

wrangle_act

February 7, 2023

1 Project: Wrangling and Analyze Data

1.1 Data Gathering

In the cell below, gather **all** three pieces of data for this project and load them in the notebook. **Note:** the methods required to gather each data are different. 1. Directly download the WeRateDogs Twitter archive data (twitter_archive_enhanced.csv)

```
In [1]: import os
import pandas as pd
import time
import tweepy
import json
import matplotlib.pyplot as plt
import re
import datetime
import numpy as np
import seaborn as sns
```

```
In [9]: twitter_archive_enhanced = pd.read_csv('twitter-archive-enhanced.csv')
twitter_archive_enhanced.head(2)
```

```
Out[9]:
```

	tweet_id	in_reply_to_status_id	in_reply_to_user_id	\
0	892420643555336193	NaN	NaN	
1	892177421306343426	NaN	NaN	

	timestamp	\
0	2017-08-01 16:23:56 +0000	
1	2017-08-01 00:17:27 +0000	

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

	text	retweeted_status_id	\
0	This is Phineas. He's a mystical boy. Only eve...	NaN	
1	This is Tilly. She's just checking pup on you...	NaN	

	retweeted_status_user_id	retweeted_status_timestamp	
0	NaN	NaN	
1	NaN	NaN	

	expanded_urls	rating_numerator	
0	https://twitter.com/dog_rates/status/892420643...	13	
1	https://twitter.com/dog_rates/status/892177421...	13	

	rating_denominator	name	doggo	floofer	pupper	puppo
0	10	Phineas	None	None	None	None
1	10	Tilly	None	None	None	None

In [10]: twitter_archive_enhanced.shape

Out[10]: (2356, 17)

2. Use the Requests library to download the tweet image prediction (image_predictions.tsv)

In [11]: df_predict = pd.read_csv('image_predictions.tsv', sep='\t')

df_predict.head()

Out[11]:

	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

In [12]: df_predict.shape

Out[12]: (2075, 12)

3. Use the Tweepy library to query additional data via the Twitter API (tweet_json.txt)

```

In [10]: api_key = '.....'
         api_secret = '.....'
         token = '.....'
         token_key = '.....'

         auth = tweepy.OAuthHandler(api_key, api_secret)
         auth.set_access_token(token, token_key)

         api = tweepy.API(auth)

In [11]: df_tweet_ids = twitter_archive_enhanced['tweet_id']

In [12]: tweets_error_list = []
         df_tweets = []

         start = time.time()

         # For loop which will add each available tweet json to df_list
         for tweet_id in df_tweet_ids:
             try:
                 tweet = api.get_status(tweet_id, tweet_mode= 'extended')._json

                 favorites = tweet['favorite_count'] # number of favorites for the tweet
                 retweets = tweet['retweet_count'] # number of retweets
                 user_followers = tweet['user']['followers_count'] # number of followers of the
                 user_favourites = tweet['user']['favourites_count'] # number of favourites for
                 date_time = tweet['created_at'] # the timestamp i.e. date and time of creation

                 df_tweets.append({'tweet_id': int(tweet_id),
                                   'favorites': int(favorites),
                                   'retweets': int(retweets),
                                   'user_followers': int(user_followers),
                                   'user_favourites': int(user_favourites),
                                   'date_time': pd.to_datetime(date_time)})
             except Exception as e:
                 print(str(tweet_id)+ " _ " + str(e))
                 tweets_error_list.append(tweet_id)

         # end time for execution
         end = time.time()

         #printing time for execution
         print("Total time taken for execution", end - start)

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Total time taken for execution 354.9333441257477

```

```
In [13]: #The lengh of the result
```

```
print("The lengh of the result", len(df_tweets))
```

```
The lengh of the result 872
```

```
In [13]: #The lengh of the errors
        print("The lengh of the errors", len(tweets_error_list))
```

The lengh of the errors 1485

```
In [11]: # creating DataFrames
```

```
df_tweets_json = pd.DataFrame(df_tweets, columns = ['tweet_id', 'favorites', 'retweets',
                                                    'user_favourites', 'date_time'])
```

```
In [12]: # saving the df to file
```

```
df_tweets_json.to_csv('tweet_json.txt', encoding = 'utf-8', index=False)
```

```
In [3]: #reading the saved file
```

```
df_api_data = pd.read_csv('tweet_json.txt', encoding = 'utf-8')
df_api_data.head()
```

```
Out[3]:
```

	tweet_id	favorites	retweets	user_followers	user_favourites \
0	892420643555336193	32856	6859	9384024	147172
1	892177421306343426	28380	5169	9384024	147172
2	891815181378084864	21329	3410	9384024	147172
3	891689557279858688	35814	7072	9384024	147172
4	891327558926688256	34244	7576	9384024	147172

	date_time
0	2017-08-01 16:23:56
1	2017-08-01 00:17:27
2	2017-07-31 00:18:03
3	2017-07-30 15:58:51
4	2017-07-29 16:00:24

```
In [7]: #getting general info
```

```
df_api_data.info()
```

```
<class 'pandas.core.frame.DataFrame'>
RangeIndex: 871 entries, 0 to 870
Data columns (total 6 columns):
tweet_id      871 non-null int64
favorites     871 non-null int64
retweets      871 non-null int64
user_followers 871 non-null int64
user_favourites 871 non-null int64
date_time     871 non-null object
dtypes: int64(5), object(1)
memory usage: 40.9+ KB
```

```
In [13]: twitter_archive_enhanced.sample(6)
```

```
Out[13]:
```

	tweet_id	in_reply_to_status_id	in_reply_to_user_id	\
2140	670003130994700288	NaN	NaN	
963	750719632563142656	NaN	NaN	
1627	684594889858887680	NaN	NaN	
1407	699079609774645248	NaN	NaN	
2245	667885044254572545	NaN	NaN	
1748	679062614270468097	NaN	NaN	

	timestamp	\
2140	2015-11-26 22:16:09 +0000	
963	2016-07-06 15:54:42 +0000	
1627	2016-01-06 04:38:35 +0000	
1407	2016-02-15 03:55:41 +0000	
2245	2015-11-21 01:59:37 +0000	
1748	2015-12-21 22:15:18 +0000	

	source	\
2140	<a href="http://twitter.com/download/iphone" r...	
963	<a href="http://twitter.com/download/iphone" r...	
1627	<a href="http://twitter.com/download/iphone" r...	
1407	<a href="http://twitter.com/download/iphone" r...	
2245	<a href="http://twitter.com/download/iphone" r...	
1748	<a href="http://twitter.com/download/iphone" r...	

	text	retweeted_status_id	\
2140	This is Raphael. He is a Baskerville Conquista...	NaN	
963	This is Meyer. He has to hold somebody's hand ...	NaN	
1627	"FOR THE LAST TIME I DON'T WANNA PLAY TWISTER ...	NaN	
1407	Meet Reagan. He's a Persnicketus Derpson. Grea...	NaN	
2245	Meet Stu. Stu has stacks on stacks and an eye ...	NaN	
1748	This is Chompsky. He lives up to his name. 11/...	NaN	

	retweeted_status_user_id	retweeted_status_timestamp	\
2140	NaN	NaN	
963	NaN	NaN	
1627	NaN	NaN	
1407	NaN	NaN	
2245	NaN	NaN	
1748	NaN	NaN	

	expanded_urls	rating_numerator	\
2140	https://twitter.com/dog_rates/status/670003130...	10	
963	https://twitter.com/dog_rates/status/750719632...	12	
1627	https://twitter.com/dog_rates/status/684594889...	10	
1407	https://twitter.com/dog_rates/status/699079609...	8	
2245	https://twitter.com/dog_rates/status/667885044...	10	

1748 https://twitter.com/dog_rates/status/679062614...

11

	rating_denominator	name	doggo	floofer	pupper	puppo
2140	10	Raphael	None	None	None	None
963	10	Meyer	None	None	None	None
1627	10	None	None	None	None	None
1407	10	Reagan	None	None	None	None
2245	10	Stu	None	None	None	None
1748	10	Chompsky	None	None	None	None

In [14]: twitter_archive_enhanced.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 [16]: df_predict.info()

```
<class 'pandas.core.frame.DataFrame'>
RangeIndex: 2075 entries, 0 to 2074
Data columns (total 12 columns):
tweet_id          2075 non-null int64
jpg_url           2075 non-null object
img_num           2075 non-null int64
p1                2075 non-null object
p1_conf           2075 non-null float64
p1_dog            2075 non-null bool
p2                2075 non-null object
p2_conf           2075 non-null float64
```

```
p2_dog      2075 non-null bool
p3          2075 non-null object
p3_conf     2075 non-null float64
p3_dog      2075 non-null bool
dtypes: bool(3), float64(3), int64(2), object(4)
memory usage: 152.1+ KB
```

1.2 Assessing Data

In this section, detect and document at least **eight (8) quality issues** and **two (2) tidiness issue**. You must use **both** visual assessment programmatic assesement to assess the data.

Note: pay attention to the following key points when you access the data.

- You only want original ratings (no retweets) that have images. Though there are 5000+ tweets in the dataset, not all are dog ratings and some are retweets.
- Assessing and cleaning the entire dataset completely would require a lot of time, and is not necessary to practice and demonstrate your skills in data wrangling. Therefore, the requirements of this project are only to assess and clean at least 8 quality issues and at least 2 tidiness issues in this dataset.
- The fact that the rating numerators are greater than the denominators does not need to be cleaned. This [unique rating system](#) is a big part of the popularity of WeRateDogs.
- You do not need to gather the tweets beyond August 1st, 2017. You can, but note that you won't be able to gather the image predictions for these tweets since you don't have access to the algorithm used.

In []:

1.2.1 Quality issues

1. First step is merging the 3 dataset into one
2. converting timestamp to date format and truncating unwanted text
3. Removing tweets greater than the threshold (August 1st, 2017.)
4. 4 removing retwweets we only want original ratings (no retweets) that have images.
5. dropping columns retweets and replies
6. Dealing with values with denominator of 10
7. NA value in name column
8. redefining the long url

1.2.2 Tidiness issues

1. image prediction data We want to create two columns: one for image prediction and one for confidence level. And then, remove columns(this has been sorted when analyzing the df_predict data)

2. First step is merging the 3 dataset into one then combine the 'doggo', 'floofer', 'pupper' and 'puppo' columns into one column life_stage

1.3 Cleaning Data

In this section, clean **all** of the issues you documented while assessing.

Note: Make a copy of the original data before cleaning. Cleaning includes merging individual pieces of data according to the rules of [tidy data](#). The result should be a high-quality and tidy master pandas DataFrame (or DataFrames, if appropriate).

```
In [17]: # Make copies of original pieces of data
```

```
twitter_archive_enhanced_clean = twitter_archive_enhanced.copy()
df_predict_clean = df_predict.copy()
df_api_data_clean = df_api_data.copy()
```

2 Quality #1:

delete entries that are not dogs

Define: use `isin` and `~` to filter and delete rows that are False in `p1_dog`, `p2_dog`, `p3_dog` column in all three dataframes.

