# Reddit API:

<https://github.com/praw-dev/praw>

* Public API, python wrapper called PRAW (python reddit api wrapper)
* Can pull top comments, hot posts, etc
* PRAW aims to be easy to use and internally follows all of [Reddit's API rules](https://github.com/reddit/reddit/wiki/API). (Thank fook)
* With PRAW there's no need to introduce **sleep calls** in your code. Give your client an appropriate user agent and you're set.

Set up:

* PRAW is supported on python 2.7, 3.3, 3.4, 3.5 and 3.6. The recommended way to install PRAW is via [pip](https://pypi.python.org/pypi/pip).
* PRAW Documentation <https://praw.readthedocs.io/en/latest/>

Subreddits:

* [/r/redditdev](https://www.reddit.com/r/redditdev) is the best place on Reddit to ask PRAW related questions. This subreddit is for all Reddit API related discussion so please tag submissions with [PRAW]. Please perform a search on the subreddit first to see if anyone has similar questions.
* r/CryptoCurrency – 870,000 members
* r/Bitcoin – 1,000,000 members

## PRAW Documentation and set up

PRAW Documentation <https://praw.readthedocs.io/en/latest/>

# Authenticating via OAuth

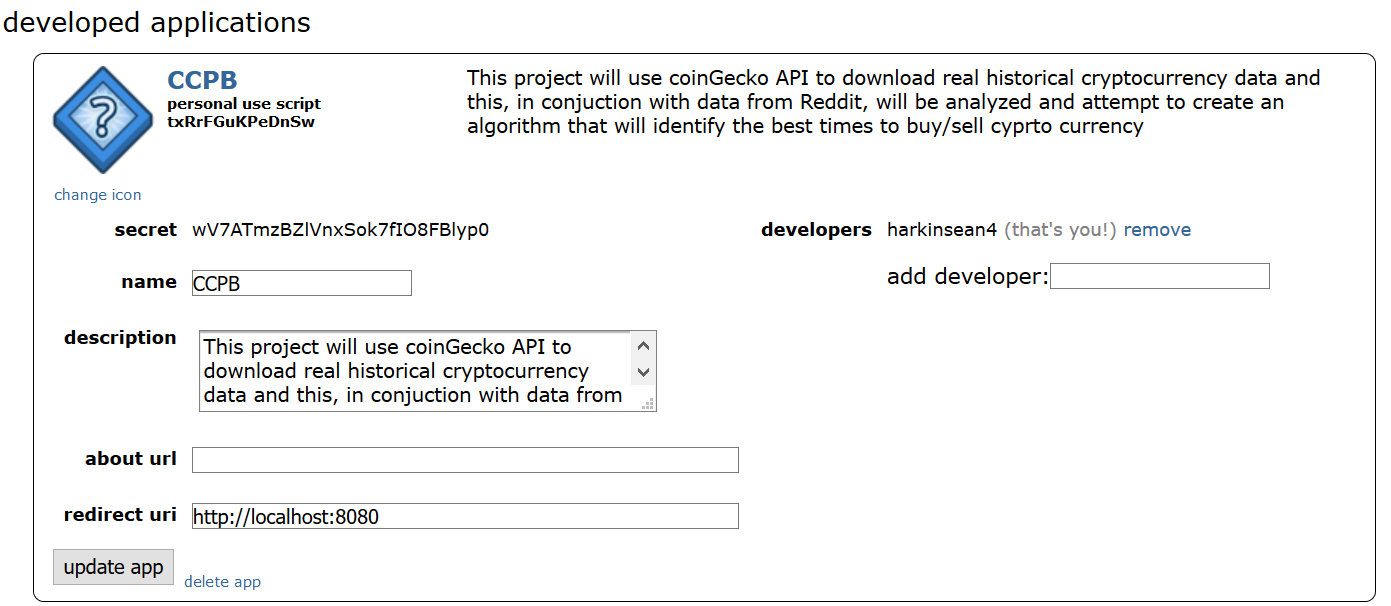
All info is here <https://praw.readthedocs.io/en/latest/getting_started/authentication.html>

