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# **ResponseBot Documentation**

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**East Agile**

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## Getting Started

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### Introduction

A framework to quickly develop listen-and-answer twitter bots. You can define multiple actions to be executed every time a tweet arrives.

### Installation

```
$ pip install responsebot
```

### Quick start

#### Authenticate

Create a `.responsebot` file in your project root with your Twitter API credentials (which can be obtained after you created a Twitter application [here](#)).

```
[auth]
consumer_key = <consumer_key>
consumer_secret = <consumer_secret>
token_key = <token_key>
token_secret = <token_secret>
```

#### Create a handler

```
from responsebot.handlers import BaseTweetHandler, register_handler

@register_handler
class MyTweetHandler(BaseTweetHandler):
    def get_filter(self):
        return TweetFilter(track=['Donald Trump'], follow=['<your personal Twitter id>'])

    def on_tweet(self, tweet):
        print('Received tweet: %s from %s' % (tweet.text, tweet.user.screen_name))
```

### Execute

```
$ start_responsebot --handlers-package <python path to your package/module>
```

### Test

The bot should now receive tweets containing ‘Donald Trump’ or tweets posted by you. You should see ResponseBot outputs

```
Received tweet: <your tweet content> from <your sender tweet account>
```

### Handler

For a list of methods you can define in your custom handlers, see [handler reference](#).

### Reply to tweets

You can reply to received tweets, see more in the tutorial’s [client section](#)



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## Tutorial

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### Authenticate

ResponseBot uses Twitter API, which requires authentication. To do so, you need to register an application with Twitter [here](#). Twitter will provide your app with a consumer key & secret pair, you need to generate an additional app token key & secret pair from your app management panel. After you have the credentials, put it under the `[auth]` section in the `.responsebot` configuration file in your project root (or whichever directory you run ResponseBot from).

```
[auth]
consumer_key = <consumer_key>
consumer_secret = <consumer_secret>
token_key = <token_key>
token_secret = <token_secret>
```

If the credentials you provided are correct, when you run ResponseBot it should show like below

```
$ start_responsebot --handlers-package <path_to_handler>
[INFO] 2016-05-04 10:54:13 ResponseBot started
[INFO] 2016-05-04 10:54:16 Successfully authenticated as <twitter_screen_name>
```

Otherwise it should show an error

```
[ERROR] 2016-05-04 10:52:17 Could not authenticate.
```

You can pass the credentials as a `start_responsebot`'s option instead of using a config file:

```
$ start_responsebot --auth <consumer_key> <consumer_secret> <token_key> <token_secret>
```

### Listen to public stream or user stream

The bot can listen to every tweets in the world (that match some keywords) or it can listen to its authenticated user's timeline, as if it is that user. By default, the bot listen to the public stream, you can tell it to listen to the user stream as follow:

```
$ start_responsebot --user-stream
```

See more about stream and filters [here](#).

## Handler

To receive an incoming tweet, you need to subclass `BaseTweetHandler` and implement the `on_tweet` method. You can specify what kind of tweets the bot should listen to by returning an appropriate `TweetFilter` in the `get_filter` method.

```
class MyTweetHandler(BaseTweetHandler):
    def on_tweet(self, tweet):
        print('Received tweet: %s from %s' % (tweet.text, tweet.user.screen_name))

    def get_filter(self):
        return TweetFilter(track=['Donald Trump'], follow=['<your personal Twitter id>'])
```

See what `tweet` object contains in reference.

If you're listening on user stream, you can catch non-tweet events (user following, etc.) as in this tutorial.

## Client

If your application want to post a reply to the received tweet, you can use ResponseBot's Twitter client to do so:

```
class MyTweetHandler(BaseTweetHandler):
    def on_tweet(self, tweet):
        self.client.tweet('Howdy @%s' % tweet.user.screen_name)
```

The `client` object can also retweet, get or delete a specific tweet by ID. See reference.

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## Streams and filters

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### Streams

Twitter has [three stream APIs](#) to listen to. ResponseBot currently implement the public stream and user stream listening methods. By default the bot listen to public stream, you can tell the bot to listen to user stream by setting it in the config file:

```
[stream]
user_stream=true
```

or pass in a flag in the start command:

```
$ start_responsebot --user-stream
```

### Filters

The public stream utilize two parameters: `track` and `follow`, to filter global streams (you cannot listen to every tweets in the world, you must have either 1 keyword to track or 1 user to follow). You provide these parameters in your handlers' `get_filter` method as follow:

```
def get_filter(self):
    return TweetFilter(track=['keyword'], follow=['user_id'])
```

By default the BaseTweetHandler returns a filter with the `follow` parameter set as the bot's authenticated user and an empty `track` parameter.

