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# Groupy Documentation

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The simple yet powerful wrapper for the GroupMe API.



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### 1.1 Introduction

#### 1.1.1 About GroupMe

GroupMe is a messaging app that allows you to create groups and have others join them with you. In addition to group messaging, fellow group members can be messaged directly. GroupMe is available for most platforms, lets you share links, images, and locations, and messages can be favorited (or “liked”). You can read more [about GroupMe](#), but the best part about it is that they provide an API!

The GroupMe API is documented, but there are some notable omissions. Many of the properties of groups and messages are not documented, and some features are only hinted at by the documentation. Regardless, all of the information about your groups, their members, their messages, you, and your bots can be obtained through the GroupMe API. You can [read the API documentation](#) for more (or less) detailed information.

#### 1.1.2 About Groupy

**Groupy** lets you forget about the GroupMe API and focus on what you need to get done!

It is composed of two main parts:

- API wrapper (`groupy.api`)
- Object abstraction (`groupy.object`)

#### Current Features

##### Groups

- Create, update, and destroy your own groups
- List and filter your current and former groups
- Add and remove members from your current groups
- List and filter group members
- List and filter group messages

### Members

- List and filter all known members
- List and filter direct messages
- Post direct messages to members

### Messages

- Collect all messages from a group or member
- Like and unlike messages (even direct messages!)
- List and filter members who liked a message
- Inspect and create attachments

### Bots

- List and filter your bots
- Use your bots to post messages
- Create, update, and destroy bots

### Users

- Get your user information
- Enable and disable SMS mode

### Planned Development

(in no particular order)

- Unit tests
- Installation via pip
- More direct way to add and remove yourself from groups
- Remove multiple members in one method call
- Porcelain for checking results of adding members
- Automatic updating of object attributes without the need to re-fetch objects
- Member objects that are aware of membership in all groups
- Additional ways to access objects
- More convenience methods instead of accessing API attributes directly
- Documentation about the API wrapper package
- Python 2.7 support



## 1.2 Installation

### 1.2.1 Prerequisites

To get started, you'll need to *get an account* at [Groupme.com](https://groupme.com).

Got it? Great!

Now you'll need to *obtain your access token* so you can make API requests:

1. Login to the [developer portal](#).
2. Click the “Bots” button on the top menu bar.
3. Click the “Click here to reveal” button.
4. Copy your access token.

You must also *create a key file*.

1. Paste your access token into a new file.
2. Save it as `.groupy.key` in your user's home directory.

Lastly, ensure you're running Python  $\geq 3$ ! Now you're ready to install Groupy!

### 1.2.2 Instructions

Below are instructions for various ways of performing installation.

#### Using `pip`

```
$ pip3 install GroupyAPI
```

#### From Source

##### Basic Steps

1. Download [Groupy from GitHub](#).
2. Copy the `groupy` directory (`Groupy/groupy`) into your package directory for Python3.

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**Note:** Your package directory may be elsewhere. For help determining the correct location, see [this StackOverflow question](#).

---

#### With `git`

If you have `git`, it's as easy as:

```
$ git clone https://github.com/rhgrant10/Groupy.git
$ cd Groupy
$ cp -r groupy /usr/lib/python3/dist-packages      # see note above
```

### Without git

If you don't have git installed, ask yourself [why?](#)

If you're satisfied with your answer to that question and you're still reading this section, fine. You don't *need* git. You can download it as a ZIP file.

- [master branch](#)
- [dev branch](#)

Installation is a simple matter of unzipping the file and copying over the groupy directory to your Python3 package directory.

```
$ wget https://github.com/rhgrant10/Groupy/archive/master.zip
$ unzip master.zip
$ cd Groupy-master
$ cp -r groupy /usr/lib/python3/dist-packages # see note above
```

### 1.2.3 Troubleshooting

Sometimes things go wrong. Here are some common things to check when encountering problems after installing.

*It says no such package when I import groupy...*

Check whether you copied the groupy package into the correct python package directory. It must be a directory on your `sys.path`.

*I get an unauthorized error when I try to do anything...*

Check whether your key file (`.groupy.key` by default) contains your API token, and that `groupy/config.py` contains a definition for `KEY_LOCATION` that correctly specifies the location and name of your key file.

## 1.3 Basic Usage

This page gives an overview of all but the most advanced features of **Groupy**.

First, you'll want to make sure that

- **Groupy** is *installed*
- **Groupy** can *find your API key*

See the [Installation](#) page for instructions. Now that that's out of the way, let's get started!

### 1.3.1 Listing Things

The most basic operation is listing things. [Groups](#), [Members](#), and [Bots](#) can be listed directly.

```
>>> import groupy
>>> groups = groupy.Group.list()
>>> members = groupy.Member.list()
>>> bots = groupy.Bot.list()
```

The object lists are returned as a `FilterList`. These behave just like the built-in `list` does with some convenient additions.

You can read more about the types of lists used by **Groupy** in the *Advanced Usage* section, but for the remainder of this page, the following truth should suffice.

```
>>> groups.first == groups[0]
True
>>> groups.last == groups[-1]
True
```

### 1.3.2 Groups

From a `Group`, you can list its `Members` and `Messages`.

```
>>> from groupy import Group
>>> groups = Group.list()
>>> group = groups.first
>>> messages = group.messages()
>>> members = group.members()
```

A group returns all of its members in a single list. So determining the number of members in a group should be a familiar task.

```
>>> len(members)
5
```

`Messages`, however, are a different matter. Since there may be thousands of messages in a group, messages are returned in pages. The default (and maximum) number of messages per page is 100. To determine the total number of messages in a group, simply access the `message_count` attribute. Additional pages of messages can be obtained using `older()` and `newer()`.

```
>>> len(messages)
100
>>> group.message_count
3014
>>> older = messages.older()
>>> newer = messages.newer()
```

There are also methods for collecting a newer or older page of messages into one list: `iolder()` and `inewer()`. An example of using the former to retrieve all messages in a group:

```
>>> from groupy import Group
>>> group = Group.list().first
>>> messages = group.messages()
>>> while messages.iolder():
...     pass
...
>>> len(messages) == group.message_count
True
```