PRAW supports the three types of applications that can be registered on Reddit. Those are:

* [Web Applications](https://github.com/reddit-archive/reddit/wiki/OAuth2-App-Types#web-app)
* [Installed Applications](https://github.com/reddit-archive/reddit/wiki/OAuth2-App-Types#installed-app)
* [Script Applications](https://github.com/reddit-archive/reddit/wiki/OAuth2-App-Types#script-app)

The app types are explained here: <https://github.com/reddit-archive/reddit/wiki/OAuth2-App-Types#web-app>

Use <http://localhost:8080> for the redirect uri



**Client ID & Client Secret:**

These two values are needed to access Reddit’s API as a **script** application (see [Authenticating via OAuth](https://praw.readthedocs.io/en/latest/getting_started/authentication.html#oauth) for other application types). If you don’t already have a client ID and client secret, follow Reddit’s [First Steps Guide](https://github.com/reddit/reddit/wiki/OAuth2-Quick-Start-Example#first-steps) to create them.

**User Agent:**

A user agent is a unique identifier that helps Reddit determine the source of network requests. To use Reddit’s API, you need a unique and descriptive user agent. The recommended format is

<platform>:<app ID>:<version string> (by /u/<Reddit username>). For example,android:com.example.myredditapp:v1.2.3 (by /u/kemitche). Read more about user-agents at [Reddit’s API wiki page](https://github.com/reddit/reddit/wiki/API).

## REDDIT API Rules

<https://github.com/reddit-archive/reddit/wiki/API>

**sean-script.py**

## Comments

**submission.id :**  c8h7gh

**comment.id :**  eso3w1u

**comment.parent:**  <bound method Comment.parent of Comment(id='eso3w1u')>

**comment.parent() :**  c8h7gh

**comment.parent\_id :**  t3\_c8h7gh

**comment.submission:**  c8h7gh

* A submission is the subreddit
* Comments have their own ID, a top-level comment has the same ID as the submission
* comment.parent() returns either a submission object or a comment object depending if a top-level comment called it or a reply
* The parent\_id returns the prefix in front of the ID, this signifies that the ID it has just pulled must be that of a submission, a parent comment has a prefix of before it

**Typical Comment Attributes**

This table describes attributes that typically belong to objects of this class. Since attributes are dynamically provided (see [Determine Available Attributes of an Object](https://praw.readthedocs.io/en/latest/getting_started/quick_start.html#determine-available-attributes-of-an-object)), there is not a guarantee that these attributes will always be present, nor is this list comprehensive in any way.

[Link to table](https://praw.readthedocs.io/en/latest/code_overview/models/comment.html)

**sean\_script\_application.py**

Comments:

Comment.parent() if a top level comment, this returns the submission id

If it is a reply to a comment, it returns the id of the comment it is replying to

.list()

The .list() is a PRAW functionality, it returns a flattened list of all Comments. This list may contain MoreComments instances if replace\_more() was not called first.

So, the order you get things when you use the comments.list() is all of the top level comments, followed by 2nd level comments, followed by 3rd level, so these still aren't necessarily sorted how you want them, but you have all comments, and can access every comment's id and parent's id.

.replacemore

.replace\_more(limit=0) we set the limit to 0 to remove all [MoreComments](https://praw.readthedocs.io/en/latest/code_overview/models/more.html#praw.models.MoreComments) instances without additional requests

on really long comments, there will be a ‘load more comments’ link which is a ‘more\_comments’ object, so we won’t to replace these ‘more\_comments’ objects

**sean\_script\_application\_live.py**

Part 3 of Video

* We can stream posts in a subreddit
* We can stream comments

reddit.comment(comment.parent()) -finds original submission or parent of comment

## JSON Library