

Wrangle and analyze twitter data

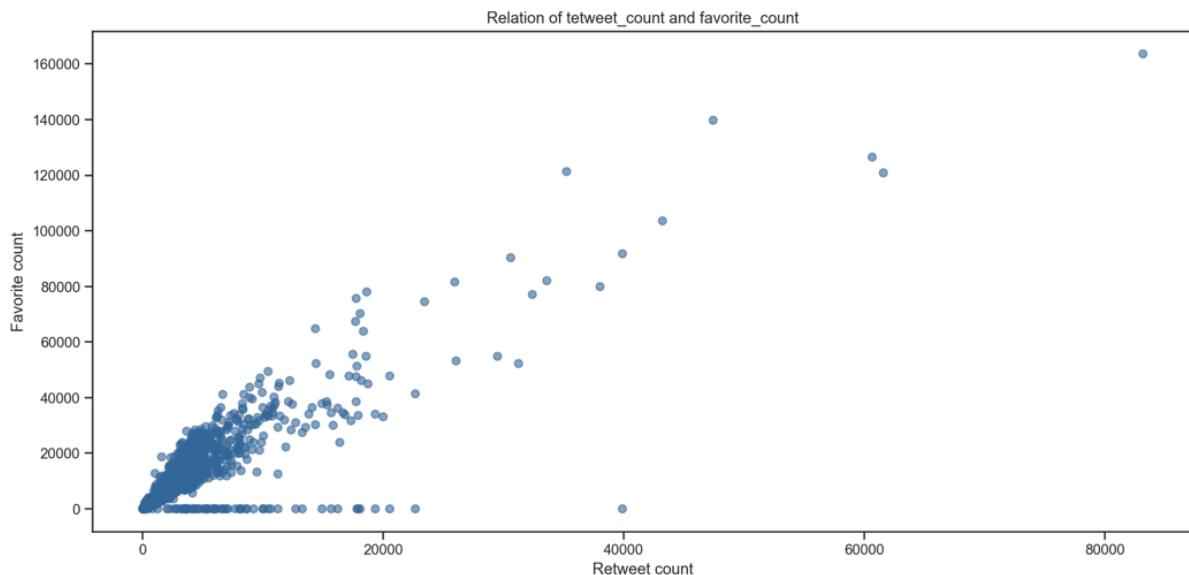
By Hana AL-alawi, 25 February 2019

@weRateDogs is the twitter account to rate people's dogs by special rating system. @weRateDogs has 7.78 million followers it is popular account.

At the first when I start working on this project I had some wondering questions like, *What is the most liked dog type?*, *Is the relation between retweet and likes strong or weak?*, *What is hashtags used with dog's images?*, *What is the dog type having the highest rate in years?* And I start to answer it.

Retweet and Favorite:

Each tweet has retweet count and favorite count. people express their admiration about tweets by retweet it or like it. The high retweet and favorite tweets are extremely popular. I used Scatter plot to figure out the relation between Retweets and likes.



This visualization shows how the relation between favorite and retweet count is strong, and the correlation coefficient is 0.85 with Pearson correlation coefficient, this correlation is strong positive make sense because when the tweet has more retweet will liked more too.

The Most Liked tweet:



This tweet gets the highest retweet and likes. It is funny video for dog trying to swim and standing in the pool.

tweet_id	jpg_url	p1	p1_conf	p1_dog	p2	p2_conf	p2_dog	p3	p3_conf	...	da
1221 7.442348e+17	https://pbs.twimg.com/ext_tw_video_thumb/74423...	Labrador_retriever	0.825333	True	ice_bear	0.044681	False	whippet	0.018442	...	Na

