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CS432
Assignment 6

Q1) Use D3 to visualize your Twitter followers. Use my Twitter account("@phonedude_mln") if you do not have >= 50 followers. For example, @hvdsomp follows me, as does @mart1nkle1n. They also follow each other, so they would both have links to me and links to each other.

Since I did not use Python to get the number of followers each of my followers had, adapted a classmate's assignment 4 code(with their permission) to fit the specifications of this assignment. I used the same basic Twitter API login credentials we have been using since Assignment2, for my class Twitter account, @bryancarey432.

```python
#coding: utf-8
import ...

reload(sys)
sys.setdefaultencoding('utf8')

def followMe():
    global api
    #Variables that contains the user credentials to access Twitter API
    access_token = "824820399762452480-9FZmzAd7MfHiBHgW5GMRBeel1qbVjZg"
    access_token_secret = "cT7rQHs4ytUZ6E9OqKfGYvJGpHkxIwcbIhAaRtmqo86e2"
    consumer_key = "D3MfZP8WxfogxUxJ1dVAHXaZn"
    consumer_secret = "QsIB7CUyrFVONuqUjEE5nIhBvUHrsz5HYC5H2nw9kmUEnAK45o"
    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)
    file = open('followerlist.txt', 'w+')
    user = api.get_user("bryancarey432")

    followers = []

    for user in tweepy.Cursor(api.followers, count=50).items():
        followers.append((user.profile_image_url, user.screen_name, user.name, user.id_str))

        #print >> file, user.profile_image_url
        print >> file, user.screen_name
        #print >> file, user.name
        #print >> file, user.id_str

    file.close()
```

I was told to utilize the #coding: utf-8 header in Python, I had never heard of it so this prompted me to do my research. I found information at
http://stackoverflow.com/questions/13807748/when-to-use-utf8-as-a-header-in-py-files
, where I learned it was helpful when the source for your program contains unicode or other non-ascii characters to avoid complaints from the interpreter. This makes

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perfect sense, sense it is not uncommon for people to stylize their names on social media with characters such as ă.

I ran my followMe.py twice, once to compile a .txt file of just my follower names, as is pictured above. The list of my followers totaled 89. I then ran it with the other parameters that are commented out above and saved a copy as both .txt, and .csv files, as to provide me with data that would later be converted into nodes that would be used in conjunction with R and the D3 graphing packing to render my visual. To the right, below is a sample from followerlist.txt & to the right a sample of my followMe.csv.

XlMsQueenlX
PowersDickens
DaveEast15
fleurettekrish2
shamiramadi
bchills007
BenjaminEnfield
malikcarey21
Kash_eea
tierraa_olivia
sayzenzay
livinglikejulia
_NadiByNature

http://pb:.twimg.com/profile_images/840987535178379266/Z-DGaidT_normal.jpg
XlMsQueenlX
8.12E+17
http://pbs.twimg.com/profile_images/701848566139060225/lRmKfCis_normal.jpg
PowersDickens
2.37E+09
http://pbs.twimg.com/profile_images/843852242474209282/zflBSHik_normal.jpg
DaveEast15
8.44E+17
http://pbs.twimg.com/profile_images/815789740549148672/I1I8CH3p_normal.jpg
fleurettekrish2
8.16E+17