

Tweet Downloader

CS109a: Fall 2018

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```
In [1]: import numpy as np
import pandas as pd
import matplotlib
import matplotlib.pyplot as plt
import seaborn as sns
import tweepy
import sys
import jsonpickle
import os
import zipfile
import time
from datetime import date, datetime, time
import re
import json
from pprint import pprint
import random
from dateutil import tz
import gzip
import shutil
```

Parameters

```
In [3]: enable_user_id_validation = False
```

```
In [4]: # Constants, should not change
CONSUMER_KEY = 'qAm9baDI3rzzK2aUhQW3mzvNp'
CONSUMER_SECRET = "x4h2XK4uoCKobjBSuwjUIGc9AB2iOWvd5StzgSfTWloYrQBgEw"

ACCESS_TOKEN = '1368388352-wCcxn8BXKP4KsdQK40ztCMjCbG5Nhtm9FTXuW2c'
ACCESS_TOKEN_SECRET = 'oe3ptX7WcCbpIRH4ue8pyOjN8fpmm1k8O720xwCc8igdx'
```



```
In [7]: class AccountLinkedWebsiteStreamListener(tweepy.StreamListener):
    def __init__(self, max_count = 100):
        self.max_count = max_count
        self.count = 0
        self.saveFile = open('accounts.json', 'w')
        self.user_ids = set()
        super(AccountLinkedWebsiteStreamListener, self).__init__()

    def on_data(self, data):
        if (self.count < self.max_count):
            tweet_json = json.loads(data)

            if 'delete' in tweet_json:
                return True

            if tweet_json['lang'] != 'en':
                return True

            if tweet_json['user']['lang'] != 'en':
                return True

            if tweet_json['user']['id'] in self.user_ids:
                return True

            self.saveFile.write(json.dumps(tweet_json['user']))
            self.saveFile.write('\n')
            self.user_ids.add(tweet_json['user']['id'])
            self.count = self.count + 1
            return True
        else:
            self.saveFile.close()
            return False

    def on_error(self, status_code):
        print('Error occurred, status_code=', status_code)
        return False
```

```
In [6]: streamListener = AccountLinkedWebsiteStreamListener(max_count = 10000)
accountStream = tweepy.Stream(auth=api.auth, listener=streamListener)
accountStream.sample()
```

```
In [8]: # read json file, filter by english language, extract user names
account_data = []
with open('accounts.json') as f:
    for line in f:
        if len(line.strip()) != 0:
            account_data.append(json.loads(line))

sample_user_ids = set()

for account in account_data:
    try:
        if isValidUser(api,account['id']) and enable_user_id_validation:
            sample_user_ids.add(account['id'])
    except:
        print('Error extracting sample user id from tweet')
        pprint(account)
        raise

