

wrangle_act

October 9, 2020

1 Wrangle Up Them Puppo's

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```
In [1]: #Import libraries
import pandas as pd
import re
import tweepy
```

```
In [2]: #Connect to Twitter API
consumer_key = ''
consumer_secret = ''
access_token = ''
access_token_secret = ''

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, wait_on_rate_limit_notify=True)
```

```
In [3]: #Test API connection and understand the JSON layout of each twitter post
#Inserted random tweet_id from archive
tweet_id = 892420643555336193
tweet = api.get_status(tweet_id, tweet_mode='extended')
print(tweet)
```

```
display_url': 'Shackles on a tweet by @api and @es0x7f083237d150>,'description': 'The Aug 01 16 23 55
```

Gathering

Steps I've taken to compile all data into a single df for analysis and further wrangling:

1. Read in 'twitter-archive-enhanced.csv' as archive_df: This will allow me to pull the specific tweet_id needed
2. Create list of tweet id's
3. Implement an iteration that will loop through the id list and extract the JSON file from Tweepy all while converting and storing each JSON file on a separate line in 'tweet_json.txt'
4. Iterate through the .txt file to pull tweet_id, retweet_count and favorite_count. Regex will be very useful here
5. While iterating through .txt store variables in df_list dictionary.
6. Create a pandas DataFrame 'df' from df_list just created
7. Join archive_df and df on tweet_id as df_join
8. Read in 'image-predictions.tsv' as predictions_df
9. Iterate thru predictions_df comparing the tweet_id from df_join while pulling dog type with highest probability only if value is a dog breed (TRUE).
10. Create df_list of dictionary items from iteration we can then merge with df_join to create master_df.

We are then going to use a copy of master_df to perform all the assessing and cleaning to create our final df.

```
In [4]: #Read in 'twitter-archive-enhanced.csv'
        archive_df = pd.read_csv('twitter-archive-enhanced.csv')

        #Understand data structure
        archive_df.info()
```

```
<class 'pandas.core.frame.DataFrame'>
RangeIndex: 2356 entries, 0 to 2355
Data columns (total 17 columns):
tweet_id                2356 non-null int64
in_reply_to_status_id   78 non-null float64
in_reply_to_user_id     78 non-null float64
timestamp               2356 non-null object
source                  2356 non-null object
text                    2356 non-null object
retweeted_status_id     181 non-null float64
retweeted_status_user_id 181 non-null float64
retweeted_status_timestamp 181 non-null object
expanded_urls           2297 non-null object
rating_numerator        2356 non-null int64
rating_denominator      2356 non-null int64
name                    2356 non-null object
doggo                   2356 non-null object
floofer                 2356 non-null object
pupper                  2356 non-null object
puppo                   2356 non-null object
dtypes: float64(4), int64(3), object(10)
memory usage: 313.0+ KB
```

```

In [9]: #Import timer
        from timeit import default_timer as timer

        #Iterate through tweet_id's and append JSON informatin to 'tweet_json.txt'
        #Implement count number to track code running visually
        count = 0
        tweet_id = archive_df.tweet_id.tolist()
        start = timer()

        for tweet_id in tweet_id:
            count += 1

            #Write in try/except function just in case id no longer exists
            try:
                tweet = api.get_status(tweet_id, tweet_mode='extended')
                with open('tweet_json.txt', 'a') as file:
                    if file is None:
                        file.write(str(tweet))
                    else:
                        file.write('\n{}'.format(tweet))

                print('{} completed, ID: {}'.format(count, tweet_id))

            except Exception:
                print('Tweet id: {} no longer exists'.format(tweet_id))

        end = timer()
        print(end - start)

1 completed, ID: 892420643555336193
2 completed, ID: 892177421306343426
3 completed, ID: 891815181378084864
4 completed, ID: 891689557279858688
5 completed, ID: 891327558926688256
6 completed, ID: 891087950875897856
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17 completed, ID: 888917238123831296
18 completed, ID: 888804989199671297
19 completed, ID: 888554962724278272

```

Tweet id: 888202515573088257 no longer exists

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22 completed, ID: 887705289381826560
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2031 completed, ID: 671789708968640512
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2033 completed, ID: 671763349865160704

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2047 completed, ID: 671520732782923777
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2068 completed, ID: 671141549288370177
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2352 completed, ID: 666049248165822465
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2354 completed, ID: 666033412701032449
2355 completed, ID: 666029285002620928
2356 completed, ID: 666020888022790149
1912.991207177

```
In [122]: #Create list for dict and appending after loop
df_list = []
```

```
#Read in .txt file 'tweet_json.txt' with proper encoding 'utf-8'
file = open('tweet_json.txt', 'r', encoding='utf-8')
```

```
#Create iteration line by line to find retweet_count, favorite_count & id
for _ in file:
```

```
    ##Implemented try/except function because 1 id was empty so indexing was out of range
```

```

try:
    string = file.readline()

    #Regex out tweet_id so we can join df's properly
    tweet = re.findall(r'"id":\s\d+', string)[0]
    tweet_id = re.findall(r'\d+', tweet)[0]

    #Regex out retweet_count
    retweets = re.findall(r'"retweet_count":\s\d+', string)[0]
    retweet_count = re.findall(r'\d+', retweets)[0]

    #Regex out favorite_count
    favorites = re.findall(r'"favorite_count":\s\d+', string)[0]
    favorite_count = re.findall(r'\d+', favorites)[0]

    # Append to list of dictionaries
    df_list.append({'tweet_id': int(tweet_id),
                    'retweet_count': int(retweet_count),
                    'favorite_count': int(favorite_count)})

except Exception:
    print('Error: Index out of range')

#Create df so we can join with other dog twitter data
df = pd.DataFrame(df_list, columns = ['tweet_id', 'retweet_count', 'favorite_count'])

In [123]: #Double check to make sure all columns and rows created properly.
df.info()

<class 'pandas.core.frame.DataFrame'>
RangeIndex: 1918 entries, 0 to 1917
Data columns (total 3 columns):
tweet_id      1918 non-null int64
retweet_count  1918 non-null int64
favorite_count 1918 non-null int64
dtypes: int64(3)
memory usage: 45.0 KB

```

Explanation on merge vs. join used below: I used merge because it automatically uses an inner join technique we need. I only want to keep tweet_ids that match because since other tweet_id no longer exist I wasn't able to pull data using Tweepy.