The `follow` parameter will not be used if you use `user_stream`. See more about TweetFilter



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## User event handling

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If you're listening to user stream, you can catch non-tweet events (user following, etc.) by subclassing the `BaseEventHandler` class and set it in your tweet handler, as follow:

```
class MyEventHandler(BaseEventHandler):
    def on_follow(self, event):
        pass

    def handle(self, event):
        super(MyEventHandler, self).handle(event)
        # do sth

class MyTweetHandler(BaseTweetHandler):
    event_handler_class = MyEventHandler
```

Currently we support callbacks `on_<event>` so you can easily implementing them. You can override `handle` for more customization if needed.

For a list of Twitter user events, visit [this docs](#).



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## Reference

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<a href="#"><i>responsebot.handlers.base</i></a>	
<a href="#"><i>responsebot.handlers.event</i></a>	
<a href="#"><i>responsebot.responsebot_client</i></a>	
<a href="#"><i>responsebot.models</i></a>	Entity classes for various entity types for ResponseBot
<a href="#"><i>responsebot.common.exceptions</i></a>	Exceptions and errors used by Tweet Bot

## responsebot.handlers.base

### Classes

<a href="#"><i>BaseTweetHandler</i>([client])</a>	An abstract base tweet handler class for the user to subclass.
---	--

**class** `responsebot.handlers.base.BaseTweetHandler` (*client=None, \*args, \*\*kwargs*)

An abstract base tweet handler class for the user to subclass.

**\_\_init\_\_** (*client=None, \*args, \*\*kwargs*)

Init a handler, try to create event handler if appropriate.

**Parameters** *client* – Some Twitter API client for authentication. E.g. `TweetClient`

**get\_filter** ()

Override this method for custom filter. By default returns a filter with the bot's authenticated user ID in the follow list.

Example:

```
return TweetFilter(track=['hello'], follow=['<some_user_id>'])`
```

**on\_event** (*event*)

Callback for when a non-tweet event is sent. By default, this will call an event handler passed by *event\_handler\_class*

**Parameters** *event* – The received event

**on\_tweet** (*tweet*)

Callback for when a tweet appears in user timeline

**Parameters** *tweet* (*Tweet*) – The incoming tweet

## responsebot.handlers.event

### Classes

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*BaseEventHandler*(client)    Abstract event handler.

---

**class** `responsebot.handlers.event.BaseEventHandler` (*client*)

Abstract event handler. Read more about event here and [here](#).

**\_\_init\_\_** (*client*)

Init event handler.

**Parameters** *client* – Some Twitter API client for authentication. E.g. `TweetClient`

**handle** (*event*)

Entry point to handle user events.

**Parameters** *event* – Received event. See a full list [here](#).

**on\_access\_revoked** (*event*)

Event-specific callback for handling `access_revoked` events. This will trigger when you deauthorize a stream. See more of this [here](#)

**Parameters** *event* (*Event*) – Received event.

**on\_block** (*event*)

Event-specific callback for handling `block` events. This will trigger when you block someone.

**Parameters** *event* (*Event*) – Received event.

**on\_favorite** (*event*)

Event-specific callback for handling `favorite` events. This will trigger when someone like your tweet or you like someone's tweet.

**Parameters** *event* (*Event*) – Received event.

**on\_follow** (*event*)

Event-specific callback for handling `follow` events. This will trigger when someone follow the current user or when current user follow someone.

**Parameters** *event* (*Event*) – Received event.

**on\_list\_created** (*event*)

Event-specific callback for handling `list_created` events. This will trigger when you create a list.

**Parameters** *event* (*Event*) – Received event.

**on\_list\_destroyed** (*event*)

Event-specific callback for handling `list_destroyed` events. This will trigger when you delete your list.

**Parameters** *event* (*Event*) – Received event.

**on\_list\_member\_added** (*event*)

Event-specific callback for handling `list_member_added` events. This will trigger when you are added to a list or you add someone to your list.

**Parameters** *event* (*Event*) – Received event.



**on\_list\_member\_removed** (*event*)

Event-specific callback for handling `list_member_removed` events. This will trigger when you are removed from a list or you remove someone from your list.

**Parameters** **event** (*Event*) – Received event.

**on\_list\_updated** (*event*)

Event-specific callback for handling `list_updated` events. This will trigger when you update your list.

**Parameters** **event** (*Event*) – Received event.

**on\_list\_user\_subscribed** (*event*)

Event-specific callback for handling `list_user_subscribed` events. This will trigger when your list is subscribed to or you subscribe to a list.

**Parameters** **event** (*Event*) – Received event.

**on\_list\_user\_unsubscribed** (*event*)

Event-specific callback for handling `list_user_unsubscribed` events. This will trigger when your list is unsubscribed from or you unsubscribe from a list.

