

# We Rate Dogs Project

Insight and Visualization of Twitter handle @dogs\_rates wrangled data.

By Nagashri Nagaraj  
Date: November 9, 2018

## Introduction

Twitter is an American online news and social networking service on which users post and interact with messages known as "tweets". Twitter has about 336 Million users with around 6,000 tweets per second!!

We Rate Dogs is a single topic blog on twitter that humorously reviews dog pictures doing adorable poses and rate them. These ratings almost always have a denominator of 10. The numerators, though? Almost always greater than 10. 11/10, 12/10, 13/10, etc. Why? Because "they're good dogs Brent." WeRateDogs has over 4 million followers and has received international media coverage.

Data was gathered from three different sources for this project.

1. Manually downloading a given csv file
2. Udacity Server – to get image file for the dog breed by using Requests library
3. Querying Twitter with Python's Tweepy library

## Insight and Visualization

Foremost step was to look at the descriptive statistics of the dataset.

	rating_numerator	rating_denominator	Unnamed: 0	favorite_count	retweet_count	followers_count	friends_count
count	799.000000	799.0	799.000000	799.000000	799.000000	7.990000e+02	799.0
mean	11.135169	10.0	1036.007509	10453.389237	2937.699625	7.437185e+06	10.0
std	2.862208	0.0	660.668743	12949.689650	4364.053669	1.010693e+02	0.0
min	2.000000	10.0	1.000000	104.000000	20.000000	7.437146e+06	10.0
25%	10.000000	10.0	493.500000	2798.000000	814.500000	7.437159e+06	10.0
50%	11.000000	10.0	951.000000	6457.000000	1861.000000	7.437162e+06	10.0
75%	12.000000	10.0	1551.000000	13782.500000	3491.000000	7.437200e+06	10.0
max	75.000000	10.0	2309.000000	122619.000000	59897.000000	7.438157e+06	10.0

### Takeaways:

1. Mean rating of dog is 11.1/10 with maximum of 75/10
2. Mean retweet count of an original tweet is 2937.69 with maximum of 59897.0
3. Mean favorite count for an original tweet is 10453.3 and a maximum value of 122619.0

### Insight 1: Image of the dog rated maximum (75/10)



*Insight 1*

This is a picture of Chow named Logan who is dressed as Harry Potter.

## Insight 2: Image of the dog rated least (2/10)



*Insight 2*

This is a Maltese dog named Crystal posing as a fireman

## Insight 3: Most common predicted dog breed

golden retriever	75
pembroke	48
chihuahua	44
labrador retriever	39
pug	33

*Insight 3*

Most common predicted dog breeds are Golden Retriever with 75 prediction, Pembroke with 48 predictions, Chihuahua with 44 predictions, Lab Retriever with 39 and Pug with 33 predictions.

## Insight 4: Most popular dog names

```
[('Cooper', 9), ('Oliver', 8), ('Lucy', 7), ('Tucker', 7), ('Penny', 6)]
```

*Insight 4*

Most popular dog names are: Cooper, Oliver, Lucy, Tucker, Penny

## Insight 5: Most common dog rating

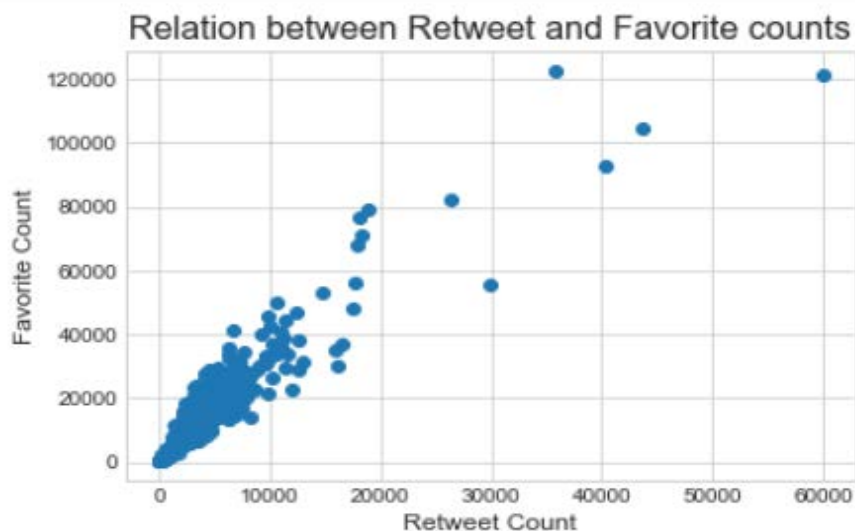
```
[(12, 230),  
(11, 178),  
(10, 149),  
(13, 127),  
(9, 48),  
(8, 31),  
(7, 14),  
(14, 7),  
(6, 5),  
(5, 3),  
(3, 3),  
(75, 1),  
(27, 1),  
(4, 1),  
(2, 1)]
```

*Insight 5*

## Insight 6: correlation between retweet count and favorite count

Retweet count and favorite count has a very strong positive correlation – 0.92. This could also be due to a psychological phenomenon called ‘Mere Exposure Effect’. Where people tend to develop a preference for things merely because they are familiar with them.

## Insight 7: Visualization comparing the favorite & retweet counts



*Insight 6*

In the above visualization we can see the strong correlation between favorite counts and retweet counts