
bootstrap-py Documentation

Release 0.4.2

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Bootstrap Python Package

The `bootstrap-py` provides generating the Python packages.

1.1 Status

1.2 Notes

Genateed package with v0.4.1 or less that has bugs Sphinx documentation. Modify the follows manually.

- Fixes `docs/source/index.rst`:

```
diff --git a/docs/source/index.rst b/docs/source/index.rst
index b3404ac..d8bdc83 100644
--- a/docs/source/index.rst
+++ b/docs/source/index.rst
@@ -16,8 +16,8 @@ Contents:

    CHANGELOG

- Indices and tables
- =====
+Indices and tables
+=====

* :ref:`genindex`
* :ref:`modindex`
```

- Renames `docs/source/README` to `docs/source/README.rst`.
- Fixes documentation version in `docs/source/conf.py`.
- Fixes `auth_email, url` in `setup.py`.

1.3 Requirements

- Python 2.7 over or Python 3.3 over or PyPy 2.4.0 over

1.4 Features

- Generating Python package.
- Checking Python package name existence at PyPI.
- Test and conde checking environment is configured with the [Tox](#), [Pytest](#), and others.
 - [pytest-cov](#)
 - [pytest-pep8](#)
 - [pytest-flakes](#)
 - [Pylint](#)
 - [PyChecker](#)
 - [pep257](#)
- Generating documentation automatically with the [Sphinx](#).
- Configuration Git repository, initial commit.

1.5 Usage

1.5.1 Install bootstrap-py

Install bootstrap-py:

```
$ virtualenv venv
$ . venv/bin/activate
(venv)$ pip install bootstrap-py
```

1.5.2 Generate Python package

Generate your Python package.:

```
(venv)$ bootstrap-py create -a 'Your author name' -e 'your-author-email@example.org' \
-u 'https://your-package-website.example.org' -o '/path/to/package-dir' \
-l 'select-the-license' 'your-package-name'
(venv)$ deactivate
$ cd /path/to/package-dir
$ ls
MANIFEST.in  docs      pytest.ini  setup.py    utils
README.rst   libneta  setup.cfg   tox.ini
```

1.5.3 List license choices

List license description choices.:

```
(venv)$ bootstrap-py list -l
GPL          : GNU General Public License (GPL)
CPL          : Common Public License
IOSL         : Intel Open Source License
```



```
GPLv3+      : GNU General Public License v3 or later (GPLv3+)
(omit)
```

1.5.4 Using tox

Running test with tox:

```
$ pip install --user tox
$ tox
(omit)
_____ summary _____
py27: commands succeeded
py34: commands succeeded
py35: commands succeeded
pypy: commands succeeded
pep257: commands succeeded
docs: commands succeeded
pychecker: commands succeeded
congratulations :)
```

References

`bootstrap_py.control.`

`bootstrap_py.control.retrieve_metadata()`
retrieve metadata.

Return type *bootstrap_py.classifiers.Classifiers*

Returns `Classifiers()`

`bootstrap_py.control.print_licences(params, metadata)`
print licenses.

Parameters

- **params** (*argparse.Namespace*) – parameter
- **metadata** (*bootstrap_py.classifier.Classifiers*) – package metadata

`bootstrap_py.control.check_repository_existence(params)`
check repository existence.

Parameters **params** (*argparse.Namespace*) – parameters

`bootstrap_py.control.check_package_existence(params)`
check package existence.

Parameters **params** (*argparse.Namespace*) – parameters

`bootstrap_py.control.generate_package(params)`
generate package repository.

Parameters **params** (*argparse.Namespace*) – parameters

`bootstrap_py.package.`

class `bootstrap_py.package.PackageData(args)`
Bases: `object`

Package meta data class.

default_version = `'0.1.0'`

Configured the default “version” of `setup.setup()`.

warning_message = `'##### ToDo: Rewrite me #####'`

Users should rewrite parameters after they generate Python package.

to_dict ()

Convert the package data to dict.

class `bootstrap_py.package.PackageTree` (*pkg_data*)

Bases: `object`

Package directory tree class.

template_name = 'bootstrap_py'

Jinja2 template name

suffix = '-bootstrap-py'

the suffix name of working directory for generating

init = '`__init__.py`'

init filename

dir_perm = 493

default permission

pkg_dirs = ['{name}', '{name}/tests']

include directories to packages

move ()

Move directory from working directory to output directory.

clean ()

Clean up working directory.

generate ()

Generate package directory tree.

vcs_init ()

Initialize VCS repository.

`bootstrap_py.classifiers`.

class `bootstrap_py.classifiers.Classifiers`

Bases: `object`

Classifiers.

url = 'https://pypi.python.org/pypi?%3Aaction=list_classifiers'

list_classifiers url

prefix_status = 'Development Status :: '

prefix status

prefix_lic = 'License :: OSI Approved :: '

prefix licences

status ()

Development status.

licenses ()

OSI Approved license.

licenses_desc ()

removed prefix.

`bootstrap_py.docs`.

`bootstrap_py.docs.build_sphinx` (*pkg_data*, *projectdir*)

Building sphinx documentation.

Return type `int`

Returns `subprocess.call` return code

Parameters

- **pkg_data** (*bootstrap_py.control.PackageData*) – package meta data
- **projectdir** (*str*) – project root directory

`bootstrap_py.pypi`.

`bootstrap_py.pypi.PYPI_URL = 'https://pypi.python.org/pypi'`
PyPI XML-RPC API url

`bootstrap_py.pypi.package_existent` (*name*)
search package.

- *bootstrap_py.exceptions.Conflict* exception occurs when user specified name has already existed.
- *bootstrap_py.exceptions.BackendFailure* exception occurs when PyPI service is down.

Parameters **name** (*str*) – package name

`bootstrap_py.pypi.search_package` (*name*)
search package.

Parameters **name** (*str*) – package name

Return type list

Returns package name list

`bootstrap_py.vcs`.

class `bootstrap_py.vcs.VCS` (*repo_dir, metadata*)
Bases: object
VCS class.

`bootstrap_py.exceptions`.

exception `bootstrap_py.exceptions.Error` (*message=None*)
Bases: Exception
Base error class.

with_traceback ()
Exception.with_traceback(tb) – set self.__traceback__ to tb and return self.

exception `bootstrap_py.exceptions.NotFound` (*message=None*)
Bases: *bootstrap_py.exceptions.Error*
Not Found.

with_traceback ()
Exception.with_traceback(tb) – set self.__traceback__ to tb and return self.

exception `bootstrap_py.exceptions.Conflict` (*message=None*)
Bases: *bootstrap_py.exceptions.Error*
Conflict.

with_traceback ()
Exception.with_traceback(tb) – set self.__traceback__ to tb and return self.

exception `bootstrap_py.exceptions.BackendFailure` (*message=None*)
Bases: *bootstrap_py.exceptions.Error*

PyPI service down.

with_traceback()

Exception.with_traceback(tb) – set self.__traceback__ to tb and return self.

ChangeLog

3.1 0.4.2 (2016-03-08)

- Fixes configuratuon version, release.
- Fixes url, author_email in setup.py.

3.2 0.4.1 (2016-03-07)

- Adds exception handler package update.
- Fixes some docstring.

3.3 0.4.0 (2016-03-07)

- Adds checking latest version.
- Fixes Sphinx template bugs.
- Does some refactoring.

3.4 0.3.0 (2016-02-21)

- git init and initial commit.
- Adds `-no-check` option.
- Fixes list subcommand.

3.5 0.2.1 (2016-02-16)

- Fixes failing create sub-command.

3.6 0.2.0 (2016-02-15)

- Adds create, list sub-command.
 - “create”: generating Python package.
 - “list”: Print license description for choices.
- Changes mutually exclusive group; username, url options.
- Add checking package name in PyPI.
- Adds some exception handling.

3.7 0.1.1 (2016-02-02)

- Fixes README template

3.8 0.1.0 (2016-02-02)

- First release

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