
developer.skatelescope.org
Documentation
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Documentation Status

Briefly describe your project here

CHAPTER 1

Requirements

The system used for development needs to have Python 3 and `pip` installed.

CHAPTER 2

Install

Always use a virtual environment. `Pipenv` is now Python's officially recommended method, but we are not using it for installing requirements when building on the CI Pipeline. You are encouraged to use your preferred environment isolation (i.e. `pip`, `conda` or `pipenv` while developing locally).

For working with `Pipenv`, follow these steps at the project root:

First, ensure that `~/local/bin` is in your `PATH` with:

```
> echo $PATH
```

In case `~/local/bin` is not part of your `PATH` variable, under Linux add it with:

```
> export PATH=~/local/bin:$PATH
```

or the equivalent in your particular OS.

Then proceed to install `pipenv` and the required environment packages:

```
> pip install pipenv # if you don't have pipenv already installed on your system
> pipenv install
> pipenv shell
```

You will now be inside a `pipenv` shell with your virtual environment ready.

Use `exit` to exit the `pipenv` environment.

- Put tests into the `tests` folder
- Use `PyTest` as the testing framework
 - Reference: [PyTest introduction](#)
- Run tests with `python setup.py test`
 - Configure `PyTest` in `setup.py` and `setup.cfg`
- Running the test creates the `htmlcov` folder
 - Inside this folder a rundown of the issues found will be accessible using the `index.html` file
- All the tests should pass before merging the code

CHAPTER 4

Code analysis

- Use [Pylint](#) as the code analysis framework
- By default it uses the [PEP8 style guide](#)
- Use the provided `code-analysis.sh` script in order to run the code analysis in the `module` and `tests`
- Code analysis should be run by calling `pylint ska_python_skeleton`. All pertaining options reside under the `.pylintrc` file.
- Code analysis should only raise document related warnings (i.e. `#FIXME` comments) before merging the code

Writing documentation

- The documentation generator for this project is derived from SKA's [SKA Developer Portal repository](#)
- The documentation can be edited under `./docs/src`
- If you want to include only your README.md file, create a symbolic link inside the `./docs/src` directory if the existing one does not work:

```
$ cd docs/src
$ ln -s ../../README.md README.md
```

- In order to build the documentation for this specific project, execute the following under `./docs`:

```
$ make html
```

- The documentation can then be consulted by opening the file `./docs/build/html/index.html`

6.1 PyCharm

As this project uses a `src` folder structure, under *Preferences > Project Structure*, the `src` folder needs to be marked as “Sources”. That will allow the interpreter to be aware of the package from folders like `tests` that are outside of `src`. When adding Run/Debug configurations, make sure “Add content roots to PYTHONPATH” and “Add source roots to PYTHONPATH” are checked.

Todo:

- Insert todo's here
-

Package-name documentation

This section describes requirements and guidelines.

7.1 Subtitle

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7.1.1 Public API Documentation

Functions

Classes

Project-name documentation HEADING

These are all the packages, functions and scripts that form part of the project.

- *Package-name documentation*