```

In [124]: #Merge archive_df and df DataFrames
df_join = pd.merge(archive_df, df, on='tweet_id')

#Test Successfullness - should be 752 max rows
df_join.info()

```

```

<class 'pandas.core.frame.DataFrame'>
Int64Index: 1918 entries, 0 to 1917
Data columns (total 19 columns):
tweet_id                1918 non-null int64
in_reply_to_status_id   70 non-null float64
in_reply_to_user_id     70 non-null float64
timestamp               1918 non-null object
source                  1918 non-null object
text                    1918 non-null object
retweeted_status_id     108 non-null float64
retweeted_status_user_id 108 non-null float64
retweeted_status_timestamp 108 non-null object
expanded_urls           1866 non-null object
rating_numerator         1918 non-null int64
rating_denominator       1918 non-null int64
name                    1918 non-null object
doggo                   1918 non-null object
floofer                 1918 non-null object
pupper                 1918 non-null object
puppo                   1918 non-null object
retweet_count           1918 non-null int64
favorite_count          1918 non-null int64
dtypes: float64(4), int64(5), object(10)
memory usage: 299.7+ KB

```

```

In [125]: #Read in 'image-predictions.tsv' as predictions_df
          predictions_df = pd.read_csv('image-predictions.tsv', sep='\t')

          #Check - Understand df
          predictions_df.head()

```

```

Out[125]:
          tweet_id                jpg_url \
0  666020888022790149  https://pbs.twimg.com/media/CT4udnOWwAA0aMy.jpg
1  666029285002620928  https://pbs.twimg.com/media/CT42GRgUYAA5iDo.jpg
2  666033412701032449  https://pbs.twimg.com/media/CT4521TWwAEvMyu.jpg
3  666044226329800704  https://pbs.twimg.com/media/CT5Dr8HUEAA-lEu.jpg
4  666049248165822465  https://pbs.twimg.com/media/CT5IQmsXIAAKY4A.jpg

          img_num      p1      p1_conf  p1_dog      p2 \
0           1  Welsh_springer_spaniel  0.465074    True      collie
1           1                redbone  0.506826    True  miniature_pinscher
2           1      German_shepherd  0.596461    True      malinois
3           1  Rhodesian_ridgeback  0.408143    True      redbone
4           1  miniature_pinscher  0.560311    True      Rottweiler

          p2_conf  p2_dog      p3      p3_conf  p3_dog
0  0.156665    True  Shetland_sheepdog  0.061428    True

```

1	0.074192	True	Rhodesian_ridgeback	0.072010	True
2	0.138584	True	bloodhound	0.116197	True
3	0.360687	True	miniature_pinscher	0.222752	True
4	0.243682	True	Doberman	0.154629	True

Next,

I need to create a df with tweet_id, highest probability dog breed given dog breed is true and neural network probability. This will make it very easy to merge information into our current data set.

I believe this would also be considered a **tidiness issue** (1) as we would need to combine these observational forms into a single row.

In [126]: *#Create new columns prior to iteration*

```

predictions_df['breed'] = 'NaN'
predictions_df['high_conf'] = 'NaN'
predictions_df['is_dog'] = 'NaN'
predictions_df.head()

```

Out[126]:

	tweet_id	jpg_url
0	666020888022790149	https://pbs.twimg.com/media/CT4udn0WwAA0aMy.jpg
1	666029285002620928	https://pbs.twimg.com/media/CT42GRgUYAA5iDo.jpg
2	666033412701032449	https://pbs.twimg.com/media/CT4521TWwAEvMyu.jpg
3	666044226329800704	https://pbs.twimg.com/media/CT5Dr8HUEAA-lEu.jpg
4	666049248165822465	https://pbs.twimg.com/media/CT5IQmsXIAAKY4A.jpg

	img_num	p1	p1_conf	p1_dog	p2
0	1	Welsh_springer_spaniel	0.465074	True	collie
1	1	redbone	0.506826	True	miniature_pinscher
2	1	German_shepherd	0.596461	True	malinois
3	1	Rhodesian_ridgeback	0.408143	True	redbone
4	1	miniature_pinscher	0.560311	True	Rottweiler

	p2_conf	p2_dog	p3	p3_conf	p3_dog	breed	high_conf
0	0.156665	True	Shetland_sheepdog	0.061428	True	NaN	NaN
1	0.074192	True	Rhodesian_ridgeback	0.072010	True	NaN	NaN
2	0.138584	True	bloodhound	0.116197	True	NaN	NaN
3	0.360687	True	miniature_pinscher	0.222752	True	NaN	NaN
4	0.243682	True	Doberman	0.154629	True	NaN	NaN

	is_dog
0	NaN
1	NaN
2	NaN
3	NaN
4	NaN

In [127]: *#Compare all confidence values through iteration*
#Create top confidence given is_dog == True

```

p = predictions_df.loc
for index, row in predictions_df.iterrows():
    if p[index, 'p1_dog'] == True:
        if p[index, 'p1_conf'] > int(p[index, 'p2_conf']) & int(p[index, 'p3_conf']):
            p[index, 'breed'] = p[index, 'p1']
            p[index, 'high_conf'] = p[index, 'p1_conf']
            p[index, 'is_dog'] = True

    elif p[index, 'p2_dog'] == True:
        if p[index, 'p2_conf'] > int(p[index, 'p1_conf']) & int(p[index, 'p3_conf']):
            p[index, 'breed'] = p[index, 'p2']
            p[index, 'high_conf'] = p[index, 'p2_conf']
            p[index, 'is_dog'] = True

    elif p[index, 'p3_dog'] == True:
        if p[index, 'p3_conf'] > int(p[index, 'p1_conf']) & int(p[index, 'p2_conf']):
            p[index, 'breed'] = p[index, 'p3']
            p[index, 'high_conf'] = p[index, 'p3_conf']
            p[index, 'is_dog'] = True

#Check outcomes cross-referenced with prior data visually
predictions_df.head(10)

```

```

Out[127]:
      tweet_id      jpg_url \
0  666020888022790149  https://pbs.twimg.com/media/CT4udnOWwAA0aMy.jpg
1  666029285002620928  https://pbs.twimg.com/media/CT42GRgUYAA5iDo.jpg
2  666033412701032449  https://pbs.twimg.com/media/CT4521TWwAEvMyu.jpg
3  666044226329800704  https://pbs.twimg.com/media/CT5Dr8HUEAA-lEu.jpg
4  666049248165822465  https://pbs.twimg.com/media/CT5IQmsXIAAKY4A.jpg
5  666050758794694657  https://pbs.twimg.com/media/CT5Jof1WUAEuVxN.jpg
6  666051853826850816  https://pbs.twimg.com/media/CT5KoJ1WoAAJash.jpg
7  666055525042405380  https://pbs.twimg.com/media/CT5N9tpXIAAifs1.jpg
8  666057090499244032  https://pbs.twimg.com/media/CT5PY90WoAAQGLo.jpg
9  666058600524156928  https://pbs.twimg.com/media/CT5Qw94XAAA_2dP.jpg

```

	img_num	p1	p1_conf	p1_dog	p2	\
0	1	Welsh_springer_spaniel	0.465074	True	collie	
1	1	redbone	0.506826	True	miniature_pinscher	
2	1	German_shepherd	0.596461	True	malinois	
3	1	Rhodesian_ridgeback	0.408143	True	redbone	
4	1	miniature_pinscher	0.560311	True	Rottweiler	
5	1	Bernese_mountain_dog	0.651137	True	English_springer	
6	1	box_turtle	0.933012	False	mud_turtle	
7	1	chow	0.692517	True	Tibetan_mastiff	
8	1	shopping_cart	0.962465	False	shopping_basket	
9	1	miniature_poodle	0.201493	True	komondor	

p2_conf	p2_dog	p3	p3_conf	p3_dog	\
---------	--------	----	---------	--------	---

0	0.156665	True	Shetland_sheepdog	0.061428	True
1	0.074192	True	Rhodesian_ridgeback	0.072010	True
2	0.138584	True	bloodhound	0.116197	True
3	0.360687	True	miniature_pinscher	0.222752	True
4	0.243682	True	Doberman	0.154629	True
5	0.263788	True	Greater_Swiss_Mountain_dog	0.016199	True
6	0.045885	False	terrapin	0.017885	False
7	0.058279	True	fur_coat	0.054449	False
8	0.014594	False	golden_retriever	0.007959	True
9	0.192305	True	soft-coated_wheaten_terrier	0.082086	True

	breed	high_conf	is_dog
0	Welsh_springer_spaniel	0.465074	True
1	redbone	0.506826	True
2	German_shepherd	0.596461	True
3	Rhodesian_ridgeback	0.408143	True
4	miniature_pinscher	0.560311	True
5	Bernese_mountain_dog	0.651137	True
6	NaN	NaN	NaN
7	chow	0.692517	True
8	golden_retriever	0.00795896	True
9	miniature_poodle	0.201493	True

Why visual comparison/cross-reference?

Given the top 10 rows in *predictions_df*, it covers many possibilities of bugs. Ex: All False values for **_dog** or highest confidence representing something other than a dog.

Time to drop unimportant columns and merge with *df_join* to form a master data set

