
FatBotSlim Documentation

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1	Introduction	1
1.1	About FatBotSlim	1
1.2	Installation	1
2	Usage	3
2.1	Tutorials	3
2.2	Creating custom handlers	6
2.3	Utilities	8
3	API Reference	11
3.1	fatbot slim.irc	11
3.2	fatbot slim.cli	15
3.3	fatbot slim.handlers	15
3.4	fatbot slim.log	16
4	Indices and tables	19
	Python Module Index	21

Introduction

1.1 About FatBotSlim

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Homepage <https://github.com/mattoufoutu/fatbot slim>

Documentation <http://fatbot slim.rtf d.org>

Issue tracker <https://github.com/mattoufoutu/fatbot slim/issues>

Git clone URI <https://github.com/mattoufoutu/fatbot slim.git>

FatBotSlim is an asynchronous IRC bot library written in Python using the `gevent` library.

A FatBotSlim bot consists of a bot object to which handlers are registered to make it react to events. When triggered, the handlers' methods are called asynchronously, therefore you don't have to worry about time-consuming operations that could block your code execution.

1.2 Installation

This document describes the various ways to install FatBotSlim.

1.2.1 Using pip

From GitHub

Just run:

```
pip install git+git://github.com/mattoufoutu/fatbot slim.git
```

From PyPI

TODO

1.2.2 Manually

From GitHub

1. Clone the repository:

```
git clone git://github.com/mattoufoutu/fatbot slim.git
```

2. Install the package:

```
cd fatbot slim  
python setup.py install
```

From PyPI

TODO

2.1 Tutorials

2.1.1 Writing a simple bot

In this tutorial, we'll take the code from the README.md and explain what happens, it is a bot that answers *Hello <username>!* when someone says *!hello* in a public message.

The code

```
1 from fatbot slim .cli import make_bot, main
2 from fatbot slim .handlers import CommandHandler, EVT_PUBLIC
3
4
5 class HelloCommand (CommandHandler):
6     triggers = {
7         u'hello': [EVT_PUBLIC],
8     }
9
10    def hello (self, msg):
11        self.irc .msg (msg .dst, u"Hello {0}!".format (msg .src .name))
12
13
14 bot = make_bot ()
15 bot .add_handler (HelloCommand)
16 main (bot)
```

Explanations

Imports:

- Line 1:

We import 2 functions, `fatbot slim .cli .make_bot ()` and `fatbot slim .cli .main ()`, both are useful when dealing with a bot that will connect to only one server.

The `fatbot slim .cli .make_bot ()` function takes care of gathering the command line options, which are used to create a `fatbot slim .irc .IRC` instance, and then returns it.

The `fatbot slim.cli.main()` function is there to spawn the bot in a greenlet (see [gevent's documentation](#) for details about this) and run the main loop for you.

- Line 2:

Here we import the `fatbot slim.handlers.CommandHandler` that will be used to make the bot react to the `!hello` command and the `EVT_PUBLIC` variable, which is used to define

The handler:

- Lines 5-7:

The `triggers` attribute is a `dict` used to define to which commands and on which type of events the bot should react. It consists of command names mapped to a tuple listing events. If we wanted the bot to react to `!hello` both in public and private messages, the value would have been (`'public'`, `'private'`).

- Lines 9-10:

This is the method that will be called when the `!hello` command will be triggered, it must have the same name as defined in `triggers` and takes two arguments, the first is the instance of the `fatbot slim.irc.bot.Message` that triggered the command, and the second is an instance of `fatbot slim.irc.bot.IRC` which is used to communicate back with the server.

Starting the bot:

- Line 12:

Nothing to explain here, the `fatbot slim.cli.make_bot()` function is already described in the imports part.

- Line 13:

The previously created handler is instantiated and added to the bot's handlers.

- Line 14:

The bot is passed to the `fatbot slim.cli.main()` function, which will take care of

2.1.2 Writing a multi-server bot

In this tutorial, we'll take the code from the "simple bot" tutorial, and make it run on multiple servers.