Often you'll want to post a new message to a group. New messages can be posted to a group using its `post()` method.

```
>>> from groupy import Group
>>> group = Group.list().first
>>> group.post('Hello to you')
>>> group.messages().newest.text
'Hello to you'
```

---

**Note:** Posting a message does not affect `message_count`. However, retrieving any page of messages *does* update it.

---

Groups have many attributes, some of which can be changed.

```
>>> group.name
'My Family'
>>> group.image_url
'http://i.groupme.com/123456789'
>>> group.description
'Group of my family members - so we can keep up with each other.'
>>> group.update(name="My Group of Family Members")
>>> group.name
'My Group of Family Members'
>>> group.update(name="[old] Family Group", description="The old family group")
>>> group.name
'[old] Family Group'
>>> group.description
'The old family group'
```

Some Groups also have a `share_url` that others can visit to join the group.

```
>>> group.share_url
'https://groupme.com/join_group/1234567890/SHARE_TOKEN'
```

Beware that not every group is created with a share link, in which case the value of `share_url` would be `None`. However, this can be changed in the same way as other group information.

```
>>> print(group.share_url)
None
>>> group.update(share=True)
>>> group.share_url
'https://groupme.com/join_group/1234567890/SHARE_TOKEN'
```

---

**Note:** The `SHARE_TOKEN` is specific to each group's share link.

---

The remainder of a Groups attributes cannot be changed. Some of the more important attributes are shown below.

```
>>> group.group_id
'1234567890'
>>> group.creator_user_id
'0123456789'
>>> print(group.created_at)
2013-12-25 9:53:33
>>> print(group.updated_at)
2013-12-26 4:21:08
```

### 1.3.3 Messages

Unlike Groups, Members, and Bots, Messages *cannot* be listed directly. Instead, Messages are listed either from Group or Member instances.

To list the messages from a group, use a group's `messages()` method.

```
>>> from groupy import Group
>>> group = Group.list().first
>>> messages = group.messages()
```

To list the messages from a member, use a member's `messages()` method.

```
>>> from groupy import Member
>>> member = Member.list().first
>>> messages = member.messages()
```

Messages have several properties. Let's look at a few of them. Messages have a timestamp indicating when the message was created as a `datetime.datetime` instance, as well as information about the member who posted it. Of course, messages can have text and attachments.

```
>>> message = messages.newest
>>> print(message.created_at)
2014-4-29 12:19:05
>>> message.user_id
'0123456789'
>>> message.name
'Kevin'
>>> message.avatar_url
'http://i.groupme.com/123456789'
>>> message.text
'Hello'
>>> message.attachments
[Image(url='http://i.groupme.com/123456789')]
```

---

**Note:** Not every message will have text and not every message will have attachments but every message must have one or the other.

---

---

**Note:** Although the majority of messages will have just one attachment, there is no limit on the number of attachments. In fact, despite that most clients are incapable of displaying more than one of each type of attachment, the API doesn't limit the types of attachments in any way. For example, a single message might have two images, three locations, and one emoji, but it's not likely that any client would show them all or handle the message without error.

---

There are multiple types of messages. System messages are messages that are not sent by a member, but generated by member actions. Many things generate system messages, including membership changes (entering/leaving, adding/removing), group updates (name, avatar, etc.), and member updates (nickname, avatar, etc.), and changing the topic.

Additionally there are group messages and direct messages. Group messages are messages in a group, whereas direct messages are messages between two members.

Each message has a few properties that can be used to differentiate among the types.

```
>>> message.group_id
'1234567890'
>>> message.recipient_id
None
>>> message.system
False
```

In the above example, we can see that `message.system` is `False`, which indicates that the message was sent by a member, not the system. We can also see that although the message has a `message.group_id`, it does *not* have a `message.recipient_id`, which means it is a group message. Had it been a system message, `message.system` would have been `True`. Had it been a direct message, `message.group_id` would have been `None` and `message.recipient_id` would contain a valid user ID.

Lastly, each message contains a list of user IDs to indicate which members have “liked” it.

```
>>> message.favorited_by
['2345678901', '3456789012']
```

Because often more information about the member is desired, a list of actual `Member` instances can be retrieved using the `likes()` method.

```
>>> message.likes()
[Rob, Jennifer, Vlad]
```

Messages can also be liked and unliked.

```
>>> message.like()
True
>>> message.unlike()
True
```

---

**Note:** Currently, the message instance itself does **not** update its own attributes. You must re-fetch the message.

---

### 1.3.4 Members

`Member` instances represent other GroupMe users. Finding members can be accomplished in one of three ways.

Firstly, members may be listed from a group. This lists just the members of a particular group.

```
>>> from groupy import Group
>>> group = Group.list().first
>>> members = group.members()
```

Secondly, members may be listed from a message. This lists just the members who have “liked” a particular message.

```
>>> messages = group.messages()
>>> message = message.newest
>>> members = message.likes()
```

Lastly, *all* the members you’ve seen thus far can be listed directly.

```
>>> from groupy import Member
>>> members = Member.list()
```

---

**Note:** Although many attributes of a member are specific to a particular group, members listed in this fashion are taken from a single group with one exception: the nickname of each member listed from `list()` is the most frequent of the names that the member uses among the groups of which you are both members.

