Wrangle-and-Analyze-Data Project

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1/ Gathering Data

In this project, I worked on the following three datasets:

1- Enhanced Twitter Archive

I downloaded this file from Udacity source, then I worked to import this file as dataframe (df_t).

2- tweet image prediction

I downloaded this file from Udacity source, then I worked to import this file as dataframe (df_img).

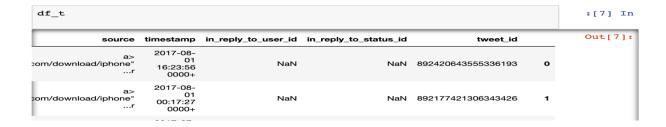
3- Data from Twitter API

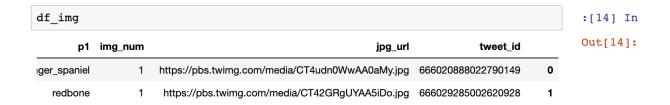
I didn't use twitter API to import data, because I don't want to create the developer account, just Itake this data from Udacity source, then I worked to import this file as dataframe (df_json).

2/ Assessing Data

Visual Assessment:

I used this code lines 'For three dataframes' to discover any quality and tidiness issues:





df_json							:[19] In
	url	retweet_status	retweet_count	favorite_count	tweet_id		Out[19]:
	https://t.co/MgUWQ76dJU	Original tweet	8853	39467	892420643555336193	0	
	https://t.co/0Xxu71qelV	Original tweet	6514	33819	892177421306343426	1	

Quality issues:

- 1. 'df_t': I will remove these columns (puppo, pupper, floofer, doggo) and change it with one column with name(type).
- 2. 'df_t': The (timestamp) column Recorded in a different format.
- 3. 'df_t': Not necessary the html tags in (source) column.
- 4. 'df_t': Unify the values of (rating_denominator) to be equal 10.
- 5. 'df_t, df_img, df_json': Convert (tweet_id) column from integer to String
- 6. 'df_img': Convert (img_num) column from integer to String.
- 7. 'df_img': Rename the columns (p1, p1_conf, p1_dog

, p3, p3_conf, p3_dog) to be more clearly.

8. 'df_img': Remove duplicates in jpg_url column

Tidiness issues:

1. I will remove these Columns in dataframe(df t):

```
in_reply_to_status_id
in_reply_to_user_id
retweeted_status_id
retweeted_status_user_id
retweeted_status_timestamp
```

because it have alot of null vaues

2. Merge all data frames (df_t, df_img, df_json) into a single data frame named (df).

3/ Cleaning Data

In this step of the project, I fixed all quality and Tidiness issues, first I made copies of each of the three dataframes. I named the cloned dataframs with these names (df_t2, df_img2, df_json2), and then I first started working on cleaning up the problems of Tidiness:

1/ I combined all the dataframes under a single datafram with this name (df).

2/ I deleted some columns with too many of missing data.

After that I started working on cleaning uu the quality issues.

4/ Storing Data

After I finished cleaning datafram (df), I stored it in a csv file with the name twitter_archive_master.csv