```
In [128]: #Drop unimportant information
predictions_df.drop(['p1', 'p1_conf', 'p1_dog', 'p2', 'p2_conf', 'p2_dog', 'p3', 'p3_c

#Check for success
predictions_df.head()
```

```
Out[128]:          tweet_id          jpg_url \
0  666020888022790149  https://pbs.twimg.com/media/CT4udnOWwAA0aMy.jpg
1  666029285002620928  https://pbs.twimg.com/media/CT42GRgUYAA5iDo.jpg
2  666033412701032449  https://pbs.twimg.com/media/CT4521TWwAEvMyu.jpg
3  666044226329800704  https://pbs.twimg.com/media/CT5Dr8HUEAA-lEu.jpg
4  666049248165822465  https://pbs.twimg.com/media/CT5IQmsXIAAKY4A.jpg

      img_num      breed  high_conf
0          1  Welsh_springer_spaniel  0.465074
1          1          redbone  0.506826
2          1    German_shepherd  0.596461
3          1  Rhodesian_ridgeback  0.408143
4          1  miniature_pinscher  0.560311
```

```
In [129]: #Merge into master dataset
```

```
master_df = pd.merge(predictions_df, df_join, on='tweet_id')
master_df.head()
```

```
Out[129]:
```

	tweet_id	jpg_url	\
0	666020888022790149	https://pbs.twimg.com/media/CT4udnOWwAA0aMy.jpg	
1	666033412701032449	https://pbs.twimg.com/media/CT4521TWwAEvMyu.jpg	
2	666049248165822465	https://pbs.twimg.com/media/CT5IQmsXIAAKY4A.jpg	
3	666051853826850816	https://pbs.twimg.com/media/CT5KoJ1WoAAJash.jpg	
4	666057090499244032	https://pbs.twimg.com/media/CT5PY90WoAAQGLo.jpg	

	img_num	breed	high_conf	in_reply_to_status_id	\
0	1	Welsh_springer_spaniel	0.465074	NaN	
1	1	German_shepherd	0.596461	NaN	
2	1	miniature_pinscher	0.560311	NaN	
3	1	NaN	NaN	NaN	
4	1	golden_retriever	0.00795896	NaN	

	in_reply_to_user_id	timestamp	\
0	NaN	2015-11-15 22:32:08 +0000	
1	NaN	2015-11-15 23:21:54 +0000	
2	NaN	2015-11-16 00:24:50 +0000	
3	NaN	2015-11-16 00:35:11 +0000	
4	NaN	2015-11-16 00:55:59 +0000	

	source	\
0	<a href="http://twitter.com/download/iphone" r...	
1	<a href="http://twitter.com/download/iphone" r...	
2	<a href="http://twitter.com/download/iphone" r...	
3	<a href="http://twitter.com/download/iphone" r...	
4	<a href="http://twitter.com/download/iphone" r...	

	text	...	\
0	Here we have a Japanese Irish Setter. Lost eye...	...	
1	Here is a very happy pup. Big fan of well-main...	...	
2	Here we have a 1949 1st generation vulpix. Enj...	...	
3	This is an odd dog. Hard on the outside but lo...	...	
4	My oh my. This is a rare blond Canadian terrie...	...	

	expanded_urls	rating_numerator	\
0	https://twitter.com/dog_rates/status/666020888...	8	
1	https://twitter.com/dog_rates/status/666033412...	9	
2	https://twitter.com/dog_rates/status/666049248...	5	
3	https://twitter.com/dog_rates/status/666051853...	2	
4	https://twitter.com/dog_rates/status/666057090...	9	

	rating_denominator	name	doggo	floofer	pupper	puppo	retweet_count	\
0	10	None	None	None	None	None	454	

1	10	a	None	None	None	None	39
2	10	None	None	None	None	None	40
3	10	an	None	None	None	None	759
4	10	a	None	None	None	None	121

favorite_count	
0	2367
1	110
2	95
3	1105
4	261

[5 rows x 23 columns]

Assesing

Quality Issues: 1. Section ?? 2. Section ?? 3. Section ?? 4. Section ?? 5. Section ?? 6. Section ?? 7. Section ?? 8. Section ??

Tidiness Issues: 1. Section ?? 2. Section ??

Note: Some of the other quality issues were taken care of when I combined all the data so hopefully the above 7 will be enough to express my skills for cleaning.

In [130]: master_clean.describe()

```
Out[130]:
```

	img_num	rating_numerator	rating_denominator	retweet_count \
count	1658.000000	1658.000000	1658.000000	1658.000000
mean	1.221954	11.477684	10.515078	2312.925814
std	0.591797	13.099675	7.104111	3341.986716
min	1.000000	0.000000	2.000000	11.000000
25%	1.000000	10.000000	10.000000	545.250000
50%	1.000000	11.000000	10.000000	1138.500000
75%	1.000000	12.000000	10.000000	2886.000000
max	4.000000	420.000000	170.000000	34697.000000

favorite_count	
count	1658.000000
mean	8397.286490
std	10990.432601
min	69.000000
25%	1772.750000
50%	3485.000000
75%	11589.250000
max	85091.000000

In [131]: master_clean.info()

```
<class 'pandas.core.frame.DataFrame'>
Int64Index: 1658 entries, 0 to 1700
Data columns (total 15 columns):
tweet_id      1658 non-null object
```

```

jpg_url          1658 non-null object
img_num          1658 non-null int64
breed            1658 non-null object
high_conf        1658 non-null object
timestamp        1658 non-null object
source           1658 non-null object
text            1658 non-null object
expanded_urls    1658 non-null object
rating_numerator 1658 non-null int64
rating_denominator 1658 non-null int64
name            1658 non-null object
retweet_count    1658 non-null int64
favorite_count   1658 non-null int64
stage           1658 non-null object
dtypes: int64(5), object(10)
memory usage: 287.2+ KB

```

