

Ekaterina Lyapina (Student ID 160984099)  
Msc Big Data Science

DMSN Coursework 1: Crawling Twitter


https://apps.twitter.com/app/14714854

Application Management

QMUL\_hateful\_kate

Test OAuth

DetailsSettingsKeys and Access TokensPermissions



Crawling Twitter  
<https://github.com/aegorfk>

Organization

Information about the organization or company associated with your application. This information is optional.

OrganizationNone

Organization websiteNone

Application Settings

Your application's Consumer Key and Secret are used to authenticate requests to the Twitter Platform.

Access levelRead, write, and direct messages (modify app permissions)

Consumer Key (API Key)

XXXXXXXXXXXXXXX

(manage keys and access tokens)

Callback URLNone

Callback URL LockedNo

Sign in with TwitterYes

App-only authenticationhttps://api.twitter.com/oauth2/token

Request token URLhttps://api.twitter.com/oauth/request\_token

Authorize URLhttps://api.twitter.com/oauth/authorize

Access token URLhttps://api.twitter.com/oauth/access\_token

```
In [1]: from __future__ import absolute_import, print_function
import json
import tweepy
from tweepy.parsers import JSONParser

consumer_key = "XXXXXXXXXXXXXXXXXXXXXXXXXXXXXX"
consumer_secret = "XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX"
access_token = "XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX"
access_token_secret = "XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX"

auth = tweepy.OAuthHandler(consumer_key, consumer_secret)
auth.set_access_token(access_token, access_token_secret)
api = tweepy.API(auth, wait_on_rate_limit=True, parser=JSONParser())

nickname = 'realDonaldTrump'
```

```
# parsing profile of the user
user = api.get_user(nickname)
user = json.dumps(user)
print(user)
```

```
print(friends)
```

```
print(l[0])
```

```
{
  "follow_request_sent": false,
  "has_extended_profile": false,
  "profile_use_background_image": true,
  "profile_text_color": "333333",
  "default_profile_image": false,
  "id": 818927131883356161,
  "profile_background_image_url_https": null,
  "verified": true,
  "translator_type": "none",
  "profile_location": null,
  "profile_image_url_https": "https://pbs.twimg.com/profile_images/893600318025474048/CbCbznYp_normal.jpg",
  "profile_sidebar_fill_color": "DDEEF6",
  "entities": {
    "urls": [
      {
        "url": "https://t.co/wyOVgSLgBV",
        "indices": [0, 23],
        "expanded_url": "http://www.WhiteHouse.gov",
        "display_url": "WhiteHouse.gov"
      }
    ],
    "description": {
      "urls": [
        {
          "url": "https://t.co/eVVzoBb3Zr",
          "indices": [105, 128],
          "expanded_url": "http://wh.gov/privacy",
          "display_url": "wh.gov/privacy"
        }
      ]
    },
    "followers_count": 2723051,
    "profile_sidebar_border_color": "CODEED",
    "id_str": "818927131883356161",
    "profile_background_color": "F5F8FA",
    "listed_count": 6494,
    "status": {
      "contributors": null,
      "truncated": false,
      "text": "RT @FoxNews: .@PressSec: \"We just passed the biggest tax cuts in history. ISIS is on the run. We're rebuilding our military. We're rebuilding the wall.\" \"is_quote_status\": false, \"in_reply_to_status_id\": null, \"id\": 969735751989710848, \"favorite_count\": 0, \"source\": \"<a href='\"http://twitter.com/download/iphone\" rel='\"nofollow\">Twitter for iPhone</a>\", \"retweeted\": false, \"coordinates\": null, \"entities\": {
        \"symbols\": [],
        \"user_mentions\": [
          {
            \"id\": 1367531,
            \"indices\": [3, 11],
            \"id_str\": \"1367531\",
            \"screen_name\": \"FoxNews\",
            \"name\": \"Fox News\"
          },
          {
            \"id\": 818927131883356161,
            \"indices\": [14, 23],
            \"id_str\": \"818927131883356161\",
            \"screen_name\": \"PressSec\",
            \"name\": \"Sarah Sanders\"
          }
        ],
        \"hashtags\": [],
        \"urls\": []
      },
      \"in_reply_to_screen_name\": null,
      \"in_reply_to_user_id\": null,
      \"retweet_count\": 1399,
      \"id_str\": \"969735751989710848\",
      \"favorited\": false,
      \"retweeted_status\": {
        \"contributors\": null,
        \"truncated\": true,
        \"text\": \".@PressSec: \"We just passed the biggest tax cuts in history. ISIS is on the run. We're rebuilding our military. We're rebuilding the wall.\" \"is_quote_status\": false, \"in_reply_to_status_id\": null, \"id\": 969652217132277761, \"favorite_count\": 5885, \"source\": \"<a href='\"https://studio.twitter.com\" rel='\"nofollow\">Media Studio</a>\", \"retweeted\": false, \"coordinates\": null, \"entities\": {
          \"symbols\": [],
          \"user_mentions\": [
            {
              \"id\": 818927131883356161,
              \"indices\": [1, 10],
              \"id_str\": \"818927131883356161\",
              \"screen_name\": \"PressSec\",
              \"name\": \"Sarah Sanders\"
            }
          ],
          \"hashtags\": [],
          \"urls\": [
            {
              \"url\": \"https://t.co/jQizX7zeUI\",
              \"indices\": [117, 140],
              \"expanded_url\": \"https://twitter.com/i/web/status/969652217132277761\",
              \"display_url\": \"twitter.com/i/web/status/969652217132277761\"
            }
          ]
        },
        \"in_reply_to_screen_name\": null,
        \"in_reply_to_user_id\": null,
        \"retweet_count\": 1399,
        \"id_str\": \"969652217132277761\",
        \"favorited\": false,
        \"geo\": null,
        \"in_reply_to_user_id_str\": null,
        \"possibly_sensitive\": false,
        \"lang\": \"en\",
        \"created_at\": \"Fri Mar 02 19:14:38 +0000 2018\",
        \"in_reply_to_status_id_str\": null,
        \"place\": null,
        \"geo\": null,
        \"in_reply_to_user_id_str\": null,
        \"lang\": \"en\",
        \"created_at\": \"Sat Mar 03 00:46:34 +0000 2018\",
        \"in_reply_to_status_id_str\": null,
        \"place\": null,
        \"is_translation_enabled\": false,
        \"utc_offset\": -28800,
        \"statuses_count\": 1917,
        \"description\": \"@WhiteHouse Press Secretary. Proudly representing @POTUS Trump's Administration. Tweets may be archived: http://t.co/eVVzoBb3Zr\". \"friends_count\": 237, \"location\": \"Washington, D.C.\" \"profile_link_color\": \"1DA1F2\", \"profile_image_url\": \"http://pbs.twimg.com/profile_images/893600318025474048/CbCbznYp_normal.jpg\", \"following\": false, \"geo_enabled\": false, \"profile_banner_url\": \"https://pbs.twimg.com/profile_banners/818927131883356161/1501886832\", \"profile_background_image_url\": null, \"name\": \"Sarah Sanders\", \"lang\": \"en\", \"profile_background_tile\": false, \"favourites_count\": 320, \"screen_name\": \"PressSec\", \"notifications\": false, \"url\": \"https://t.co/wyOVgSLgBV\", \"created_at\": \"Tue Jan 10 21:06:57 +0000 2017\", \"contributors_enabled\": false, \"time_zone\": \"Pacific Time (US & Canada)\", \"protected\": false, \"default_profile\": true, \"is_translator\": false}
}
```