---

Each member has a user ID, a nickname, and a URL indicating their avatar image that are specific to the group from which the member was listed.

```
>>> member = members.first
>>> member.user_id
'0123456789'
>>> member.nickname
'Bill'
>>> member.avatar_url
'http://i.groupme.com/123456789'
```

Members have one more property of interest: `muted`. This indicates whether the member has that group muted.

```
>>> member1, member2 = members[:2]
>>> member1.muted
False
>>> member2.muted
True
```

Messaging a member and retrieving the messages between you and the member is done in the same way as when messaging a group.

```
>>> member.post("Hello")
>>> member.messages().newest.text
'Hello'
```

### 1.3.5 Groups and Members

Members can be added and removed from groups. Adding one or multiple members to a group is quite intuitive. The following examples assume that no one from `group1` is a member of `group2` (although the API doesn't care if you add a member who is already a member).

```
>>> from groupy import Group
>>> group1, group2 = Group.list()[:2]
>>> member = group1.members().first
>>> group2.add(member)
```

Multiple members can be added simultaneously as well. Suppose you wanted to add everyone from `group1` to `group2`.

```
>>> group2.add(*group1.members())
```

Removing members, however, must be done one at a time:

```
>>> for m in group2.members():
...     group2.remove(m)
...
```

### 1.3.6 GroupMe and You

One of the most basic pieces of information you'll want to obtain is your own! **Groupy** makes this very simple:

```
>>> from groupy import User
>>> your_info = User.get()
```

It contains your GroupMe profile/account information and settings:

```
>>> print(your_info.user_id)
12345678
>>> print(your_info.name)
Billy Bob <-- the MAN!
>>> print(your_info.image_url)
http://i.groupme.com/123456789
>>> print(your_info.sms)
False
>>> print(your_info.phone_number)
+1 5055555555
>>> print(your_info.email)
bb@example.com
```

It also contains some meta information:

```
>>> print(your_info.created_at)
2011-3-14 14:11:12
>>> print(your_info.updated_at)
2013-4-20 6:58:26
```

`created_at` and `updated_at` are returned as `datetime` objects.

### 1.3.7 Bots

Bots can be a useful tool because each has a callback URL to which every message in the group is POSTed. This allows your bot the chance to do... well, something (whatever that may be) in response to every message!

---

**Note:** Keep in mind that bots can only post messages to groups, so if anything else is going to get done, it'll be done by you, not your bot. That means adding and removing users, liking messages, direct messaging a member, and creating or modifying group will be done under your name.

---

Bot creation is simple. You'll need to give the bot a name and associate it with a specific group.

```
>>> from groupy import Bot, Group
>>> group = Group.list().first
>>> bot = Bot.create('R2D2', group)
```

`bot` is now the newly created bot and is ready to be used. If you want, you can also specify a callback URL (*recommended*), as well as an image URL to be used for the bot's avatar.

Just about the only thing a bot can do is post a message to a group. **Groupy** makes it easy:

```
>>> from groupy import Bot
>>> bot = Bot.list().first
>>> bot.post("I'm a bot!")
```

Note that the bot always posts its messages to the group in which it belongs. You can create multiple bots. Listing all of your bots is straightforward.

```
>>> from groupy import Bot
>>> bots = Bot.list()
```

Now `bots` contains a list of all of your bots.

## 1.4 Advanced Usage

This part of the documentation contains explanations and examples of more obscure aspects of **Groupy**.

### 1.4.1 Filter Lists

`FilterLists` are exactly like the built-in `list` but with some convenient additions.

#### `first` and `last`

`first` and `last` are merely convenience properties. `first` corresponds to the item at index 0, while `last` corresponds to the item at index -1.



```
>>> from groupy.object.listeners import FilterList
>>> fl = FilterList(range(1, 11))
>>> fl
[1, 2, 3, 4, 5, 6, 7, 8, 9, 10]
>>> fl.first
1
>>> fl.last
10
```

One important difference, however, is when there are no elements in the list.

```
>>> fl = FilterList()
>>> fl
[]
>>> print(fl.first)
None
>>> fl[0]
Traceback (most recent call last):
  File "<stdin>", line 1, in <module>
IndexError: list index out of range
>>> print(fl.last)
None
>>> fl[-1]
Traceback (most recent call last):
  File "<stdin>", line 1, in <module>
IndexError: list index out of range
```

Note that no exception is raised and None is returned instead.

### **filter()**

The `filter()` method parses its keyword arguments as filtering criteria. Only the items meeting all criteria are returned.

The keywords correspond to object properties, but also indicate how to test the relation to the value of the keyword argument. Thus a keyword-value pair such as `name='Bob'` would keep only those items with a `name` property equal to "Bob", whereas a pair like `age__lt=20` keeps only those items with an `age` property *less than* 20.

This is probably better explained with some simple examples.

```
>>> from groupy import Group
>>> groups = Group.list()
>>> for g in groups:
...     print(g.name)
...
My Family
DevTeam #6
Friday Night Trivia
>>> for g in groups.filter(name__contains='am'):
...     print(g.name)
My Family
DevTeam #6
>>>
>>> members = groups.first.members()
>>> for m in members:
...     print(m.nickname)
...
Dan the Man
```

```
Manuel
Fred
Dan
>>> for m in members.filter(nickname='Dan'):
...     print(m.nickname)
...
Dan
>>> for m in members.filter(nickname__contains='Dan'):
...     print(m.nickname)
...
Dan the Man
Dan
>>> for m in members.filter(nickname__ge='F'):
...     print(m.nickname)
...
Manuel
Fred
```

### 1.4.2 Attachments

Attachments are a common part of `Messages` and there are several different types. Currently, **Groupy** supports the following types of attachments:

- `Location` - for locations
- `Image` - for images
- `Mentions` - for “@” mentions
- `Emoji` - for emoticons
- `Split` - for splitting bills<sup>1</sup>

For all other types of attachments (such as those introduced in the future) there exists a `GenericAttachment`.

#### Types

The section covers the various types of attachments and how to create them.

#### Locations

`Location` attachments are the simplest of all attachment types. Each includes a name, a latitude `lat`, and a longitude `lng`. Some location attachments also contain a `foursquare_venue_id`.

```
>>> from groupy import attachments
>>> loc = attachments.Location('My house', lat=34, lng=-84)
>>> loc
Location('My house', lat=34, lng=-84)
>>> loc.name
'My house'
>>> loc.lat, loc.lng
(34, -84)
```

---

<sup>1</sup> Split attachments are depreciated.

