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# **Pulsar Telescope Utilities Documentation**

***Release 0.1.0***

**Daniel Williams**

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# Pulsar Telescope Utilities

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A python package to run and collect data from a pulsar telescope. This software was designed to run the pulsar telescope at the University of Glasgow's Acre Road observatory, Glasgow, Scotland, however, where possible the software has been made as location-agnostic as possible.

## 1.1 Features

- TODO Telescope drive utilities





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# Installation

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At the command line:

```
$ easy_install pulsar_telescope
```

Or, if you have virtualenvwrapper installed:

```
$ mkvirtualenv pulsar_telescope  
$ pip install pulsar_telescope
```



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### Usage

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To use Pulsar Telescope Utilities in a project:

```
import pulsar_telescope
```



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## Pulsar Data Processing

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The classes described here are used to process data from the pulsar telescope, including metadata.



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## Contributing

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

### 5.1 Types of Contributions

#### 5.1.1 Report Bugs

Report bugs at [https://github.com/transientlunatic/pulsar\\_telescope/issues](https://github.com/transientlunatic/pulsar_telescope/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.

#### 5.1.2 Fix Bugs

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

#### 5.1.3 Implement Features

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

#### 5.1.4 Write Documentation

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

#### 5.1.5 Submit Feedback

The best way to send feedback is to file an issue at [https://github.com/transientlunatic/pulsar\\_telescope/issues](https://github.com/transientlunatic/pulsar_telescope/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 :)

## 5.2 Get Started!

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

1. Fork the *pulsar\_telescope* repo on GitHub.
2. Clone your fork locally:

```
$ git clone git@github.com:your_name_here/pulsar_telescope.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 pulsar_telescope
$ cd pulsar_telescope/
$ 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 pulsar_telescope tests
$ python setup.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.

## 5.3 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, and 3.4, and for PyPy. Check [https://travis-ci.org/transientlunatic/pulsar\\_telescope/pull\\_requests](https://travis-ci.org/transientlunatic/pulsar_telescope/pull_requests) and make sure that the tests pass for all supported Python versions.



## 5.4 Tips

To run a subset of tests:

```
$ python -m unittest tests.test_pulsar_telescope
```



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**Credits**

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## 6.1 Development Lead

- Daniel Williams <1007382w@student.gla.ac.uk>
- Ronnie Frith
- Graham Woan <graham.woan@gla.ac.uk>

## 6.2 Contributors

None yet. Why not be the first?



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**History**

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**0.1.0 (2015-06-01)**

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- First release on PyPI.





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## Indices and tables

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- `genindex`
- `modindex`
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