```
In [132]: master_clean.head()
```

```

Out[132]:
      tweet_id          jpg_url \
0  66602088022790149  https://pbs.twimg.com/media/CT4udnOWwAA0aMy.jpg
1  666033412701032449  https://pbs.twimg.com/media/CT4521TWwAEvMyu.jpg
2  666049248165822465  https://pbs.twimg.com/media/CT5IQmsXIAAKY4A.jpg
3  666051853826850816  https://pbs.twimg.com/media/CT5KoJ1WoAAJash.jpg
4  666057090499244032  https://pbs.twimg.com/media/CT5PY90WoAAQGLo.jpg

      img_num      breed      high_conf      timestamp \
0          1  Welsh Springer Spaniel    0.465074  2015-11-15 22:32:08
1          1    German Shepherd    0.596461  2015-11-15 23:21:54
2          1  Miniature Pinscher    0.560311  2015-11-16 00:24:50
3          1              Nan         NaN  2015-11-16 00:35:11
4          1    Golden Retriever  0.00795896  2015-11-16 00:55:59

      source      text \
0  Twitter for iPhone  Here we have a Japanese Irish Setter. Lost eye...
1  Twitter for iPhone  Here is a very happy pup. Big fan of well-main...
2  Twitter for iPhone  Here we have a 1949 1st generation vulpix. Enj...
3  Twitter for iPhone  This is an odd dog. Hard on the outside but lo...
4  Twitter for iPhone  My oh my. This is a rare blond Canadian terrie...

      expanded_urls  rating_numerator \
0  https://twitter.com/dog_rates/status/666020888...      8
1  https://twitter.com/dog_rates/status/666033412...      9
2  https://twitter.com/dog_rates/status/666049248...      5
3  https://twitter.com/dog_rates/status/666051853...      2
4  https://twitter.com/dog_rates/status/666057090...      9

```

	rating_denominator	name	retweet_count	favorite_count	stage
0	10	None	454	2367	
1	10	a	39	110	
2	10	None	40	95	
3	10	an	759	1105	
4	10	a	121	261	

Further and more programmatic representations of my assessments are threaded in with the cleaning process. I found it extremely cluttered to include it all in this section

Cleaning

```
In [133]: #Make copy before cleaning
master_clean = master_df.copy()
```

Define Drop all retweets - rows with values in retweeted_status_id, retweeted_status_user_id, and retweeted_status_timestamp columns.

```
In [134]: master_clean.query('retweeted_status_id != "NaN"')[['retweeted_status_id', 'retweeted_status_user_id', 'retweeted_status_timestamp']]
```

```
Out[134]:
```

	retweeted_status_id	retweeted_status_user_id	retweeted_status_timestamp
48	6.675487e+17	4.296832e+09	2015-11-20 03:43:06 +0000
933	7.119983e+17	7.832140e+05	2016-03-21 19:29:52 +0000
1081	7.575971e+17	2.804798e+08	2016-07-25 15:23:28 +0000
1088	6.703191e+17	4.196984e+09	2015-11-27 19:11:49 +0000
1097	7.116948e+17	4.196984e+09	2016-03-20 23:23:54 +0000

1.1.1 Code

```
In [135]: master_clean = master_clean[master_clean.retweeted_status_id.isnull()]
```

1.1.2 Test

```
In [136]: (master_clean.query('retweeted_status_id != "NaN"')['retweeted_status_id'] == None).sum()
```

```
Out[136]: 0
```

Define Drop columns retweeted_status_id, retweeted_status_user_id, and retweeted_status_timestamp because all values are Null.

```
In [137]: #All values in columns are nan
master_clean.retweeted_status_id.unique(), master_clean.retweeted_status_user_id.unique()
```

```
Out[137]: (array([ nan]), array([ nan]), array([nan], dtype=object))
```

1.1.3 Code

```
In [138]: master_clean.drop(['retweeted_status_id', 'retweeted_status_user_id', 'retweeted_status_timestamp'])
```

1.1.4 Test

```
In [139]: master_clean.columns
```

```
Out[139]: Index(['tweet_id', 'jpg_url', 'img_num', 'breed', 'high_conf',  
                'in_reply_to_status_id', 'in_reply_to_user_id', 'timestamp', 'source',  
                'text', 'expanded_urls', 'rating_numerator', 'rating_denominator',  
                'name', 'doggo', 'floofer', 'pupper', 'puppo', 'retweet_count',  
                'favorite_count'],  
               dtype='object')
```

Define Change tweet_id dtype from int64 to object as we won't be apply any operations to tweet_id.

```
In [140]: master_clean.tweet_id.dtype
```

```
Out[140]: dtype('int64')
```

1.1.5 Code

```
In [141]: master_clean.tweet_id = master_clean.tweet_id.astype(str)
```

1.1.6 Test

```
In [142]: master_clean.tweet_id.dtype
```

```
Out[142]: dtype('O')
```

Define After visually looking at columns in Excel I saw that the entire tag was present and we just want the contents.

Remove opening and closing hyperlink tag from source column by iterating through column and using Regex to pull relative information.

```
In [143]: master_clean.source.head()
```

```
Out[143]: 0    <a href="http://twitter.com/download/iphone" r...  
         1    <a href="http://twitter.com/download/iphone" r...  
         2    <a href="http://twitter.com/download/iphone" r...  
         3    <a href="http://twitter.com/download/iphone" r...  
         4    <a href="http://twitter.com/download/iphone" r...  
         Name: source, dtype: object
```

1.1.7 Code

```
In [144]: #Iteration with iterrows()  
         for index, row in master_clean.iterrows():  
             string = master_clean.loc[index, 'source']  
             master_clean.loc[index, 'source'] = re.findall((r'>[\w\s]+<'), string)[0][1:-1]
```

1.1.8 Test

```
In [145]: master_clean.source.unique()
```

```
Out[145]: array(['Twitter for iPhone', 'Twitter Web Client', 'TweetDeck'], dtype=object)
```

Define .strip() various spacing in the jpg_url column by iterating through rows.

Note: I've realized now that below isn't actually a problem and that the text in the column is just aligned to the right. Thought I would keep this in here so you could laugh at me haha :)

1.1.9 Code

```
In [146]: for index, row in master_clean.iterrows():
          master_clean.loc[index, 'jpg_url'] = master_clean.loc[index, 'jpg_url'].strip()
```

1.1.10 Test

