

Python Modules Setup and Configuration

Environment and Requirements

- All package install requirements should be specified in the setup.py, “install_requires”

```
# setup.py
setuptools.setup(
    ...
    install_requires=[
        <requirements>
    ],
    ...
)
```

- Should have a requirements.txt file which looks like;

```
# Install setup_requires
setuptools>=42
setuptools_scm
wheel
<any other setup requirements>
# Testing tools
pytest
<any other testing requirements>
# Install local package
-e .
```

Setup

- Pure Python packages should have a `make venv` target which uses **virtualenv** to set up and install the package (preferably with the [SymbiFlow/make-env](#) system).
- Binary Python packages should have a `make env` target which uses **conda** to set up and install the package (preferably with the [SymbiFlow/make-env](#) system).

Documentation

- **Should** use RestructuredText
- **Should** use Sphinx
- **Should** use ReadTheDocs

Formatting

- **Should** follow pep8
- **Should** have a `make format` and a `make format-py` targets which formats the code.
- Run;
 - ? - pylint

- ? - flake8

Testing

pytest

- **Should** have a pytest.ini file
- **Should** have --doctest-modules as an addopts

Linting

Publishing

- **Should** be published to PyPI.
- **Should** use setuptools_scm and be published on every commit.
- **Should** use SymbiFlow/actions/includes/python/