**Parameters** **event** (*Event*) – Received event.

**on\_quoted\_tweet** (*event*)

Event-specific callback for handling `quoted_tweet` events. This will trigger when someone quote your tweet.

**Parameters** **event** (*Event*) – Received event.

**on\_unblock** (*event*)

Event-specific callback for handling `unblock` events. This will trigger when you unblock someone.

**Parameters** **event** (*Event*) – Received event.

**on\_unfavorite** (*event*)

Event-specific callback for handling `unfavorite` events. This will trigger when someone unlike your tweet or you unlike someone's tweet.

**Parameters** **event** (*Event*) – Received event.

**on\_unfollow** (*event*)

Event-specific callback for handling `unfollow` events. This will trigger when you unfollow someone.

**Parameters** **event** (*Event*) – Received event.

**on\_user\_update** (*event*)

Event-specific callback for handling `user_update` events. This will trigger when you update your profile or private tweets.

**Parameters** **event** (*Event*) – Received event.

## responsebot.responsebot\_client

### Classes

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*ResponseBotClient*(client, config)    Wrapper for all Twitter API clients.

---

**class** responsebot.responsebot\_client.**ResponseBotClient** (*client, config*)

Wrapper for all Twitter API clients.

**add\_list\_member** (*list\_id*, *user\_id*)

Add a user to list

**Parameters**

- **list\_id** – list ID number
- **user\_id** – user ID number

**Returns** *List* object

**create\_list** (*name*, *mode*='public', *description*=None)

Create a list

**Parameters**

- **name** – Name of the new list
- **mode** – 'public' (default) or 'private'
- **description** – Description of the new list

**Returns** The new list object

**Return type** *List*

**destroy\_list** (*list\_id*)

Destroy a list

**Parameters** **list\_id** – list ID number

**Returns** The destroyed list object

**Return type** *List*

**follow** (*user\_id*, *notify*=False)

Follow a user.

**Parameters**

- **user\_id** – ID of the user in question
- **notify** – whether to notify the user about the following

**Returns** user that are followed

**get\_list** (*list\_id*)

Get info of specified list

**Parameters** **list\_id** – list ID number

**Returns** *List* object

**get\_tweet** (*id*)

Get an existing tweet.

**Parameters** **id** – ID of the tweet in question

**Returns** Tweet object. None if not found

**get\_user** (*id*)

Get a user's info.

**Parameters** **id** – ID of the user in question

**Returns** User object. None if not found

**is\_list\_member** (*list\_id*, *user\_id*)

Check if a user is member of a list

**Parameters**

- **list\_id** – list ID number
- **user\_id** – user ID number

**Returns** `True` if user is member of list, `False` otherwise

**is\_subscribed\_list** (*list\_id, user\_id*)

Check if user is a subscribed of specified list

**Parameters**

- **list\_id** – list ID number
- **user\_id** – user ID number

**Returns** `True` if user is subscribed of list, `False` otherwise

**list\_members** (*list\_id*)

List users in a list

**Parameters** **list\_id** – list ID number

**Returns** list of *User* objects

**list\_subscribers** (*list\_id*)

List subscribers of a list

**Parameters** **list\_id** – list ID number

**Returns** *User* object

**list\_timeline** (*list\_id, since\_id=None, max\_id=None, count=20*)

List the tweets of specified list.

**Parameters**

- **list\_id** – list ID number
- **since\_id** – results will have ID greater than specified ID (more recent than)
- **max\_id** – results will have ID less than specified ID (older than)
- **count** – number of results per page

**Returns** list of *Tweet* objects

**lists** ()

List user's lists

**Returns** list of *List* objects

**lists\_memberships** ()

List lists which user was added

**Returns** list of *List* objects

**lists\_subscriptions** ()

List lists which user followed

**Returns** list of *List* objects

**remove\_list\_member** (*list\_id, user\_id*)

Remove a user from a list

**Parameters**

- **list\_id** – list ID number

- **user\_id** – user ID number

**Returns** *List* object

**remove\_tweet** (*id*)

Delete a tweet.

**Parameters** **id** – ID of the tweet in question

**Returns** True if success, False otherwise

**retweet** (*id*)

Retweet a tweet.

**Parameters** **id** – ID of the tweet in question

**Returns** True if success, False otherwise

**subscribe\_list** (*list\_id*)

Subscribe to a list

**Parameters** **list\_id** – list ID number

**Returns** *List* object

**tweepy\_api**

Get the actual client object.

**Returns** the actual client object

**tweet** (*text*, *in\_reply\_to=None*, *filename=None*, *file=None*)

Post a new tweet.

**Parameters**

- **text** – the text to post
- **in\_reply\_to** – The ID of the tweet to reply to
- **filename** – If *file* param is not provided, read file from this path
- **file** – A file object, which will be used instead of opening *filename*. *filename* is still required, for

MIME type detection and to use as a form field in the POST data :return: Tweet object

**unfollow** (*user\_id*)

Follow a user.

