
yagmail Documentation

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yagmail is a GMAIL/SMTP client that aims to make it as simple as possible to send emails.

This page displays a full reference of *yagmail*'s API.

1.1 Authentication

`yagmail.register` (*username*, *password*)

Use this to add a new gmail account to your OS' keyring so it can be used in *yagmail*

Another way of authenticating is by passing an `oauth2_file` to `yagmail.SMTP`, which is among the safest methods of authentication. Please see the [OAuth2](#) section of the [README](#) for further details.

It is also possible to simply pass the password to `yagmail.SMTP`. If no password is given, *yagmail* will prompt the user for a password and then store the result in the keyring.

1.2 SMTP Client

```
class yagmail.SMTP (user=None, password=None, host='smtp.gmail.com', port=None,
                    smtp_starttls=None, smtp_ssl=True, smtp_set_debuglevel=0,
                    smtp_skip_login=False, encoding='utf-8', oauth2_file=None,
                    soft_email_validation=True, **kwargs)
```

`yagmail.SMTP` is a magic wrapper around `smtpplib`'s SMTP connection, and allows messages to be sent.

```
close ()
```

Close the connection to the SMTP server

```
feedback (message='Awesome features! You made my day! How can I contribute?')
```

Most important function. Please send me feedback :-)

```
send (to=None, subject=None, contents=None, attachments=None, cc=None, bcc=None,
        preview_only=False, headers=None, prettify_html=True, message_id=None,
        group_messages=True)
```

Use this to send an email with gmail

send_unsent ()

Emails that were not being able to send will be stored in `self.unsent`. Use this function to attempt to send these again

set_logging (log_level=40, file_path_name=None)

This function allows to change the logging backend, either output or file as backend It also allows to set the logging level (whether to display only critical/error/info/debug. for example:

```
yag = yagmail.SMTP()
yag.set_logging(yagmail.logging.DEBUG) # to see everything
```

and:

```
yagmail.set_logging(yagmail.logging.DEBUG, 'somalocalfile.log')
```

lastly, a `log_level` of `None` will make sure there is no I/O.

1.3 E-Mail Contents

class yagmail.raw

Ensure that a string is treated as text and will not receive ‘magic’.

class yagmail.inline

Only needed when wanting to inline an image rather than attach it

1.4 Exceptions

Contains the exceptions

exception yagmail.error.YagAddressError

This means that the address was given in an invalid format. Note that From can either be a string, or a dictionary where the key is an email, and the value is an alias {‘sample@gmail.com’, ‘Sam’}. In the case of ‘to’, it can either be a string (email), a list of emails (email addresses without aliases) or a dictionary where keys are the email addresses and the values indicate the aliases. Furthermore, it does not do any validation of whether an email exists.

exception yagmail.error.YagConnectionClosed

The connection object has been closed by the user. This object can be used to send emails again after logging in, using `self.login()`.

exception yagmail.error.YagInvalidEmailAddress

Note that this will only filter out syntax mistakes in emailaddresses. If a human would think it is probably a valid email, it will most likely pass. However, it could still very well be that the actual emailaddress has simply not be claimed by anyone (so then this function fails to devalidate).

1.5 Utilities

yagmail.validate.validate_email_with_regex (email_address)

Note that this will only filter out syntax mistakes in emailaddresses. If a human would think it is probably a valid email, it will most likely pass. However, it could still very well be that the actual emailaddress has simply not be claimed by anyone (so then this function fails to devalidate).

This page shows you how to install `yagmail` and how to set it up to use your system keyring service.

2.1 Installing from PyPI

The usual way of installing `yagmail` is through PyPI. It is recommended to install it together with the `keyring` library, by running the following (for Python 2.x and 3.x respectively):

```
pip install yagmail[all]
pip3 install yagmail[all]
```

If installing `yagmail` with `keyring` causes issues, omit the `[all]` to install it without.

2.2 Installing from GitHub

If you're not scared of things occasionally breaking, you can also install directly from the GitHub repository. You can do this by running the following (for Python 2.x and 3.x respectively):

```
pip install -e git+https://github.com/kootenpv/yagmail#egg=yagmail[all]
pip3 install -e git+https://github.com/kootenpv/yagmail#egg=yagmail[all]
```

Just like with the PyPI installation method, if installing with `keyring` causes issues, simply omit the `[all]` to install `yagmail` without it.

2.3 Configuring Credentials

While it's possible to put the username and password for your E-Mail address into your script, `yagmail` enables you to omit both. Quoting from `keyrings` README:

```
What is Python keyring lib?
```

```
The Python keyring lib provides a easy way to access the system
keyring service from python. It can be used in any
application that needs safe password storage.
```

If this sparked your interest, set up a Python interpreter and run the following to register your GMail credentials with yagmail:

```
import yagmail
yagmail.register('mygmailusername', 'mygmailpassword')
```

(this is just a wrapper for `keyring.set_password('yagmail', 'mygmailusername', 'mygmailpassword')`) Now, instantiating `yagmail.SMTP` is as easy as doing:

```
yag = yagmail.SMTP('mygmailusername')
```

If you want to also omit your username, you can create a `.yagmail` file in your home folder, containing just your username. Then, you can instantiate the SMTP client without passing any arguments.