Code

```
In [18]: # Number of rows before data cleaning
```

```
print(df_predict_clean.shape)
print(twitter_archive_enhanced_clean.shape)
print(df_api_data_clean.shape)
```

```
(2075, 12)
```

```
(2356, 17)
```

```
(871, 6)
```

```
In [19]: # Filter posts that are not dogs and put those tweet_id into a drop_list
```

```
df_predict_clean.query('p1_dog == False and p2_dog == False and p3_dog == False').tweet_id
drop_list = df_predict_clean.query('p1_dog == False and p2_dog == False and p3_dog == False').tweet_id
```

```
In [20]: # Drop the rows with tweet_id in the drop_list in all dataframes
```

```
df_predict_clean = df_predict_clean[~df_predict_clean.tweet_id.isin(drop_list)]
twitter_archive_enhanced_clean = twitter_archive_enhanced_clean[~twitter_archive_enhanced_clean.tweet_id.isin(drop_list)]
df_api_data_clean = df_api_data_clean[~df_api_data_clean.tweet_id.isin(drop_list)]
```

Test

```
In [21]: # Number of rows after data cleaning
         print(df_predict_clean.shape)
         print(twitter_archive_enhanced_clean.shape)
         print(df_api_data_clean.shape)
```

```
(1751, 12)
(2032, 17)
(792, 6)
```

```
In [ ]:
```

3 Quality #2:

timestamp datatype

Define: converting timestamp to date format and truncating unwanted text

Code

```
In [22]: # conveting timestamp formart
```

```
twitter_archive_enhanced_clean['timestamp'] = pd.to_datetime(twitter_archive_enhanced_c
```

```
In [23]: twitter_archive_enhanced_clean.info()
```

```
<class 'pandas.core.frame.DataFrame'>
Int64Index: 2032 entries, 1 to 2355
Data columns (total 17 columns):
tweet_id                2032 non-null int64
in_reply_to_status_id   75 non-null float64
in_reply_to_user_id     75 non-null float64
timestamp               2032 non-null datetime64[ns]
source                  2032 non-null object
text                    2032 non-null object
retweeted_status_id     165 non-null float64
retweeted_status_user_id 165 non-null float64
retweeted_status_timestamp 165 non-null object
expanded_urls           1973 non-null object
rating_numerator        2032 non-null int64
rating_denominator      2032 non-null int64
name                    2032 non-null object
doggo                   2032 non-null object
floofer                 2032 non-null object
pupper                  2032 non-null object
puppo                   2032 non-null object
```



```
dtypes: datetime64[ns](1), float64(4), int64(3), object(9)
memory usage: 285.8+ KB
```

```
In [24]: # truncating the +0000 part of the timestamp
```

```
twitter_archive_enhanced_clean['timestamp'] = pd.to_datetime(twitter_archive_enhanced_c
```

Test

```
In [25]: twitter_archive_enhanced_clean.head()
```

```
Out[25]:
```

	tweet_id	in_reply_to_status_id	in_reply_to_user_id	timestamp	\
1	892177421306343426	NaN	NaN	2017-08-01	
2	891815181378084864	NaN	NaN	2017-07-31	
3	891689557279858688	NaN	NaN	2017-07-30	
4	891327558926688256	NaN	NaN	2017-07-29	
5	891087950875897856	NaN	NaN	2017-07-29	

	source	\
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...	
5	<a href="http://twitter.com/download/iphone" r...	

	text	retweeted_status_id	\
1	This is Tilly. She's just checking pup on you...	NaN	
2	This is Archie. He is a rare Norwegian Pouncin...	NaN	
3	This is Darla. She commenced a snooze mid meal...	NaN	
4	This is Franklin. He would like you to stop ca...	NaN	
5	Here we have a majestic great white breaching ...	NaN	

	retweeted_status_user_id	retweeted_status_timestamp	\
1	NaN	NaN	
2	NaN	NaN	
3	NaN	NaN	
4	NaN	NaN	
5	NaN	NaN	

	expanded_urls	rating_numerator	\
1	https://twitter.com/dog_rates/status/892177421...	13	
2	https://twitter.com/dog_rates/status/891815181...	12	
3	https://twitter.com/dog_rates/status/891689557...	13	
4	https://twitter.com/dog_rates/status/891327558...	12	
5	https://twitter.com/dog_rates/status/891087950...	13	

rating_denominator	name	doggo	floofer	pupper	puppo
--------------------	------	-------	---------	--------	-------

1	10	Tilly	None	None	None	None
2	10	Archie	None	None	None	None
3	10	Darla	None	None	None	None
4	10	Franklin	None	None	None	None
5	10	None	None	None	None	None

4 Quality #3:

Setting the threshold

Define removing tweets greater than the threshold (August 1st, 2017.)

Code

```
In [26]: # Define the threshold date
threshold_date = pd.to_datetime("2017-08-01").date()

# Create a boolean mask to select the rows that should be dropped
mask = twitter_archive_enhanced_clean['timestamp'] > threshold_date

# Use the mask to drop the rows
twitter_archive_enhanced_clean.drop(twitter_archive_enhanced_clean[mask].index)
```

```
Out[26]:
```

	tweet_id	in_reply_to_status_id	in_reply_to_user_id \
1	892177421306343426	NaN	NaN
2	891815181378084864	NaN	NaN
3	891689557279858688	NaN	NaN
4	891327558926688256	NaN	NaN
5	891087950875897856	NaN	NaN
6	890971913173991426	NaN	NaN
7	890729181411237888	NaN	NaN
8	890609185150312448	NaN	NaN
9	890240255349198849	NaN	NaN
10	890006608113172480	NaN	NaN
11	889880896479866881	NaN	NaN
12	889665388333682689	NaN	NaN
13	889638837579907072	NaN	NaN
14	889531135344209921	NaN	NaN
15	889278841981685760	NaN	NaN
16	888917238123831296	NaN	NaN
17	888804989199671297	NaN	NaN
18	888554962724278272	NaN	NaN
19	888202515573088257	NaN	NaN
20	888078434458587136	NaN	NaN
21	887705289381826560	NaN	NaN
23	887473957103951883	NaN	NaN
24	887343217045368832	NaN	NaN

25	887101392804085760	NaN	NaN
26	886983233522544640	NaN	NaN
27	886736880519319552	NaN	NaN
29	886366144734445568	NaN	NaN
30	886267009285017600	8.862664e+17	2.281182e+09
31	886258384151887873	NaN	NaN
32	886054160059072513	NaN	NaN
...
2320	666437273139982337	NaN	NaN
2321	666435652385423360	NaN	NaN
2322	666430724426358785	NaN	NaN
2323	666428276349472768	NaN	NaN
2324	666421158376562688	NaN	NaN
2325	666418789513326592	NaN	NaN
2327	666407126856765440	NaN	NaN
2328	666396247373291520	NaN	NaN
2329	666373753744588802	NaN	NaN
2331	666353288456101888	NaN	NaN
2332	666345417576210432	NaN	NaN
2333	666337882303524864	NaN	NaN
2335	666287406224695296	NaN	NaN
2336	666273097616637952	NaN	NaN
2339	666102155909144576	NaN	NaN
2340	666099513787052032	NaN	NaN
2341	666094000022159362	NaN	NaN
2342	666082916733198337	NaN	NaN
2343	666073100786774016	NaN	NaN
2344	666071193221509120	NaN	NaN
2345	666063827256086533	NaN	NaN
2346	666058600524156928	NaN	NaN
2347	666057090499244032	NaN	NaN
2348	666055525042405380	NaN	NaN
2350	666050758794694657	NaN	NaN
2351	666049248165822465	NaN	NaN
2352	666044226329800704	NaN	NaN
2353	666033412701032449	NaN	NaN
2354	666029285002620928	NaN	NaN
2355	666020888022790149	NaN	NaN

	timestamp	source \
1	2017-08-01	<a href="http://twitter.com/download/iphone" r...
2	2017-07-31	<a href="http://twitter.com/download/iphone" r...
3	2017-07-30	<a href="http://twitter.com/download/iphone" r...
4	2017-07-29	<a href="http://twitter.com/download/iphone" r...
5	2017-07-29	<a href="http://twitter.com/download/iphone" r...
6	2017-07-28	<a href="http://twitter.com/download/iphone" r...
7	2017-07-28	<a href="http://twitter.com/download/iphone" r...
8	2017-07-27	<a href="http://twitter.com/download/iphone" r...

[illegible]

2351 2015-11-16 <a href="http://twitter.com/download/iphone" r...
 2352 2015-11-16 <a href="http://twitter.com/download/iphone" r...
 2353 2015-11-15 <a href="http://twitter.com/download/iphone" r...
 2354 2015-11-15 <a href="http://twitter.com/download/iphone" r...
 2355 2015-11-15 <a href="http://twitter.com/download/iphone" r...

	text	retweeted_status_id \
1	This is Tilly. She's just checking pup on you...	NaN
2	This is Archie. He is a rare Norwegian Pouncin...	NaN
3	This is Darla. She commenced a snooze mid meal...	NaN
4	This is Franklin. He would like you to stop ca...	NaN
5	Here we have a majestic great white breaching ...	NaN
6	Meet Jax. He enjoys ice cream so much he gets ...	NaN
7	When you watch your owner call another dog a g...	NaN
8	This is Zoey. She doesn't want to be one of th...	NaN
9	This is Cassie. She is a college pup. Studying...	NaN
10	This is Koda. He is a South Australian decksha...	NaN
11	This is Bruno. He is a service shark. Only get...	NaN
12	Here's a puppo that seems to be on the fence a...	NaN
13	This is Ted. He does his best. Sometimes that'...	NaN
14	This is Stuart. He's sporting his favorite fan...	NaN
15	This is Oliver. You're witnessing one of his m...	NaN
16	This is Jim. He found a fren. Taught him how t...	NaN
17	This is Zeke. He has a new stick. Very proud o...	NaN
18	This is Ralphus. He's powering up. Attempting ...	NaN
19	RT @dog_rates: This is Canela. She attempted s...	8.874740e+17
20	This is Gerald. He was just told he didn't get...	NaN
21	This is Jeffrey. He has a monopoly on the pool...	NaN
23	This is Canela. She attempted some fancy porch...	NaN
24	You may not have known you needed to see this ...	NaN
25	This... is a Jubilant Antarctic House Bear. We...	NaN
26	This is Maya. She's very shy. Rarely leaves he...	NaN
27	This is Mingus. He's a wonderful father to his...	NaN
29	This is Roscoe. Another pupper fallen victim t...	NaN
30	@NonWhiteHat @MayhewMayhem omg hello tanner yo...	NaN
31	This is Waffles. His doggles are pupside down...	NaN
32	RT @Athletics: 12/10 #BATP https://t.co/WxwJmv...	8.860537e+17
...
2320	Here we see a lone northeastern Cumberbatch. H...	NaN
2321	"Can you behave? You're ruining my wedding day...	NaN
2322	Oh boy what a pup! Sunglasses take this one to...	NaN
2323	Here we have an Austrian Pulitzer. Collectors ...	NaN
2324	*internally screaming* 12/10 https://t.co/YMcr...	NaN
2325	This is Walter. He is an Alaskan Terrapin. Lov...	NaN
2327	This is a southern Vesuvius bumblegruff. Can d...	NaN
2328	Oh goodness. A super rare northeast Qdoba kang...	NaN
2329	Those are sunglasses and a jean jacket. 11/10 ...	NaN
2331	Here we have a mixed Asiago from the Galápagos...	NaN