**Parameters** **user\_id** – ID of the user in question

**Returns** The user that were unfollowed

**unsubscribe\_list** (*list\_id*)

Unsubscribe to a list

**Parameters** **list\_id** – list ID number

**Returns** *List* object

**update\_list** (*list\_id*, *name=None*, *mode=None*, *description=None*)

Update a list

**Parameters**

- **list\_id** – list ID number
- **name** – New name for the list

- **mode** – 'public' (default) or 'private'
- **description** – New description of the list

**Returns** The updated list object

**Return type** *List*

## responsebot.models

Entity classes for various entity types for ResponseBot

### Classes

<i>Tweet</i> (data)	Represents a tweet.
<i>User</i> (data)	Represents a user.
<i>TweetFilter</i> ([track, follow])	Define criteria to filter tweets from Twitter's public stream.
<i>Event</i> (data)	Represent a user events (e.g.

**class** `responsebot.models.Event` (data)

Represent a user events (e.g. following, unfollowing, etc.). See more here and [here](#).

`__init__` (data)

**Parameters** **data** (*dictionary*) – Parsed JSON data

**class** `responsebot.models.List` (data)

Represent a user list.

`__init__` (data)

**Parameters** **data** (*dictionary*) – Parsed JSON data

**class** `responsebot.models.Tweet` (data)

Represents a tweet. E.g. you can get a tweet's text via it's `text` property (`tweet.text`). All properties except `retweeted_status`, `quoted_status`, `quoted_status_id_str`, `in_reply_to_status_id` and `in_reply_to_status_id_str` have the same name as Twitter defined them [here](#). `retweeted_status` is renamed to `retweeted_tweet`, similar for other properties above.

`__init__` (data)

**Parameters** **data** (*dictionary*) – Parsed JSON data

**class** `responsebot.models.TweetFilter` (track=[], follow=[])

Define criteria to filter tweets from Twitter's public stream. See *track* and *follow* parameters in [here](#).

`__init__` (track=[], follow=[])

**Parameters**

- **track** – A list of keywords to follow (each could also be a @mention or a #hashtag)
- **follow** – A list of user ID strings to follow

**Returns**

**match\_tweet** (tweet, user\_stream)

Check if a tweet matches the defined criteria

**Parameters** `tweet` (*Tweet*) – The tweet in question

**Returns** True if matched, False otherwise

**class** `responsebot.models.User` (*data*)

Represents a user. E.g. you can get a user's screen name via its `screen_name` property (`user.screen_name`). All properties except `status` have the same name as Twitter defined them [here](#). `status` is renamed to `tweet`.

**\_\_init\_\_** (*data*)

**Parameters** `data` (*dictionary*) – Parsed JSON data

## responsebot.common.exceptions

Exceptions and errors used by Tweet Bot

### Exceptions

<i>APIError</i>	Generic API error.
<i>APIQuotaError</i>	Exception indicate some API quota breached.
<i>AuthenticationError</i>	Error to indicate Tweet Bot failed to authenticate with the provided credentials.
<i>MissingConfigError</i>	Exception to indicate a required configuration for Tweet Bot is not found from config file or CLI.
<i>NotFreeToTweetError</i>	Error to indicate Tweeter fails to post some status due to Twitter API's status update rate limit.

**exception** `responsebot.common.exceptions.APIError`

Generic API error.

**exception** `responsebot.common.exceptions.APIQuotaError`

Exception indicate some API quota breached.

**exception** `responsebot.common.exceptions.AuthenticationError`

Error to indicate Tweet Bot failed to authenticate with the provided credentials.

**exception** `responsebot.common.exceptions.AutomatedRequestError`

Error to indicate a request is deemed automated by Twitter.

**exception** `responsebot.common.exceptions.CharacterLimitError`

Error to indicate your tweet reached the character limit.

**exception** `responsebot.common.exceptions.DailyStatusUpdateError`

Error to indicate your account reached the daily status update limit.

**exception** `responsebot.common.exceptions.MissingConfigError`

Exception to indicate a required configuration for Tweet Bot is not found from config file or CLI.

**exception** `responsebot.common.exceptions.NotFreeToTweetError`

Error to indicate Tweeter fails to post some status due to Twitter API's status update rate limit.

**exception** `responsebot.common.exceptions.OverCapacityError`

Error to indicate Twitter is currently over capacity.

**exception** `responsebot.common.exceptions.ResponseBotError`

Generic response bot error.

**exception** `responsebot.common.exceptions.StatusDuplicateError`

Error to indicate your status is a duplicate.

**exception** `responsebot.common.exceptions.UnknownAPIError`  
Unknown error when executing API.





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