The code

```
1 from fatbot slim.irc.bot import IRC, run_bots
2 from fatbot slim.handlers import CommandHandler, EVT_PUBLIC
3
4
5 class HelloCommand(CommandHandler):
6     triggers = {
7         u'hello': [EVT_PUBLIC],
8     }
9
10    def hello(self, msg):
11        self.irc.msg(msg.dst, u"Hello {0}!".format(msg.src.name))
```

```
12
13
14 servers = [
15     {
16         'server': 'irc.rizon.net',
17         'port': 6697,
18         'ssl': True,
19         'nick': 'fatbot slim',
20         'realname': 'fatbot slim',
21         'channels': ['#testbot']
22     },
23     {
24         'server': 'irc.freenode.net',
25         'port': 6697,
26         'ssl': True,
27         'nick': 'fatbot slim',
28         'realname': 'fatbot slim',
29         'channels': ['#testbot']
30     }
31 ]
32
33 bots = []
34 for server in servers:
35     bot = IRC(server)
36     bot.add_handler(HelloCommand)
37     bots.append(bot)
38
39 run_bots(bots)
```

Explanations

Imports

- Line 1:

The `fatbot slim.irc.bot.IRC` class will be used to instantiate and configure our bots. And the `fatbot slim.irc.bot.run_bots()` will allow us to run all our bots in parallel.

Configuration

- Lines 12-29:

Instead of having our settings passed via the command line, we create a `dict` for each server our bot will connect to.

Running the bots

- Lines 31-35:

Here we create a `list` to hold our `fatbot slim.irc.bot.IRC` instances. We loop over each server configuration, and use them in our bots instantiations.

- Line 37:

The `fatbot slim.irc.bot.run_bots()` function takes a list of bots as argument, and launches each one's main loop in a greenlet.

2.2 Creating custom handlers

Note: Internally, all processed data are unicode strings. If you need to decode strings, you can use the provided `fatbot slim.irc.u()` function.

2.2.1 Basic handlers

Basic handlers simply react to IRC events by calling methods mapped to them, they are subclasses of `fatbot slim.handlers.BaseHandler`.

Events are mapped to methods names in the handler's `commands` attribute, which is a `dict` where the key is an IRC event as defined in the `fatbot slim.irc.codes` module and the value is the name of the method to call. The mapped methods take just one attribute, the `fatbot slim.irc.bot.Message` object which triggered the event. To communicate back to the server, use the handler's `irc` (which is a `fatbot slim.bot.IRC` instance).

A good example of a custom handler is FatBotSlim's integrated `fatbot slim.handlers.CTCPHandler`:

```
class CTCPHandler(BaseHandler):
    """
    Reacts to CTCP events (VERSION, SOURCE, TIME, PING). (enabled by default)
    """
    commands = {
        CTCP_VERSION: 'version',
        CTCP_SOURCE: 'source',
        CTCP_TIME: 'time',
        CTCP_PING: 'ping'
    }

    def version(self, msg):
        self.irc.ctcp_reply(
            u'VERSION', msg.src.name,
            u'{0}:{1}:{2}'.format(NAME, VERSION, platform.system())
        )

    def source(self, msg):
        self.irc.ctcp_reply(
            u'SOURCE', msg.src.name,
            u'https://github.com/mattoufoutu/fatbot slim'
        )
        self.irc.ctcp_reply(u'SOURCE', msg.src.name)

    def time(self, msg):
        now = datetime.now().strftime(u'%a %b %d %I:%M:%S%p %Y %Z').strip()
        self.irc.ctcp_reply(u'TIME', msg.src.name, now)

    def ping(self, msg):
        self.irc.ctcp_reply(u'PING', msg.src.name, u' '.join(msg.args))
```

Another, simpler, basic handler is the integrated `fatbot slim.handlers.PingHandler`, this one simply answers to server's PINGs:

```
class PingHandler(BaseHandler):
    """
    Answers to PINGs sent by the server. (enabled by default)
    """
    commands = {
        PING: 'ping'
    }

    def ping(self, msg):
        self.irc.cmd(u'PONG', u' '.join(msg.args))
```

2.2.2 Command handlers

The `fatbot slim.handlers.CommandHandler` is a special kind of handler that reacts only to PRIVMSG and NOTICE messages, they are used to implement !foo-like commands to your bot.

