(1) Create a JSON File of Your Credentials

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In [ ]:
         Q1: Create your own credential JSON file in the current directory.
             At first, you need to create a dictionary of your credentials.
             Second, you need to create a JSON file (i.e. twitter_credentials.json) of your cred
In [ ]:
         credential = {"API KEY": "VqR9HJemANJ893BekWXTxXWT7",
             "API_SECRET": "gfAdxfdXj3eP9xH1XzwkKlcs7tQ6x2q68yzQRP4g0zuDu3t0iF",
             "ACCESS TOKEN": "1244356645393707024-YgjM3PKRbwc65oFmmgdyEFNSkhoHqF",
             "ACCESS TOKEN SECRET": "LJLnwmw65iMuZnR2ULsU5RQq8Edfu4f1oHUilW3If9TTe"
         }
         credential
In [ ]:
         import json
         outfile = open('twitter_credentials.json', 'w')
         json.dump(credential, outfile)
         outfile.close()
       (2) Collect 1K Tweets of Your Keyword
In [ ]:
         Q2: Choose your own keyword to collect 1K tweets.
             Please collect 1K tweets. Please use a code in Data_Collection_Twitter_API.ipynb.
             You will have "tweet stream easter 1000.json" in your working folder.
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In [ ]:
         from twython import Twython
         import sys
In [ ]:
         infile = open('twitter credentials.json', 'r')
         credentials = json.load(infile)
         infile.close()
         credentials
In [ ]:
         API_KEY = credentials['API_KEY']
         API SECRET = credentials['API SECRET']
In [ ]:
         twitter = Twython(API KEY, API SECRET)
```

(3) Read the JSON file for Prelinimary Analysis

(4) Preliminary Analysis

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In []:
    Q4: What are the ten most popular hashtags?
In []: import json
    from collections import Counter
    from pprint import pprint

In []: infile = open('tweet_stream_easter_1000.json')
    data = json.load(infile)
    infile.close()

In []: type(data)
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In [ ]:
        hashtag_list = []
         for t in data:
            for h in t['entities']['hashtags']:
                if h != []:
                    hashtag_list.append(h['text'])
In [ ]:
        pprint(hashtag_list)
In [ ]:
         c = Counter(hashtag list)
In [ ]:
         c.most_common(10)
In [ ]:
         Q5: Who is the most frequently tweeting person about the topic?
In [ ]:
         name_list = []
        for t in data:
            if t != '':
                name_list.append(t['user']['name'])
In [ ]:
         pprint(name list)
In [ ]:
         c = Counter(name list)
In [ ]:
         c.most_common(10)
       (5) Create a WordCloud from Your 1K Tweets
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In []: ...
    Q6: (1) Read your JSON file (i.e. tweet_stream_easter_1000.json) and assign it to "conton" (2) Generate a WordCloud image from the "contents" variable.

In []: from wordcloud import WordCloud import matplotlib.pyplot as plt %matplotlib inline

In []: infile = open('tweet_stream_easter_1000.json') contents = infile.read() infile.close()
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