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# **bettersocket Documentation**

***Release 0.1.1***

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# CHAPTER 1

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bettersocket

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Painless socket handling for Python

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

## 1.1 Features

- Implements a framing mechanism over raw sockets using delimiters.
- Works with both blocking and nonblocking sockets.

## 1.2 Credits

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



### 2.1 Stable release

To install `bettersocket`, run this command in your terminal:

```
$ pip install bettersocket
```

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

You can either clone the public repository:

```
$ git clone git://github.com/marcsello/bettersocket
```

Or download the [tarball](#):

```
$ curl -OJL https://github.com/marcsello/bettersocket/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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Simple example:

```
import socket
from bettersocket import BetterSocketIO

s = socket.socket(socket.AF_INET, socket.SOCK_STREAM)
s.connect(('marcsello.com', 420))

bs = BetterSocketIO(s)

bs.sendframe("GET / HTTP/1.1")
bs.sendframe("Host: marcsello.com")
bs.sendframe("")

while True:
    line = bs.readframe()
    print(line)
```



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/marcsello/bettersocket/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

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

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

```
$ git clone git@github.com:your_name_here/bettersocket.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 bettersocket
$ cd bettersocket/
$ 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 bettersocket tests
$ python setup.py test or pytest
$ 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, 3.6, 3.7 and 3.8, and for PyPy. Check [https://travis-ci.com/marcsello/bettersocket/pull\\_requests](https://travis-ci.com/marcsello/bettersocket/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_bettersocket
```

## 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:

```
$ bump2version patch # possible: major / minor / patch
$ git push
$ git push --tags
```

Travis will then deploy to PyPI if tests pass.



### 5.1 Development Lead

- Marcell Pünkösdi <[punkosdmarcell@rocketmail.com](mailto:punkosdmarcell@rocketmail.com)>

### 5.2 Contributors

None yet. Why not be the first?





#### 6.1 0.1.1 (2020-03-19)

- Removed the exposed `fileio`, as it were confusing (see. <https://github.com/marcsello/bettersocket/issues/1>)
- Fixed `__str__` and `__repr__` functions on *BetterSocketIO* class to support other address families than `INET`
- Exposed `reset` call in *BetterSocketIO* class
- Various cleanups, and bugfixes
- Removed support for Python 3.5

#### 6.2 0.1.0 (2020-02-20)

- First release on PyPI.



## CHAPTER 7

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### Indices and tables

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