The prefix character is defined by the handler's `trigger_char` attribute, and defaults to !.

Commands are defined in the handler's `triggers` attribute, a dict that maps method names to events they should react to. Possible events are `EVT_PUBLIC`, `EVT_PRIVATE`, and `EVT_NOTICE`. The methods take just 1 argument, the first is a `fatbot slim.irc.bot.Message` object, and the second is a `fatbot slim.irc.bot.IRC` object used to send messages back to the server.

For example, the message !foo bar would call the handler's `foo()` method.

Here is a command handler that says hello when it receives !hello in public:

```
from fatbot slim.handlers import CommandHandler, EVT_PUBLIC

class HelloCommand(CommandHandler):
    triggers = {
        u'hello': [EVT_PUBLIC],
    }

    def hello(self, msg):
        self.irc.msg(msg.dst, u"Hello, {0}!".format(msg.src.name))
```

If you wanted the handler to answer also to private messages, you would simply have to add 'private' to the "hello" event list and set the answer destination accordingly:

```
from fatbot slim.handlers import CommandHandler, EVT_PUBLIC, EVT_PRIVATE

class HelloCommand(CommandHandler):
    triggers = {
        u'hello': [EVT_PUBLIC, EVT_PRIVATE],
    }

    def hello(self, msg):
        dst = msg.src.name if (msg.dst == irc.nick) else msg.dst
        self.irc.msg(dst, u"Hello {0}!".format(msg.src.name))
```

2.3 Utilities

2.3.1 Commands Help

If you want to have help messages for your handlers' commands automatically generated, *fatbot slim* provides a convenience handler.

The `fatbot slim.handlers.HelpHandler` provides two kind of help messages, one that simply lists available commands when `!help` is called (assuming `!` is your current `trigger_char`), and one that displays the command's docstring when `help [command]` is called.

To use this feature, simply document your commands' docstrings (try to keep a consistent format across all your docstrings), and add the handler to your bot.

```
from fatbot slim.cli import make_bot, main
from fatbot slim.handlers import CommandHandler, HelpHandler, EVT_PUBLIC

class HelloCommand(CommandHandler):
    triggers = {
        u'hello': [EVT_PUBLIC],
    }

    def hello(self, msg):
        """hello - says hello"""
        self.irc.msg(msg.dst, u"Hello {0}!".format(msg.src.name))

    def say(self, msg):
        """say <message> - simply repeats the message"""
        self.irc.msg(msg.dst, ' '.join(msg.args[1:]))

bot = make_bot()
bot.add_handler(HelpHandler)
bot.add_handler(HelloCommand)
main(bot)
```

Given the previous code, if one called `!help`, the bot would answer:

```
Available commands: hello, say
```

and if one called `!help say`, the bot would answer:

```
say <message> - simply repeats the message
```

2.3.2 Colored Messages

To send colored messages, you can use the `fatbot slim.irc.colors.ColorMessage` class. It mimics strings behaviour, and thus allows to call string methods on it.

```
from fatbot slim.irc.colors import ColorMessage
message = ColorMessage('sOmE rAnDoM tExT', color='blue')
message = ColorMessage('sOmE rAnDoM tExT', color='blue', bold=True)
message = ColorMessage('sOmE rAnDoM tExT', color='blue', underline=True)
message = ColorMessage('sOmE rAnDoM tExT', color='blue', highlight=True)
upper_message = message.upper()
title_message = message.title()
```

Available colors are:

- blue
- brown
- dark_green
- magenta
- purple
- dark_grey
- light_grey
- yellow
- black
- teal
- cyan
- olive
- green
- white
- dark_blue
- red

If no color is specified when instantiating `fatbot slim.irc.colors.ColorMessage`, the value defaults to “black”.

2.3.3 Rights Management

FatBotSlim provides a built-in handler (`fatbot slim.handlers.RightsHandler`) to manage who should be allowed to run specific commands. It allows to define which users can run which commands, and on which event(s) type(s).

