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# **pyomeca Documentation**

*Release 0.1.0*

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Toolbox for biomechanics analysis.

- Free software: Apache Software License 2.0
- Documentation: <https://pyomeca.readthedocs.io>.

## 1.1 Features

- Travis
- Docs
- Deployment
- Codecov

## 1.2 Credits

- Pariterre & Romain\_Martinez



## 2.1 Stable release

To install pyomeca, run this command in your terminal:

```
$ pip install pyomeca
```

This is the preferred method to install pyomeca, 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 pyomeca can be downloaded from the [Github repo](#).

You can either clone the public repository:

```
$ git clone git://github.com/pyomeca/pyomeca
```

Or download the [tarball](#):

```
$ curl -OL https://github.com/pyomeca/pyomeca/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 pyomeca in a project:

```
import pyomeca
```

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**Todo:** add pyomeca guides.

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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:

## 4.1 Types of Contributions

### 4.1.1 Report Bugs

Report bugs at <https://github.com/pyomeca/pyomeca/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

pyomeca could always use more documentation, whether as part of the official pyomeca 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/pyomeca/pyomeca/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 *pyomeca* for local development.

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

```
$ git clone git@github.com:your_name_here/pyomeca.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 pyomeca
$ cd pyomeca/
$ 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 pyomeca 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 2.7, 3.4, 3.5 and 3.6, and for PyPy. Check [https://travis-ci.org/pyomeca/pyomeca/pull\\_requests](https://travis-ci.org/pyomeca/pyomeca/pull_requests) and make sure that the tests pass for all supported Python versions.

## 4.4 Tips

To run a subset of tests:

```
$ py.test tests.test_pyomeca
```

## 4.5 Deploying

A reminder for the maintainers on how to deploy. Make sure all your changes are committed (including an entry in HISTORY.rst). Then run:

```
$ bumpversion patch # possible: major / minor / patch
$ git push
$ git push --tags
```

Travis will then deploy to PyPI if tests pass.



## 5.1 Development Lead

- Pariterre & Romain Martinez

## 5.2 Contributors

None yet. Why not be the first?





### 6.1 0.1.0 (2018-02-22)

- First release on PyPI.



## CHAPTER 7

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### Indices and tables

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