
python-rdio Documentation

Release 1.0

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July 18, 2014

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This document refers to version 1.0.

1.1 Installation

1.1.1 Requirements

- Python 2.6 (all other version of Python are untested)
- `python-oauth2` (the latest version)

1.1.2 Using pip

If you're using `pip`, the easiest way to get rolling is running this command at your terminal.

```
$ pip install python-rdio
```

This retrieves the latest version on from [PyPI](#).

1.1.3 Using setuptools

If you prefer `setuptools` (`easy_install`), you can do the following at a terminal.

```
$ easy_install python-rdio
```

This retrieves the latest version on from [PyPI](#).

1.2 Usage

1.2.1 Getting the manager

This Python-based Rdio API wrapper (`python-rdio`) must be used by creating an instance of the manager class, known as `Api`. Upon instance creation, you can either feed in just your OAuth `consumer_key` and `consumer_secret`, or (if you've saved them for the user for which you're communicating with the API) your `consumer_key`, `consumer_secret`, `access_key`, and `access_secret`:

```
import rdio
api = rdio.Api('aosiudASUDH76ASD&8&SDasd', 'iuahd6542gSSA', 'UAHiduas7d6A%SD24dsaa', 'AJSADU36shj')
```

1.2.2 Making calls

Talking to the API manager merely involves calling its methods, and passing in parameters. Every method name on the `Rdio API` has been translated here from camelCase to underscored_lower_case. Thus, `getTracksForArtistInCollection` has become `get_tracks_for_artist_in_collection`. The same goes for parameters. To look at examples, visit [Examples](#).

1.3 Examples

Below are some examples on how to get data from the Rdio API using the wrapper. For each example, assume that I've already got an instance of the manager class as such (fully authenticated). Also, note that each python prompt line will begin with `>>>` Continuations after line breaks begin with `...`

```
>>> import rdio
>>> api = rdio.Api('aosudASUDH76ASD&8&SDasd', 'iuahd6542gSSA', 'UAHiduas7d6A%SD24dsaa', 'AJSADU36sh
```

1.3.1 Finding user

```
>>> user = api.find_user(vanity_name='ian')
>>> print "%s, %s" % (user.name, user.key,)
Ian McKellar, s13
>>> user = api.find_user(email='benjaminkreeger@gmail.com')
>>> print "%s, %s" % (user.name, user.key,)
Benjamin Kreeger, s1250
```

1.3.2 Authenticating user with OAuth pin

First, you'll need to get the login url and token.

```
>>> token_dict = api.get_token_and_login_url()
>>> print 'Authorize this application at: %s?oauth_token=%s' % (
...     token_dict['login_url'], token_dict['oauth_token'])
```

Then you'll need to launch the URL in a web browser, which will prompt the user to login and authorize the application. This'll give the user a PIN code. Have the user copy and paste the code as input to the next line.

```
>>> oauth_verifier = raw_input('Enter the PIN / oAuth verifier: ').strip()
```

Then feed it to the `authorize_with_verifier` method.

```
>>> auth_dict = api.authorize_with_verifier(oauth_verifier)
```

The `auth_dict` will contain the `access_token_key` and `access_token_secret` keys, which you'll undoubtedly want to keep in your datastore for the user's record.

1.3.3 Getting current user

```
>>> user = api.current_user()
>>> print 'Name: %s, Key: %s' % (user.name, user.key,)
Name: Benjamin Kreeger, Key: s1250
```

The following examples assume you have the `current_user`'s results stored in the `user` variable.

1.3.4 Getting current user's heavy rotation

```
>>> rotation = api.get_heavy_rotation(user=user.key, friends=True)
>>> for album in rotation[:3]:
...     print "Album: %s, by %s" % (album.name, album.artist_name,)
...     print "Key: %s" % album.key
...     print "Users: %s" % ', '.join([user.name for user in album.users])
...     print "---"
...
Album: TRON: Legacy Reconfigured, by Daft Punk
Key: a687025
Users: Ian McKellar, Michael Battey, Wilson Miner, Madelyn Taylor
---
Album: Disreali Gears (Deluxe Edition), by Cream
Key: a228508
Users: Keith K
---
Album: Hot Sauce Committee Part Two, by Beastie Boys
Key: a711764
Users: Frank Chimero, Madelyn Taylor, Tyler Abele, Nick Kreeger
---
```