2332	Look at this jokester thinking seat belt laws ...	NaN
2333	This is an extremely rare horned Parthenon. No...	NaN
2335	This is an Albanian 3 1/2 legged Episcopalian...	NaN
2336	Can take selfies 11/10 https://t.co/ws2AMaWpPW	NaN
2339	Oh my. Here you are seeing an Adobe Setter giv...	NaN
2340	Can stand on stump for what seems like a while...	NaN
2341	This appears to be a Mongolian Presbyterian mi...	NaN
2342	Here we have a well-established sunblockerspan...	NaN
2343	Let's hope this flight isn't Malaysian (lol). ...	NaN
2344	Here we have a northern speckled Rhododendron...	NaN
2345	This is the happiest dog you will ever see. Ve...	NaN
2346	Here is the Rand Paul of retrievers folks! He'...	NaN
2347	My oh my. This is a rare blond Canadian terrie...	NaN
2348	Here is a Siberian heavily armored polar bear ...	NaN
2350	This is a truly beautiful English Wilson Staff...	NaN
2351	Here we have a 1949 1st generation vulpix. Enj...	NaN
2352	This is a purebred Piers Morgan. Loves to Netf...	NaN
2353	Here is a very happy pup. Big fan of well-main...	NaN
2354	This is a western brown Mitsubishi terrier. Up...	NaN
2355	Here we have a Japanese Irish Setter. Lost eye...	NaN

	retweeted_status_user_id	retweeted_status_timestamp	\
1	NaN	NaN	
2	NaN	NaN	
3	NaN	NaN	
4	NaN	NaN	
5	NaN	NaN	
6	NaN	NaN	
7	NaN	NaN	
8	NaN	NaN	
9	NaN	NaN	
10	NaN	NaN	
11	NaN	NaN	
12	NaN	NaN	
13	NaN	NaN	
14	NaN	NaN	
15	NaN	NaN	
16	NaN	NaN	
17	NaN	NaN	
18	NaN	NaN	
19	4.196984e+09	2017-07-19 00:47:34 +0000	
20	NaN	NaN	
21	NaN	NaN	
23	NaN	NaN	
24	NaN	NaN	
25	NaN	NaN	
26	NaN	NaN	
27	NaN	NaN	

29	NaN	NaN
30	NaN	NaN
31	NaN	NaN
32	1.960740e+07	2017-07-15 02:44:07 +0000
...
2320	NaN	NaN
2321	NaN	NaN
2322	NaN	NaN
2323	NaN	NaN
2324	NaN	NaN
2325	NaN	NaN
2327	NaN	NaN
2328	NaN	NaN
2329	NaN	NaN
2331	NaN	NaN
2332	NaN	NaN
2333	NaN	NaN
2335	NaN	NaN
2336	NaN	NaN
2339	NaN	NaN
2340	NaN	NaN
2341	NaN	NaN
2342	NaN	NaN
2343	NaN	NaN
2344	NaN	NaN
2345	NaN	NaN
2346	NaN	NaN
2347	NaN	NaN
2348	NaN	NaN
2350	NaN	NaN
2351	NaN	NaN
2352	NaN	NaN
2353	NaN	NaN
2354	NaN	NaN
2355	NaN	NaN

	expanded_urls	rating_numerator \
1	https://twitter.com/dog_rates/status/892177421...	13
2	https://twitter.com/dog_rates/status/891815181...	12
3	https://twitter.com/dog_rates/status/891689557...	13
4	https://twitter.com/dog_rates/status/891327558...	12
5	https://twitter.com/dog_rates/status/891087950...	13
6	https://gofundme.com/ydvmve-surgery-for-jax,ht...	13
7	https://twitter.com/dog_rates/status/890729181...	13
8	https://twitter.com/dog_rates/status/890609185...	13
9	https://twitter.com/dog_rates/status/890240255...	14
10	https://twitter.com/dog_rates/status/890006608...	13
11	https://twitter.com/dog_rates/status/889880896...	13

12	https://twitter.com/dog_rates/status/889665388...	13
13	https://twitter.com/dog_rates/status/889638837...	12
14	https://twitter.com/dog_rates/status/889531135...	13
15	https://twitter.com/dog_rates/status/889278841...	13
16	https://twitter.com/dog_rates/status/888917238...	12
17	https://twitter.com/dog_rates/status/888804989...	13
18	https://twitter.com/dog_rates/status/888554962...	13
19	https://twitter.com/dog_rates/status/887473957...	13
20	https://twitter.com/dog_rates/status/888078434...	12
21	https://twitter.com/dog_rates/status/887705289...	13
23	https://twitter.com/dog_rates/status/887473957...	13
24	https://twitter.com/dog_rates/status/887343217...	13
25	https://twitter.com/dog_rates/status/887101392...	12
26	https://twitter.com/dog_rates/status/886983233...	13
27	https://www.gofundme.com/mingusneedsus , https://...	13
29	https://twitter.com/dog_rates/status/886366144...	12
30	NaN	12
31	https://twitter.com/dog_rates/status/886258384...	13
32	https://twitter.com/dog_rates/status/886053434...	12
...
2320	https://twitter.com/dog_rates/status/666437273...	7
2321	https://twitter.com/dog_rates/status/666435652...	10
2322	https://twitter.com/dog_rates/status/666430724...	6
2323	https://twitter.com/dog_rates/status/666428276...	7
2324	https://twitter.com/dog_rates/status/666421158...	12
2325	https://twitter.com/dog_rates/status/666418789...	10
2327	https://twitter.com/dog_rates/status/666407126...	7
2328	https://twitter.com/dog_rates/status/666396247...	9
2329	https://twitter.com/dog_rates/status/666373753...	11
2331	https://twitter.com/dog_rates/status/666353288...	8
2332	https://twitter.com/dog_rates/status/666345417...	10
2333	https://twitter.com/dog_rates/status/666337882...	9
2335	https://twitter.com/dog_rates/status/666287406...	1
2336	https://twitter.com/dog_rates/status/666273097...	11
2339	https://twitter.com/dog_rates/status/666102155...	11
2340	https://twitter.com/dog_rates/status/666099513...	8
2341	https://twitter.com/dog_rates/status/666094000...	9
2342	https://twitter.com/dog_rates/status/666082916...	6
2343	https://twitter.com/dog_rates/status/666073100...	10
2344	https://twitter.com/dog_rates/status/666071193...	9
2345	https://twitter.com/dog_rates/status/666063827...	10
2346	https://twitter.com/dog_rates/status/666058600...	8
2347	https://twitter.com/dog_rates/status/666057090...	9
2348	https://twitter.com/dog_rates/status/666055525...	10
2350	https://twitter.com/dog_rates/status/666050758...	10
2351	https://twitter.com/dog_rates/status/666049248...	5
2352	https://twitter.com/dog_rates/status/666044226...	6
2353	https://twitter.com/dog_rates/status/666033412...	9

2354	https://twitter.com/dog_rates/status/666029285...	7
2355	https://twitter.com/dog_rates/status/666020888...	8

	rating_denominator	name	doggo	floofer	pupper	puppo
1	10	Tilly	None	None	None	None
2	10	Archie	None	None	None	None
3	10	Darla	None	None	None	None
4	10	Franklin	None	None	None	None
5	10	None	None	None	None	None
6	10	Jax	None	None	None	None
7	10	None	None	None	None	None
8	10	Zoey	None	None	None	None
9	10	Cassie	doggo	None	None	None
10	10	Koda	None	None	None	None
11	10	Bruno	None	None	None	None
12	10	None	None	None	None	puppo
13	10	Ted	None	None	None	None
14	10	Stuart	None	None	None	puppo
15	10	Oliver	None	None	None	None
16	10	Jim	None	None	None	None
17	10	Zeke	None	None	None	None
18	10	Ralphus	None	None	None	None
19	10	Canela	None	None	None	None
20	10	Gerald	None	None	None	None
21	10	Jeffrey	None	None	None	None
23	10	Canela	None	None	None	None
24	10	None	None	None	None	None
25	10	None	None	None	None	None
26	10	Maya	None	None	None	None
27	10	Mingus	None	None	None	None
29	10	Roscoe	None	None	pupper	None
30	10	None	None	None	None	None
31	10	Waffles	None	None	None	None
32	10	None	None	None	None	None
...
2320	10	None	None	None	None	None
2321	10	None	None	None	None	None
2322	10	None	None	None	None	None
2323	10	None	None	None	None	None
2324	10	None	None	None	None	None
2325	10	Walter	None	None	None	None
2327	10	a	None	None	None	None
2328	10	None	None	None	None	None
2329	10	None	None	None	None	None
2331	10	None	None	None	None	None
2332	10	None	None	None	None	None
2333	10	an	None	None	None	None
2335	2	an	None	None	None	None

2336	10	None	None	None	None	None
2339	10	None	None	None	None	None
2340	10	None	None	None	None	None
2341	10	None	None	None	None	None
2342	10	None	None	None	None	None
2343	10	None	None	None	None	None
2344	10	None	None	None	None	None
2345	10	the	None	None	None	None
2346	10	the	None	None	None	None
2347	10	a	None	None	None	None
2348	10	a	None	None	None	None
2350	10	a	None	None	None	None
2351	10	None	None	None	None	None
2352	10	a	None	None	None	None
2353	10	a	None	None	None	None
2354	10	a	None	None	None	None
2355	10	None	None	None	None	None

[2032 rows x 17 columns]

Test

```
In [27]: threshold_date = pd.to_datetime("2017-08-01").date()
        threshold_date
```

```
Out[27]: datetime.date(2017, 8, 1)
```

5 Quality #4

we only want to focus on original ratings (no retweets) that have images.

Define Removing retweets/replies we only want original ratings (no retweets) that have images.

