
tinyapi Documentation

Release 0.1.0

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Mar 22, 2017

Table of Contents

1	Key links	3
1.1	Installation	3
1.2	Example Usage	3
1.3	Core Concepts	4
1.4	Changelog	6
1.5	Testing	7
	Python Module Index	9

TinyAPI is a Python wrapper around [TinyLetter's](#) publicly accessible — but undocumented — API.
Brought to you by [Data Is Plural](#), a weekly newsletter of interesting/curious datasets.

CHAPTER 1

Key links

- Documentation: <https://tinyapi.readthedocs.io/>
- Repository: <https://github.com/jsvine/tinyapi>
- Issues: <https://github.com/jsvine/tinyapi/issues>

Warning: It's probably unwise to depend on TinyAPI for anything important. The library's functionality depends on an undocumented API. If that API changes, TinyAPI will likely break.

See also:

[tinystats](#), a command-line tool for fetching data from the TinyLetter API. No programming knowledge required.

Installation

To use TinyAPI, install it with pip:

```
pip install tinyapi
```

Note: TinyAPI has been tested on Python 2.7, 3.4, and 3.5.

Example Usage

Fetching message data

```
import tinyapi
from getpass import getpass

session = tinyapi.Session("my-username", getpass())

# Print data about your most-clicked URL:
print(session.get_urls(count=1))
print("\n---\n")

# Print the open rates of your 5 most recent letters:
messages = session.get_messages(count=5)
for m in messages:
    print(m["stub"] + ": " + m["stats"]["open_rate"])
```

Creating and sending a draft

```
import tinyapi
from getpass import getpass

session = tinyapi.Session("my-username", getpass())

draft = session.create_draft()

draft.subject = "Testing TinyAPI"
draft.body = "Just a test."
draft.save()

draft.send_preview()
```

Core Concepts

Sessions

The `Session` class provides TinyAPI’s core functionality. It manages the authentication cookies and token for all requests to TinyLetter’s undocumented API.

Usage

class `tinyapi.Session` (*username*, *password=False*)

An authenticated tinyletter.com session.

count_messages (*statuses=['sent', 'sending']*)

Returns the number of messages your account has sent.

DEFAULT_MESSAGE_STATUSES is set to ["sent", "sending"].

Other possible statuses include “draft”, “failed_review”, “failed_disabled”, and “failed_schedule”.

get_messages (*statuses=['sent', 'sending']*, *order='sent_at desc'*, *offset=None*, *count=None*, *content=False*)

Returns a list of messages your account sent.

Messages are sorted by *order*, starting at an optional integer *offset*, and optionally limited to the first *count* items (in sorted order).

Returned data includes various statistics about each message, e.g., `total_opens`, `open_rate`, `total_clicks`, `unsubs`, `soft_bounces`. If `content=True`, the returned data will also include HTML content of each message.

get_drafts (***kwargs*)

Same as `Session.get_messages`, but where `statuses=["draft"]`.

get_message (*message_id*)

Return stats *and* message content for a given message.

count_urls ()

Returns the total number of URLs included in your messages

get_urls (*order='total_clicks desc', offset=None, count=None*)

Returns a list of URLs you've included in messages.

List is sorted by `total_clicks`, starting at an optional integer `offset`, and optionally limited to the first `count` items.

get_message_urls (*message_id, order='total_clicks desc'*)

Returns a list of URLs you've included in a specific message.

List is sorted by `total_clicks`, starting at an optional integer `offset`, and optionally limited to the first `count` items.

count_subscribers ()

Returns your newsletter's number of subscribers.

get_subscribers (*order='created_at desc', offset=None, count=None*)

Returns a list of subscribers.

List is sorted by most-recent-to-subscribe, starting at an optional integer `offset`, and optionally limited to the first `count` items (in sorted order).

Returned data includes various statistics about each subscriber, e.g., `total_sent`, `total_opens`, `total_clicks`.

get_subscriber (*subscriber_id*)

Returns data corresponding to a specific subscriber.

create_draft ()

Create a new draft message.

edit_draft (*message_id*)

Fetch a specific draft to be edited.

Advanced Usage

class `tinyapi.Session` (*username, password=False*)

An authenticated tinyletter.com session.

request (*service, data*)

Makes a call to TinyLetter's `__svcbus__` endpoint.

Drafts

The `Draft` class is TinyAPI's interface for creating, editing, and sending messages.

Usage

```
class tinyapi.Draft (session, message_id=None)
    A draft message.

    fetch()
        Fetch data corresponding to this draft and store it as self.data.

    save()
        Save current draft state.

    subject
        Get or set the subject line.

    body
        Get or set the draft's body. Expects HTML.

    public_message
        Get or set whether this message should be listed publicly.

        Must be True or False.

    send_preview()
        Send a preview of this draft.

    send()
        Send the draft.

    delete()
        Delete the draft.
```

Changelog

All notable changes to this project will be documented in this file.

The format is based on [Keep a Changelog](#).

0.1.0 — 2017-03-19

Added

- Ability to create, edit, and send drafts
- Docstrings and full test coverage
- Proper documentation via Sphinx

Changed

- `DEFAULT_MESSAGE_STATUSES` is now just [`"sent"`, `"sending"`] and no longer includes failed-to-send messages.

Deprecated

- Removed `Session.count_sent_messages` and `Session.get_sent_messages`, since the change to `DEFAULT_MESSAGE_STATUSES` makes them redundant.

0.0.0 — 2015-12-13

Initial release.

Testing

Here's how to run TinyAPI's tests:

Install the testing dependencies

```
pip install nose
pip install coverage
```

Tell TinyAPI which account to use

```
export TINYAPI_TEST_USERNAME="tinyapi-test-account"
export TINYAPI_TEST_PASSWORD="XXXXXXXXX"
```

Run the tests

```
nosetests --with-coverage --cover-erase --cover-package tinyapi
```


t

`tinyapi.draft`, 5
`tinyapi.session`, 4

B

body (tinyapi.Draft attribute), 6

C

count_messages() (tinyapi.Session method), 4
count_subscribers() (tinyapi.Session method), 5
count_urls() (tinyapi.Session method), 5
create_draft() (tinyapi.Session method), 5

D

delete() (tinyapi.Draft method), 6
Draft (class in tinyapi), 6

E

edit_draft() (tinyapi.Session method), 5

F

fetch() (tinyapi.Draft method), 6

G

get_drafts() (tinyapi.Session method), 5
get_message() (tinyapi.Session method), 5
get_message_urls() (tinyapi.Session method), 5
get_messages() (tinyapi.Session method), 4
get_subscriber() (tinyapi.Session method), 5
get_subscribers() (tinyapi.Session method), 5
get_urls() (tinyapi.Session method), 5

P

public_message (tinyapi.Draft attribute), 6

R

request() (tinyapi.Session method), 5

S

save() (tinyapi.Draft method), 6
send() (tinyapi.Draft method), 6
send_preview() (tinyapi.Draft method), 6

Session (class in tinyapi), 4, 5
subject (tinyapi.Draft attribute), 6

T

tinyapi.draft (module), 5
tinyapi.session (module), 4