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# **PyWIM Documentation**

***Release 0.1.0***

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Contents:



Open algorithms to use in WIM research.

- Free software: MIT license
- Documentation: <https://pywim.readthedocs.io>.

WIM research and algorithms (in Python language) using code files and science notebooks with examples, explanations and specifications.

## 1.1 PyWIM - SciPy Latin America - Argentina - 2015

**Video:**

- <http://tinyurl.com/pjbn8x3>





### 2.1 Stable release

To install PyWIM, run this command in your terminal:

```
$ pip install pywim
```

This is the preferred method to install PyWIM, 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.

### 2.2 From sources

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

You can either clone the public repository:

```
$ git clone git://github.com/xmnlabs/pywim
```

Or download the [tarball](#):

```
$ curl -OL https://github.com/xmnlabs/pywim/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 PyWIM in a project:

```
import pywim
```



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

## 4.1 Types of Contributions

### 4.1.1 Report Bugs

Report bugs at <https://github.com/xmnlabs/pywim/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.

### 4.1.2 Fix Bugs

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

### 4.1.3 Implement Features

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

### 4.1.4 Write Documentation

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

### 4.1.5 Submit Feedback

The best way to send feedback is to file an issue at <https://github.com/xmnlabs/pywim/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 :)

## 4.2 Get Started!

Ready to contribute? Here's how to set up *pywim* for local development.

1. Fork the *pywim* repo on GitHub.
2. Clone your fork locally:

```
$ git clone git@github.com:your_name_here/pywim.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 pywim
$ cd pywim/
$ 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 pywim 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.

## 4.3 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 3.5 and 3.6. Check [https://travis-ci.org/xmnlabs/pywim/pull\\_requests](https://travis-ci.org/xmnlabs/pywim/pull_requests) and make sure that the tests pass for all supported Python versions.

## 4.4 Tips

To run a subset of tests:

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





## CHAPTER 5

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### Indices and tables

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