Code

```
In [28]: # Remove replies
```

```
twitter_archive_enhanced_clean = twitter_archive_enhanced_clean[twitter_archive_enhanced_clean['text'].str.contains('Retweeted') == False]
```

```
In [29]: # Remove retweets
```

```
twitter_archive_enhanced_clean = twitter_archive_enhanced_clean[twitter_archive_enhanced_clean['text'].str.contains('Retweeted') == False]
```

Test

```

In [30]: # randomly print out 5 rows for visualization
         # the retweets should be removed, thus the column contains only NA values

twitter_archive_enhanced_clean.query('retweeted_status_id != retweeted_status_id').sample(5)

Out[30]:
   tweet_id  in_reply_to_status_id  in_reply_to_user_id \
496   813157409116065792             NaN             NaN
474   816091915477250048             NaN             NaN
1030  745433870967832576             NaN             NaN
1006  747648653817413632             NaN             NaN
199   854120357044912130             NaN             NaN

   timestamp                                     source \
496  2016-12-25  <a href="http://twitter.com/download/iphone" r...
474  2017-01-03  <a href="http://twitter.com/download/iphone" r...
1030 2016-06-22  <a href="http://twitter.com/download/iphone" r...
1006 2016-06-28  <a href="http://vine.co" rel="nofollow">Vine -...
199  2017-04-17  <a href="http://twitter.com/download/iphone" r...

   text  retweeted_status_id \
496  This is Layla. It is her first Christmas. She ...      NaN
474  This is Comet. He's a Wild Estonian Poofer. Su...      NaN
1030 This is Lenox. She's in a wheelbarrow. Silly d...      NaN
1006 This is Keurig. He apparently headbutts other ...      NaN
199  Sometimes you guys remind me just how impactfu...      NaN

   retweeted_status_user_id  retweeted_status_timestamp \
496             NaN             NaN
474             NaN             NaN
1030            NaN             NaN
1006            NaN             NaN
199             NaN             NaN

   expanded_urls  rating_numerator \
496  https://twitter.com/dog_rates/status/813157409...      12
474  https://twitter.com/dog_rates/status/816091915...      12
1030 https://twitter.com/dog_rates/status/745433870...      10
1006             https://vine.co/v/iqIZFt0xEMB            12
199  https://twitter.com/dog_rates/status/854120357...      14

   rating_denominator  name  doggo  floofer  pupper  puppo
496                10  Layla   None    None    None   None
474                10  Comet   None    None    None   None
1030               10  Lenox  doggo    None    None   None
1006               10  Keurig   None    None    None   None
199                10   None   None    None  pupper   None

```

6 Quality #5

dropping columns retweets and replies

Define Dropping columns that are related to retweets and replies

Code

```
In [31]: twitter_archive_enhanced_clean = twitter_archive_enhanced_clean.drop(['in_reply_to_status_id',  
                                     'in_reply_to_user_id',  
                                     'retweeted_status_id',  
                                     'retweeted_status_user_id',  
                                     'retweeted_status_timestamp'],axis=1)
```

Test

```
In [32]: twitter_archive_enhanced_clean.info()
```

```
<class 'pandas.core.frame.DataFrame'>  
Int64Index: 1792 entries, 1 to 2355  
Data columns (total 12 columns):  
tweet_id          1792 non-null int64  
timestamp         1792 non-null object  
source            1792 non-null object  
text              1792 non-null object  
expanded_urls     1789 non-null object  
rating_numerator  1792 non-null int64  
rating_denominator 1792 non-null int64  
name              1792 non-null object  
doggo             1792 non-null object  
floofer           1792 non-null object  
pupper            1792 non-null object  
puppo             1792 non-null object  
dtypes: int64(3), object(9)  
memory usage: 182.0+ KB
```

7 Quality #6

Dealing with values with denominator of 10

Define Abnormal values in rating_denominator AS the project overview, the ratings almost always have a denominator of 10

Code

```
In [33]: #Convert the rating_numerator and rating_denominator columns to float:
```

```
twitter_archive_enhanced_clean.rating_numerator = twitter_archive_enhanced_clean.rating_numerator
twitter_archive_enhanced_clean.rating_denominator = twitter_archive_enhanced_clean.rating_denominator
```

```
In [34]: denominator_not_10 = twitter_archive_enhanced_clean[twitter_archive_enhanced_clean['rating_denominator'] != 10]
denominator_not_10
```

```
Out[34]:
```

	tweet_id	timestamp	\
433	820690176645140481	2017-01-15	
516	810984652412424192	2016-12-19	
902	758467244762497024	2016-07-28	
1068	740373189193256964	2016-06-08	
1165	722974582966214656	2016-04-21	
1202	716439118184652801	2016-04-03	
1228	713900603437621249	2016-03-27	
1254	710658690886586372	2016-03-18	
1274	709198395643068416	2016-03-14	
1351	704054845121142784	2016-02-28	
1433	697463031882764288	2016-02-10	
1635	684222868335505415	2016-01-05	
1662	682962037429899265	2016-01-01	
1779	677716515794329600	2015-12-18	
1843	675853064436391936	2015-12-13	
2335	666287406224695296	2015-11-16	

	source	\
433	<a href="http://twitter.com/download/iphone" r...	
516	<a href="http://twitter.com/download/iphone" r...	
902	<a href="http://twitter.com/download/iphone" r...	
1068	<a href="http://twitter.com/download/iphone" r...	
1165	<a href="http://twitter.com/download/iphone" r...	
1202	<a href="http://twitter.com/download/iphone" r...	
1228	<a href="http://twitter.com/download/iphone" r...	
1254	<a href="http://twitter.com/download/iphone" r...	
1274	<a href="http://twitter.com/download/iphone" r...	
1351	<a href="http://twitter.com/download/iphone" r...	
1433	<a href="http://twitter.com/download/iphone" r...	
1635	<a href="http://twitter.com/download/iphone" r...	
1662	<a href="http://twitter.com/download/iphone" r...	
1779	<a href="http://twitter.com/download/iphone" r...	
1843	<a href="http://twitter.com/download/iphone" r...	
2335	<a href="http://twitter.com/download/iphone" r...	

	text	\
433	The floofs have been released I repeat the flo...	
516	Meet Sam. She smiles 24/7 & secretly aspir...	

902 Why does this never happen at my front door...
 1068 After so many requests, this is Bretagne. She ...
 1165 Happy 4/20 from the squad! 13/10 for all https...
 1202 This is Bluebert. He just saw that both #Final...
 1228 Happy Saturday here's 9 puppies on a bench. 99...
 1254 Here's a brigade of puppies. All look very pre...
 1274 From left to right:\nCletus, Jerome, Alejandro...
 1351 Here is a whole flock of puppies. 60/50 I'll ...
 1433 Happy Wednesday here's a bucket of pups. 44/40...
 1635 Someone help the girl is being mugged. Several...
 1662 This is Darrel. He just robbed a 7/11 and is i...
 1779 IT'S PUPPERGEDDON. Total of 144/120 ...I think...
 1843 Here we have an entire platoon of puppies. Tot...
 2335 This is an Albanian 3 1/2 legged Episcopalian...

	expanded_urls	rating_numerator \
433	https://twitter.com/dog_rates/status/820690176...	84.0
516	https://www.gofundme.com/sams-smile,https://tw...	24.0
902	https://twitter.com/dog_rates/status/758467244...	165.0
1068	https://twitter.com/dog_rates/status/740373189...	9.0
1165	https://twitter.com/dog_rates/status/722974582...	4.0
1202	https://twitter.com/dog_rates/status/716439118...	50.0
1228	https://twitter.com/dog_rates/status/713900603...	99.0
1254	https://twitter.com/dog_rates/status/710658690...	80.0
1274	https://twitter.com/dog_rates/status/709198395...	45.0
1351	https://twitter.com/dog_rates/status/704054845...	60.0
1433	https://twitter.com/dog_rates/status/697463031...	44.0
1635	https://twitter.com/dog_rates/status/684222868...	121.0
1662	https://twitter.com/dog_rates/status/682962037...	7.0
1779	https://twitter.com/dog_rates/status/677716515...	144.0
1843	https://twitter.com/dog_rates/status/675853064...	88.0
2335	https://twitter.com/dog_rates/status/666287406...	1.0

	rating_denominator	name	doggo	floofer	pupper	puppo
433	70.0	None	None	None	None	None
516	7.0	Sam	None	None	None	None
902	150.0	None	None	None	None	None
1068	11.0	None	None	None	None	None
1165	20.0	None	None	None	None	None
1202	50.0	Bluebert	None	None	None	None
1228	90.0	None	None	None	None	None
1254	80.0	None	None	None	None	None
1274	50.0	None	None	None	None	None
1351	50.0	a	None	None	None	None
1433	40.0	None	None	None	None	None
1635	110.0	None	None	None	None	None
1662	11.0	Darrel	None	None	None	None
1779	120.0	None	None	None	None	None

1843	80.0	None	None	None	None	None
2335	2.0	an	None	None	None	None

```
In [36]: # Correct ratings by reading through the text, most of the abnormal ratings are associat
#
tweet_id: 666287406224695296
twitter_archive_enhanced_clean.loc[twitter_archive_enhanced_clean.tweet_id == 758467244
twitter_archive_enhanced_clean.loc[twitter_archive_enhanced_clean.tweet_id == 758467244

# tweet_id: 740373189193256964 --- Multiple dogs
twitter_archive_enhanced_clean.loc[twitter_archive_enhanced_clean.tweet_id == 740373189
twitter_archive_enhanced_clean.loc[twitter_archive_enhanced_clean.tweet_id == 740373189

twitter_archive_enhanced_clean.loc[twitter_archive_enhanced_clean.tweet_id == 722974582
twitter_archive_enhanced_clean.loc[twitter_archive_enhanced_clean.tweet_id == 722974582

twitter_archive_enhanced_clean.loc[twitter_archive_enhanced_clean.tweet_id == 716439118
twitter_archive_enhanced_clean.loc[twitter_archive_enhanced_clean.tweet_id == 716439118

twitter_archive_enhanced_clean.loc[twitter_archive_enhanced_clean.tweet_id == 713900603
twitter_archive_enhanced_clean.loc[twitter_archive_enhanced_clean.tweet_id == 713900603

twitter_archive_enhanced_clean.loc[twitter_archive_enhanced_clean.tweet_id == 710658690
twitter_archive_enhanced_clean.loc[twitter_archive_enhanced_clean.tweet_id == 710658690

twitter_archive_enhanced_clean.loc[twitter_archive_enhanced_clean.tweet_id == 820690176
twitter_archive_enhanced_clean.loc[twitter_archive_enhanced_clean.tweet_id == 820690176

twitter_archive_enhanced_clean.loc[twitter_archive_enhanced_clean.tweet_id == 810984652
twitter_archive_enhanced_clean.loc[twitter_archive_enhanced_clean.tweet_id == 810984652

twitter_archive_enhanced_clean.loc[twitter_archive_enhanced_clean.tweet_id == 709198395
twitter_archive_enhanced_clean.loc[twitter_archive_enhanced_clean.tweet_id == 709198395

twitter_archive_enhanced_clean.loc[twitter_archive_enhanced_clean.tweet_id == 704054845
twitter_archive_enhanced_clean.loc[twitter_archive_enhanced_clean.tweet_id == 704054845

twitter_archive_enhanced_clean.loc[twitter_archive_enhanced_clean.tweet_id == 697463031
twitter_archive_enhanced_clean.loc[twitter_archive_enhanced_clean.tweet_id == 697463031

twitter_archive_enhanced_clean.loc[twitter_archive_enhanced_clean.tweet_id == 684222868
twitter_archive_enhanced_clean.loc[twitter_archive_enhanced_clean.tweet_id == 684222868

twitter_archive_enhanced_clean.loc[twitter_archive_enhanced_clean.tweet_id == 682962037
twitter_archive_enhanced_clean.loc[twitter_archive_enhanced_clean.tweet_id == 682962037
```

```

twitter_archive_enhanced_clean.loc[twitter_archive_enhanced_clean.tweet_id == 677716515
twitter_archive_enhanced_clean.loc[twitter_archive_enhanced_clean.tweet_id == 677716515

twitter_archive_enhanced_clean.loc[twitter_archive_enhanced_clean.tweet_id == 675853064
twitter_archive_enhanced_clean.loc[twitter_archive_enhanced_clean.tweet_id == 675853064

twitter_archive_enhanced_clean.loc[twitter_archive_enhanced_clean.tweet_id == 666287406
twitter_archive_enhanced_clean.loc[twitter_archive_enhanced_clean.tweet_id == 666287406

```

Test

```

In [37]: denominator_not_10 = twitter_archive_enhanced_clean[twitter_archive_enhanced_clean['rat
denominator_not_10

```

```

Out[37]: Empty DataFrame
Columns: [tweet_id, timestamp, source, text, expanded_urls, rating_numerator, rating_de
Index: []

```

```

In [ ]:

```

8 Quality #7

NA value in name column

Define Convert NA value in name column to accurate data type.

