
LoBot Documentation

Release 0

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A highly extensible IRC Bot framework

Contents:

Installation

From PyPI:

```
$ pip install lobot
```

From source

Download the latest LoBot library from: <https://github.com/pyrated/lobot>

Extract the source distribution and run:

```
$ python setup.py build
$ python setup.py install
```

1.1 Getting the code

The code is hosted on [Github](#).

Check out the latest development version anonymously with:

```
$ git clone git://github.com/pyrated/lobot.git
$ cd lobot
```

Plugins

Begin by subclassing *Plugin*:

```
from lobot.plugins import Plugin

class MyPlugin(Plugin):
    pass
```

Plugins Reference

3.1 Plugin

When LoBot loads a module, it looks for all subclasses of *Plugin* and creates instances of them.

class `lobot.plugins.Plugin`

nick

Returns (str) The current nickname of the bot.

A read-only property.

config

Returns (dict) The plugin-specific config from `config.json`.

A read-only property.

say (*target: str, message: str*)

Sends a non-blocking message to a target.

Parameters

- **target** (*str*) – Where to send the message. This can either be another user's nickname or the name of a channel.
- **message** (*str*) – The message to send.

reply (*nick: str, target: str, message: str*)

Helper method to send a reply to the channel or person addressing the bot. Usually used when writing *Event Decorators*.

Parameters

- **nick** (*str*) – A user's nickname. Usually received as the **nick** parameter to a callback.
- **target** (*str*) – A received message target. Usually received as the **target** parameter to a callback.
- **message** (*str*) – The message to send.

on_load ()

async: Called when the plugin is fully loaded and ready to perform actions.

on_connected ()

async: Called when the bot has established a connection to the server.

on_disconnected()

async: Called when the bot has lost connection to the server.

on_command (*nick: str, target: str, message: str*)

async: Called when a command message is received.

Parameters

- **nick** (*str*) – A user’s nickname.
- **target** (*str*) – The message target. Either the bot’s nick or a channel name.
- **message** (*str*) – The message.

on_msg (*nick: str, channel: str, message: str*)

async: Called when a message is received on a channel.

Parameters

- **nick** (*str*) – A user’s nickname.
- **channel** (*str*) – The channel name.
- **message** (*str*) – The message.

on_private_msg (*nick: str, message: str*)

async: Called when a private message is received.

Parameters

- **nick** (*str*) – A user’s nickname.
- **message** (*str*) – The message.

on_join (*channel: str*)

async: Called when the bot joins a channel.

Parameters **channel** (*str*) – The channel name.

on_they_join (*nick: str, channel: str*)

async: Called when someone else joins a channel.

Parameters

- **nick** (*str*) – A user’s nickname.
- **channel** (*str*) – The channel name.

3.2 Event Decorators

The plugins module also contains helpful decorators to make it easy to make your bot watch special message events.

The decorated methods are **async** and should have this signature:

```
async def method(self, nick: str, target: str, message: str, match):  
    pass
```

`lobot.plugins.listen` (*pattern: str, flags: str=''*)

Use this decorator to create callbacks that will run when a regular expression is matched.

Parameters

- **pattern** (*str*) – The regular expression to match against.
- **flags** (*str*) – A string of characters representing regex flags (optional):

- 'i' to enable case-insensitivity.
- 's' to enable "DOTALL" mode, that is the '.' regex will match even whitespace.

Usage:

```
@listen('(http[s]?://(?:[a-zA-Z]|[0-9]|[$-_@.&+]|[*\\(\),]|(?:%[0-9a-fA-F][0-9a-fA-F]))+)' )
async def url_listener(self, nick: str, target: str, message: str, match):
    self.reply(nick, target, 'I just saw a URL: ' + match.group(1))
```

lobot.plugins.**command**(*pattern: str, flags: str=''*)

Similar to [listen\(\)](#) but only triggers when a message is addressed specifically to the bot. This includes private messages to the bot or messages in that look like:

- LoBot: this is a command message
- LOBOT this is a command message
- @Lobot this is a command message

HTTP Plugin

HTTP Plugin Reference

Indices and tables

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