## Images

`Image` attachments are unique in that they do not actually contain the image data. Instead, they specify the URL from which you can obtain the actual image. To create a new image from a local file object, use the `file()` method.

```
>>> from groupy import attachments
>>> image_attachment = attachments.Image.file(open(filename, 'rb'))
>>> image_attachment
Image(url='http://i.groupme.com/123456789')
>>> image_attachment.url
'http://i.groupme.com/123456789'
```

We can see that the image has been uploaded in exchange for a URL via the GroupMe image service.

To fetch the actual image from an image attachment, simply use its `download()` method. The image is returned as a `Pillow Image`, so saving it to a file is simple.

```
>>> image_file = image_attachment.download()
>>> image_file.save(filename)
```

## Mentions

`Mentions` are a new type of attachment and have yet to be documented. However, they are simple to understand. Mentions capture the details necessary to highlight “@” mentions of members in groups. They contain a list of `loci` and an equal-sized list of `user_ids`. Let’s find a good example to demonstrate mentions.

```
>>> from groupy import Group
>>> message = None
>>> mention = None
>>> for g in Group.list():
...     for m in g.messages():
...         for a in m.attachments:
...             if a.type == 'mentions' and len(a.user_ids) > 1:
...                 message = m
...                 mention = a
...                 break
>>> message.text
'@Bill hey I saw you with @Zoe Childs at the park!'
>>> mention.user_ids
['1234567', '5671234']
>>> mention.loci
[[0, 5], [25, 11]]
```

As you can see, each element in `loci` has two integers, the first of which indicates the starting index of the mentioning text, while second indicates its length. The strings in `user_ids` correspond *by index* to the elements in `loci`. You can use the `loci` to extract the mentioning portion of the text, as well as obtain the mentioned member via `user_ids`.

```
>>> for uid, (start, length) in zip(mention.user_ids, mention.loci):
...     end = start + length
...     uid, message.text[start:end]
...     member = message.group.members().filter(user_id=uid).first
...     member.uid, member.nickname
('1234567', '@Bill')
('1234567', 'Bill')
('5671234', '@Zoe Childs')
('5671234', 'Zoe Childs')
```

To create a mention, simply pass in a `list` of user IDs and an equally-sized `list` of loci.

```
>>> from groupy.attachments import Mentions
>>> Mentions(['1234567', '2345671'], [[0, 4], [5, 3]])
Mentions(['1234567', '2345671'])
```

### Emojis

Emojis are relatively undocumented but frequently appear in messages. More documentation will come as more is learned.

Emoji attachments have a `placeholder` and a `charmap`. The `placeholder` is a high-point or unicode character designed to mark the location of the emoji in the text of the message. The `charmap` serves as some sort of translation or lookup tool for obtaining the actual emoji.

### Splits

---

**Note:** This type of attachment is depreciated. They were part of GroupMe's bill splitting feature that seems to no longer be implemented in their clients. **Groupy**, however, still supports them due to their presence in older messages.

---

`Split` attachments have a single attribute: `token`.

### Sending Attachments

To send an attachment along with a message, simply append it to the `post()` method as another argument.

```
>>> from groupy import Group
>>> from groupy.attachment import Location
>>> loc = Location.create('My house', lat=33, lng=-84)
>>> group = Group.list().first
>>> group.post("Hey meet me here", loc)
```

If there are several attachments you'd like to send in a single message, simply keep appending them!

```
>>> from groupy.attachment import Image
>>> img = Image.file('front-door.png')
>>> group.post("I said meet me here!", loc, img)
```

Alternatively, you can collect multiple attachments into an `iterable`.

```
>>> attachments = [img, loc]
>>> group.post("Are you listening?", *attachments)
```

## 1.5 Developer Docs

This section of the documentation is for other developers, and contains the complete information about each package, module, class, and method.

### 1.5.1 The `api` Package

This module is a direct wrapper around GroupMe API calls.

## The `api.endpoint` Module

**class** `groupy.api.endpoint.Bots`

Endpoint for the bots API.

Bots can be listed, created, updated, and destroyed. Bots can also post messages to groups.

**classmethod** `create` (*name*, *group\_id*, *avatar\_url=None*, *callback\_url=None*)

Create a new bot.

**Parameters**

- **name** (*str*) – the name of the bot
- **group\_id** (*str*) – the ID of the group to which the bot will belong
- **avatar\_url** (*str*) – the GroupMe image URL for the bot's avatar
- **callback\_url** (*str*) – the callback URL for the bot

**Returns** the new bot

**Return type** `dict`

**classmethod** `destroy` (*bot\_id*)

Destroy a bot.

**Parameters** **bot\_id** (*str*) – the ID of the bot to destroy

**classmethod** `index` ()

List bots.

**Returns** a list of bots

**Return type** `list`

**classmethod** `post` (*bot\_id*, *text*, *picture\_url=None*)

Post a message to a group as a bot.

**Parameters**

- **bot\_id** (*str*) – the ID of the bot
- **text** (*str*) – the message text
- **picture\_url** (*str*) – the GroupMe image URL for a picture

**Returns** the created message

**Return type** `dict`

**class** `groupy.api.endpoint.DirectMessages`

Endpoint for the direct message API.

**classmethod** `create` (*recipient\_id*, *text*, *\*attachments*)

Create a direct message to a recipient user.

**Parameters**

- **recipient\_id** (*str*) – the ID of the recipient
- **text** (*str*) – the message text
- **attachments** (*list*) – a list of attachments to include

**Returns** the created direct message

**Return type** `dict`

**classmethod** `index` (*other\_user\_id*, *before\_id=None*, *since\_id=None*, *after\_id=None*)

List the direct messages with another user.

**Parameters**

- **other\_user\_id** (*str*) – the ID of the other party
- **before\_id** (*str*) – a reference message ID; specify this to list messages prior to it

**Returns** a list of direct messages

**Return type** `list`

**class** `groupy.api.endpoint.Endpoint`

An API endpoint capable of building a url and extracting data from the response.

This class serves as the base class for all of the API endpoints.

**classmethod** `build_url` (*path=None*, *\*args*)

Build and return a url extended with *path* and filled in with *args*.