```
In [147]: master_clean.head()
```

```
Out[147]:
```

	tweet_id	jpg_url \
0	666020888022790149	https://pbs.twimg.com/media/CT4udnOWwAAOaMy.jpg
1	666033412701032449	https://pbs.twimg.com/media/CT4521TWwAEvMyu.jpg
2	666049248165822465	https://pbs.twimg.com/media/CT5IQmsXIAAKY4A.jpg
3	666051853826850816	https://pbs.twimg.com/media/CT5KoJ1WoAAJash.jpg
4	666057090499244032	https://pbs.twimg.com/media/CT5PY90WoAAQGLo.jpg

	img_num	breed	high_conf	in_reply_to_status_id \
0	1	Welsh_springer_spaniel	0.465074	NaN
1	1	German_shepherd	0.596461	NaN
2	1	miniature_pinscher	0.560311	NaN
3	1	NaN	NaN	NaN
4	1	golden_retriever	0.00795896	NaN

	in_reply_to_user_id	timestamp	source \
0	NaN	2015-11-15 22:32:08 +0000	Twitter for iPhone
1	NaN	2015-11-15 23:21:54 +0000	Twitter for iPhone
2	NaN	2015-11-16 00:24:50 +0000	Twitter for iPhone
3	NaN	2015-11-16 00:35:11 +0000	Twitter for iPhone
4	NaN	2015-11-16 00:55:59 +0000	Twitter for iPhone

	text \
0	Here we have a Japanese Irish Setter. Lost eye...
1	Here is a very happy pup. Big fan of well-main...
2	Here we have a 1949 1st generation vulpix. Enj...
3	This is an odd dog. Hard on the outside but lo...
4	My oh my. This is a rare blond Canadian terrie...

	expanded_urls	rating_numerator \
0	https://twitter.com/dog_rates/status/666020888...	8

1	https://twitter.com/dog_rates/status/666033412...	9
2	https://twitter.com/dog_rates/status/666049248...	5
3	https://twitter.com/dog_rates/status/666051853...	2
4	https://twitter.com/dog_rates/status/666057090...	9

	rating_denominator	name	doggo	floofer	pupper	puppo	retweet_count	\
0	10	None	None	None	None	None	454	
1	10	a	None	None	None	None	39	
2	10	None	None	None	None	None	40	
3	10	an	None	None	None	None	759	
4	10	a	None	None	None	None	121	

	favorite_count
0	2367
1	110
2	95
3	1105
4	261

Define Consolidate doggo, floofer, pupper, and puppo columns into a single column to adhere with tidiness structure standards - one type of observation forms one row. Currently dog stages are in 4 different rows.

```
In [149]: master_clean.columns.tolist()
```

```
Out[149]: ['tweet_id',
            'jpg_url',
            'img_num',
            'breed',
            'high_conf',
            'in_reply_to_status_id',
            'in_reply_to_user_id',
            'timestamp',
            'source',
            'text',
            'expanded_urls',
            'rating_numerator',
            'rating_denominator',
            'name',
            'doggo',
            'floofer',
            'pupper',
            'puppo',
            'retweet_count',
            'favorite_count']
```


1.1.11 Code

```
In [151]: #Let's start by replacing None values with ''
master_clean.doggo.replace('None', '', inplace=True)
master_clean.floofer.replace('None', '', inplace=True)
master_clean.pupper.replace('None', '', inplace=True)
master_clean.puppo.replace('None', '', inplace=True)

In [152]: #Now I should be able to easily combine stages and drop columns
master_clean['stage'] = master_clean.doggo + master_clean.floofer + master_clean.pupper
master_clean.drop(['doggo', 'floofer', 'puppo', 'pupper'], axis=1, inplace=True)

In [153]: #Shows unique value we must change.
master_clean.stage.unique().tolist()

Out[153]: ['', 'pupper', 'floofer', 'doggo', 'puppo', 'doggopupper', 'doggofloofer']

In [154]: #Now we must separate the combined stages with a comma
master_clean.loc[master_clean.stage == 'doggopupper', 'stage'] = 'doggo,pupper'
master_clean.loc[master_clean.stage == 'doggofloofer', 'stage'] = 'doggo,floofer'
```

1.1.12 Test

```
In [155]: master_clean.stage.unique()

Out[155]: array(['', 'pupper', 'floofer', 'doggo', 'puppo', 'doggo,pupper',
                  'doggo,floofer'], dtype=object)

In [156]: #Further test just in case to check column layout
master_clean.head()

Out[156]:
```

	tweet_id	jpg_url	
0	666020888022790149	https://pbs.twimg.com/media/CT4udnOWwAA0aMy.jpg	
1	666033412701032449	https://pbs.twimg.com/media/CT4521TWwAEvMyu.jpg	
2	666049248165822465	https://pbs.twimg.com/media/CT5IQmsXIAAKY4A.jpg	
3	666051853826850816	https://pbs.twimg.com/media/CT5KoJ1WoAAJash.jpg	
4	666057090499244032	https://pbs.twimg.com/media/CT5PY90WoAAQGLo.jpg	

	img_num	breed	high_conf	in_reply_to_status_id	
0	1	Welsh_springer_spaniel	0.465074	NaN	
1	1	German_shepherd	0.596461	NaN	
2	1	miniature_pinscher	0.560311	NaN	
3	1	NaN	NaN	NaN	
4	1	golden_retriever	0.00795896	NaN	

	in_reply_to_user_id	timestamp	source	
0	NaN	2015-11-15 22:32:08 +0000	Twitter for iPhone	
1	NaN	2015-11-15 23:21:54 +0000	Twitter for iPhone	
2	NaN	2015-11-16 00:24:50 +0000	Twitter for iPhone	
3	NaN	2015-11-16 00:35:11 +0000	Twitter for iPhone	

```
4 NaN 2015-11-16 00:55:59 +0000 Twitter for iPhone
```

```

                                text \
0 Here we have a Japanese Irish Setter. Lost eye...
1 Here is a very happy pup. Big fan of well-main...
2 Here we have a 1949 1st generation vulpix. Enj...
3 This is an odd dog. Hard on the outside but lo...
4 My oh my. This is a rare blond Canadian terrie...

                                expanded_urls rating_numerator \
0 https://twitter.com/dog_rates/status/666020888...      8
1 https://twitter.com/dog_rates/status/666033412...      9
2 https://twitter.com/dog_rates/status/666049248...      5
3 https://twitter.com/dog_rates/status/666051853...      2
4 https://twitter.com/dog_rates/status/666057090...      9

rating_denominator name retweet_count favorite_count stage
0                10  None           454           2367
1                10    a             39            110
2                10  None             40             95
3                10   an            759           1105
4                10    a            121            261
```

Define Make uniform format of breed column. I believe capitalization and proper spacing will do great here.

```
In [157]: master_clean.breed.head()

Out[157]: 0    Welsh_springer_spaniel
          1      German_shepherd
          2    miniature_pinscher
          3                NaN
          4    golden_retriever
          Name: breed, dtype: object
```

1.1.13 Code

```
In [158]: #code help from thispointer.com
def capitalize_each_word(original_str):
    result = ""

    # Split the string and get all words in a list
    list_of_words = original_str.split()

    # Iterate over all elements in list
    for elem in list_of_words:

        # capitalize first letter of each word and add to a string
        if len(result) > 0:
```

```

        result = result + " " + elem.strip().capitalize()
    else:
        result = elem.capitalize()

    # If result is still empty then return original string else returned capitalized.
    if not result:
        return original_str
    else:
        return result

for index, row in master_clean.iterrows():

    #Set input for cap function and replace '_' with ' '(spaces).
    text = master_clean.loc[index, 'breed'].replace('_', ' ')
    master_clean.loc[index, 'breed'] = capitalize_each_word(text)

```

1.1.14 Test

```
In [159]: master_clean.breed.head()
```

```
Out[159]: 0    Welsh Springer Spaniel
          1      German Shepherd
          2    Miniature Pinscher
          3                Nan
          4    Golden Retriever
          Name: breed, dtype: object
```

Define Drop useless +0000 on the entire timestamp column. Splicing off the end 5 characters would be easiest here.