print(len(sample_user_ids))
```

Unable to process user id 842567245637337088 [{'code': 63, 'message':
'User has been suspended.'}]
not including user id 3298733402 because tweets are protected
not including user id 108735476 because tweets are protected
Unable to process user id 1070715576287252480 [{'code': 63, 'message':
'User has been suspended.'}]

Rate limit reached. Sleeping for: 195

not including user id 1025702863492661251 because tweets are protected
not including user id 344960349 because tweets are protected
not including user id 357120762 because tweets are protected
not including user id 949003320718344192 because tweets are protected
not including user id 191421000 because tweets are protected

Rate limit reached. Sleeping for: 661

Unable to process user id 1070787393756643328 [{'code': 63, 'message':
'User has been suspended.'}]
not including user id 1020871961692557312 because tweets are protected

Rate limit reached. Sleeping for: 580

Unable to process user id 897049343928147968 [{'code': 63, 'message':
'User has been suspended.'}]
not including user id 428585533 because tweets are protected
Unable to process user id 841399805335207938 [{'code': 63, 'message':
'User has been suspended.'}]
not including user id 316764018 because tweets are protected
not including user id 1013033806205411328 because tweets are protected
not including user id 924597106240774145 because tweets are protected
Unable to process user id 990924724497731589 [{'code': 50, 'message':
'User not found.'}]

Rate limit reached. Sleeping for: 358

not including user id 1520669971 because tweets are protected
not including user id 1057781127513989120 because tweets are protected
not including user id 883627313388072960 because tweets are protected

Rate limit reached. Sleeping for: 693

not including user id 1061602597478445056 because tweets are protected
Unable to process user id 1068004877375201280 [{'code': 63, 'message':
'User has been suspended.'}]
not including user id 1032323918789595137 because tweets are protected

Rate limit reached. Sleeping for: 599

Unable to process user id 911625968581738503 [{'code': 63, 'message':
'User has been suspended.'}]
not including user id 942464088537534465 because tweets are protected
not including user id 887262205535703040 because tweets are protected
not including user id 3397463532 because tweets are protected
not including user id 2792575020 because tweets are protected

Rate limit reached. Sleeping for: 586

not including user id 3267244171 because tweets are protected
Unable to process user id 912441523815555072 [{'code': 63, 'message':
'User has been suspended.'}]
not including user id 1004969227009306624 because tweets are protected
Unable to process user id 90333543 [{'code': 50, 'message': 'User not f
ound.'}]

Rate limit reached. Sleeping for: 481

Unable to process user id 710576765421248512 [{'code': 50, 'message':
'User not found.'}]

Rate limit reached. Sleeping for: 595

Unable to process user id 894717797359550464 [{'code': 63, 'message':
'User has been suspended.'}]
not including user id 955159533323784193 because tweets are protected
not including user id 1038924171206647810 because tweets are protected
not including user id 321061912 because tweets are protected
not including user id 757814618345529344 because tweets are protected
Unable to process user id 796379964895621120 [{'code': 63, 'message':
'User has been suspended.'}]

Rate limit reached. Sleeping for: 472

not including user id 1023843105101963264 because tweets are protected
not including user id 1010396030859218946 because tweets are protected
Unable to process user id 905085990624100352 [{'code': 63, 'message':
'User has been suspended.'}]
Unable to process user id 905557122083106816 [{'code': 63, 'message':
'User has been suspended.'}]
not including user id 1060431062428409857 because tweets are protected

Rate limit reached. Sleeping for: 486

not including user id 3646736794 because tweets are protected
9954

```
In [12]: random.seed(a = 42)
sample_user_ids = list(sample_user_ids)
sample_indices = random.sample(range(len(sample_user_ids)), 1000)
random_sample_user_ids = [sample_user_ids[i] for i in sample_indices]

with open('random_user_ids.txt', 'w') as f:
    for user_id in random_sample_user_ids:
        f.write("%s\n" % user_id)
```

```
In [6]: random_sample_user_ids = list()
with open('random_user_ids.txt', 'r') as f:
    for line in f:
        random_sample_user_ids.append(int(line))

len(random_sample_user_ids)
```

Out[6]: 1000

```

In [7]: # user_index = pd.DataFrame()
with open('last_100_timeline_tweets.json', 'w') as f:

    for idx, random_sample_user_id in enumerate(random_sample_user_ids):

        print("Processing {}/{} user id {}".format(idx + 1,
                                                    len(random_sample_user_ids),
                                                    random_sample_user_id))

        # we want to include the user_info for the latest tweet in this
        # set which is a snapshot of the statuses, followers, etc. at
        # thatpoint in time
        include_user_info = True

        try:

            # cursor gets tweets in desc timestamp order
            for status in tweepy.Cursor(api.user_timeline,
                                        id = random_sample_user_id)\
                                        .items(100):

                if not include_user_info:
                    status._json['user_id'] = status._json['user']['id']
                    status._json.pop('user', None)
                else:
                    include_user_info = False

