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# **ProjectTemplate Documentation**

***Release 0.5.0***

**David R. Smith**

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Contents:



### A Python project template with several best-practice features/integrations

- Continuous integration
  - Linux and OSX coverage at [Travis-CI](#)
  - Windows coverage at [AppVeyor](#)
  - Coverage for several Python and Numpy versions
- Documentation with `Sphinx`
  - Run `make docs` to generate docs
  - Hosted at [Read the Docs](#)
- Testing with `pytest` and `tox`
  - Run `pytest` or `make test` to test in current environment
  - Run `tox` or `make test-all` to test in multiple virtual envs
    - \* Test matrix covers several Python and Numpy versions
- Quality checks with `coverage` and `flake8`
  - Run `coverage` or `make coverage` for test coverage report
  - Run `flake8` or `make lint` for code style/quality checks
  - Analysis at [Code Climate](#) and [QuantifiedCode](#)
- Dependency updates and Python 3 compatability at [PyUp.io](#)
- Version management with `bumpversion`
  - Run `bumpversion major|minor|patch` to increment version project-wide
- Makefile recipes
  - Run `make` for recipe summaries

This project is adapted from the [Cookiecutter](#) package utility and the [PyPackage](#) template.



### Stable release

To install ProjectTemplate, run this command in your terminal:

```
$ pip install project_template
```

This is the preferred method to install ProjectTemplate, as it will always install the most recent stable release.

If you don't have [pip](#) installed, this [Python installation guide](#) can guide you through the process.

### From sources

The sources for ProjectTemplate can be downloaded from the [Github repo](#).

You can either clone the public repository:

```
$ git clone git://github.com/drsmith48/project_template
```

Or download the [tarball](#):

```
$ curl -OL https://github.com/drsmith48/project_template/tarball/master
```

Once you have a copy of the source, you can install it with:

```
$ python setup.py install
```



## CHAPTER 3

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### Usage

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To use ProjectTemplate in a project:

```
import project_template
```



Contributions are welcome, and they are greatly appreciated! Every little bit helps, and credit will always be given. You can contribute in many ways:

### Types of Contributions

#### Report Bugs

Report bugs at [https://github.com/drsmith48/project\\_template/issues](https://github.com/drsmith48/project_template/issues).

If you are reporting a bug, please include:

- Your operating system name and version.
- Any details about your local setup that might be helpful in troubleshooting.
- Detailed steps to reproduce the bug.

#### Fix Bugs

Look through the GitHub issues for bugs. Anything tagged with “bug” and “help wanted” is open to whoever wants to implement it.

#### Implement Features

Look through the GitHub issues for features. Anything tagged with “enhancement” and “help wanted” is open to whoever wants to implement it.

## Write Documentation

ProjectTemplate could always use more documentation, whether as part of the official ProjectTemplate docs, in docstrings, or even on the web in blog posts, articles, and such.

## Submit Feedback

The best way to send feedback is to file an issue at [https://github.com/drsmith48/project\\_template/issues](https://github.com/drsmith48/project_template/issues).

If you are proposing a feature:

- Explain in detail how it would work.
- Keep the scope as narrow as possible, to make it easier to implement.
- Remember that this is a volunteer-driven project, and that contributions are welcome :)

## Get Started!

Ready to contribute? Here's how to set up *project\_template* for local development.

1. Fork the *project\_template* repo on GitHub.
2. Clone your fork locally:

```
$ git clone git@github.com:your_name_here/project_template.git
```

3. Install your local copy into a virtualenv. Assuming you have virtualenvwrapper installed, this is how you set up your fork for local development:

```
$ mkvirtualenv project_template
$ cd project_template/
$ python setup.py develop
```

4. Create a branch for local development:

```
$ git checkout -b name-of-your-bugfix-or-feature
```

Now you can make your changes locally.

5. When you're done making changes, check that your changes pass flake8 and the tests, including testing other Python versions with tox:

```
$ flake8 project_template tests
$ python setup.py test or py.test
$ tox
```

To get flake8 and tox, just pip install them into your virtualenv.

6. Commit your changes and push your branch to GitHub:

```
$ git add .
$ git commit -m "Your detailed description of your changes."
$ git push origin name-of-your-bugfix-or-feature
```

7. Submit a pull request through the GitHub website.

## Pull Request Guidelines

Before you submit a pull request, check that it meets these guidelines:

1. The pull request should include tests.
2. If the pull request adds functionality, the docs should be updated. Put your new functionality into a function with a docstring, and add the feature to the list in README.rst.
3. The pull request should work for Python 2.6, 2.7, 3.3, 3.4 and 3.5, and for PyPy. Check [https://travis-ci.org/drsmith48/project\\_template/pull\\_requests](https://travis-ci.org/drsmith48/project_template/pull_requests) and make sure that the tests pass for all supported Python versions.

## Tips

To run a subset of tests:

```
$ py.test tests.test_project_template
```





## CHAPTER 5

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### Credits

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#### Development Lead

- David R. Smith <[drsmith48@gmail.com](mailto:drsmith48@gmail.com)>

#### Contributors

None yet. Why not be the first?



#### **0.1.0 (2017-03-27)**

- First release on PyPI.



## CHAPTER 7

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### Indices and tables

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- `genindex`
- `modindex`
- `search`