```
In [160]: master_clean.timestamp.head()
```

```
Out[160]: 0    2015-11-15 22:32:08 +0000
          1    2015-11-15 23:21:54 +0000
          2    2015-11-16 00:24:50 +0000
          3    2015-11-16 00:35:11 +0000
          4    2015-11-16 00:55:59 +0000
          Name: timestamp, dtype: object
```

1.1.15 Code

```
In [161]: for index, row in master_clean.iterrows():
          master_clean.loc[index, 'timestamp'] = master_clean.loc[index, 'timestamp'][:-6]
```

1.1.16 Test

```
In [162]: master_clean.timestamp.head()
```

```
Out[162]: 0    2015-11-15 22:32:08
          1    2015-11-15 23:21:54
          2    2015-11-16 00:24:50
          3    2015-11-16 00:35:11
          4    2015-11-16 00:55:59
          Name: timestamp, dtype: object
```

Define Drop in_reply_to_status_id and in_reply_to_user_id columns as I don't find them useful or relative to the motivation.

1.1.17 Code

```
In [163]: master_clean.drop(['in_reply_to_user_id', 'in_reply_to_status_id'], axis=1, inplace=True)
```

1.1.18 Test

```
In [164]: master_clean.columns.tolist()
```

```
Out[164]: ['tweet_id',
           'jpg_url',
           'img_num',
           'breed',
           'high_conf',
           'timestamp',
           'source',
           'text',
           'expanded_urls',
           'rating_numerator',
           'rating_denominator',
           'name',
           'retweet_count',
           'favorite_count',
           'stage']
```

Conclusion

I don't believe that all the assessing and cleaning of this dataset is complete but for the purpose of this assignment, as you mention, my above work should demonstrate my ability to Gather, Assess and Clean data. I can finally call myself a Data Wrangler.

```
In [165]: #Export master_clean to a csv file
          master_clean.to_csv(r'twitter_archive_master.csv', index = False)
```

Visualizations Code

Some of the below code is all over the place as I was experimenting a lot with how I could analysis the data. Some of the visualizations weren't really applicable or relevant.

```
In [166]: #Import libraries
          import matplotlib.pyplot as plt
          import numpy as np
          %matplotlib inline
```

Which dog vocab is used the most?

I was initially curious about how much and which dog voab word was used the most through the tweets.

```
In [167]: #Set axis values and simple plot
master_clean.groupby('stage')['stage'].count()[1:]
# labels = ['doggo', 'doggo-floofer', 'doggo-pupper', 'floofer', 'pupper', 'puppo']
# plt.pie(y, labels=labels)
```

```
Out[167]: stage
doggo          42
doggo,floofer   2
doggo,pupper    4
floofer         4
pupper        182
puppo          12
Name: stage, dtype: int64
```

```
In [168]: #Code help from matplotlib.org
fig, ax = plt.subplots(figsize=(6, 3), subplot_kw=dict(aspect="equal"))

#Set labels
labels = ['doggo', 'pupper', 'puppo', 'other']

#Pull values from master_clean
data = [42, 182, 12, 10]

wedges, texts = ax.pie(data, wedgeprops=dict(width=0.5), startangle=-40)

bbox_props = dict(boxstyle="square,pad=0.3", fc="w", ec="k", lw=0.72)
kw = dict(arrowprops=dict(arrowstyle="-"),
          bbox=bbox_props, zorder=0, va="center")

def func(pct, allvals):
    absolute = int(pct/100.*np.sum(allvals))
    return "{:.1f}%".format(absolute)

wedges, texts, autotexts = ax.pie(data, autopct=lambda pct: func(pct, data),
                                  textprops=dict(color="w"))

for i, p in enumerate(wedges):
    ang = (p.theta2 - p.theta1)/2. + p.theta1
    y = np.sin(np.deg2rad(ang))
    x = np.cos(np.deg2rad(ang))
    horizontalalignment = {-1: "right", 1: "left"}[int(np.sign(x))]
    connectionstyle = "angle,angleA=0,angleB={}".format(ang)
    kw["arrowprops"].update({"connectionstyle": connectionstyle})
```

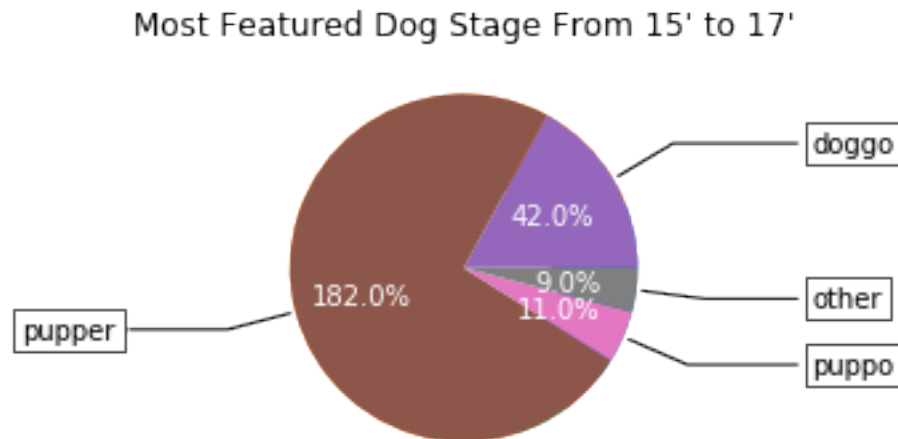
```

ax.annotate(labels[i], xy=(x, y), xytext=(2*np.sign(x), 1.4*y),
            horizontalalignment=horizontalalignment, **kw)

ax.set_title("Most Featured Dog Stage From 15' to 17'")

#Save as .png
plt.savefig('vocab.png', dpi=300)
plt.show()

```



```

In [169]: source = master_clean.groupby('source')['source'].count()
          source