                f.write(json.dumps(status._json))
                f.write('\n')
        except Exception as err:
            print('Unable to process user id',
                  random_sample_user_id,
                  err)

```

Processing 1/1000 user id 934576158305345536

Rate limit reached. Sleeping for: 202

Processing 2/1000 user id 3133965632
Processing 3/1000 user id 3167730160
Processing 4/1000 user id 893957155
Processing 5/1000 user id 540553113
Processing 6/1000 user id 1016110398
Processing 7/1000 user id 83694940
Processing 8/1000 user id 636744426
Processing 9/1000 user id 279810488
Processing 10/1000 user id 1957657604
Processing 11/1000 user id 548493684
Processing 12/1000 user id 788646721072922624
Processing 13/1000 user id 3308193378
Processing 14/1000 user id 1065127340118687744
Processing 15/1000 user id 429502093
Processing 16/1000 user id 16462191
Processing 17/1000 user id 465005264
Processing 18/1000 user id 1058549422936727552
Processing 19/1000 user id 872698498688352256
Processing 20/1000 user id 24344111
Processing 21/1000 user id 2436409854
Processing 22/1000 user id 3096834772
Processing 23/1000 user id 2553174240
Processing 24/1000 user id 2482646808
Processing 25/1000 user id 350740243
Processing 26/1000 user id 789403126654603264
Processing 27/1000 user id 761030363711885312
Processing 28/1000 user id 509673775
Processing 29/1000 user id 976458442616594433
Processing 30/1000 user id 803048321682145280
Processing 31/1000 user id 1039928112115408896
Processing 32/1000 user id 1254603390
Processing 33/1000 user id 2222432342
Processing 34/1000 user id 256880054
Processing 35/1000 user id 1010379414889119745
Processing 36/1000 user id 3506607436
Processing 37/1000 user id 283317023
Processing 38/1000 user id 2416398494
Processing 39/1000 user id 68785175
Processing 40/1000 user id 881676305401470977
Processing 41/1000 user id 757495370721075204
Processing 42/1000 user id 975053305649840128
Processing 43/1000 user id 485472209
Processing 44/1000 user id 44599587
Processing 45/1000 user id 868940322583261184
Processing 46/1000 user id 993475954474475520
Processing 47/1000 user id 1447401998
Processing 48/1000 user id 702318983601655809
Processing 49/1000 user id 2914226280
Processing 50/1000 user id 19723372
Processing 51/1000 user id 2561228172
Processing 52/1000 user id 971471167327412224
Processing 53/1000 user id 1020243134498975744
Processing 54/1000 user id 488056864
Processing 55/1000 user id 950931164
Processing 56/1000 user id 796527092
Processing 57/1000 user id 1000957766201106432
Processing 58/1000 user id 898438156579516417

Processing 59/1000 user id 110071965
Processing 60/1000 user id 259928443
Processing 61/1000 user id 2893616369
Processing 62/1000 user id 767269199940988928
Processing 63/1000 user id 752787894587183104
Processing 64/1000 user id 1070476015405752321
Processing 65/1000 user id 4058107271
Processing 66/1000 user id 1061944880589459456
Processing 67/1000 user id 2238303908
Processing 68/1000 user id 866012101
Processing 69/1000 user id 218967160
Processing 70/1000 user id 1874180154
Processing 71/1000 user id 1064768839727046658
Processing 72/1000 user id 3464766378
Processing 73/1000 user id 1020186758317608965
Processing 74/1000 user id 720905247275638784
Processing 75/1000 user id 101097950
Processing 76/1000 user id 3312607661
Processing 77/1000 user id 949555578753376256
Processing 78/1000 user id 1038851368520441857
Processing 79/1000 user id 931220509865410560
Processing 80/1000 user id 467021507
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Processing 82/1000 user id 50891792
Processing 83/1000 user id 704150218950881280
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Processing 121/1000 user id 814318474134691840
Processing 122/1000 user id 1039375877035851776
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Processing 124/1000 user id 561246123
Processing 125/1000 user id 438580616
Processing 126/1000 user id 834652705326927873
Processing 127/1000 user id 106725931
Processing 128/1000 user id 402495326
Processing 129/1000 user id 144961838
Processing 130/1000 user id 402831407
Processing 131/1000 user id 1044064694103760896
Processing 132/1000 user id 935400786590359552
Processing 133/1000 user id 2814328225
Processing 134/1000 user id 539057208
Processing 135/1000 user id 2576261316
Processing 136/1000 user id 4283228174
Processing 137/1000 user id 714445385809399809
Processing 138/1000 user id 1013391535583440896
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Processing 142/1000 user id 105092655
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Processing 144/1000 user id 2781653509
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Processing 147/1000 user id 1049210694493556736
Processing 148/1000 user id 776146715653074944
Processing 149/1000 user id 1012956876068225024
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Processing 171/1000 user id 2380740581
Processing 172/1000 user id 476213099

Processing 173/1000 user id 2156920753
Processing 174/1000 user id 3746388438
Processing 175/1000 user id 2746821933
Processing 176/1000 user id 850013893804126208

Rate limit reached. Sleeping for: 712

Processing 177/1000 user id 957253999580893186
Processing 178/1000 user id 2867741109
Processing 179/1000 user id 851241653692239873
Processing 180/1000 user id 1028118993306087424
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Processing 286/1000 user id 27496072