This special handler is automatically enabled, and is accessible through the `fatbot slim.irc.bot.IRC.rights` attribute. It can be permanently disabled using the `fatbot slim.irc.bot.IRC.enable_rights()` method, and can be re-enabled using the `fatbot slim.irc.bot.IRC.disable_rights()` method.

Settings permissions

Adding a new permission is done using the `fatbot slim.irc.bot.IRC.rights.set_restriction()` method.

For example, to restrict usage of the *hello* command to a user named *LeetUser* in public messages, the following code should be used (assuming *bot* is the `fatbot slim.irc.bot.IRC` instance):

```
bot.rights.set_permission('hello', 'LeetUser', [EVT_PUBLIC])
```

Once this is done, only *LeetUser* will be allowed to use the *hello* command, and only in public messages.

Global rights can also be set using `*` as the username. In the following example, *LeetUser* would be allowed to use the *hello* command in private messages only, and all the other users would be allowed to use it in public messages and notices only.

```
bot.rights.set_restriction('hello', 'LeetUser', [EVT_PRIVATE])
bot.rights.set_restriction('hello', '*', [EVT_PUBLIC, EVT_NOTICE])
```

Removing permissions

Removing a permission is done using the `fatbot slim.irc.bot.IRC.rights.del_restriction()` method.

The following code snippet would remove the previously set permission for *LeetUser*.

```
bot.rights.del_restriction('hello', 'LeetUser', [EVT_PRIVATE])
```

Only given event(s) type(s) are removed from the permission, so, if *LeetUser* was previously allowed to use the *hello* command in public messages too, it would still have the right to.

3.1 fatbotSlim.irc

3.1.1 fatbotSlim.irc.bot

This module contains IRC protocol related stuff.

class `fatbotSlim.irc.bot.IRC` (*settings*)

The main IRC bot class.

The only expected argument is the bot's configuration, it should be a `dict` with at least the following keys defined:

- **server**: the ircd's host (`str`)
- **port**: the ircd's port (`int`)
- **ssl**: connect to the server using SSL (`bool`)
- **channels**: the channels to join upon connection (`list`)
- **nick**: the bot's nickname (`str`)
- **realname**: the bot's real name (`str`)

Parameters *settings* (`dict`) – bot configuration.

add_handler (*handler*, *args=None*, *kwargs=None*)

Registers a new handler.

Parameters

- **handler** (`fatbotSlim.handlers.BaseHandler`) – handler to register.
- **args** (`list`) – positional arguments to pass to the handler's constructor.
- **kwargs** (`dict`) – keyword arguments to pass to the handler's constructor.

cmd (*command*, *args*, *prefix=None*)

Sends a command to the server.

Parameters

- **command** (`unicode`) – IRC code to send.
- **args** (`basestring`) – arguments to pass with the command.
- **prefix** (`str` or `None`) – optional prefix to prepend to the command.

ctcp_reply (*command, dst, message=None*)

Sends a reply to a CTCP request.

Parameters

- **command** (*str*) – CTCP command to use.
- **dst** (*str*) – sender of the initial request.
- **message** (*str*) – data to attach to the reply.

disable_rights ()

Disables rights management provided by `fatbot slim.handlers.RightsHandler`.

disconnect ()

Disconnects the bot from the server.

enable_rights ()

Enables rights management provided by `fatbot slim.handlers.RightsHandler`.

join (*channel*)

Make the bot join a channel.

Parameters **channel** (*str*) – new channel to join.

msg (*target, msg*)

Sends a message to an user or channel.

Parameters

- **target** (*str*) – user or channel to send to.
- **msg** (*str*) – message to send.

notice (*target, msg*)

Sends a NOTICE to an user or channel.

Parameters

- **target** (*str*) – user or channel to send to.
- **msg** (*basestring*) – message to send.

classmethod randomize_nick (*base, suffix_length=3*)

Generates a pseudo-random nickname.

Parameters

- **base** (*unicode*) – prefix to use for the generated nickname.
- **suffix_length** (*int*) – amount of digits to append to *base*

Returns generated nickname.