**Parameters**

- **path** (*str*) – a suffix for the final URL. If *args* are present, this should be a python format string pertaining to the given *args*.
- **args** (*list*) – a list of arguments for the format string *path*.

**Returns** a complete URL

**Return type** `str`

**static** `clamp` (*value*, *lower*, *upper*)

Utility method for clamping a *value* between a *lower* and an *upper* value.

**Parameters**

- **value** – the value to clamp
- **lower** – the “smallest” possible value
- **upper** – the “largest” possible value

**Returns** *value* such that `lower <= value <= upper`

**classmethod** `response` (*r*)

Extract the data from the API response *r*.

This method essentially strips the actual response of the envelope.

**Parameters** **r** (`requests.Response`) – the HTTP response from an API call

**Returns** API response data

**Return type** `JSON`

**class** `groupy.api.endpoint.Groups`

Endpoint for the groups API.

Groups can be listed, loaded, created, updated, and destroyed.

**classmethod** `create` (*name*, *description=None*, *image\_url=None*, *share=True*)

Create a new group.

**Parameters**

- **name** (*str*) – the name of the new group
- **description** (*str*) – the description of the new group

- **image\_url** (*str*) – the group avatar image as a GroupMe image URL
- **share** (*bool*) – whether to generate a join link for the group

**Returns** the new group

**Return type** `dict`

**classmethod** **destroy** (*group\_id*)

Destroy (or leave) a group.

---

**Note:** If you are not the owner of a group, you can not destroy it.

---

**Parameters** **group\_id** (*str*) – the ID of the group to destroy/leave

**classmethod** **index** (*page=1, per\_page=500, former=False*)

Return a list of groups.

**Parameters**

- **page** (*int*) – the page of groups to return
- **per\_page** (*int*) – the number of groups in the page
- **former** (*bool*) – whether to list former groups instead

**Returns** a list of groups

**Return type** `list`

**classmethod** **show** (*group\_id*)

Return a specific group by its *group\_id*.

**Parameters** **group\_id** (*str*) – the ID of the group to show.

**Returns** the group with the given *group\_id*

**Return type** `dict`

**classmethod** **update** (*group\_id, name=None, description=None, share=None, image\_url=None*)

Update the information for a group.

**Parameters**

- **group\_id** (*str*) – the ID of the group to update
- **name** (*str*) – the new name of the group
- **description** (*str*) – the new description of the group
- **share** (*bool*) – whether to generate a join link for the group
- **image\_url** (*str*) – the GroupMe image URL for the new group avatar.

**Returns** the modified group

**Return type** `dict`

**class** `groupy.api.endpoint.Images`

Endpoint for the image service API.

GroupMe images are created through an upload service that returns a URL at which it can be accessed.

**classmethod** **create** (*image*)

Submit a new image.

**Parameters** **image** (*file*) – object with a file-like interface and containing an image

**Returns** the URL at which the image can be accessed

**Return type** `dict`

**classmethod** `response` (*r*)

Extract the data from the image service API response *r*.

This method basically returns the inner “payload.”

**Parameters** *r* (`requests.Response`) – the HTTP response from an API call

**Returns** API response data

**Return type** `json`

**class** `groupy.api.endpoint.Likes`

Endpoint for the likes API.

Likes can be created or destroyed.

---

**Note:** The `conversation_id` is poorly documented. For messages in a group, it corresponds to the `group_id` (or `id` since they seem to always be identical). For direct messages, it corresponds to the `user_id` of both conversation participants sorted lexicographically and concatenated with a plus sign (“+”).

---

**classmethod** `create` (*conversation\_id*, *message\_id*)

Like a message.

**Parameters**

- **conversation\_id** (*str*) – the ID of the group or recipient
- **message\_id** (*str*) – the ID of the message

**classmethod** `destroy` (*conversation\_id*, *message\_id*)

Unlike a message.

**Parameters**

- **conversation\_id** (*str*) – the ID of the group or recipient
- **message\_id** (*str*) – the ID of the message

**class** `groupy.api.endpoint.Members`

Endpoint for the members API.

Members can be added and removed from a group, and the results of adding members can be obtained.

**classmethod** `add` (*group\_id*, *\*members*)

Add one or more members to a group.

**Parameters**

- **group\_id** (*str*) – the ID of the group to which the members should be added
- **members** (*list*) – the members to add.

**Returns** the results ID for this request

**Return type** `dict`

**classmethod** `remove` (*group\_id*, *member\_id*)

Remove a member from a group.

**Parameters**

- **group\_id** (*str*) – the ID of the group from which the member should be removed



- **member\_id** (*str*) – the ID of the member to remove

**classmethod results** (*group\_id*, *result\_id*)

Check the result of adding one or more members.

**Parameters**

- **group\_id** (*str*) – the ID of the group to which the add call was made
- **result\_id** (*str*) – the GUID returned by the add call

**Returns** the successfully added members

**Return type** `list`

**class** `groupy.api.endpoint.Messages`

Endpoint for the messages API.

Messages can be listed and created.

**classmethod create** (*group\_id*, *text*, *\*attachments*)

Create a new message in a group.

All messages must have either text or one attachment. Note that while the API provides for an unlimited number of attachments, most clients can only handle one of each attachment type (location, image, split, or emoji).

**Parameters**

- **group\_id** (*str*) – the ID of the group in which to create the message
- **text** (*str*) – the text of the message
- **attachments** (*list*) – a list of attachments to include

**Returns** the created message

**Return type** `dict`

**classmethod index** (*group\_id*, *before\_id=None*, *since\_id=None*, *after\_id=None*, *limit=100*)

List the messages from a group.

Listing messages gives the most recent 100 by default. Additional messages can be obtained by specifying a reference message, thereby facilitating paging through messages.

Use *before\_id* and *after\_id* to “page” through messages. *since\_id* is odd in that it returns the *most recent* messages since the reference message, which means there may be messages missing between the reference message and the oldest message in the returned list of messages.