Code

```

In [38]: twitter_archive_enhanced_clean.name.unique()

```

```

Out[38]: array(['Tilly', 'Archie', 'Darla', 'Franklin', 'None', 'Jax', 'Zoey',
'Cassie', 'Koda', 'Bruno', 'Ted', 'Stuart', 'Oliver', 'Jim', 'Zeke',
'Ralphus', 'Gerald', 'Jeffrey', 'Canela', 'Maya', 'Mingus',
'Roscoe', 'Waffles', 'Jimbo', 'Maisey', 'Earl', 'Lola', 'Kevin',
'Yogi', 'Noah', 'Bella', 'Grizzwald', 'Rusty', 'Gus', 'Stanley',
'Alfy', 'Koko', 'Rey', 'Gary', 'a', 'Jesse', 'Romeo', 'Bailey',
'Duddles', 'Jack', 'Beau', 'Snoopy', 'Shadow', 'Emmy', 'Aja',
'Penny', 'Dante', 'Nelly', 'Ginger', 'Benedict', 'Venti', 'Goose',
'Nugget', 'Cash', 'Jed', 'Sebastian', 'Sierra', 'Monkey', 'Harry',
'Kody', 'Lassie', 'Rover', 'Napolean', 'Boomer', 'Cody', 'Rumble',
'Dewey', 'Scout', 'Gizmo', 'Walter', 'Cooper', 'Harold', 'Shikha',
'Lili', 'Jamesy', 'Coco', 'Sammy', 'Meatball', 'Paisley', 'Neptune',
'Belle', 'Quinn', 'Zooey', 'Dave', 'Hobbes', 'Burt', 'Lorenzo',
'Carl', 'Milky', 'Trooper', 'quite', 'Sophie', 'Wyatt', 'Rosie',
'Thor', 'Oscar', 'Callie', 'Cermet', 'Marlee', 'Arya', 'Einstein',
'Alice', 'Benny', 'Aspen', 'Jarod', 'Sailor', 'Snoop', 'Kyle',
'Leo', 'Riley', 'Noosh', 'Odin', 'Jerry', 'Rontu', 'Cannon',

```


'Furzey', 'Daisy', 'Tuck', 'Barney', 'Vixen', 'Jarvis', 'Mimosa',
 'Pickles', 'Brady', 'Luna', 'Margo', 'Sadie', 'Hank', 'Tycho',
 'Charlie', 'Indie', 'Winnie', 'George', 'Bentley', 'Max', 'Dawn',
 'Maddie', 'Monty', 'Sojourner', 'Winston', 'Odie', 'Arlo',
 'Vincent', 'Lucy', 'Clark', 'Mookie', 'Meera', 'Eli', 'Ash',
 'Tucker', 'Tobi', 'Chester', 'Wilson', 'Lipton', 'Bronte', 'Poppy',
 'Gidget', 'Rhino', 'Willow', 'not', 'Orion', 'Eevee', 'Smiley',
 'Miguel', 'Emanuel', 'Kuyu', 'Dutch', 'Pete', 'Scooter', 'Reggie',
 'Lilly', 'Samson', 'Mia', 'Astrid', 'Malcolm', 'Dexter', 'Alfie',
 'Fiona', 'one', 'Mutt', 'Bear', 'Doobert', 'Beebop', 'Alexander',
 'Brutus', 'Kona', 'Boots', 'Ralphie', 'Loki', 'Cupid', 'Pawnd',
 'Pilot', 'Ike', 'Toby', 'Sweet', 'Pablo', 'Crawford', 'Albus',
 'Gabe', 'Jimison', 'Duchess', 'Harlso', 'Sundance', 'Luca', 'Flash',
 'Sunny', 'Howie', 'Jazzy', 'Anna', 'Finn', 'Bo', 'Wafer', 'Tom',
 'Florence', 'Autumn', 'Buddy', 'Dido', 'Eugene', 'Ken', 'Strudel',
 'Tebow', 'Chloe', 'Timber', 'Binky', 'Dudley', 'Comet', 'Akumi',
 'Titan', 'Olivia', 'Alf', 'Oshie', 'Chubbs', 'Sky', 'Atlas',
 'Eleanor', 'Layla', 'Rocky', 'Baron', 'Tyr', 'Bauer', 'Swagger',
 'Brandi', 'Mary', 'Moe', 'Halo', 'Augie', 'Craig', 'Sam', 'Hunter',
 'Pavlov', 'Phil', 'Kyro', 'Wallace', 'Ito', 'Seamus', 'Ollie',
 'Stephan', 'Lennon', 'incredibly', 'Major', 'Duke', 'Shooter',
 'Django', 'Diogi', 'Marley', 'Ronnie', 'Milo', 'Bones', 'Mauve',
 'Chef', 'Doc', 'Peaches', 'Sobe', 'Longfellow', 'Mister', 'Iroh',
 'Pancake', 'Snicku', 'Ruby', 'Brody', 'Mack', 'Nimbus', 'Maximus',
 'Dobby', 'Moreton', 'Juno', 'Maude', 'Lily', 'Newt', 'Benji',
 'Nida', 'Robin', 'Monster', 'BeBe', 'Remus', 'Levi', 'Mabel',
 'Misty', 'Betty', 'Mosby', 'Maggie', 'Bruce', 'Happy', 'Ralphy',
 'Brownie', 'Rizzy', 'Stella', 'Butter', 'Frank', 'Tonks', 'Moose',
 'Lincoln', 'Rory', 'Logan', 'Dale', 'Rizzo', 'Arnie', 'Mattie',
 'Dallas', 'Hero', 'Frankie', 'Stormy', 'Reginald', 'Balto', 'Mairi',
 'Loomis', 'Godi', 'Cali', 'Deacon', 'Timmy', 'Sampson', 'Combo',
 'Oakley', 'Dash', 'Hercules', 'Jay', 'Mya', 'Strider', 'Nala',
 'Wesley', 'Derek', 'Solomon', 'Huck', 'O', 'Blue', 'Finley',
 'Sprinkles', 'Heinrich', 'Shakespeare', 'Chelsea', 'Bungalo',
 'Chip', 'Grey', 'Roosevelt', 'Willem', 'Davey', 'Dakota', 'Fizz',
 'Dixie', 'Al', 'Jackson', 'Carbon', 'Klein', 'DonDon', 'Kirby',
 'Lou', 'Chevy', 'Philbert', 'Louie', 'Rupert', 'Rufus', 'Brudge',
 'Shadoe', 'Angel', 'Brat', 'Tove', 'my', 'Gromit', 'Aubie', 'Kota',
 'Leela', 'Glenn', 'Shelby', 'Sephie', 'Bonaparte', 'Albert',
 'Wishes', 'Rose', 'Rocco', 'Emma', 'Spencer', 'Lilli', 'Boston',
 'Brandonald', 'Corey', 'Leonard', 'Beckham', 'Devón', 'Gert',
 'Watson', 'Dex', 'Ace', 'Tayzie', 'Grizzie', 'Fred', 'Gilbert',
 'Meyer', 'Zoe', 'Stewie', 'Calvin', 'Lilah', 'Spanky', 'Jameson',
 'Piper', 'Blu', 'Dietrich', 'Divine', 'Tripp', 'Cora', 'Huxley',
 'Keurig', 'Bookstore', 'Linus', 'Atticus', 'Abby', 'Shiloh', 'an',
 'Gustav', 'Arlen', 'Percy', 'Lenox', 'very', 'Harvey', 'Blanket',
 'actually', 'Geno', 'Stark', 'Kilo', 'Kayla', 'Bell', 'Edmund',
 'Aqua', 'Theodore', 'just', 'Baloo', 'Chase', 'getting', 'Nollie',

