
addme Documentation

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CHAPTER 1

A template Python package

This repo contains a tiny Python package with a number of features:

- The API is autocumented using Sphinx, and can be viewed on [ReadTheDocs](#).
- Demonstrates how to properly use logging.
- Demonstrates how to generate code coverage report
- Demonstrates how to set up CI with Travis, which runs unit tests and a linter
- Demonstrates how to use `setup.py` to enable the package to be installed using `pip`.

1.1 References

1.1.1 Autodocumented API

This relies on the use of Python docstrings combined with Sphinx.

Google docstring style can be found here: http://sphinxcontrib-napoleon.readthedocs.io/en/latest/example_google.html

More information on setting up Sphinx can be found here: <https://samnicholls.net/2016/06/15/how-to-sphinx-readthedocs/>

Note that you need to rerun

```
sphinx-apidoc -o source/ ../addme/
```

Whenever you change the structure of your modules. See here: <https://stackoverflow.com/questions/28481471/sphinx-keeping-the-api-updated/28481785#28481785>

1.1.2 Pip install

To pip install, we need a valid `setup.py` file, and then the package can be installed from Github using:

```
pip install git+https://github.com/RobinL/python_package_template.git
```

1.1.3 Unit testing

Having reviewed the options, I chose to use the standard unittest library for unit testing

It seems simplest to use the default Python module. The main advantage of `pytest` in a simple project seems to be less boilerplate, but the differences are not enormous.

To run the tests locally, we can just run:

```
python -m unittest discover
```

In the travis file we run them, whilst also producing a coverage report and syncing with codecov.io

1.2 Things to remember:

ReadTheDocs will fail by default if your project has dependencies (e.g. pandas) To correct, go to Advanced Settings in the ReadTheDocs web interface, and point it at your requirements.txt file.

CHAPTER 2

Another title goes here

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