          deck = source.TweetDeck
          web = source['Twitter Web Client']
          iphone = source['Twitter for iPhone']
          web

```

Out[169]: 21

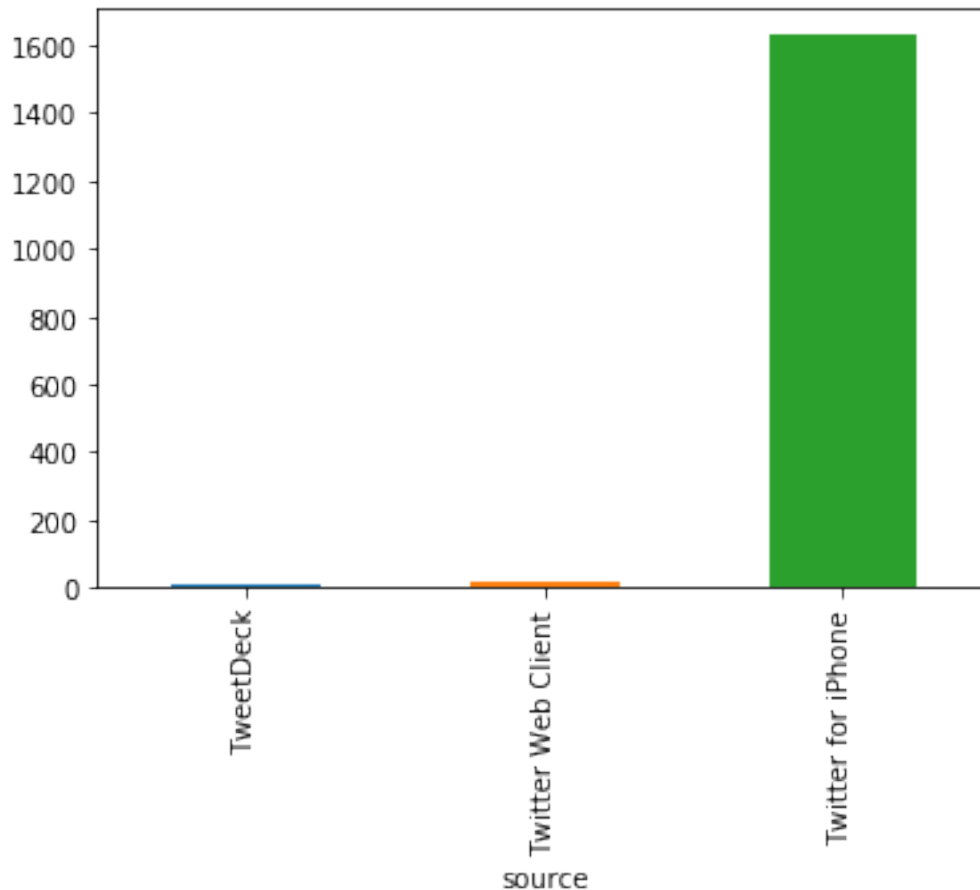
Below graph is pretty much pointless. Obviously, the vast majority of people are using twitter from their mobile device. 653 out of 659 posts!!

```

In [170]: source.plot(kind='bar')

```

Out[170]: <matplotlib.axes._subplots.AxesSubplot at 0x7fa82c702cf8>



```
In [171]: master_clean.head()
```

```
Out[171]:
```

	tweet_id	jpg_url \
0	666020888022790149	https://pbs.twimg.com/media/CT4udnOWwAA0aMy.jpg
1	666033412701032449	https://pbs.twimg.com/media/CT4521TWwAEvMyu.jpg
2	666049248165822465	https://pbs.twimg.com/media/CT5IQmsXIAAKY4A.jpg
3	666051853826850816	https://pbs.twimg.com/media/CT5KoJ1WoAAJash.jpg
4	666057090499244032	https://pbs.twimg.com/media/CT5PY90WoAAQGLo.jpg

	img_num	breed	high_conf	timestamp \
0	1	Welsh Springer Spaniel	0.465074	2015-11-15 22:32:08
1	1	German Shepherd	0.596461	2015-11-15 23:21:54
2	1	Miniature Pinscher	0.560311	2015-11-16 00:24:50
3	1	Nan	NaN	2015-11-16 00:35:11
4	1	Golden Retriever	0.00795896	2015-11-16 00:55:59

	source	text \
0	Twitter for iPhone	Here we have a Japanese Irish Setter. Lost eye...
1	Twitter for iPhone	Here is a very happy pup. Big fan of well-main...

```

2 Twitter for iPhone Here we have a 1949 1st generation vulpix. Enj...
3 Twitter for iPhone This is an odd dog. Hard on the outside but lo...
4 Twitter for iPhone My oh my. This is a rare blond Canadian terrie...

```

```

                                expanded_urls  rating_numerator  \
0 https://twitter.com/dog_rates/status/666020888...            8
1 https://twitter.com/dog_rates/status/666033412...            9
2 https://twitter.com/dog_rates/status/666049248...            5
3 https://twitter.com/dog_rates/status/666051853...            2
4 https://twitter.com/dog_rates/status/666057090...            9

```

```

rating_denominator  name  retweet_count  favorite_count stage
0                10  None             454          2367
1                10    a              39           110
2                10  None              40            95
3                10   an             759          1105
4                10    a             121           261

```

Next, I wondered **How strong is the correlation between retweet count and favorite count?**

```

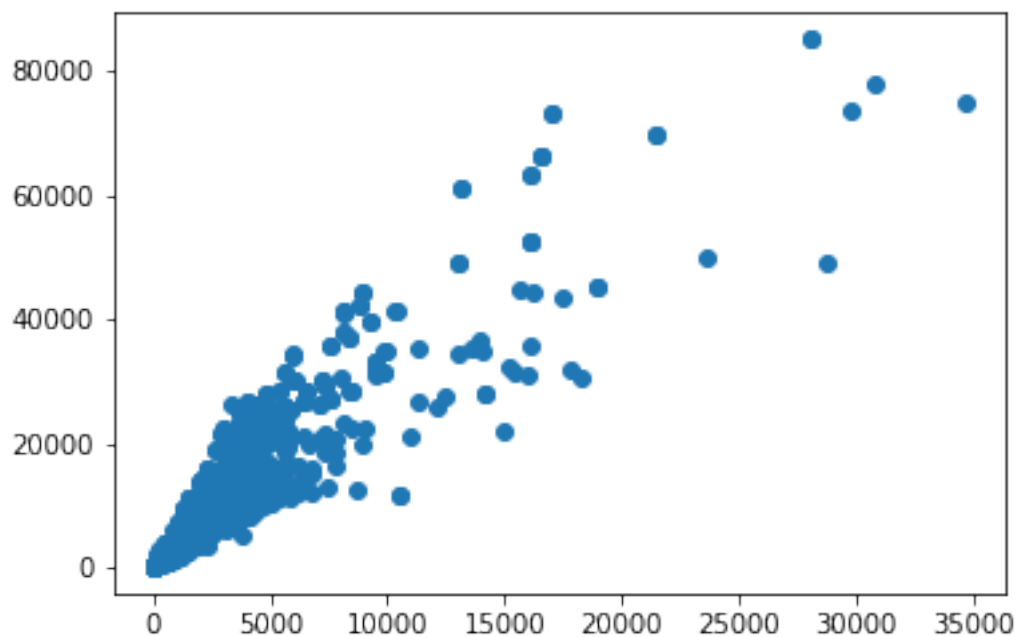
In [172]: retweets = master_clean.retweet_count
          favorites = master_clean.favorite_count
          plt.scatter(retweets, favorites)

```

```

Out[172]: <matplotlib.collections.PathCollection at 0x7fa82c63b3c8>

```




```
In [173]: #Correlation is tweets between retweet_count and favorite_count
          from scipy.stats.stats import pearsonr
```

