

Project Outline

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Available At: GitHub - https://github.com/thepickpocket/COS720-Securities

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PROJECT OUTLINE

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The project is build in Python (Version 2.7.11) using MongoDB (Version 3.2.5) as the database. Our database consists of the following:

DESCRIPTION	AMOUNT
Total Records	4764733
Total Unique Profiles	6848

Dependancies

- plotly For creating graphs.
- pytagcloud For creating word clouds.
- HTMLParser Helps with cleaning the data.
- pytz Dependancy of used library.
- pygame Dependancy of used library.
- pymongo To create a mongodb client in python.
- simplejson Dependancy of used library.

Preparations

Before any data could be read into the database, the encoding of the file needed to be changed from Latin1 to UTF-8 using the following linux command:

iconv -f latin1 -t utf-8 data.txt > utf_data.txt

After encoding the data in the right format, we needed to escape the quotation characters correctly as MongoDB needs it, so instead of escaping with a backslash (\") we escaped with a quotation mark ("")

Project Implementation

Data Cleaning Techniques Used

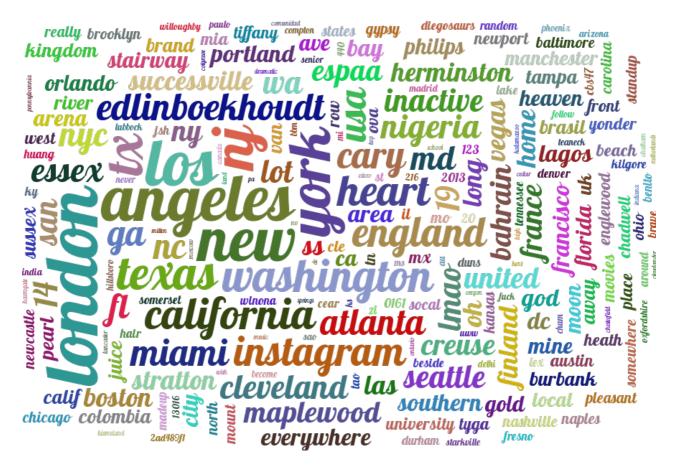
- HTML Character Escaping
- Removal of non-printable characters
- Lowercase everything
- Removal of links
- Removal of @ Mentions
- Removal of Stopping words
- Removal of punctuation

Word Clouds Generated

User submitted content (Tweet Content)

```
city neva team rlly emrt 2000 county oither first gotta
                 now way real
                                      🚆 fans
           bring vidas gv_hhp
                                                                                               rude 🕏
                                        second county either first gotta
                                                                                           much
Leave can
         nunzio ahahaha todayrt yearone wilson winning order
                                           micronic ...runsaid energy anytime
  youtube drivers welcome
                                                                                     ass lmaoflu <mark>years</mark>
      remember purposely attention montijoxo
                                                                 gradetime
                                  contractim
annoying grandepremio
                                                     facuplooking
                                                                         beloved even
                                                                                  friends
                                 nunzioskitchen
 jcislife rogerstimiwant strikerphotogenic efficientworn
                                                                       pessoasok remuyg
permanent tiredlike
                                                   austinartistic
                                                          jealousremember
                                                                                          however
                                                             ponytailvideo 🕿
                                                                                             course
                                                                     construction
                                                                                      paperju
chelsea
                                                                                        patrons
                                                                                         mention
                             mine new still
            type wish mine new still deliberate allowed sayrevilleprobslook machinery leading really entrancetoday insteadlmao officialdaddymo murtzjaffer events olympics skora04 nigga
                                                                                  allowed
         reallysometimes good sayrevilleprobslook machinery leading
                                                                                                    really come
                                                                                                      maybe song
                                a docinreallife physically questions
buchyogba
                  halloween
                                                                            tasteful
  margin despite players production marathon rigging
            jimmy class actual thwomen seis peanut little thought seis peanut little thought skirt werrt great go make comy face to year dead move
                                                                 skirt werrt great going usrt fund
ar dead meat going
```

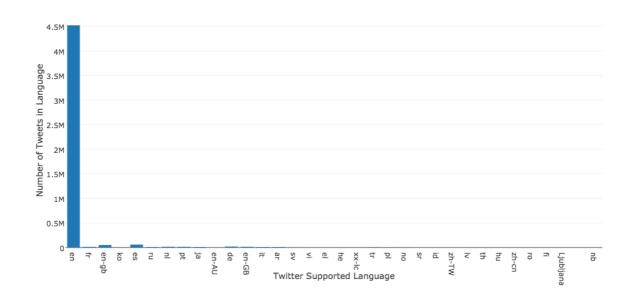
Locations

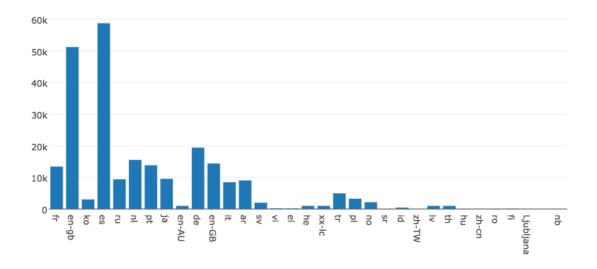


Statistics Generated

• Languages used to tweet

Number of tweets in supported languages





• Whether people enabled location sharing or not

Percentage of Users Sharing/Hiding Location When Tweeting

