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# **Bonzo Documentation**

*Release 0.1.2+*

**Jorge Puente Sarrín**

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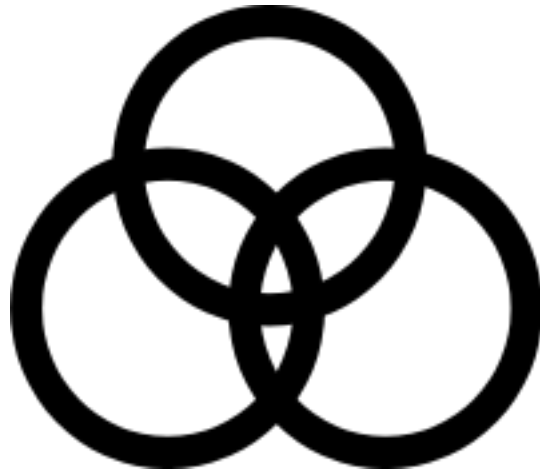
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# CHAPTER 1

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## About

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Bonzo is a Python SMTP Server using the asynchronous network library of [Tornado](#). And it's actually a port of Python's [smtpd](#) module.





## CHAPTER 2

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Hello, world

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Here is a simple “Hello, world” example SMTP server for Bonzo:

```
import tornado.ioloop
import bonzo.smtp

class Handler(bonzo.smtp.RequestHandler):

    def data(self):
        print(self.request.message)

application = bonzo.smtp.Application(Handler)

if __name__ == '__main__':
    application.listen(2525)
    tornado.ioloop.IOLoop.current().start()
```



## CHAPTER 3

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### Installation

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You can to use `pip` to install Bonzo:

```
$ pip install bonzo
```

Or using last source:

```
$ pip install git+https://github.com/puentesarrin/bonzo.git
```



## CHAPTER 4

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### Documentation

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`Sphinx` is needed to generate the documentation. Documentation can be generated by issuing the following commands:

```
$ cd docs
$ make html
```

Or simply:

```
$ python setup.py doc
```

Also, the current documentation can be found at [ReadTheDocs](#).



## CHAPTER 5

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### License

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Bonzo is available under the [Apache License, Version 2.0](#).





- [genindex](#)
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**Note:** **Logo credits:** Image created by [Freakofnurture](#) (Wikimedia user), released into the public domain ([source](#)).

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## Package Documentation

### bonzo Package

Bonzo is a SMTP Server built on top of Tornado.

```
bonzo.__init__.get_version_string()
```

```
bonzo.__init__.version = '0.1.2+'  
    Current version of Bonzo.
```

### bonzo Modules

**bonzo.server** – Non-blocking SMTP server

**bonzo.smtp** – RequestHandler and Application classes

**bonzo.testing** – Unit testing support for asynchronous code

**bonzo.errors** – SMTP exceptions for response to the client

SMTP exceptions for response to the client.

**exception** `bonzo.errors.BadArguments` (*syntax*)

Bases: `bonzo.errors.SMTPError`

Used to return a 501 status code.

**Parameters** `syntax` (*string*) – Syntax returned to the client.

**exception** `bonzo.errors.BadSequence` (*message*)

Bases: `bonzo.errors.SMTPError`

Used to return a 503 status code.

**Parameters** `message` (*string*) – Message to be written to the stream and to response to the client.

**exception** `bonzo.errors.InternalConfusion`

Bases: `bonzo.errors.SMTPError`

Used to return a 451 status code.

**exception** `bonzo.errors.NotImplementedCommand` (*command*)

Bases: `bonzo.errors.SMTPError`

Used to return a 502 status code.

**Parameters** `command` (*string*) – Command not implemented for the server.

**exception** `bonzo.errors.SMTPError` (*status\_code*, *message*, *log\_message=None*, \**args*)

Bases: `exceptions.Exception`

An exception that will turn into an SMTP error response.

**Parameters**

- **status\_code** (*int*) – SMTP status code. For a status codes list, see: <http://www.greenend.org.uk/trjk/tech/smtpreplies.html>.
- **message** (*string*) – Message to be written to the stream in order to response to the client.
- **log\_message** (*string*) – Message to be written to the log for this error. May contain %s-style placeholders, which will be filled in with remaining positional parameters.

**exception** `bonzo.errors.UnrecognisedCommand`

Bases: `bonzo.errors.SMTPError`

Used to return a 500 status code.

## Release Notes

### Next Release

*Very soon*

- Added Sphinx docs and [ReadTheDocs](#) configuration.
- `tornado.log` is used to log records from `bonzo.server`.
- Improved test suite to cover the `bonzo.__init__` and `bonzo.testing` modules.

## New modules

- The `bonzo.smtp` module provides a better way to handles messages, this module is created to support asynchronous code in the request callback.
- The `bonzo.errors` module provides custom exceptions for writing error codes to the client.

## `bonzo.server`

- `SMTPConnection` is raising the new exceptions from the `bonzo.errors` module on its `command_` methods.
- Added `SMTPRequest` for manage the request arguments, an instance of this class is passed as argument to the request callback.
- Request callback receives an instance of `SMTPRequest` now. The message can be found on the `message` attribute of the request.
- Request callbacks should call to the `finish()` method in order to finish the request by sending a successfully message to the client.
- Exceptions in request callbacks no longer silently pass, instead the server returns an internal confusion error (451) to the client and the exceptions are now logged for debugging.
- `MAIL` command returns a 503 error when a `HELO` command was not previously received.

## `bonzo.testing`

- Added `connect`, `read_response`, `send_mail`, and `close` methods to the `AsyncSMTPTestCase` class. These methods are oriented for ease to create tests to the SMTP server.

## Release Notes for Bonzo 0.1.2

*February 04, 2014*

- `bonzo.smtpserver` module is renamed to `bonzo.server`. This is motivated to add (in the next version) a module called `smtp` containing tools for handling requests with asynchronous features, very similar to `tornado.web`.
- Added Python 3 support.
- Added Travis and Coveralls configuration (Issue #1). Thanks to Luis Mayta.

## Release Notes for Bonzo 0.1.1

*February 02, 2014*

- Fixed lack of tests by adding the test suite to cover the `0.1.0` version.
- The release just fixes this bad software engineering.

## New modules

- The `bonzo.testing` module provides an interface to run asynchronous tests over a `SMTPServer` running on a random port.

## Release Notes for Bonzo 0.1.0

*August 21, 2013*

- Initial and simple version without tests.
- A port of the Python `smtpd` module which uses `asyncore`.

## Contributors

- Jorge Puente Sarrín ([puentesarrin](#))
- Luis Mayta Mamani ([luismayta](#))

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