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Processing 305/1000 user id 508936792
Processing 306/1000 user id 715785133165584384
Processing 307/1000 user id 821963288842010624
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Processing 310/1000 user id 1009916399593156608
Processing 311/1000 user id 822527669824696321
Processing 312/1000 user id 2592457392
Processing 313/1000 user id 21532459
Processing 314/1000 user id 66486272
Processing 315/1000 user id 201187603
Processing 316/1000 user id 867606384984039424
Processing 317/1000 user id 1964872874
Processing 318/1000 user id 1038687399801483264
Processing 319/1000 user id 4755943742
Processing 320/1000 user id 4818447717
Processing 321/1000 user id 15100669
Processing 322/1000 user id 2533661582
Processing 323/1000 user id 1009557346748682240
Processing 324/1000 user id 486051486
Processing 325/1000 user id 822505709988380675
Processing 326/1000 user id 1001371729061728259
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Processing 334/1000 user id 166491352
Processing 335/1000 user id 112967516
Processing 336/1000 user id 797835097135165441
Processing 337/1000 user id 106142732
Processing 338/1000 user id 336140172
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Processing 340/1000 user id 855711829
Processing 341/1000 user id 1916057922
Processing 342/1000 user id 269040391
Processing 343/1000 user id 981359932904796160
Processing 344/1000 user id 4473334948
Processing 345/1000 user id 784262140962086912
Processing 346/1000 user id 707963664
Processing 347/1000 user id 43759551

Processing 348/1000 user id 547089105

Processing 349/1000 user id 1012308782121041920

Rate limit reached. Sleeping for: 702

Processing 350/1000 user id 2922034572
Processing 351/1000 user id 1006396576401645568
Processing 352/1000 user id 740399760100712450
Processing 353/1000 user id 939860955739148288
Processing 354/1000 user id 1084492170
Processing 355/1000 user id 2921070739
Processing 356/1000 user id 1027258383382994944
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Processing 361/1000 user id 35615827
Processing 362/1000 user id 1013696232303161344
Processing 363/1000 user id 1037300463538978821
Processing 364/1000 user id 3454534093
Processing 365/1000 user id 2786135982
Processing 366/1000 user id 2304745238
Processing 367/1000 user id 2604102389
Processing 368/1000 user id 1054207959117455360
Processing 369/1000 user id 994679837171372034
Processing 370/1000 user id 965026745765285888
Processing 371/1000 user id 822883971381891072
Processing 372/1000 user id 1048995451209506816
Processing 373/1000 user id 1305271094
Processing 374/1000 user id 331436036
Processing 375/1000 user id 426903756
Processing 376/1000 user id 943741470883717121
Processing 377/1000 user id 2287390068
Processing 378/1000 user id 817886654736306178
Processing 379/1000 user id 1015730719862198273
Processing 380/1000 user id 708636375713591296
Processing 381/1000 user id 4773819680
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Processing 383/1000 user id 353913707
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Processing 386/1000 user id 1067630230548795392
Processing 387/1000 user id 1048239024727412736
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Processing 389/1000 user id 404739939
Processing 390/1000 user id 210699575
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Processing 392/1000 user id 790578828
Processing 393/1000 user id 972558229170372608
Processing 394/1000 user id 954101039359143936
Processing 395/1000 user id 926269348104364032
Processing 396/1000 user id 936085302019465216
Processing 397/1000 user id 976110056860278785
Processing 398/1000 user id 329222227
Processing 399/1000 user id 758256851230289921
Processing 400/1000 user id 995687737356414977
Processing 401/1000 user id 493431368
Processing 402/1000 user id 2507039057
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Rate limit reached. Sleeping for: 705

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Processing 696/1000 user id 1611741854
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Processing 698/1000 user id 179190320

Rate limit reached. Sleeping for: 705

Processing 699/1000 user id 2559636770
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Processing 709/1000 user id 524836548
Processing 710/1000 user id 2579989416
Processing 711/1000 user id 3323433771
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Rate limit reached. Sleeping for: 724

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Processing 980/1000 user id 91248338
Processing 981/1000 user id 887449228116492290
Processing 982/1000 user id 849472978937147394
Processing 983/1000 user id 836395874
Processing 984/1000 user id 2658158547
Processing 985/1000 user id 1032273951852879873
Processing 986/1000 user id 3128791237
Processing 987/1000 user id 122570196

Processing 988/1000 user id 25030795
Processing 989/1000 user id 780402777751072768
Processing 990/1000 user id 746504923
Processing 991/1000 user id 283076401
Processing 992/1000 user id 773518318259109888
Processing 993/1000 user id 248022940
Processing 994/1000 user id 67473030
Processing 995/1000 user id 754815127472537600
Processing 996/1000 user id 290798656
Processing 997/1000 user id 4713910938
Processing 998/1000 user id 271309844
Processing 999/1000 user id 844358233489747968
Processing 1000/1000 user id 314039762