Return type unicode

run ()

Connects the bot and starts the event loop.

set_nick (*nick*)

Changes the bot's nickname.

Parameters **nick** (*unicode*) – new nickname to use

class `fatbot slim.irc.bot.Message` (*data*)

Holds informations about a line received from the server.

Parameters **data** (*unicode*) – line received from the server.

classmethod `parse` (*data*)

Extracts message informations from *data*.

Parameters `data` (*unicode*) – received line.

Returns extracted informations (source, destination, command, args).

Return type tuple(Source, str, str, list)

Raise `fatbot slim.irc.NullMessage` if *data* is empty.

exception `fatbot slim.irc.bot.NullMessage`

Raised when an empty line is received from the server.

class `fatbot slim.irc.bot.Source` (*prefix*)

Holds informations about a message sender.

Parameters `prefix` (*unicode*) – prefix with format <servername>|<nick>[!'<user>][!@<host>].

classmethod `parse` (*prefix*)

Extracts informations from *prefix*.

Parameters `prefix` (*unicode*) – prefix with format <servername>|<nick>[!'<user>][!@<host>].

Returns extracted informations (nickname or host, mode, username, host).

Return type tuple(str, str, str, str)

`fatbot slim.irc.bot.run_bots` (*bots*)

Run many bots in parallel.

Parameters `bots` (*list*) – IRC bots to run.

3.1.2 fatbot slim.irc.tcp

This module contains the low-level networking stuff.

class `fatbot slim.irc.tcp.SSL` (*host, port, timeout=300*)

SSL wrapper for a `fatbot slim.irc.tcp.TCP` connection.

Parameters

- **host** (*str*) – server's hostname
- **port** (*int*) – server's port
- **timeout** (*int*) – maximum time a request/response should last.

class `fatbot slim.irc.tcp.TCP` (*host, port, timeout=300*)

A TCP connection.

Parameters

- **host** (*str*) – server's hostname
- **port** (*int*) – server's port
- **timeout** (*int*) – maximum time a request/response should last.

connect ()

Connects the socket and spawns the send/receive loops.

disconnect ()

Closes the socket.

3.1.3 fatbot slim.irc.codes

This module lists the known IRC codes as defined in the [RFC 1459](#).

—

It also defines some custom codes:

RPL_CONNECTED (001): Connection established with the server.

RPL_SERVERVERSION (002): Server's name/version.

RPL_SERVERCREATED (003): Server's creation date.

RPL_SERVERMODES (004): Modes supported by the server.

RPL_ISUPPORT (005): Protocol extensions supported by the server.

CTCP_VERSION, **CTCP_PING**, **CTCP_TIME**, **CTCP_SOURCE**: self-explanatory.

PING, **PRIVMSG**, **NOTICE**, **JOIN**, **PART**: self-explanatory.

—

Codes are also grouped by type to make matching them easier:

ERRORS, **RESPONSES**, **RESERVED**, **CTCP**, **OTHERS**

—

There are also 2 special code sets:

ALL_CODES: Matches any code if listed in the groups previously mentioned.

UNKNOWN_CODE: Matches any code not listed in **ALL_CODES**.

3.1.4 fatbot slim.irc.colors

This module provides message colors capabilities.

class fatbot slim.irc.colors.**ColorMessage** (*content*, *color='black'*, *bold=False*, *underline=False*, *highlight=False*)

Allows to create colorized strings. Created objects behave like real strings, allowing to call *str* methods.

Parameters

- **content** (*unicode*) – message to colorize.
- **color** (*str*) – one of fatbot slim.irc.colors.ColorMessage._colors.
- **bold** (*bool*) – if the string has to be in bold.
- **underline** (*bool*) – if the string has to be underlined.
- **highlight** (*bool*) – if the string foreground and background has to be switched.

static **colorize** (*string*, *color='black'*, *bold=False*, *underline=False*, *highlight=False*)

Parameters

- **string** (*unicode*) – message to colorize.
- **color** (*str*) – one of fatbot slim.irc.colors.ColorMessage._colors.
- **bold** (*bool*) – if the string has to be in bold.
- **underline** (*bool*) – if the string has to be underlined.