---

**Note:** Only one of *before\_id*, *after\_id*, or *since\_id* can be specified in a single call.

---

**Parameters**

- **group\_id** (*str*) – the ID of the group from which to list messages
- **before\_id** (*str*) – a reference message ID; specify this to list messages just prior to it
- **since\_id** (*str*) – a reference message ID; specify this to list the *most recent* messages after it (**not** the messages right after the reference message)
- **after\_id** (*str*) – a reference message ID; specifying this will return the messages just after the reference message
- **limit** (*int*) – a limit on the number of messages returned (between 1 and 100 inclusive)

**Returns** a `dict` containing `count` and `messages`

**Return type** `dict`

**class** `groupy.api.endpoint.Sms`

Endpoint for the SMS API.

SMS mode can be enabled or disabled.

**classmethod** `create` (*duration=4, registration\_id=None*)

Enable SMS mode.

**Parameters**

- **duration** (*int*) – duration of SMS mode in hours (max of 48)
- **registration\_id** (*str*) – the push registration\_id or token to suppress (if omitted, SMS and push notifications will both be enabled)

**classmethod** `delete` ()

Disable SMS mode.

**class** `groupy.api.endpoint.Users`

Endpoint for the users API.

**classmethod** `me` ()

Get the user's information.

**Returns** the user's information

**Return type** `dict`

## The `api.errors` Module

The `error` module contains all of the exceptions thrown by the GroupMe API.

**exception** `groupy.api.errors.GroupMeError`

A general GroupMe error.

**exception** `groupy.api.errors.InvalidOperatorError`

Error thrown when an unsupported filter is used.

**exception** `groupy.api.errors.InvalidResponseError`

Error representing an unparseable response from the API.

## The `api.status` Module

The `status` module contains API response status code constants and a method that returns the textual description of such a constant.

`groupy.api.status.OK = 200`

Success

`groupy.api.status.CREATED = 201`

Resource was created successfully

`groupy.api.status.NO_CONTENT = 204`

Resource was deleted successfully

`groupy.api.status.NOT_MODIFIED = 304`

There was no new data to return

`groupy.api.status.BAD_REQUEST = 400`

Invalid format or invalid data is specified in the request

```
groupy.api.status.UNAUTHORIZED = 401
    Authentication credentials were missing or incorrect

groupy.api.status.FORBIDDEN = 403
    The request was understood, but it has been refused

groupy.api.status.NOT_FOUND = 404
    The URI requested is invalid or the requested resource does not exist

groupy.api.status.ENHANCE_YOUR_CLAIM = 420
    You are being rate limited

groupy.api.status.INTERNAL_SERVER_ERROR = 500
    Something unexpected occurred

groupy.api.status.BAD_GATEWAY = 502
    GroupMe is down or being upgraded

groupy.api.status.SERVICE_UNAVAILABLE = 503
    The GroupMe servers are up but overloaded with requests

groupy.api.status.description(code)
    Return the text description for a code.

    Parameters code (int) – the HTTP status code
    Returns the text description for the status code
    Return type str
```

## 1.5.2 The object Package

This module abstracts the objects returned by GroupMe API calls.

### The object.responses Module

This module contains classes that encapsulate the information returned in API responses.

```
class groupy.object.responses.Recipient(endpoint, mkey, idkey, **kwargs)
    Base class for Group and Member.
```

Recipients can post and receive messages.

#### Parameters

- **endpoint** (*Endpoint*) – the API endpoint for messages
- **mkey** (*str*) – the *dict* key under which the endpoint returns messages
- **idkey** (*str*) – the *dict* key whose value represents the key for posting and retrieving messages

```
messages(before=None, since=None, after=None, limit=None)
    Return a page of messages from the recipient.
```

#### Parameters

- **before** (*str*) – a reference message ID
- **since** (*str*) – a reference message ID
- **after** (*str*) – a reference message ID

- **limit** (*int*) – maximum number of messages to include in the page

**Returns** a page of messages

**Return type** `MessagePager`

**post** (*text*, *\*attachments*)

Post a message to the recipient.

Although the API limits messages to 450 characters, this method will split the text component into as many as necessary and include the attachments in the final message. Note that a list of messages sent is always returned, even if it contains only one element.

**Parameters**

- **text** (*str*) – the message text
- **attachments** (*list*) – the attachments to include

**Returns** a list of raw API responses (sorry!)

**Return type** `list`

**class** `groupy.object.responses.Group` (*\*\*kwargs*)

A GroupMe group.

**add** (*\*members*)

Add a member to a group.

Each member can be either an instance of `Member` or a `dict` containing `nickname` and one of `email`, `phone_number`, or `user_id`.

**Parameters** **members** (*list*) – members to add to the group

**Returns** the results ID of the add call

**Return type** `str`

**classmethod** **create** (*name*, *description=None*, *image\_url=None*, *share=True*)

Create a new group.

**Parameters**

- **name** (*str*) – the group name
- **description** (*str*) – the group description
- **image\_url** (*str*) – the GroupMe image service URL for a group avatar
- **share** (*bool*) – whether to generate a join link

**Returns** the newly created group

**Return type** `Group`

**destroy** ()

Disband (destroy) a group that you created.

**classmethod** **list** (*former=False*)

List all of your current or former groups.

**Parameters** **former** (*bool*) – True if former groups should be listed, False (default) lists current groups

**Returns** a list of groups

**Return type** `FilterList`

**members** ()

Return a list of the members in the group.

**Returns** the members of the group

**Return type** `FilterList`

**refresh** ()

Refresh the group information from the API.

**remove** (*member*)

Remove a member from the group.

**Parameters** **member** (`Member`) – the member to remove

**Returns** `True` if successful, `False` otherwise

**Return type** `bool`

**update** (*name=None, description=None, image\_url=None, share=None*)

Change group information.

**Parameters**

- **name** (*str*) – the new name of the group
- **description** (*str*) – the new description of the group
- **image\_url** (*str*) – the URL for the new group image
- **share** (*bool*) – whether to generate a share URL

**class** `groupy.object.responses.Member` (\*\*kwargs)

A GroupMe member.

**identification** ()

Return the identification of the member.

A member is identified by their `nickname` and `user_id` properties. If the member does not yet have a GUID, a new one is created and assigned to them (and is returned alongside the `nickname` and `user_id` properties).

**Returns** the `nickname`, `user_id`, and `guid` of the member

**Return type** `dict`

**classmethod** **identify** (*member*)

Return or create an identification for a member.

Member identification is required for adding them to groups. If member is a `dict`, it must contain the following keys:

- `nickname`
- `user_id` or `email` or `phone_number`

If an identification cannot be created then raise an `ValueError`.

**Parameters** **member** – either a `Member` or a `dict` with the required keys

**Returns** the identification of member

**Return type** `dict`

**Raises** `ValueError` if an identification cannot be made

**classmethod** **list** ()

List all known members regardless of group membership.

**Returns** a list of all known members

**Return type** `FilterList`

**class** `groupy.object.responses.Message` (*recipient*, *\*\*kwargs*)  
A GroupMe message.

**Parameters** *recipient* (`Recipient`) – the reciever of the message

**is\_from\_me** ()

Return True if the message was sent by you.

**is\_liked\_by\_me** ()

Return True if the message was liked by you.

**like** ()

Like the message.

**Returns** True if successful, False otherwise

**Return type** `bool`

**likes** ()

Return a `FilterList` of the members that like the message.

**Returns** a list of the members who “liked” this message

**Return type** `FilterList`

**mentions\_me** ()

Return True if the message “@” mentions you.

**recipient**

Return the source of the message.

If the message is a direct message, this returns a member. Otherwise, it returns a group.

**Returns** the source of the message

**Return type** `Recipient`

**unlike** ()

Unlike the message.

**Returns** True if successful, False otherwise

**Return type** `bool`

**class** `groupy.object.responses.Bot` (*\*\*kwargs*)  
A GroupMe bot.

Each bot belongs to a single group. Messages posted by the bot are always posted to the group to which the bot belongs.

**classmethod** **create** (*name*, *group*, *avatar\_url=None*, *callback\_url=None*)  
Create a new bot.

**Parameters**

- **name** (*str*) – the name of the bot
- **group** (`Bot`) – the group to which the bot will belong
- **avatar\_url** (*str*) – the URL for a GroupMe image to be used as the bot’s avatar
- **callback\_url** (*str*) – the URL to which each group message will be POSTed

**Returns** the new bot

**Return type** `Bot`

**destroy** ()

Destroy the bot.

**Returns** `True` if successful, `False` otherwise

**Return type** `bool`

**classmethod list** ()

Return a list of your bots.

**Returns** a list of your bots

**Return type** `FilterList`

**post** (*text*, *picture\_url=None*)

Post a message to the group of the bot.

**Parameters**

- **text** (*str*) – the message text
- **picture\_url** (*str*) – the GroupMe image URL for an image

**Returns** `True` if successful, `False` otherwise

**Return type** `bool`

**class** `groupy.object.responses.User` (\*\*kwargs)

A GroupMe user.

This is you, as determined by your API key.

**classmethod disable\_sms** ()

Disable SMS mode.

Disabling SMS mode causes push notifications to resume and SMS text messages to be discontinued.

**Returns** `True` if successful, `False` otherwise

**Return type** `bool`

**classmethod enable\_sms** (*duration=4*, *registration\_token=None*)

Enable SMS mode.

Each client has a unique registration token that allows it to receive push notifications. Enabling SMS mode causes GroupMe to suppress those push notification and send SMS text messages instead for a number of hours no greater than 48.

---

**Note:** If the `registration_token` is omitted, no push notifications will be suppressed and the user will receive *both* text messages *and* push notifications.

---

**Parameters**

- **duration** (*int*) – the number of hours for which to send text messages
- **registration\_token** (*str*) – the push notification token for which messages should be suppressed

**Returns** `True` if successful, `False` otherwise

**Return type** `bool`

**classmethod** `get ()`

Return your user information.

**Returns** your user information

**Return type** `dict`

**nickname**

Your user name.

## The `object.attachments` Module

This module contains classes for the different types of attachments.

**class** `groupy.object.attachments.Attachment (type)`  
Base class for attachments.

**Parameters** `type (str)` – the type of the attachment

**as\_dict ()**

Return the attachment as a dictionary.

**Returns** the attachment as a dictionary

**Return type** `dict`

**class** `groupy.object.attachments.AttachmentFactory`  
A factory for creating attachments from dictionaries.

**classmethod** `create (**kwargs)`

Create and return an attachment.

**Parameters** `type (str)` – the type of attachment to create; if unrecognized, a generic attachment is returned

**Returns** a subclass of `Attachment`

**class** `groupy.object.attachments.Emoji (placeholder, charmap)`  
An attachment containing emoticons.

Emoji attachments do not contain any emoticon images. Instead, a placeholder specifies the location of the emoticon in the text, and a `charmap` facilitates translation into the emoticons.

**Parameters**

- **placeholder (str)** – a high-point/invisible character indicating the position of the emoticon
- **charmap (list)** – a list of lists containing pack IDs and offsets

**class** `groupy.object.attachments.GenericAttachment (type, **kwargs)`  
A generic attachment.

This attachment accepts any keyword arguments, but must be given a particular type.

**Parameters** `type (str)` – the type of attachment

**class** `groupy.object.attachments.Image (url, source_url=None)`  
An image attachment.

Image attachments do not contain an image. Instead, they specify a URL from which the image can be downloaded and must have a domain of “i.groupme.com”. Such URLs are known as “i” URLs, and are from the GroupMe image service.

---

**Note:** Use the direct initializer *if and only if* the image already has a known GroupMe image service URL.



Otherwise, use the `file()` method.

#### Parameters

- **url** (*str*) – the URL at which the image can be fetched from the GroupMe image service
- **source\_url** (*str*) – the original URL of the image (optional)

#### **download()**

Download the image data of the image attachment.

**Returns** the actual image the image attachment references

**Return type** `PIL.Image.Image`

#### **classmethod file** (*image*)

Upload an image file and return it as an attachment.

**Parameters** **image** (*file*) – the file containing the image data

**Returns** an image attachment

**Return type** `Image`

**class** `groupy.object.attachments.Location` (*name, lat, lng, foursquare\_venue\_id=None*)

An attachment that specifies a geo-location.

In addition to latitude and longitude, every location attachment also specifies a name. Some (especially older) location attachments also contain a `foursquare_venue_id` attribute.

#### Parameters

- **name** (*str*) – the location name
- **lat** (*float*) – the latitude
- **lng** (*float*) – the longitude
- **foursquare\_venue\_id** (*str*) – the FourSquare venue ID (optional)

**class** `groupy.object.attachments.Mentions` (*user\_ids, loci=None*)

An attachment that specifies “@” mentions.

Mentions are a new addition to the types of attachments. Each contains two parallel lists: `user_ids` and `loci`. The elements in `loci` specify the start index and length of the mention, while the elements in `user_ids` specify by `user_id` which user was mentioned in the corresponding element of `loci`.

---

**Note:** The length of `user_ids` must be equal to the length of `loci`!

---

#### Parameters

- **user\_ids** (*list*) – a list of user IDs
- **loci** (*list*) – a list of (`start`, `length`) elements

**class** `groupy.object.attachments.Split` (*token*)

An attachment containing information for splitting a bill.

This type of attachment is deprecated. However, such attachments are still present in older messages.

**Parameters** **token** (*str*) – the token that splits the bill

## The `object.listeners` Module

**class** `groupy.object.listeners.FilterList`

A filterable list.

Acts just like a regular `list`, except it can be filtered using a special keyword syntax. Also, the first and last items are special properties.

**filter** (*\*\*kwargs*)

Filter the list and return a new instance.

Arguments are keyword arguments only, and can be appended with operator method names to indicate relationships other than equals. For example, to filter the list down to only items whose `name` property contains “ie”:

```
new_list = filter_list.filter(name__contains='ie')
```

As another example, this filters the list down to only those with a `created` property that is less than 1234567890:

```
new_list = filter_list.filter(created__lt=1234567890)
```

Acceptable operators are:

- `__lt`: less than
- `__gt`: greater than
- `__contains`: contains
- `__eq`: equal to
- `__ne`: not equal to
- `__le`: less than or equal to
- `__ge`: greater than or equal to

Use of any operator listed here results in a `InvalidOperatorError`.

**Returns** a new list with potentially less items than the original

**Return type** `FilterList`

**first**

The first element in the list.

**last**

The last element in the list.

**class** `groupy.object.listeners.MessagePager` (*group, messages, backward=False*)

A filterable, extendable page of messages.

**Parameters**

- **group** (`Group`) – the group from which to page through messages
- **messages** (*list*) – the initial page of messages
- **backward** (*bool*) – whether the oldest message is at index 0

**inewer** ()

Add in-place the next (newer) page of messages.

**Returns** `True` if successful, `False` otherwise

**Return type** `bool`

**iolder()**

Add in-place the previous (older) page of messages.

**Returns** True if successful, False otherwise

**Return type** bool

**newer()**

Return the next (newer) page of messages.

**Returns** a newer page of messages

**Return type** MessagePager

**newest**

Return the newest message in the list.

**Returns** the newest message in the list

**Return type** Message

**older()**

Return the previous (older) page of messages.

**Returns** an older page of messages

**Return type** MessagePager

**oldest**

Return the oldest message in the list.

**Returns** the oldest message in the list

**Return type** Message

**prepend(messages)**

Prepend a list of messages to the list.

**Parameters** messages (*list*) – the messages to prepend

### 1.5.3 The config Module

The config module contains all the configuration options.

`groupy.config.API_URL = 'https://api.groupme.com/v3'`

The URL for the GroupMe API

`groupy.config.IMAGE_API_URL = 'https://image.groupme.com'`

The URL for the GroupMe Image Service API

`groupy.config.KEY_LOCATION = '~/.groupy.key'`

Full path to the file in which your access token can be found

## 1.6 Change Log

### 1.6.1 v0.5.3 (September 19, 2014)

- Fix packaging bug that caused inner packages to not be installed via *pip3*

## 1.6.2 v0.5.2 (September 14, 2014)

- Now installable via *pip3*:

```
$ pip3 install GroupyAPI
```

## 1.6.3 v0.5.1 (August 25, 2014)

### *Groups*

- Added a class method for creating a new group
- Added an instance method for destroying a group

### *Members*

- Fixed member identification on dictionaries

### *User*

- Fixed the enable/disable SMS methods (now class methods as they should be)

### *Documentation*

- Added some module docstrings
- Added API docs for all attachment classes
- Added docs for split attachments
- Moved FilterList docs into the Advanced Usage section
- Rewrote API docs for enabling SMS mode
- Fixed bad sphinx references
- Fixed typos
- Added miscellaneous sections to the README
- Updated feature list

## 1.6.4 v0.5.0 (August 20, 2014)

- Added support for downloading the image of an image attachment
- Reorganized modules and project structure
- Updated documentation

## 1.6.5 v0.4.0 (August 18, 2014)

- Added ability to list all known members
- Re-wrote attachments classes

## 1.6.6 v0.3.1 (August 14, 2014)

- Fixed bug when adding members to a group
- Many additions to the documentation

### 1.6.7 v0.3.0 (August 12, 2014)

- Added post and messages methods to members
- Added after\_id parameter for direct messages
- Fixed liking and unliking direct messages
- Fixed listing former groups
- Fixed group lists being limited to a max of 500 items
- Documentation now available on [Read the Docs!](#)

### 1.6.8 v0.2.0 (August 11, 2014)

- Added MessagePager class for returning lists of messages

### 1.6.9 v0.1.3 (August 10, 2014)

- Added attachment class
- Added basic documentation
- Fixed the automatic splitting of long texts
- Fixed invalid response error issue

### 1.6.10 v0.1.0 (August 9, 2014)

- Initial release



---

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