1 rows x 29 columns

```
#fav max is 163574
final_twitter_data[final_twitter_data['favorite_count']==final_twitter_data['favorite_count'].max() ]
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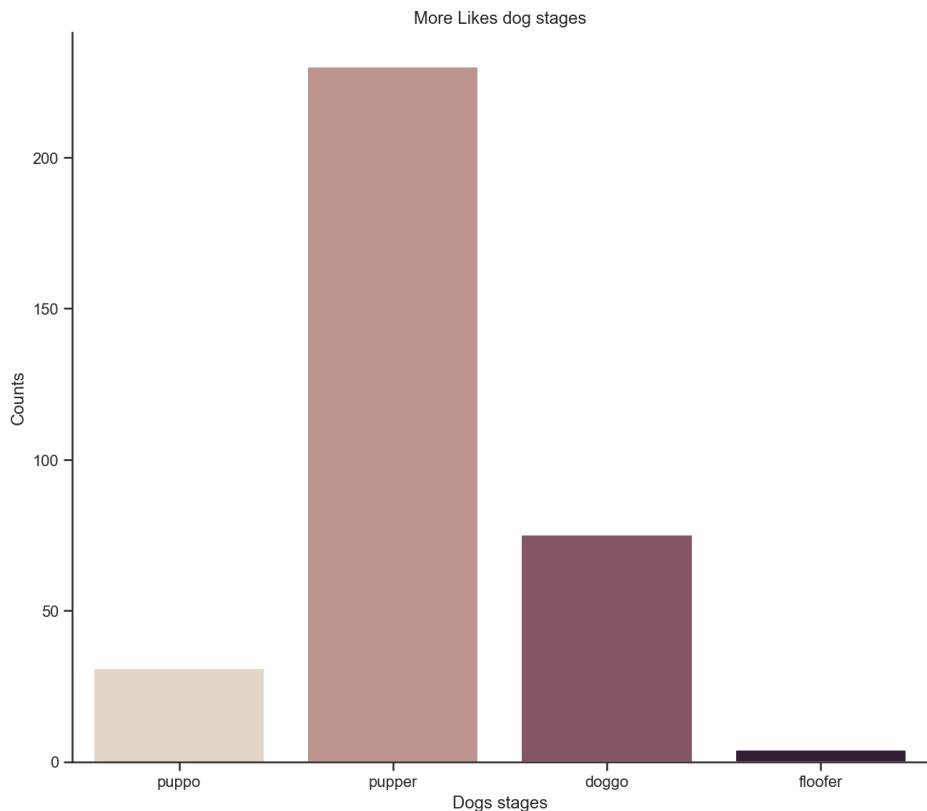
tweet_id	jpg_url	p1	p1_conf	p1_dog	p2	p2_conf	p2_dog	p3	p3_conf	...	da
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Most dog stages like:

From people's tweets (text column in the data frame) I searched for dog types. The dog types are Pupper, Floofer, Doggo and Pupper. I used Barplot to visualize and analyze.

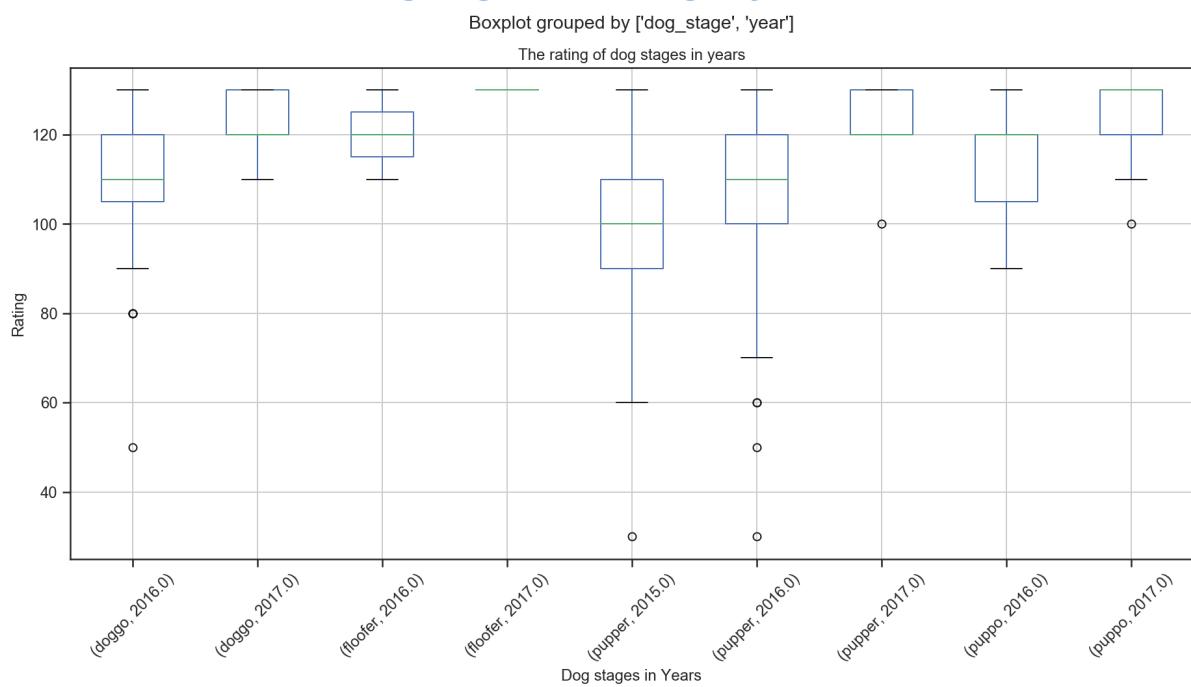


From the visualization the most liked dog stage is Pupper. Pupper comes on tweets more than 250 times and the second is Doggo comes more than 50 times on tweets.



	count	mean	std	min	25%	50%	75%	max
dog_stage								
doggo	75.0	113.866667	14.967833	50.0	110.0	110.0	125.0	130.0
floofer	4.0	122.500000	9.574271	110.0	117.5	125.0	130.0	130.0
pupper	230.0	105.478261	17.320179	30.0	100.0	110.0	120.0	130.0
puppo	31.0	120.000000	11.832160	90.0	115.0	120.0	130.0	130.0

Dog stages and rating in years:

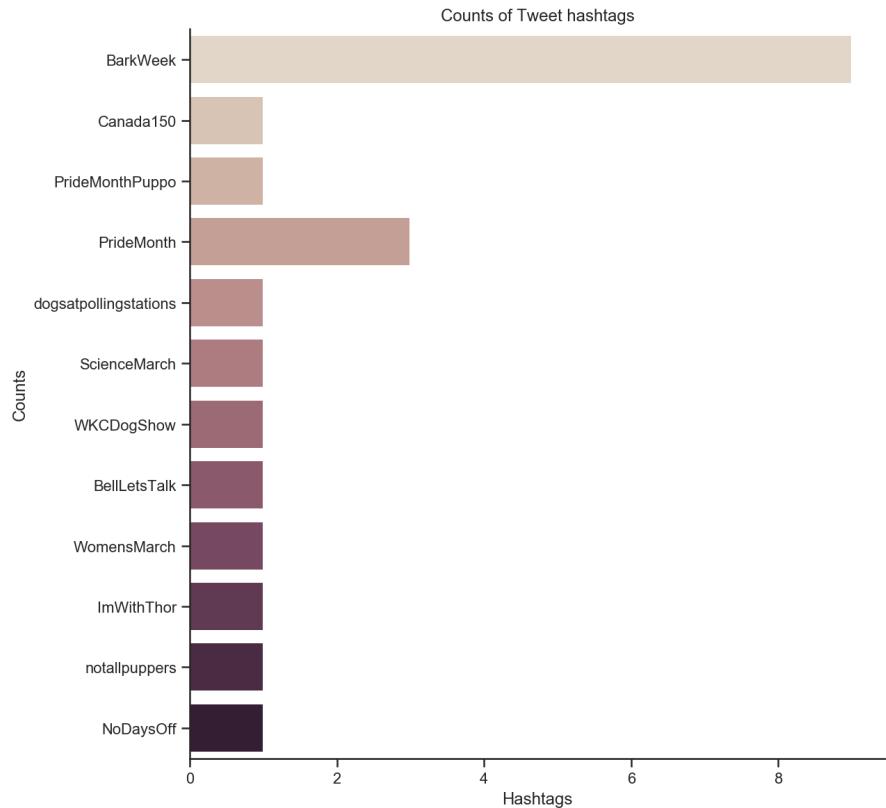


This visualization shows each dog stage and its rating in years.

Tweet hashtags:



People using hashtags with their tweets to give the tweet keywords to categorize it, from tweets (text column) in data frame I extracted hashtags. Hashtags are the word after # symbol.



The visualization shows the tweet hashtags, the Most hashtag repeat are [#Barkweek](#) and [#PrideMonth](#).