- **highlight** (*bool*) – if the string foreground and background has to be switched.

`fatbot slim.irc.u` (*s*, *errors*=*'ignore'*)

Automatically detects given string's encoding and returns its unicode form. Decoding errors are handled according to the *errors* argument, see *unicode()* documentation for more details.

Parameters

- **s** (*str*) – string to decode.
- **errors** (*str*) – decoding error handling behaviour.

Returns decoded string

Return type unicode

3.2 fatbot slim.cli

This module contains utilities to run a bot from the command line.

`fatbot slim.cli.main` (*bot*)

Entry point for the command line launcher.

Parameters **bot** (`fatbot slim.irc.bot.IRC`) – the IRC bot to run

`fatbot slim.cli.make_bot` ()

Creates a new bot instance ready to be launched.

`fatbot slim.cli.make_parser` ()

Creates an argument parser configured with options to run a bot from the command line.

Returns configured argument parser

Return type `argparse.ArgumentParser`

3.3 fatbot slim.handlers

This module contains a collection of handlers to react to basic IRC events and allow creation of custom handlers.

class `fatbot slim.handlers.BaseHandler` (*irc*)

The base of every handler.

A handler should at least have a `commands` attribute of type `dict` which maps IRC codes (as defined in `fatbot slim.irc.codes`) to methods.

Mapped methods take 1 argument, the `fatbot slim.irc.bot.Message` object that triggered the event.

class `fatbot slim.handlers.CommandHandler` (*irc*)

The `CommandHandler` is a special kind of handler that eases the creation of bots that react to prefixed commands (like `!command`). It only reacts to `PRIVMSG` and `NOTICE` messages.

The prefix character is defined by the handler's `trigger_char` attribute, and defaults to `!`.

Commands are defined in the handler's `triggers` attribute, a `dict` that maps method names to events to which they should react. Possible events are `EVT_PUBLIC`, `EVT_PRIVATE`, and `EVT_NOTICE`. The methods should take 1 argument, which is the `fatbot slim.irc.bot.Message` object that triggered the event.

For example, the message `!foo bar` would call the handler's `foo()` method.

Here is a command handler that says hello when it receives `!hello` in public:

```
class HelloCommand(CommandHandler):
    triggers = {
        'hello': [EVT_PUBLIC],
    }
    def hello(self, msg):
        self.irc.msg(msg.dst, "Hello, {0}!".format(msg.src.name))
```

class fatbot slim.handlers.**PingHandler** (*irc*)
Answers to PINGs sent by the server. (enabled by default)

class fatbot slim.handlers.**CTCPHandler** (*irc*)
Reacts to CTCP events (VERSION,SOURCE,TIME,PING). (enabled by default)

class fatbot slim.handlers.**UnknownCodeHandler** (*irc*)
Logs messages for which the IRC code is unknown. (enabled by default)

class fatbot slim.handlers.**HelpHandler** (*irc*)
Provides automatic help messages for `fatbot slim.handlers.CommandHandler` commands.

help (*msg*)
help [command] - displays available commands, or help message for given command

class fatbot slim.handlers.**RightsHandler** (*irc*)
Provides rights management for `fatbot slim.handlers.CommandHandler` commands.

del_restriction (*command, user, event_types*)
Removes restriction for given *command*.

Parameters

- **command** (*str*) – command on which the restriction should be removed.
- **user** (*str*) – username for which restriction should be removed.
- **event_types** (*list*) – types of events that should be removed from restriction.

handle_rights (*msg*)
Catch-all command that is called whenever a restricted command is triggered.

Parameters **msg** (`fatbot slim.irc.Message`) – message that triggered the command.

set_restriction (*command, user, event_types*)
Adds restriction for given *command*.

Parameters

- **command** (*str*) – command on which the restriction should be set.
- **user** (*str*) – username for which the restriction applies.
- **event_types** (*list*) – types of events for which the command is allowed.

3.4 fatbot slim.log

This module contains everything useful to enable logging.

class fatbot slim.log.**ColorFormatter** (*fmt=None, datefmt=None*)
A logging formatter that displays the loglevel with colors and the logger name in bold.

Initialize the formatter with specified format strings.

Initialize the formatter either with the specified format string, or a default as described above. Allow for specialized date formatting with the optional `datefmt` argument (if omitted, you get the ISO8601 format).

format (*record*)

Overrides the default `logging.Formatter.format()` to add colors to the `record`'s `levelname` and `name` attributes.

`fatbot slim.log.create_logger` (*name*, *level*='INFO')

Creates a new ready-to-use logger.

Parameters

- **name** (*str*) – new logger's name
- **level** (*str* or *int*) – default logging level.

Returns new logger.

Return type `logging.Logger`

Indices and tables

- *genindex*
- *modindex*
- *search*

f

fatbotslim.handlers, 15
fatbotslim.irc.bot, 11
fatbotslim.irc.codes, 14
fatbotslim.irc.colors, 14
fatbotslim.irc.tcp, 13
fatbotslim.log, 16

A

add_handler() (fatbotslim.irc.bot.IRC method), 11

B

BaseHandler (class in fatbotslim.handlers), 15

C

cmd() (fatbotslim.irc.bot.IRC method), 11
 ColorFormatter (class in fatbotslim.log), 16
 colorize() (fatbotslim.irc.colors.ColorMessage static method), 14
 ColorMessage (class in fatbotslim.irc.colors), 14
 CommandHandler (class in fatbotslim.handlers), 15
 connect() (fatbotslim.irc.tcp.TCP method), 13
 create_logger() (in module fatbotslim.log), 17
 ctcp_reply() (fatbotslim.irc.bot.IRC method), 12
 CTCPHandler (class in fatbotslim.handlers), 16

D

del_restriction() (fatbotslim.handlers.RightsHandler method), 16
 disable_rights() (fatbotslim.irc.bot.IRC method), 12
 disconnect() (fatbotslim.irc.bot.IRC method), 12
 disconnect() (fatbotslim.irc.tcp.TCP method), 13

E

enable_rights() (fatbotslim.irc.bot.IRC method), 12

F

fatbotslim.handlers (module), 15
 fatbotslim.irc.bot (module), 11
 fatbotslim.irc.codes (module), 14
 fatbotslim.irc.colors (module), 14
 fatbotslim.irc.tcp (module), 13
 fatbotslim.log (module), 16
 format() (fatbotslim.log.ColorFormatter method), 16

H

handle_rights() (fatbotslim.handlers.RightsHandler method), 16

help() (fatbotslim.handlers.HelpHandler method), 16
 HelpHandler (class in fatbotslim.handlers), 16

I

IRC (class in fatbotslim.irc.bot), 11

J

join() (fatbotslim.irc.bot.IRC method), 12

M

main() (in module fatbotslim.cli), 15
 make_bot() (in module fatbotslim.cli), 15
 make_parser() (in module fatbotslim.cli), 15
 Message (class in fatbotslim.irc.bot), 12
 msg() (fatbotslim.irc.bot.IRC method), 12

N

notice() (fatbotslim.irc.bot.IRC method), 12
 NullMessage, 13

P

parse() (fatbotslim.irc.bot.Message class method), 12
 parse() (fatbotslim.irc.bot.Source class method), 13
 PingHandler (class in fatbotslim.handlers), 16

R

randomize_nick() (fatbotslim.irc.bot.IRC class method), 12
 RFC
 RFC 1459#section-6, 14

RightsHandler (class in fatbotslim.handlers), 16
 run() (fatbotslim.irc.bot.IRC method), 12
 run_bots() (in module fatbotslim.irc.bot), 13

S

set_nick() (fatbotslim.irc.bot.IRC method), 12
 set_restriction() (fatbotslim.handlers.RightsHandler method), 16
 Source (class in fatbotslim.irc.bot), 13
 SSL (class in fatbotslim.irc.tcp), 13

T

TCP (class in fatbot slim.irc.tcp), [13](#)

U

u() (in module fatbot slim.irc), [15](#)

UnknownCodeHandler (class in fatbot slim.handlers), [16](#)