2.4 Using OAuth2

Another fairly safe method for authenticating using OAuth2, since you can revoke the rights of tokens. In order to use OAuth2, pass the location of the credentials file to `yagmail.SMTP`:

```
yag = yagmail.SMTP('user@gmail.com', oauth2_file='~/oauth2_creds.json')
yag.send(subject="Great!")
```

If the file could not be found, then it will prompt for a `google_client_id` and `google_client_secret`. You can obtain these on [this OAuth2 Guide](#), upon which the OAuth2 code of yagmail is heavily based. After you have provided these, a link will be shown in the terminal that you should follow to obtain a `google_refresh_token`. Paste this again, and you're set up!

If somebody obtains the file, they can send E-Mails, but nothing else. As soon as you notice, you can simply disable the token.

This document aims to show how to use `yagmail` in your programs. Most of what is shown here is also available to see in the [README](#), some content may be duplicated for completeness.

3.1 Start a Connection

As mentioned in *Configuring Credentials*, there are three ways to initialize a connection by instantiating `yagmail.SMTP`:

1. **With Username and Password:** e.g. `yagmail.SMTP('mygmailusername', 'mygmailpassword')`
This method is not recommended, since you would be storing the full credentials to your account in your script in plain text. A better alternative is using `keyring`, as described in the following section:
2. **With Username and keyring:** After registering a `keyring` entry for `yagmail`, you can instantiate the client by simply passing your username, e.g. `yagmail.SMTP('mygmailusername')`.
3. **With keyring and .yagmail:** As explained in the *Setup* documentation, you can also omit the username if you have a `.yagmail` file in your home folder, containing just your GMail username. This way, you can initialize `yagmail.SMTP` without any arguments.
4. **With OAuth2:** This is probably the safest method of authentication, as you can revoke the rights of tokens. To initialize with OAuth2 credentials (after obtaining these as shown in *Setup*), simply pass an `oauth2_file` to `yagmail.SMTP`, for example `yagmail.SMTP('user@gmail.com', oauth2_file='~/oauth2_creds.json')`.

3.2 Closing and reusing the Connection

By default, `yagmail.SMTP` will clean up after itself in **CPython**. This is an implementation detail of CPython and as such may not work in other implementations such as PyPy (reported in [issue #39](#)). In those cases, you can use `yagmail.SMTP` with `with` instead.

Alternatively, you can close and re-use the connection with `yagmail.SMTP.close()` and `yagmail.SMTP.login()` (or `yagmail.SMTP.oauth2_file()` if you are using OAuth2).

3.3 Sending E-Mails

`yagmail.SMTP.send()` is a fairly versatile method that allows you to adjust more or less anything about your Mail. First of all, all parameters for `yagmail.SMTP.send()` are optional. If you omit the recipient (specified with `to`), you will send an E-Mail to yourself.

Since the use of the (keyword) arguments of `yagmail.SMTP.send()` are fairly obvious, they will simply be listed here:

- `to`
- `subject`
- `contents`
- `attachments`
- `cc`
- `bcc`
- `preview_only`
- `headers`

Some of these - namely `to` and `contents` - have some magic associated with them which will be outlined in the following sections.

3.4 E-Mail recipients

You can send an E-Mail to a single user by simply passing a string with either a GMail username (@gmail.com will be appended automatically), or with a full E-Mail address:

```
yag.send(to='mike@gmail.com', contents="Hello, Mike!")
```

Alternatively, you can send E-Mails to a group of people by either passing a list or a tuple of E-Mail addresses as `to`:

```
yag.send(to=['to@someone.com', 'for@someone.com'], contents="Hello there!")
```

These E-Mail addresses were passed without any aliases. If you wish to use aliases for the E-Mail addresses, provide a dictionary mapped in the form `{address: alias}`, for example:

```
recipients = {
    'aliased@mike.com': 'Mike',
    'aliased@fred.com': 'Fred'
}
yag.send(to=recipients, contents="Hello, Mike and Fred!")
```

3.5 Magical contents

The `contents` argument of `yagmail.SMTP.send()` will be smartly guessed. You can pass it a string with your contents or a list of elements which are either:

- If it is a **dictionary**, then it will be assumed that the key is the content and the value is an alias (currently, this only applies to images). For example:

```
contents = [  
    "Hello Mike! Here is a picture I took last week:",  
    {'path/to/my/image.png': 'PictureForMike'}  
]
```

- If it is a **string**, then it will first check whether the content of the string can be **read as a file** locally, for example 'path/to/my/image.png'. These files require an extension for their content type to be inferred.
- If it could not be read locally, then it checks whether the string is valid HTML, such as <h1>This is a big title!</h1>.
- If it was not valid HTML either, then it must be text, such as "Hello, Mike!".

If you want to **ensure that a string is treated as text** and should not be checked for any other content as described above, you can use `yagmail.raw`, a subclass of `str`.

If you intend to **inline an image instead of attaching it**, you can use `yagmail.inline`.

3.6 Using yagmail from the command line

`yagmail` includes a command-line application, simply called with `yagmail` after you installed it. To view a full reference on how to use this, run `yagmail --help`.

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