```
          #Pearson Correlation Coefficient
          correlation = pearsonr(retweets, favorites)[0]
          correlation
```

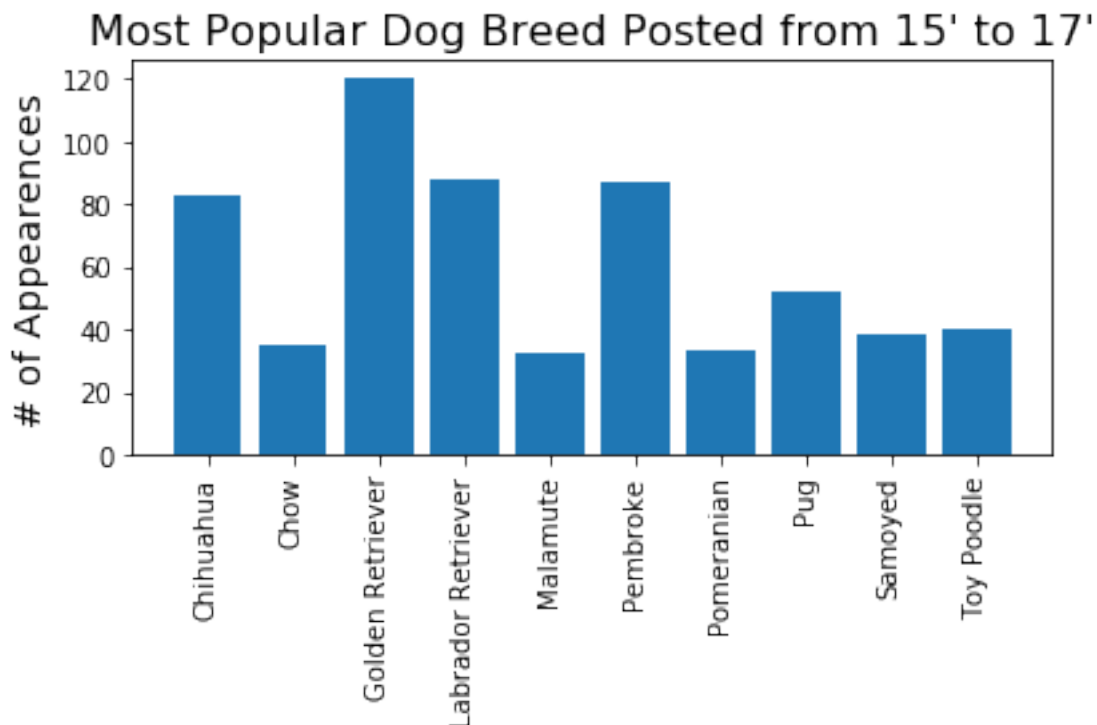
```
Out[173]: 0.91506409115233778
```

What is the most popular breed that is posted

```
In [174]: #Groupby breed, count and sort values
          top_breeds = master_clean.groupby('breed')['breed'].count().sort_values(ascending=False)
```

```
          #Plot
          top10 = top_breeds[1:]
          labels = ['Golden Retriever', 'Labrador Retriever', 'Pembroke', 'Chihuahua', 'Pug',
                    'Toy Poodle', 'Samoyed', 'Chow', 'Pomeranian', 'Malamute']
```

```
          plt.bar(labels, top10)
          plt.xticks(rotation=90)
          plt.ylabel('# of Appearances', size=14)
          plt.title("Most Popular Dog Breed Posted from 15' to 17'", size=16)
          plt.tight_layout()
          plt.savefig('popular.png', dpi=300)
```



```
In [175]: top10
```

```
Out[175]: breed
Golden Retriever      120
Labrador Retriever    88
Pembroke               87
Chihuahua             83
Pug                   52
Toy Poodle             40
Samoyed               38
Chow                  35
Pomeranian            33
Malamute              32
Name: breed, dtype: int64
```

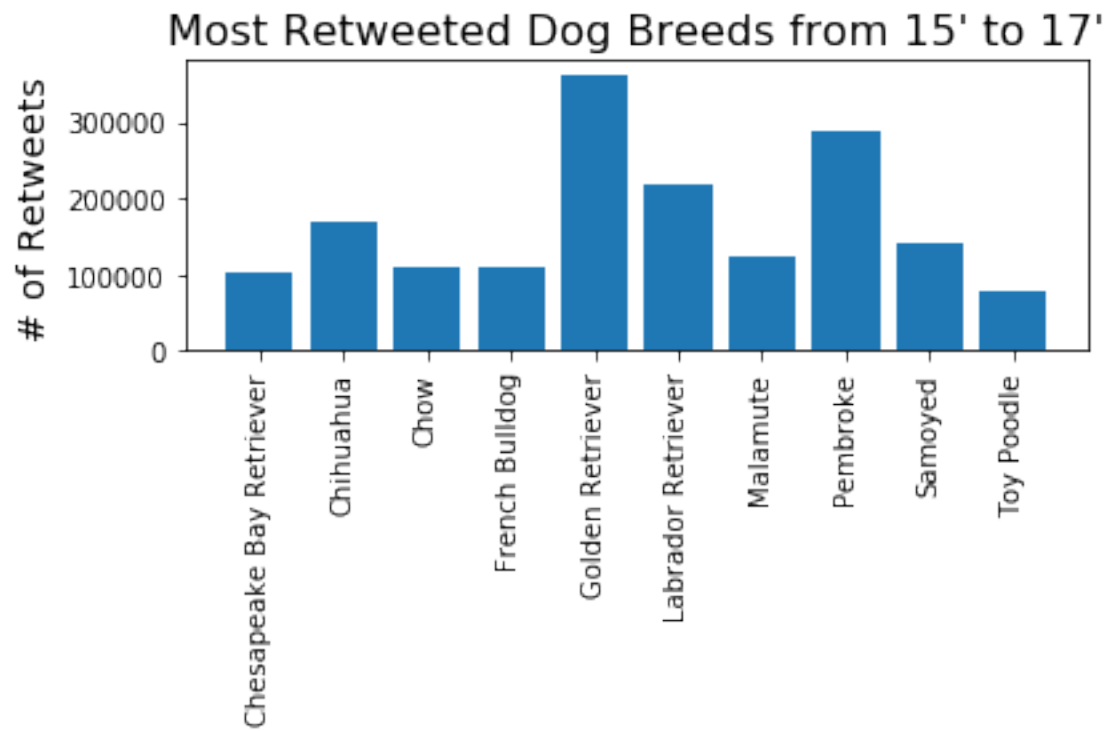
What breeds create the most retweets?

This could help use boost our page numbers in the future as we know what our audience likes the most.

```
In [176]: #Groupby breed, count retweets per breed and sort values
topBreeds = master_clean.groupby('breed')['retweet_count'].sum().sort_values(ascending=False)
top10 = topBreeds[1:]

#Plot in bar
top10 = topBreeds[1:]
labels = ['Golden Retriever', 'Pembroke', 'Labrador Retriever', 'Chihuahua', 'Samoyed',
          'Malamute', 'French Bulldog', 'Chow', 'Chesapeake Bay Retriever', 'Toy Poodle']

plt.bar(labels, top10)
plt.xticks(rotation=90)
plt.ylabel('# of Retweets', size=14)
plt.title("Most Retweeted Dog Breeds from 15' to 17'", size=16)
plt.tight_layout()
plt.savefig('popular.png', dpi=300)
```



In []: