ttrss-python Documentation

Release 0.2

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CONTENTS

ttrss-python is a light-weight client library for the JSON API of Tiny Tiny RSS. Handling JSON in Python can be quite a pain, so this library abstracts all that away to deliver Python object representations of categories, feeds and articles. Also, the specific calls and POST data sent to the server is handled automatically, so that you can focus on the stuff that matters to your frontend application.

Sounds good so far? Great, let's get started!

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INSTALLATION

This package is available at PyPI, so the easiest way to install is by doing a pip install ttrss-python. This will install the latest released version, as well as all dependencies. Currently, the only dependency is the awesome Python requests library for handling all the http requests.

If you for some reason can't or don't want to use pip, just download the tarball and run python setup.py install manually.

It's highly recommended to use virtualenv for this (and any other for that matter!) installation.

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BASIC USAGE

The first thing you need to do is instantiate a TTRClient. The constructor requires three arguments; URL, your username and your password:

```
>>> from ttrss.client import TTRClient
>>> client = TTRClient('http://url-to-tiny-tiny', 'username', 'super-secret-password')
>>> client.login()
```

If you want the client to login automatically, as well as automatically refresh an expired session cookie, you may supply the optional keyword argument auto_login=True. Note that this may affect performance in a high-traffic client application, since it uses a response hook to check every server response for a NOT_LOGGED_IN message:

```
>>> client = TTRClient('http://url-to-tiny-tiny', 'username', 'super-secret-password', auto_login=Trn
```

Refer to the API docs for details on how to retrieve objects from the server.

2.1 Categories

Category objects contain attributes describing the category, as well as a method to retrieve feeds contained in it. Assuming a category object called cat:

```
>>> cat.title
u'Example category'
>>> cat.unread
20
>>> cat.id
```

To retrieve a list of feeds belonging to this category, simply type:

```
>>> cat.feeds()
[<ttrss.client.Feed object at 0x103a0cfd0>, <ttrss.client.Feed object at 0x103478a50>]
```

The feeds method accepts parameters as well. Please refer to the API docs for details.

THREE

FEEDS

Like category objects, feed objects contain metadata and a method to retrieve headlines:

```
>>> feed.title
u'MacRumors: Mac News and Rumors - All Stories'
>>> feed.last_updated
datetime.datetime(2013, 3, 24, 21, 18, 29)
>>> feed.unread
24
>>> feed.feed_url
u'http://feeds.macrumors.com/MacRumors-All'
>>> feed.id
5
>>> feed.headlines()
[<ttrss.client.Headline object at 0x103a0cfd0>, ...]
```

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HEADLINES

Headlines are short versions of articles. They too include all useful metadata:

```
>>> headline.title
u'Apple Acquires Indoor Mobile Location Positioning Firm WifiSLAM for $20 Million'
>>> headline.excerpt
u'The Wall Street Journal reports that Apple has acquired indoor location company WifiSLAM, paying as
>>> headline.link
u'http://www.macrumors.com/2013/03/23/apple-acquires-indoor-mobile-location-positioning-firm-wifislam
>>> headline.updated
datetime.datetime(2013, 3, 24, 21, 18, 29)
>>> headline.unread
True
>>> headline.tags
[u'front page']
>>> headline.published
True
>>> headline.labels
[]
>>> headline.id
>>> headline.feed_id
```

To get the full article, simply type:

u**′**5′

```
>>> headline.full_article()
<ttrss.client.Article object at 0x103a0cf90>
```

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ARTICLES

Article objects include all the useful information:

```
>>> article.link
u'http://www.macrumors.com/2013/03/23/apple-acquires-indoor-mobile-location-positioning-firm-wifislan
>>> article.title
u'Apple Acquires Indoor Mobile Location Positioning Firm WifiSLAM for $20 Million'
>>> article.updated
datetime.datetime(2013, 3, 24, 21, 18, 29)
>>> article.comments
u''
>>> article.author
u'Eric Slivka'
>>> article.id
1
>>> article.unread
True
>>> article.content
u"Lots of text... "
```

Article objects also include some useful methods for interaction:

```
>>> article.publish()  # Publish to shared
>>> article.toggle_unread() # Toggle unread status
```

You may also refresh the information about an article with fresh data from the server. This is useful if you have a long-running script and interact with the server by other means while it's running:

```
>>> article.unread
True
# Mark the article as read in the web interface or some other client...
>>> article.refresh_status()
>>> article.unread
False
```

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SIX

DEVELOPMENT

This project is open source and MIT licensed. The source code is available at https://github.com/Vassius/ttrss-python

6.1 Contributions

Bugreports, feature requests and other feedback is very much appreciated, and best submitted in the GitHub project mentioned above. If you're a doer and want to patch something yourself - Awesome! Just fork my repo and submit a pull request.

6.2 Author

ttrss-python is written and maintained by Markus Wiik <vassius@gmail.com>

API DOCUMENTATION

This section will become more detailed over time as I add docstrings to the source code.

7.1 client module

```
class ttrss.client.Article(attr, client)
     Bases: ttrss.client.RemoteObject
     publish()
          Share this article to published feed
     refresh_status()
          Refresh this object with new data fetched from the server.
     toggle_unread()
          Toggle unread status of this article
class ttrss.client.Category (attr, client=None)
     Bases: ttrss.client.RemoteObject
     feeds (**kwargs)
          Get a list of feeds for this category.
              Parameters
                   • unread_only – Optional Include only feeds containing unread articles. Default is False.
                   • limit – Optional Limit number of included feeds to limit. Default is 0 (unlimited).
                   • offset – Optional Skip this number of feeds. Useful for pagination. Default is 0.
                   • include_nested - Optional Include child categories. Default is False.
class ttrss.client.Feed(attr, client)
     Bases: ttrss.client.RemoteObject
     catchup()
          Mark this feed as read
     headlines (**kwargs)
          Get a list of headlines from a this feed.
```

Parameters

• **limit** – Return no more than this number of headlines. Default is 0 (unlimited, though the server limits to 60).

- skip Skip this number of headlines. Useful for pagination. Default is 0.
- **show_excerpt** Include a short excerpt of the article. Defaults to True.
- show_content Include full article content. Defaults to False.
- **view_mode** (string = all_articles, unread, adaptive, marked, updated)
- include attachments include article attachments. Defaults to False.
- since id Only include headlines newer than since id.
- include_nested Include articles from child categories. Defaults to True.

```
class ttrss.client.Headline (attr, client)
```

```
Bases: ttrss.client.RemoteObject
```

This class represents Headline objects. A headline is a short version of an article.

```
full_article()
```

Get the full article corresponding to this headline

```
class ttrss.client.RemoteObject(attr, client=None)
```

Bases: object

This is the base class for representing remote resources as Python objects.

```
class ttrss.client.TTRClient (url, user=None, password=None, auto_login=False)
```

Bases: object

This is the actual client interface to Tiny Tiny RSS.

This object retains a http session with the needed session cookies. From the client you can fetch categories, feeds, headlines and articles, all represented by Python objects. You can also update modify articles and feeds on the server.

```
catchup_feed (feed_id, is_cat=False)
```

Attempt to mark all articles in specified feed as read.

Parameters

- **feed_id** id of the feed to catchup.
- **is_cat** Specified feed is a category. Default is False.

```
get_articles (article_id)
```

Get a list of articles from article ids.

Parameters article_id – A comma separated string or list of article ids to fetch,

get categories (unread only=False, enable nested=False, include empty=False)

Get a list of all available categories

Parameters

- unread_only Only return categories containing unread articles. Defaults to False.
- **enable_nested** When enabled, traverse through sub-categories and return only the **top-most** categories in a flat list. Defaults to False.
- **include_empty** Include categories not containing any feeds. Defaults to False. *Requires server version 1.7.6*

```
get_feed_count()
```

Return total number of feeds

get_feeds (*cat_id=-1*, *unread_only=False*, *limit=0*, *offset=0*, *include_nested=False*) Get a list of feeds in a category.

Parameters

- cat_id Category id. This is available as the id property of a Category object.
- unread_only Optional Include only feeds containing unread articles. Default is False.
- **limit** *Optional* Limit number of included feeds to limit. Default is 0 (unlimited).
- offset Optional Skip this number of feeds. Useful for pagination. Default is 0.
- include_nested Optional Include child categories. Default is False.

Parameters

- **feed_id** Feed id. This is available as the id property of a Feed object. Default is -4 (all feeds).
- **limit** Return no more than this number of headlines. Default is 0 (unlimited, though the server limits to 60).
- skip Skip this number of headlines. Useful for pagination. Default is 0.
- **is_cat** The feed_id is a category. Defaults to False.
- **show_excerpt** Include a short excerpt of the article. Defaults to True.
- show_content Include full article content. Defaults to False.
- **view_mode** (string = all_articles, unread, adaptive, marked, updated)
- include_attachments include article attachments. Defaults to False.
- since_id Only include headlines newer than since_id.
- include_nested Include articles from child categories. Defaults to True.

```
get_unread_count()
```

Get total number of unread articles

```
logged_in()
```

```
login()
```

Manually log in (i.e. request a session cookie)

This method must be used if the client was not instantiated with auto_login=True

logout()

Log out.

After logging out, login() must be used to gain a valid session again. Please note that logging out invalidates any automatic re-login even after logging back in.

mark read(article id)

Mark an article as read.

Parameters article_id – List or comma separated string of IDs of articles to mark as read.

mark_unread(article_id)

Mark an article as unread.

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Parameters article_id - List or comma separated string of IDs of articles to mark as unread.

refresh_article(article)

Update all properties of an article object with fresh information from the server.

Please note that this method alters the original object and does not return a new one.

Parameters article – The article to refresh.

share_to_published(title, url, content)

Share an article to the *published* feed.

Parameters

- title Article title.
- url Article url.
- **content** Article content.

subscribe (feed_url, category_id=0, login=None, password=None) Subscribe to specified feed.

Parameters

- feed url URL to the feed to subscribe to.
- category_id Place feed in the category with this ID.
- login Login name for the feed, if any.
- password Password for the feed, if any.

toggle_unread(article_id)

Toggle the unread status of an article.

Parameters article_id – List or comma separated string of IDs of articles to toggle unread.

unsubscribe (feed_id)

Unsubscribe to specified feed

Parameters feed_id – ID of feed to unsubscribe.

update_daemon_running()

Return True if update daemon is running, False otherwise.

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INDICES AND TABLES

- genindex
- modindex
- search

PYTHON MODULE INDEX

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