'Rorie', 'Simba', 'Charles', 'Bayley', 'Axel', 'Storkson', 'Remy',
 'Chadrick', 'mad', 'Maxaroni', 'Kellogg', 'Buckley', 'Livvie',
 'Terry', 'Hermione', 'Ralpher', 'Aldrick', 'Larry', 'unacceptable',
 'Rooney', 'Crystal', 'Ziva', 'Stefan', 'Pupcasso', 'Puff',
 'Flurpson', 'Enchilada', 'Raymond', 'all', 'Rueben', 'Cilantro',
 'Karll', 'Sprout', 'Blitz', 'Bloop', 'Colby', 'Lillie', 'Ashleigh',
 'Kreggory', 'Sarge', 'Luther', 'Sugar', 'Ivar', 'Jangle',
 'Schnitzel', 'Panda', 'Berkeley', 'Ralphé', 'Charleson', 'Harnold',
 'Sid', 'Pippa', 'Otis', 'Carper', 'Bowie', 'Alexanderson', 'Suki',
 'Barclay', 'Skittle', 'Ebby', 'Flávio', 'Smokey', 'Link',
 'Jennifur', 'Ozzy', 'Bluebert', 'Stephanus', 'Bubbles', 'old',
 'Zeus', 'Nico', 'Michelangelo', 'Siba', 'Calbert', 'Curtis',
 'Travis', 'Thumas', 'Kanu', 'Doug', 'Lance', 'Opie', 'Stubert',
 'Kane', 'Olive', 'Chuckles', 'Staniel', 'Sora', 'Beemo', 'Gunner',
 'infuriating', 'Lacy', 'Tater', 'Olaf', 'Cecil', 'Vince', 'Karma',
 'Billy', 'Walker', 'Rodney', 'Klevin', 'Malikai', 'Bobble', 'River',
 'Jebberson', 'Remington', 'Harper', 'Clarkus', 'Finnegus',
 'Cupcake', 'Kathmandu', 'Ellie', 'Katie', 'Kara', 'Adele', 'Zara',
 'Ambrose', 'Jimothy', 'Bode', 'Terrenth', 'Reese', 'Lucia',
 'Bisquick', 'Ralphson', 'Socks', 'Rambo', 'Sansa', 'Rudy', 'Fiji',
 'Rilo', 'Bilbo', 'Coopson', 'Yoda', 'Millie', 'Chet', 'Crouton',
 'Kaia', 'Murphy', 'Dotsy', 'Coops', 'Fillup', 'Miley', 'Reagan',
 'Yukon', 'CeCe', 'Cuddles', 'Claude', 'Jessiga', 'Ole', 'Pherb',
 'Reptar', 'Trevith', 'Berb', 'Bob', 'Colin', 'Brian', 'Olivier',
 'Grady', 'Kobe', 'Freddery', 'Bodie', 'Dunkin', 'Wally', 'Tupawc',
 'Amber', 'Edgar', 'Teddy', 'Kingsley', 'Richie', 'Molly',
 'Vinscent', 'Cedrick', 'Hazel', 'Lolo', 'Eriq', 'Phred', 'the',
 'Oddie', 'Geoff', 'Covach', 'Durg', 'Fynn', 'Chipson', 'Herald',
 'Lucky', 'Ferg', 'Trip', 'Brad', 'Pubert', 'Frönq', 'Louis',
 'Ember', 'Blakely', 'Opal', 'Marq', 'Kramer', 'Barry', 'Tyrone',
 'Gordon', 'Baxter', 'Mona', 'Horace', 'Crimson', 'Birf', 'Lorelei',
 'Brooks', 'Petrick', 'Hubertson', 'Gerbald', 'Oreo', 'Bruiser',
 'Perry', 'Jeph', 'Obi', 'Tino', 'Kulet', 'Sweets', 'Lupe', 'Tiger',
 'Jiminy', 'Griffin', 'Banjo', 'Brandy', 'Lulu', 'Darrel', 'Taco',
 'Joey', 'Kreg', 'Todo', 'Ulysses', 'Toffee', 'Apollo', 'Carly',
 'Asher', 'Glacier', 'Ozzie', 'Griswold', 'Cheesy', 'Hector',
 'Goliath', 'Kawhi', 'Emmie', 'Willie', 'Rinna', 'Mike', 'William',
 'Evy', 'Hurley', 'Rubio', 'officially', 'Chompsky', 'Rascal',
 'Linda', 'Tug', 'Tango', 'Grizz', 'Jerome', 'Crumpet', 'Jessifer',
 'Izzy', 'Ralph', 'Humphrey', 'Tassy', 'Juckson', 'Tyrus',
 'Godzilla', 'Vinnie', 'Kenneth', 'Bert', 'Striker', 'Donny',
 'Pepper', 'Bernie', 'Buddah', 'Lenny', 'Arnold', 'Mollie', 'Laela',
 'Tedders', 'Superpup', 'Rufio', 'Jeb', 'Ava', 'Jonah', 'life',
 'Kenny', 'Bobbay', 'Mitch', 'Kaiya', 'Acro', 'Aiden', 'Obie', 'Dot',
 'Shnuggles', 'Kendall', 'Jeffri', 'Sandy', 'Steve', 'Eve', 'Mac',
 'Kenzie', 'Pumpkin', 'Schnozz', 'Gustaf', 'Ed', 'Leonidas', 'Scott',
 'Taz', 'Darby', 'Jackie', 'light', 'Jazz', 'Franq', 'Pippin',
 'Rolf', 'Snickers', 'Ridley', 'Cal', 'Bradley', 'Bubba', 'Tuco',

```
'Patch', 'Mojo', 'Dylan', 'space', 'JD', 'Alejandro', 'Scruffers',
'Penelope', 'Sparky', 'Holly', 'Clarence', 'Jett', 'Amy', 'Sage',
'Andy', 'Mason', 'Trigger', 'Antony', 'Creg', 'Traviss', 'Gin',
'Danny', 'Ester', 'Pluto', 'Bloo', 'Paull', 'Willy', 'Herb',
'Nigel', 'Butters', 'Sandra', 'Liam', 'Ben', 'Raphael', 'Julio',
'Andru', 'Kloey', 'Shawwn', 'Skye', 'Kollin', 'Ronduh', 'Billl',
'Saydee', 'Dug', 'Kirk', 'Ralf', 'Clarq', 'Samsom', 'Terrance',
'Chaz', 'Jeremy', 'Jaycob', 'Lambeau', 'Ruffles', 'Amélie', 'Bobb',
'Banditt', 'Kevon', 'Winifred', 'Hanz', 'Churlie', 'Zeek', 'Timofy',
'Maks', 'Jomathan', 'Marvin', 'Spark', 'Gördón', 'Jo', 'DayZ',
'Jareld', 'Torque', 'Ron', 'Skittles', 'Cleopatrícia', 'Erik',
'Stu', 'Tedrick', 'Filup', 'Kial', 'Naphaniel', 'Dook', 'Hall',
'Philippe', 'Biden', 'Fwed', 'Genevieve', 'Joshwa', 'Timison',
'Bradlay', 'Pipsy', 'Clybe', 'Keet', 'Carll', 'Jockson', 'Josep',
'Lugan', 'Christoper'], dtype=object)
```

```
In [39]: sum(twitter_archive_enhanced_clean['name'] == 'None')
```

```
Out[39]: 479
```

```
In [40]: twitter_archive_enhanced_clean.name.value_counts()
```

```
Out[40]: None      479
         a         46
         Lucy      11
         Cooper    10
         Charlie   10
         Tucker    9
         Oliver    9
         Penny     8
         the       8
         Sadie     7
         Lola      7
         Winston   7
         Daisy     7
         Oscar     6
         Jax       6
         Toby      6
         Koda      6
         Leo       5
         Bella     5
         Bailey    5
         Bentley   5
         Bo        5
         Rusty     5
         Stanley   5
         Chester   4
         Scout     4
         Dexter    4
```

Brody	4
Louis	4
Bear	4
...	
Dook	1
Tripp	1
Barney	1
Pubert	1
Sparky	1
Link	1
Vixen	1
Bloop	1
Chevy	1
Tom	1
Ember	1
Harold	1
Logan	1
Horace	1
Sky	1
Tino	1
Bruno	1
Murphy	1
Eleanor	1
Jessiga	1
Staniel	1
Cilantro	1
Cali	1
Kingsley	1
Sobe	1
Al	1
Glenn	1
Dutch	1
Autumn	1
Moreton	1

Name: name, Length: 871, dtype: int64

```
In [41]: twitter_archive_enhanced_clean.name = twitter_archive_enhanced_clean.name.apply(lambda
```

Test

```
In [42]: twitter_archive_enhanced_clean.info()
```

```
<class 'pandas.core.frame.DataFrame'>
Int64Index: 1792 entries, 1 to 2355
Data columns (total 12 columns):
tweet_id      1792 non-null int64
timestamp     1792 non-null object
source        1792 non-null object
```

```

text                1792 non-null object
expanded_urls       1789 non-null object
rating_numerator    1792 non-null float64
rating_denominator  1792 non-null float64
name                1313 non-null object
doggo               1792 non-null object
floofer             1792 non-null object
pupper             1792 non-null object
puppo               1792 non-null object
dtypes: float64(2), int64(1), object(9)
memory usage: 182.0+ KB

```

In []:

9 Quality #8

redefining the long url

Define Replace the long url with different category names

Code

```
In [43]: twitter_archive_enhanced_clean.source.value_counts()
```

```

Out[43]: <a href="http://twitter.com/download/iphone" rel="nofollow">Twitter for iPhone</a>
<a href="http://vine.co" rel="nofollow">Vine - Make a Scene</a>
<a href="http://twitter.com" rel="nofollow">Twitter Web Client</a>
<a href="https://about.twitter.com/products/tweetdeck" rel="nofollow">TweetDeck</a>
Name: source, dtype: int64

```

```

In [44]: twitter_archive_enhanced_clean['source'] = twitter_archive_enhanced_clean['source'].replace(
                                                '<a href="http://t'
                                                '<a href="http://t'
                                                '<a href="https://t

```

Test

```
In [45]: twitter_archive_enhanced_clean.source.value_counts()
```

```

Out[45]: Twitter for iPhone    1667
        Make a Scene           91
        Twitter Web Client     25
        TweetDeck              9
        Name: source, dtype: int64

```

```

In [41]: # resaving the master to local file

        twitter_archive_enhanced_clean.to_csv('twitter_archive_enhanced_clean.csv', encoding =

In [ ]:

In [46]: TweetDeck= pd.read_csv('twitter_archive_enhanced_clean.csv')
        twitter_archive_enhanced_clean.info()

<class 'pandas.core.frame.DataFrame'>
Int64Index: 1792 entries, 1 to 2355
Data columns (total 12 columns):
tweet_id          1792 non-null int64
timestamp         1792 non-null object
source            1792 non-null object
text              1792 non-null object
expanded_urls     1789 non-null object
rating_numerator  1792 non-null float64
rating_denominator 1792 non-null float64
name              1313 non-null object
doggo             1792 non-null object
floofer           1792 non-null object
pupper            1792 non-null object
puppo             1792 non-null object
dtypes: float64(2), int64(1), object(9)
memory usage: 182.0+ KB

```

10 Tidiness issue #1:

create new column for the image prediction and one for confidence level:

Define: image prediction data We want to create two columns: one for image prediction and one for confidence level. And then, remove columns 'p1', 'p1_conf', 'p1_dog', 'p2', 'p2_conf', 'p2_dog', 'p3', 'p3_conf', 'p3_dog']

Code

```

In [47]: # Create two empty lists for breed and confident_level
        breed = []
        confident_level = []

        # Define the function to find the most confident prediction that is a dog breed
        def get_prediction(twitter_archive_enhanced_Master):
            if twitter_archive_enhanced_Master['p1_dog']:
                breed.append(twitter_archive_enhanced_Master['p1'])
                confident_level.append(twitter_archive_enhanced_Master['p1_conf'])
            elif twitter_archive_enhanced_Master['p2_dog']:

```

```

        breed.append(twitter_archive_enhanced_Master['p2'])
        confident_level.append(twitter_archive_enhanced_Master['p2_conf'])
    elif twitter_archive_enhanced_Master['p3_dog']:
        breed.append(twitter_archive_enhanced_Master['p3'])
        confident_level.append(twitter_archive_enhanced_Master['p3_conf'])
    else:
        breed.append('Unknown_breed')
        confident_level.append(0)

# Apply the function to each row in the DataFrame
df_predict_clean.apply(get_prediction, axis=1)

# Add the breed and confident_level to the DataFrame
df_predict_clean['breed'] = breed
df_predict_clean['confident_level'] = confident_level

# Drop the columns that are no longer needed
df_predict_clean.drop(['img_num', 'p1', 'p1_conf', 'p1_dog', 'p2', 'p2_conf', 'p2_dog',

```

Test

```
In [48]: df_predict_clean.info()
```

```

<class 'pandas.core.frame.DataFrame'>
Int64Index: 1751 entries, 0 to 2073
Data columns (total 4 columns):
tweet_id      1751 non-null int64
jpg_url       1751 non-null object
breed         1751 non-null object
confident_level 1751 non-null float64
dtypes: float64(1), int64(1), object(2)
memory usage: 68.4+ KB

```

```
In [ ]:
```

```
In [49]: # saving the tidiness 1 to master to local file
```

```
df_predict_clean.to_csv('df_predict_clean.csv', encoding = 'utf-8', index=False)
```

```
In [ ]:
```

11 Tidiness #2

Combine all the dogs columns and cobine datasets

Define

1. combine the 'doggo', 'floofer', 'pupper' and 'puppo' columns into one column life_stage
2. we should have one master data instead of 3. first step is merging the 3 dataset into one. df_predict_clean dataframe

p1, p2 and p3 should be categorical datatype p1_conf, p2_conf and p3_conf columns should be merged p1_dog, p2_dog and p3_dog columns should be merged

Code

```
In [50]: twitter_archive_enhanced_clean2 = pd.merge(left=twitter_archive_enhanced_clean,
                                                    right=df_api_data_clean, left_on='tweet_id', right_on=

In [51]: twitter_archive_enhanced_Master = twitter_archive_enhanced_clean2.merge(df_predict_clean

In [52]: # saving the master to local file

        twitter_archive_enhanced_Master.to_csv('twitter_archive_enhanced_Master.csv', encoding
```

test

```
In [53]: twitter_archive_enhanced_Master= pd.read_csv('twitter_archive_enhanced_Master.csv')
        twitter_archive_enhanced_Master.info()
```

```
<class 'pandas.core.frame.DataFrame'>
RangeIndex: 581 entries, 0 to 580
Data columns (total 20 columns):
tweet_id          581 non-null int64
timestamp         581 non-null object
source            581 non-null object
text              581 non-null object
expanded_urls     581 non-null object
rating_numerator  581 non-null float64
rating_denominator 581 non-null float64
name              493 non-null object
doggo             581 non-null object
floofer           581 non-null object
pupper            581 non-null object
puppo             581 non-null object
favorites         581 non-null int64
retweets          581 non-null int64
user_followers    581 non-null int64
user_favourites   581 non-null int64
date_time         581 non-null object
jpg_url           581 non-null object
breed             581 non-null object
confident_level   581 non-null float64
dtypes: float64(3), int64(5), object(12)
memory usage: 90.9+ KB
```



```
In [54]: sum(twitter_archive_enhanced_Master['tweet_id'].duplicated())
```

```
Out[54]: 0
```

Code

```
In [55]: # Melt the doggo, floofer, pupper and puppo columns to type and dogs_stage column
twitter_archive_enhanced_Master2 = pd.melt(twitter_archive_enhanced_Master,
                                             id_vars = ['tweet_id', 'timestamp', 'source', 'text', 'expanded_urls', 'rating_numerator', 'rating_denominator', 'name', 'favorites', 'retweets', 'user_followers', 'user_favourites', 'date_time', 'jpg_url', 'breed', 'confident_level'],
                                             value_vars = ['doggo', 'floofer', 'pupper', 'puppo'],
                                             var_name = 'dog_stage', value_name = 'type')
```

```
# Drop type column
```

```
twitter_archive_enhanced_Master2.drop('type', 1, inplace = True)
```

```
# Sort by dog_stage and drop duplicates
```

```
twitter_archive_enhanced_Master2 = twitter_archive_enhanced_Master2.sort_values('dog_stage').drop_duplicates()
```

```
In [56]: twitter_archive_enhanced_Master2.info()
```

```
<class 'pandas.core.frame.DataFrame'>
Int64Index: 581 entries, 2126 to 2323
Data columns (total 17 columns):
tweet_id          581 non-null int64
timestamp         581 non-null object
source            581 non-null object
text              581 non-null object
expanded_urls     581 non-null object
rating_numerator  581 non-null float64
rating_denominator 581 non-null float64
name              493 non-null object
favorites         581 non-null int64
retweets         581 non-null int64
user_followers   581 non-null int64
user_favourites  581 non-null int64
date_time        581 non-null object
jpg_url          581 non-null object
breed            581 non-null object
confident_level  581 non-null float64
dog_stage        581 non-null object
dtypes: float64(3), int64(5), object(9)
memory usage: 81.7+ KB
```

```
In [58]: twitter_archive_enhanced_Master = twitter_archive_enhanced_Master2.info()
```

```
<class 'pandas.core.frame.DataFrame'>
Int64Index: 581 entries, 2126 to 2323
```

```
Data columns (total 17 columns):
tweet_id          581 non-null int64
timestamp         581 non-null object
source           581 non-null object
text             581 non-null object
expanded_urls     581 non-null object
rating_numerator  581 non-null float64
rating_denominator 581 non-null float64
name             493 non-null object
favorites         581 non-null int64
retweets         581 non-null int64
user_followers   581 non-null int64
user_favourites  581 non-null int64
date_time        581 non-null object
jpg_url          581 non-null object
breed            581 non-null object
confident_level  581 non-null float64
dog_stage        581 non-null object
dtypes: float64(3), int64(5), object(9)
memory usage: 81.7+ KB
```

```
In [59]: twitter_archive_enhanced_Master2.info()
```

```
<class 'pandas.core.frame.DataFrame'>
Int64Index: 581 entries, 2126 to 2323
Data columns (total 17 columns):
tweet_id          581 non-null int64
timestamp         581 non-null object
source           581 non-null object
text             581 non-null object
expanded_urls     581 non-null object
rating_numerator  581 non-null float64
rating_denominator 581 non-null float64
name             493 non-null object
favorites         581 non-null int64
retweets         581 non-null int64
user_followers   581 non-null int64
user_favourites  581 non-null int64
date_time        581 non-null object
jpg_url          581 non-null object
breed            581 non-null object
confident_level  581 non-null float64
dog_stage        581 non-null object
dtypes: float64(3), int64(5), object(9)
memory usage: 81.7+ KB
```

```
In [60]: # resaving the master to local file
```

```
twitter_archive_enhanced_Master2.to_csv('twitter_archive_enhanced_Master.csv', encoding
```

Test

```
In [2]: twitter_archive_enhanced_Master= pd.read_csv('twitter_archive_enhanced_Master.csv')
        twitter_archive_enhanced_Master.info()
```

```
<class 'pandas.core.frame.DataFrame'>
RangeIndex: 581 entries, 0 to 580
Data columns (total 17 columns):
tweet_id          581 non-null int64
timestamp         581 non-null object
source           581 non-null object
text             581 non-null object
expanded_urls     581 non-null object
rating_numerator  581 non-null float64
rating_denominator 581 non-null float64
name             493 non-null object
favorites        581 non-null int64
retweets         581 non-null int64
user_followers   581 non-null int64
user_favourites  581 non-null int64
date_time        581 non-null object
jpg_url          581 non-null object
breed            581 non-null object
confident_level  581 non-null float64
dog_stage        581 non-null object
dtypes: float64(3), int64(5), object(9)
memory usage: 77.2+ KB
```

```
In [3]: twitter_archive_enhanced_Master.sample(10)
```

```
Out[3]:
```

	tweet_id	timestamp	source \	text \
321	870656317836468226	2017-06-02	Twitter for iPhone	
228	782969140009107456	2016-10-03	Twitter for iPhone	
272	781163403222056960	2016-09-28	Twitter for iPhone	
236	788765914992902144	2016-10-19	Twitter for iPhone	
170	772581559778025472	2016-09-04	Twitter for iPhone	
222	783821107061198850	2016-10-06	Twitter for iPhone	
187	761334018830917632	2016-08-04	Twitter for iPhone	
365	888078434458587136	2017-07-20	Twitter for iPhone	
160	767122157629476866	2016-08-20	Twitter for iPhone	
530	850145622816686080	2017-04-07	Twitter for iPhone	
321	This is Cody. He zoomed too aggressively and t...			

228 This is Cali. She arrived preassembled. Conven...
 272 We normally don't rate lobsters, but this one ...
 236 This is Butter. She can have whatever she want...
 170 Guys this is getting so out of hand. We only r...
 222 This is Mairi. She has mastered the art of cam...
 187 This is Bruce. I really want to hear the joke ...
 365 This is Gerald. He was just told he didn't get...
 160 This is Rupert. You betrayed him with bath tim...
 530 This is Riley. He's making new friends. Jubila...

	expanded_urls	rating_numerator \
321	https://www.gofundme.com/help-fix-codys-torn-a...	13.0
228	https://twitter.com/dog_rates/status/782969140...	12.0
272	https://twitter.com/dog_rates/status/781163403...	10.0
236	https://twitter.com/dog_rates/status/788765914...	12.0
170	https://twitter.com/dog_rates/status/772581559...	10.0
222	https://twitter.com/dog_rates/status/783821107...	12.0
187	https://twitter.com/dog_rates/status/761334018...	10.0
365	https://twitter.com/dog_rates/status/888078434...	12.0
160	https://twitter.com/dog_rates/status/767122157...	13.0
530	https://twitter.com/dog_rates/status/850145622...	11.0

	rating_denominator	name	favorites	retweets	user_followers \
321	10.0	Cody	10543	2153	9384024
228	10.0	Cali	22181	6741	9384025
272	10.0	NaN	8982	2524	9384025
236	10.0	Butter	25207	9481	9384025
170	10.0	a	5940	1552	9384024
222	10.0	Mairi	6800	1792	9384025
187	10.0	Bruce	4688	1314	9384024
365	10.0	Gerald	18538	2836	9384024
160	10.0	Rupert	9294	2577	9384024
530	10.0	Riley	14606	3325	9384024

	user_favourites	date_time \
321	147172	2017-06-02 15:00:16
228	147172	2016-10-03 15:42:44
272	147172	2016-09-28 16:07:23
236	147172	2016-10-19 15:37:03
170	147172	2016-09-04 23:46:12
222	147172	2016-10-06 00:08:09
187	147172	2016-08-04 22:52:29
365	147172	2017-07-20 16:49:33
160	147172	2016-08-20 22:12:29
530	147172	2017-04-07 00:38:06

	jpg_url	breed \
321	https://pbs.twimg.com/media/DBUxSSTXsAA-Jn1.jpg	Pembroke

228	https://pbs.twimg.com/media/Ct2q05PXEA6eB0.jpg	golden_retriever
272	https://pbs.twimg.com/media/Ctc_-BTWEAAQpZh.jpg	Shetland_sheepdog
236	https://pbs.twimg.com/media/CvJCabcWgAIoUxW.jpg	cocker_spaniel
170	https://pbs.twimg.com/media/CrjCOJAWAAAjz6n.jpg	Newfoundland
222	https://pbs.twimg.com/media/CuCxIzyWEAQtnQA.jpg	Lakeland_terrier
187	https://pbs.twimg.com/media/CpDNQGkWEAENiYZ.jpg	Norwegian_elkhound
365	https://pbs.twimg.com/media/DFMWn56WsAAkA7B.jpg	French_bulldog
160	https://pbs.twimg.com/media/CqVdiBJWIAEDZB4.jpg	toy_poodle
530	https://pbs.twimg.com/media/C8xS655XkAAv9vo.jpg	kelpie

	confident_level	dog_stage
321	0.945495	puppo
228	0.171393	puppo
272	0.973841	puppo
236	0.500509	puppo
170	0.574345	puppo
222	0.265659	puppo
187	0.822936	puppo
365	0.995026	puppo
160	0.873841	puppo
530	0.105390	puppo

In []:

12 V.Analyzing Data & Visualization

13 Visual 1

Define 1.dog breeds based on: number of original tweets number of total retweets number of total favorite

In [62]: `twitter_archive_enhanced_Master.breed.value_counts()`

Out[62]:	golden_retriever	76
	Pembroke	39
	Labrador_retriever	39
	chow	22
	Chihuahua	22
	French_bulldog	17
	Samoyed	17
	cocker_spaniel	15
	malamute	14
	German_shepherd	12
	Cardigan	11
	pug	11
	Chesapeake_Bay_retriever	11
	toy_poodle	11
	Eskimo_dog	9

Pomeranian	9
miniature_pinscher	9
Staffordshire_bullterrier	8
basset	8
Siberian_husky	8
Norwegian_elkhound	7
American_Staffordshire_terrier	7
Doberman	6
kelpie	6
Bernese_mountain_dog	6
Old_English_sheepdog	6
vizsla	6
beagle	5
kuvasz	5
Great_Pyrenees	5
..	
Yorkshire_terrier	2
soft-coated_wheaten_terrier	1
wire-haired_fox_terrier	1
Australian_terrier	1
black-and-tan_coonhound	1
silky_terrier	1
Norfolk_terrier	1
Saint_Bernard	1
Sussex_spaniel	1
curly-coated_retriever	1
papillon	1
keeshond	1
basenji	1
Appenzeller	1
borzoi	1
Irish_water_spaniel	1
Rhodesian_ridgeback	1
giant_schnauzer	1
miniature_schnauzer	1
toy_terrier	1
English_setter	1
cairn	1
Irish_terrier	1
Brittany_spaniel	1
Walker_hound	1
Bouvier_des_Flandres	1
clumber	1
German_short-haired_pointer	1
Dandie_Dinmont	1
redbone	1

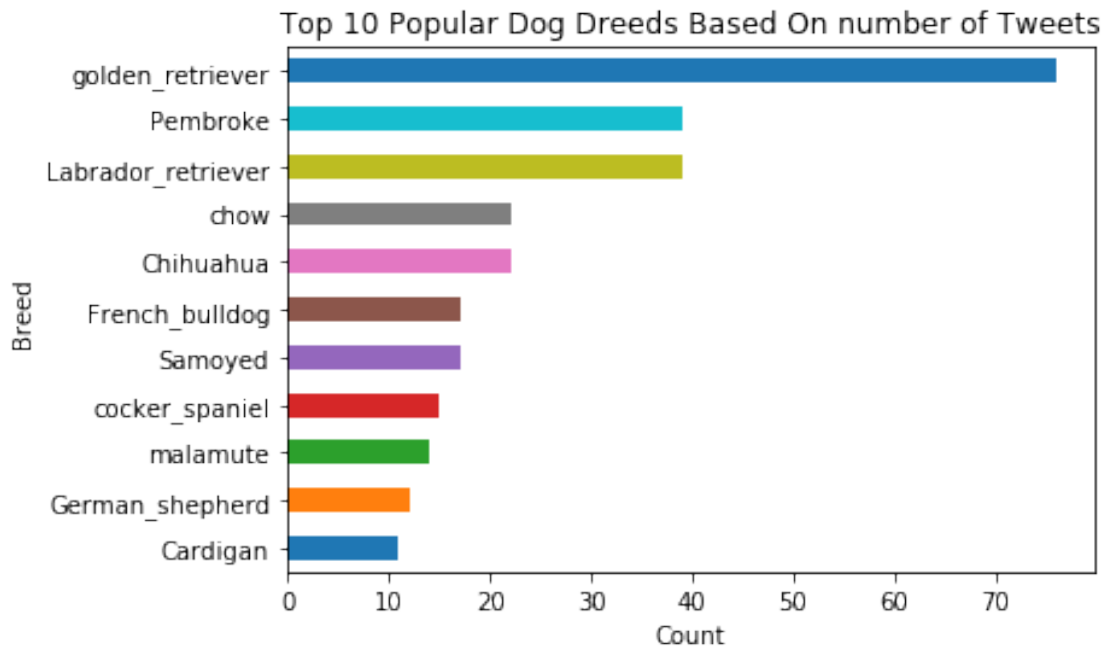
Name: breed, Length: 99, dtype: int64

14 Visual 2

Define: top 10 popular breeds based on number of posts

In [63]: *# Plot bar chart for top 10 popular breeds based on number of posts*

```
twitter_archive_enhanced_Master.breed.value_counts()[10::-1].plot(kind = 'barh', title  
plt.xlabel('Count')  
plt.ylabel('Breed');
```

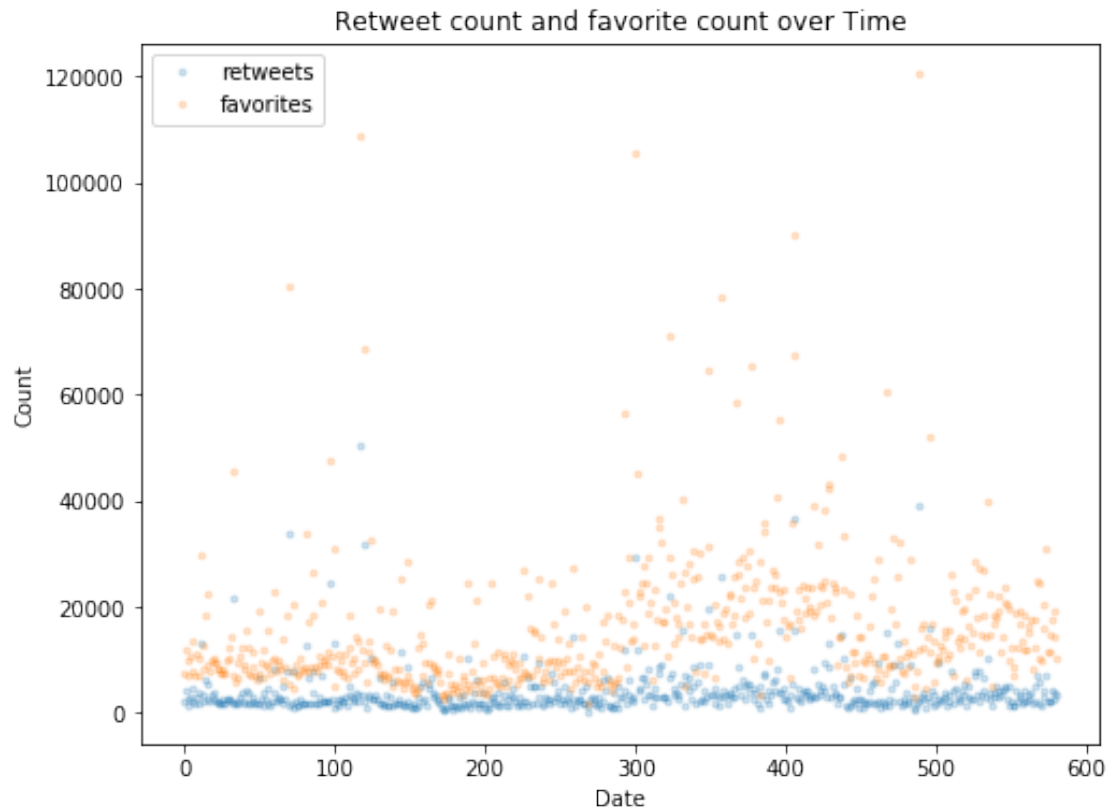


Visual 3

Define: scatter btw retweet and favorite

In [64]: *#plot a scatter btw retweet and favorite*

```
twitter_archive_enhanced_Master.plot.line(y = ['retweets', 'favorites'], style = '.', al  
plt.title('Retweet count and favorite count over Time')  
plt.xlabel('Date')  
plt.ylabel('Count');
```



Visual 4

Define: Average ratings for popular dog breeds based on tweet count

In [65]: *# Make a list of top popular dog breeds based on number of tweets*

```
top_tweet_count = twitter_archive_enhanced_Master.breed.value_counts().sort_values(ascending=False)
breed_list = top_tweet_count.dog_breed.tolist()
```

Average rating for top breeds based on number of tweets

```
avg_rating = twitter_archive_enhanced_Master.groupby('breed').rating_numerator.mean().sort_values(ascending=False)
breed_avg_rating = avg_rating[avg_rating['breed'].isin(breed_list)]
```

```
breed_avg_rating
```

```
Out[65]:
```

	breed	avg_rating
15	Samoyed	12.647059
28	Pembroke	12.307692
29	French_bulldog	12.294118
32	cocker_spaniel	12.200000
35	Chihuahua	12.136364
36	chow	12.136364


```

40 Labrador_retriever 12.076923
63 golden_retriever 11.986842
67 German_shepherd 11.750000
69 malamute 11.714286

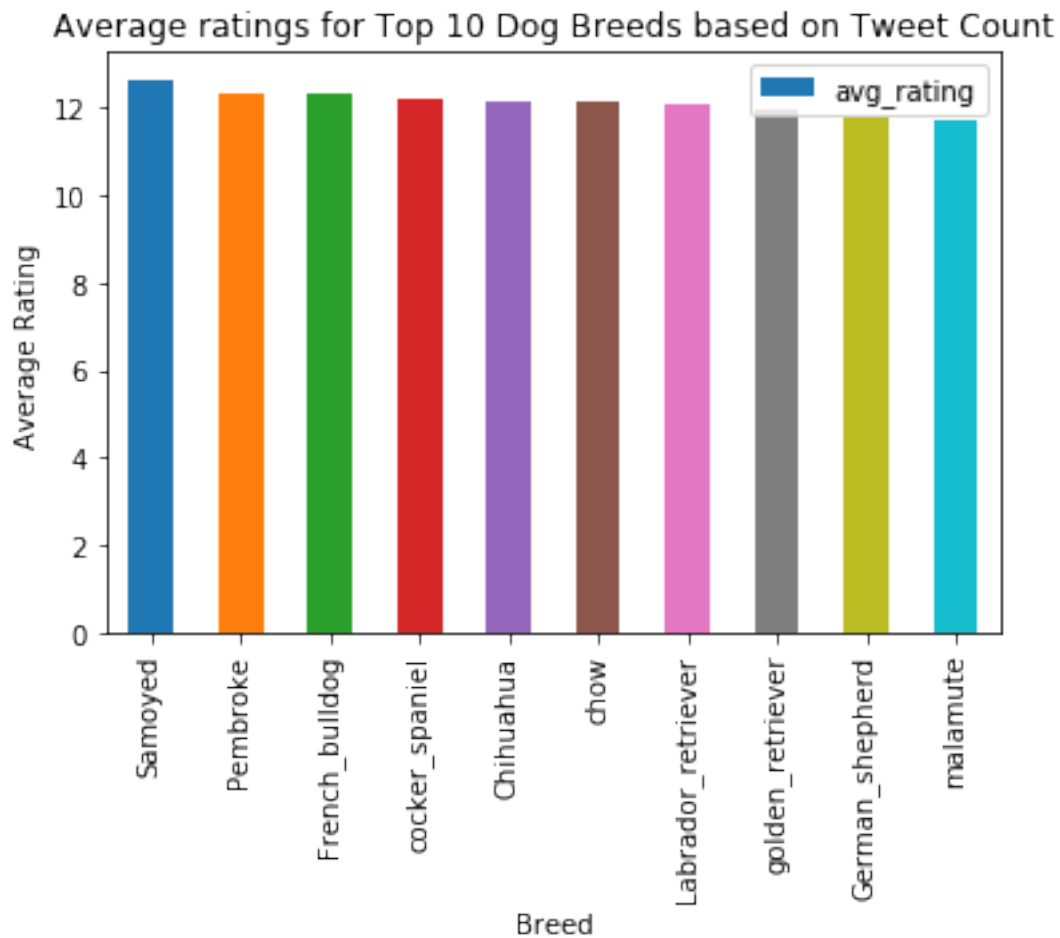
```

In [66]: *# Plot chart*

```

breed_avg_rating.plot(kind='bar', x='breed', y='avg_rating')
plt.title('Average ratings for Top 10 Dog Breeds based on Tweet Count')
plt.ylabel("Average Rating")
plt.xlabel("Breed");

```



In []: