed in the command output.

clean Default: None

Specify the commands to be executed on the *clean* phase. Should have a single command by line.

tests Default: None

Specify the commands to be executed on the *test* phase. Should have a single command by line.

publish Default: None

Specify the commands to be executed on the *publish* phase. Should have a single command by line.

**files** Default: []

Extra files to process. Those files will be processed by hooks to. Specify one file by line.

#### 4.2.2 bump

This section define the bump phase behavior.

unsuffix Default: True

If True the current verion suffix will be removed.

suffix: Default: None

If set, this suffix will be appended to the version.

part: Default: None

Specify the part to bump between major, minor or patch.

message Default: Bump version {version}

Specify the commit message that will be bumped. You can use the following token in your format pattern: version, major, minor, patch and date. All formating operations are accepted.

#### 4.2.3 prepare

This section define the prepare phase behavior.

unsuffix Default: False

If True the current verion suffix will be removed.

suffix: Default: None

If set, this suffix will be appended to the version.

part: Default: patch

Specify the part to bump between major, minor or patch.

message Default: Update to version {version} for next development cycle

Specify the commit message that will be bumped. You can use the following token in your format pattern: version, major, minor, patch and date. All formating operations are accepted.

#### 4.2.4 hooks

Each hook can contribute to configuration with its own section.

See Hooks.

#### **4.2.5** sample

Here a sample bumpr.rc file

```
[bumpr]
file = fake/__init__.py
vcs = git
tests = tox
publish = python setup.py register sdist upload
   python setup.py clean
   rm -rf *egg-info build dist
files = README.rst
[bump]
message = 'Commit version {version}'
[prepare]
suffix = dev
message = Prepare version {version} for next development cycle
[changelog]
file = CHANGELOG.rst
bump = {version} ({date:%Y-%m-%d})
prepare = In development
[readthedoc]
id = bumpr
```

## 4.3 Command line usage

The bumpr executable can be used in two way:

- one shot usage with all parameters on command line
- regular usage with most of the parameters in a configuration file

The default configuration file name is bumpr.rc but you can override it with the -c option.

All mandatory parameters not present in the configuration file should be on command line.

```
files
                       Files to update
optional arguments:
 -h, --help
                       show this help message and exit
  --version
                       show program's version number and exit
 -v, --verbose Verbose output
 -c CONFIG, --config CONFIG
                       Specify a configuration file
                   Do not write anything and display a diff
 -d, --dryrun
                     Only perform the bump
 -b, --bump
 -pr, --prepare
                      Only perform the prepare
bump:
 -M, --major
                     Bump major version
 -m, --minor
                     Bump minor version
              Bump patch version
 -p, --patch
 -s SUFFIX, --suffix SUFFIX
                       Set suffix
 -u, --unsuffix
                      Unset suffix
prepare:
 -pM, --prepare-major Bump major version
 -pm, --prepare-minor Bump minor version
 -pp, --prepare-patch Bump patch version
 -ps PREPARE_SUFFIX, --prepare-suffix PREPARE_SUFFIX
                       Set suffix
 -pu, --prepare-unsuffix
                       Unset suffix
Version control system:
 --vcs {git,hg} VCS implementation -nc, --nocommit Do not commit
```

#### 4.4 Hooks

#### 4.4.1 Read the doc

This hook allow to change the Read The Doc documentation URL in both bump and prepare phase.

• key: readthedoc

parameters

- id: None

- url: http://{id}.readthedocs.org/en/{tag}

- bump: {version}

- prepare: latest

Most of the time, you will just have to specify your readthedoc project identifier.

```
[readthedoc]
id = myproject
```

You can customize the generated (and parsed) URL and the string to bump in.

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```
[readthedoc]
url = http://custom.doc/{tag}
```

You can also customize the tag part in the url for the bump and prepare phase

```
[readthedoc]
bump = {version}
prepare = lastest
```

#### 4.4.2 Changelog

This hook allow to bump and prepare your changelog. In the bump phase it will bump the current developpement header with a versionned one. In the prepare phase, it will do the inverse operation.

• key: changelog

parameters

```
- file: None
- separator: -
- bump: {version} ({date:%Y-%m-%d})'
- prepare: Current
- empty: Nothing yet
```

The file parameter is mandatory and designate the changelog file.

The separator parameter spcify the character user to underline your changelog section.

To handle this changelog you will have the following configuration

```
[changelog]
file = CHANGELOG
separator = ~
bump = Version {version} ({date:%Y-%m-%d})
prepare = In development
empty = Empty
```

If you execute Bump'R, the changelog will be bumped like:

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```
Changelog ========

Version 1.0.2 (2013-08-24)
```

And then prepared:

#### 4.4.3 Commands

This hook allow to execute custom commands during bump and prepare phases.

• key: commands

· parameters

- bump: {version}
- prepare: latest

Both bump and prepare command can be mutiline (a command statement by line), and support the following format token:

• version: the current phase version string

• major: the current phase version major part

• minor: the current phase version minor part

• patch: the current phase version patch part

• date: the current date (aka. the release date)

In the bump phase, version will be the bumped version whereas in the prepare phase it will be the prepared/next version.

\_Exemple:\_

```
[commands]
bump = echo "{major}.{minor} - {date:%Y-%m-%d)"
prepare = echo "Next version: {version}"
```

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## 4.5 Changelog

#### 4.5.1 0.3.2 (2017-01-08)

• Fix some boolean handling from commandline

#### 4.5.2 0.3.1 (2017-01-08)

- · Ensure push is executed
- · Fix boolean parsing
- Fix error handling on version extraction

#### 4.5.3 0.3.0 (2017-01-08)

- Support seprator omission in changelog (for markdown)
- Add readthedoc badge support.
- Breaking Use https and readthedocs.io as default
- setup.cfg declaration support
- Optionnal bumpr: prefix support
- Switch to pytest

#### 4.5.4 0.2.1 (2015-11-21)

- Use nosetests instead of custom discovery
- Some fixes on Python 3 (mostly encodings)
- Improve error handling
- Validate configuration

#### 4.5.5 0.2.0 (2013-08-24)

- · colored diff
- Added --bump and --prepare to only perform bump or prepare
- Rely on VCS for tracking files and ensure working copy is clean
- Added option --nocommit
- Ensure dry run does not write or execute anything
- · Better output and error handling
- Group parameters in help
- · Added optionnal hook vaidation
- Fix some Python incompatibilities (Python 2.6 and 3.X)
- More documentation

## 4.5.6 0.1.0 (2013-08-22)

• Initial release. Missing some parts but working!

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## CHAPTER 5

## Indices and tables

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- modindex
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