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# **Adafruit-Motor-Hat Documentation**

***Release 0.2.0***

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# CHAPTER 1

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## Adafruit-Motor-Hat

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An improved pip available Adafruit Motor Hat Package

- Free software: MIT license
- Documentation: <https://adafruit-motor-hat.readthedocs.io>.

### Features

- Improve the Stepper performance for the original Adafruit-Motor-HAT-Python-Library

### Credits

This package is based and mostly contains code from Adafruit-Motor-HAT-Python-Library

This package was created with [Cookiecutter](#) and the [audreyr/cookiecutter-pypackage](#) project template.





### Stable release

To install Adafruit-Motor-Hat, run this command in your terminal:

```
$ pip install adafruit_motor_hat
```

This is the preferred method to install Adafruit-Motor-Hat, 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.

### From sources

The sources for Adafruit-Motor-Hat can be downloaded from the [Github repo](#).

You can either clone the public repository:

```
$ git clone git://github.com/ferret-guy/adafruit_motor_hat
```

Or download the [tarball](#):

```
$ curl -OL https://github.com/ferret-guy/adafruit_motor_hat/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 Adafruit-Motor-Hat in a project:

```
import adafruit_motor_hat
```



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

### Types of Contributions

#### Report Bugs

Report bugs at [https://github.com/ferret-guy/adafruit\\_motor\\_hat/issues](https://github.com/ferret-guy/adafruit_motor_hat/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.

#### Fix Bugs

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

#### Implement Features

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

## Write Documentation

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

## Submit Feedback

The best way to send feedback is to file an issue at [https://github.com/ferret-guy/adafruit\\_motor\\_hat/issues](https://github.com/ferret-guy/adafruit_motor_hat/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 :)

## Get Started!

Ready to contribute? Here's how to set up *adafruit\_motor\_hat* for local development.

1. Fork the *adafruit\_motor\_hat* repo on GitHub.
2. Clone your fork locally:

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

## 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, 3.4 and 3.5, and for PyPy. Check [https://travis-ci.org/ferret-guy/adafruit\\_motor\\_hat/pull\\_requests](https://travis-ci.org/ferret-guy/adafruit_motor_hat/pull_requests) and make sure that the tests pass for all supported Python versions.

## Tips

To run a subset of tests:

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





### Development Lead

- Mark Omo <[mark@markomo.me](mailto:mark@markomo.me)>

### Contributors

None yet. Why not be the first?

### Original Contributors to Adafruit-Motor-HAT-Python-Library

- [tdicola](#)
- [caternuson](#)
- [ladyada](#)



#### **0.1.0 (2017-06-24)**

- First release on PyPI.



## CHAPTER 7

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### Indices and tables

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- `genindex`
- `modindex`
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