```
In [9]: line_num = 0
with open('last_100_timeline_tweets.json', 'r') as f:
    for line in f:

        if line_num == 0:
            pprint(json.loads(line))
            break

        line_num = line_num + 1
```



```

{'contributors': None,
 'coordinates': None,
 'created_at': 'Sat Dec 08 01:50:37 +0000 2018',
 'entities': {'hashtags': [],
               'symbols': [],
               'urls': [],
               'user_mentions': [{'id': 232901331,
                                   'id_str': '232901331',
                                   'indices': [0, 9],
                                   'name': 'Dan Bongino',
                                   'screen_name': 'dbongino'}]}},
 'favorite_count': 0,
 'favorited': False,
 'geo': None,
 'id': 1071220471134347264,
 'id_str': '1071220471134347264',
 'in_reply_to_screen_name': 'dbongino',
 'in_reply_to_status_id': 1071195698102722560,
 'in_reply_to_status_id_str': '1071195698102722560',
 'in_reply_to_user_id': 232901331,
 'in_reply_to_user_id_str': '232901331',
 'is_quote_status': False,
 'lang': 'en',
 'place': None,
 'retweet_count': 0,
 'retweeted': False,
 'source': '<a href="https://mobile.twitter.com" rel="nofollow">Twitter
,
    'Lite</a>',
 'text': '@dbongino ready for jail Dan?',
 'truncated': False,
 'user': {'contributors_enabled': False,
          'created_at': 'Sun Nov 26 00:14:54 +0000 2017',
          'default_profile': True,
          'default_profile_image': False,
          'description': 'Unapologetic advocate of common law, constitu
tional '
                                'monarchy, broadly interpreted right of self '
                                'defense. Read https://t.co/oOeCSGuJbs & repl
y #PuMo '
                                'before DMing.',
          'entities': {'description': {'urls': [{'display_url': 'citjou
rno.org',
                                                'expanded_url': 'htt
p://citjournno.org',
                                                'indices': [111, 134],
                                                'url': 'https://t.co/o
OeCSGuJbs'}]}},
                                'url': {'urls': [{'display_url': 'citjournno.or
g',
                                                'expanded_url': 'http://citjou
rno.org',
                                                'indices': [0, 23],
                                                'url': 'https://t.co/oOeCSGuJb
s'}]}},
          'favourites_count': 101647,
          'follow_request_sent': False,

```

```

'followers_count': 1063,
'following': False,
'friends_count': 4996,
'geo_enabled': False,
'has_extended_profile': False,
'id': 934576158305345536,
'id_str': '934576158305345536',
'is_translation_enabled': False,
'is_translator': False,
'lang': 'en',
'listed_count': 16,
'location': 'Upper Canada',
'name': 'Jory_N',
'notifications': False,
'profile_background_color': 'F5F8FA',
'profile_background_image_url': None,
'profile_background_image_url_https': None,
'profile_background_tile': False,
'profile_banner_url': 'https://pbs.twimg.com/profile_banners/
934576158305345536/1530170346',
'profile_image_url': 'http://pbs.twimg.com/profile_images/938
423016085708800/Zt3yw7GB_normal.jpg',
'profile_image_url_https': 'https://pbs.twimg.com/profile_ima
ges/938423016085708800/Zt3yw7GB_normal.jpg',
'profile_link_color': '1DA1F2',
'profile_sidebar_border_color': 'C0DEED',
'profile_sidebar_fill_color': 'DDEEF6',
'profile_text_color': '333333',
'profile_use_background_image': True,
'protected': False,
'screen_name': 'Jory_Nal',
'statuses_count': 84659,
'time_zone': None,
'translator_type': 'none',
'url': 'https://t.co/oOeCSGuJbs',
'utc_offset': None,
'verified': False}}

```

```

In [2]: with open('last_100_timeline_tweets.json', 'rb') as f_in:
        with gzip.open('last_100_timeline_tweets.json.gz', 'wb') as f_out:
            shutil.copyfileobj(f_in, f_out)

```

In []: