

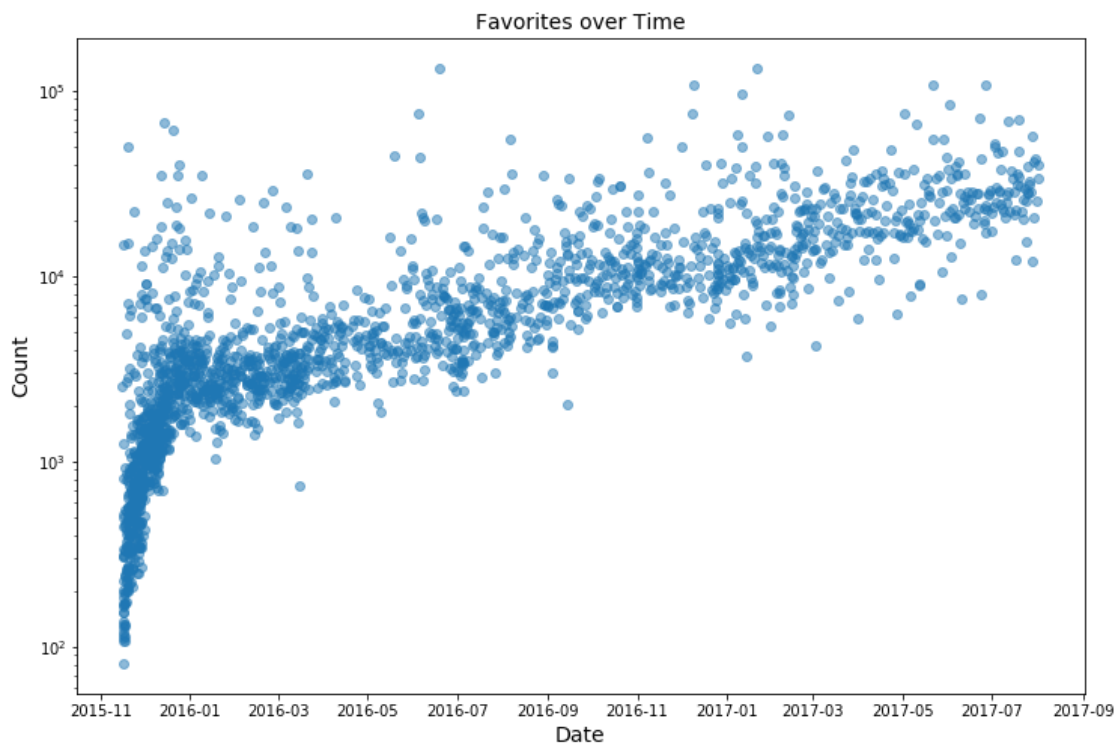
# Introduction

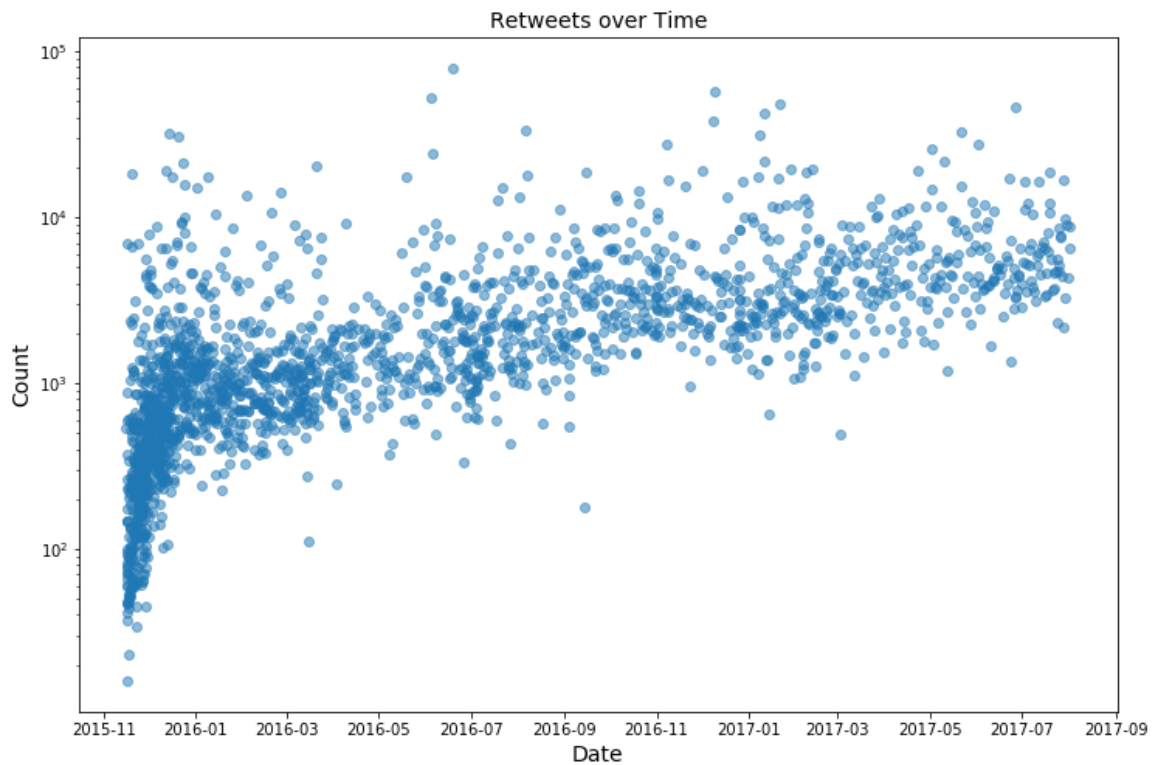
This is an analysis of tweets from the WeRateDogs twitter account. WeRateDogs is a twitter account that rates people's dogs with a humorous comment about the dog.

## Analysis

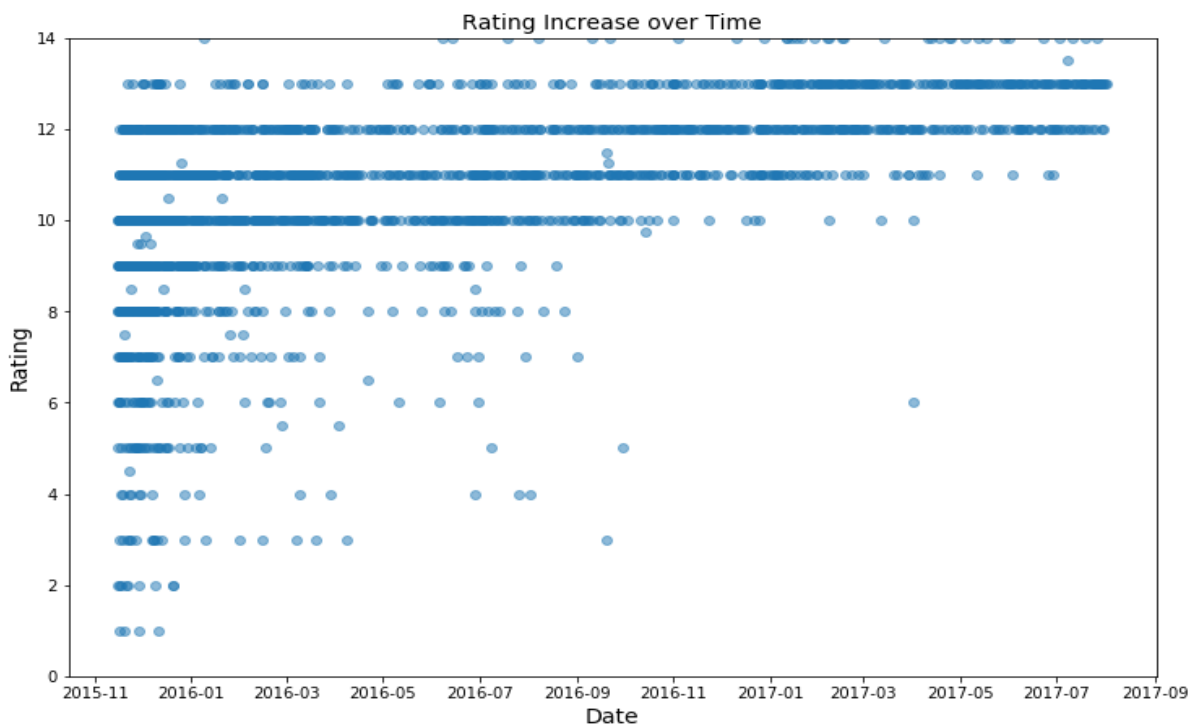
- **Favorites, Retweets and Ratings over time**

First, I recognized a trend in the favorites and retweets over time. In the visualizations below we can see the gradual increase of both.

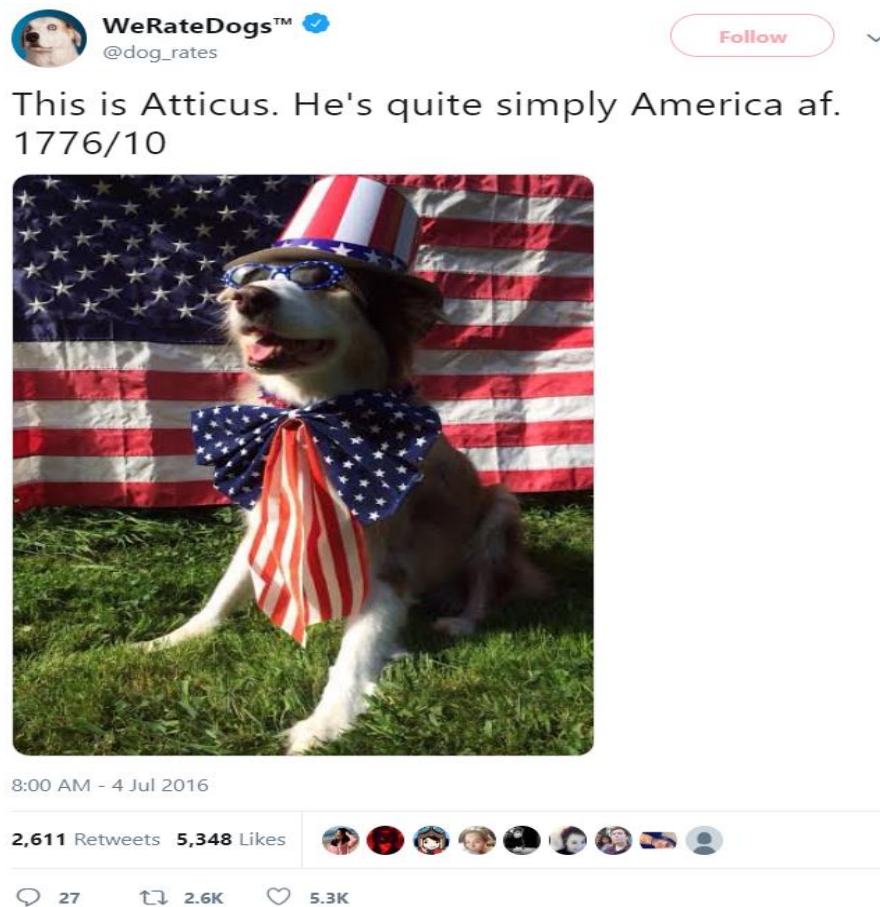




Then I looked at the ratings increase over time. The dog ratings are usually a number out of 10. So, I parsed the ratings from the 'text' column and realized that almost all of the ratings were below 14 except the joke ratings of 420 and 1776.



These were the tweets which had those high ratings for the comedic effect:



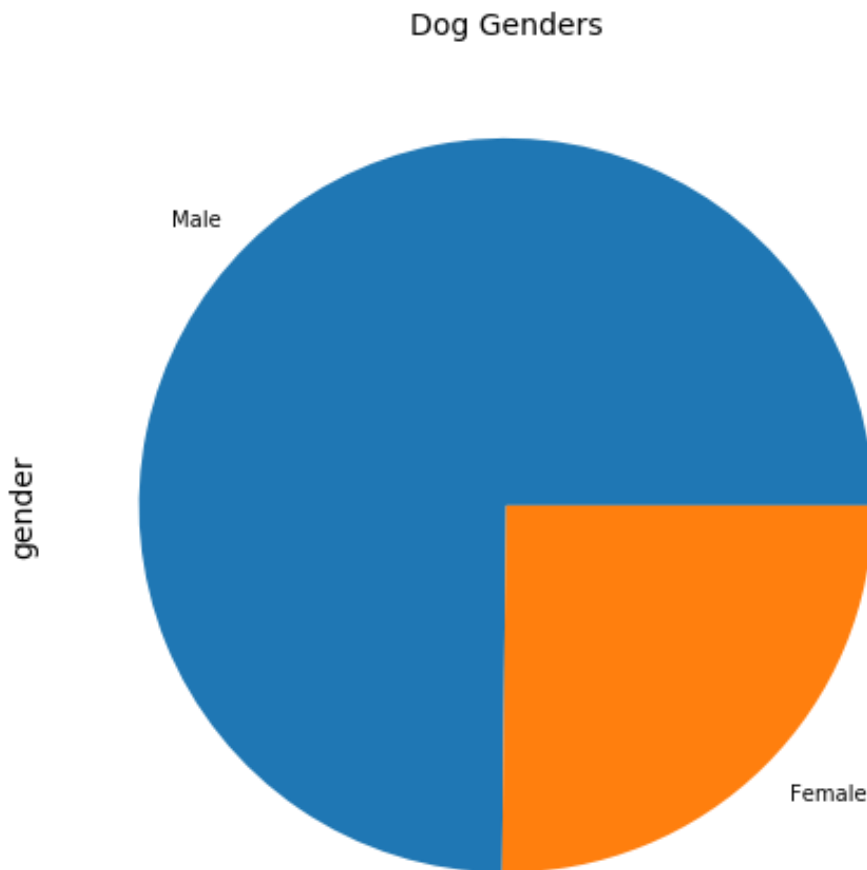
Then I ran a correlation to see if dogs with higher ratings were getting more favorites or retweets.

	favorite_count	retweet_count	rating
favorite_count	1.000000	0.912947	0.016028
retweet_count	0.912947	1.000000	0.018266
rating	0.016028	0.018266	1.000000

There is definitely a correlation between favorites and retweets. This generally implies that there'll be more retweets and favorites if the tweet is good.

But still there's no correlation between rating and retweets or favorites. It could be that the posted pics of dogs are not actually getting better or lower quality pics of dogs are given funnier captions which leads to the caption getting retweets and favorites and not the dog pic itself.

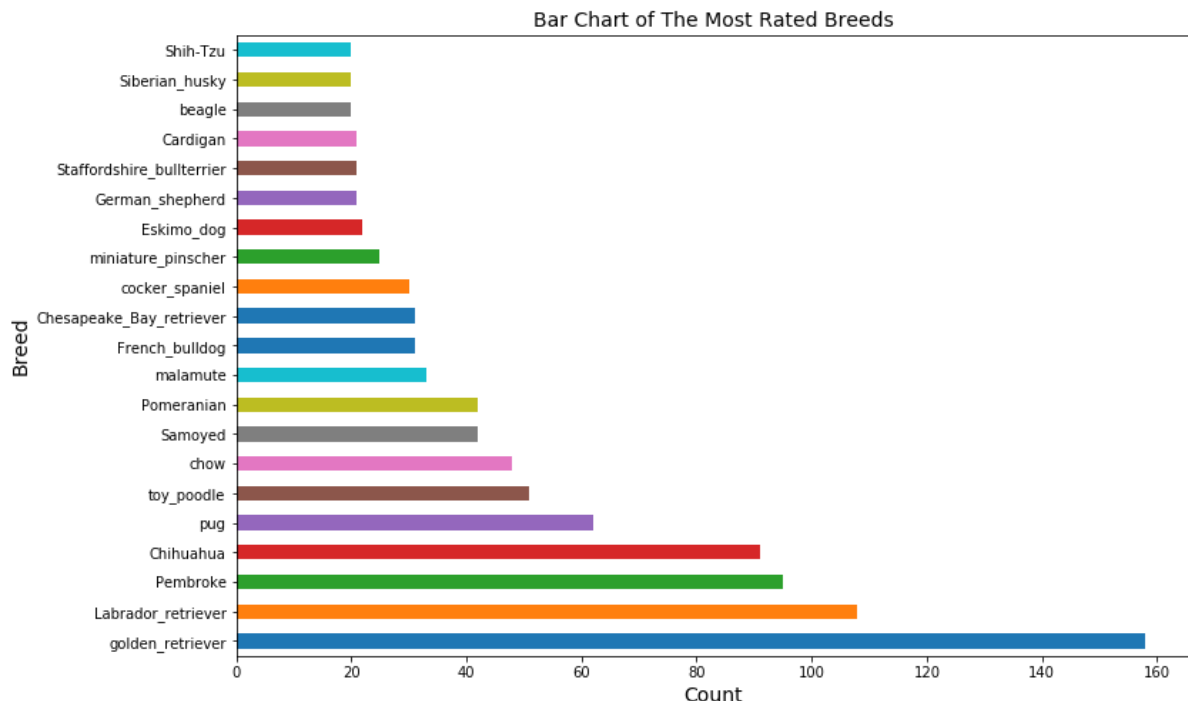
- **'Good Boys' and 'Good Girls'**



There were three times more male dogs identified than female dogs. This might be due to more male dogs having their sex announced, either by their owner or by @dog\_rates or both.

Also, there was one incidence of the word 'girl' that referred to a human girl that was also in the picture. So, it is possible that some of the dogs were misgendered by the function. It's also possible that @dog\_rates is misgendering some females by using male pronouns as gender-neutral, which is somewhat common. However, since only a small portion of the rated dogs were gendered at all, it is hard to draw concrete conclusions.

- **Most Rated Breeds**

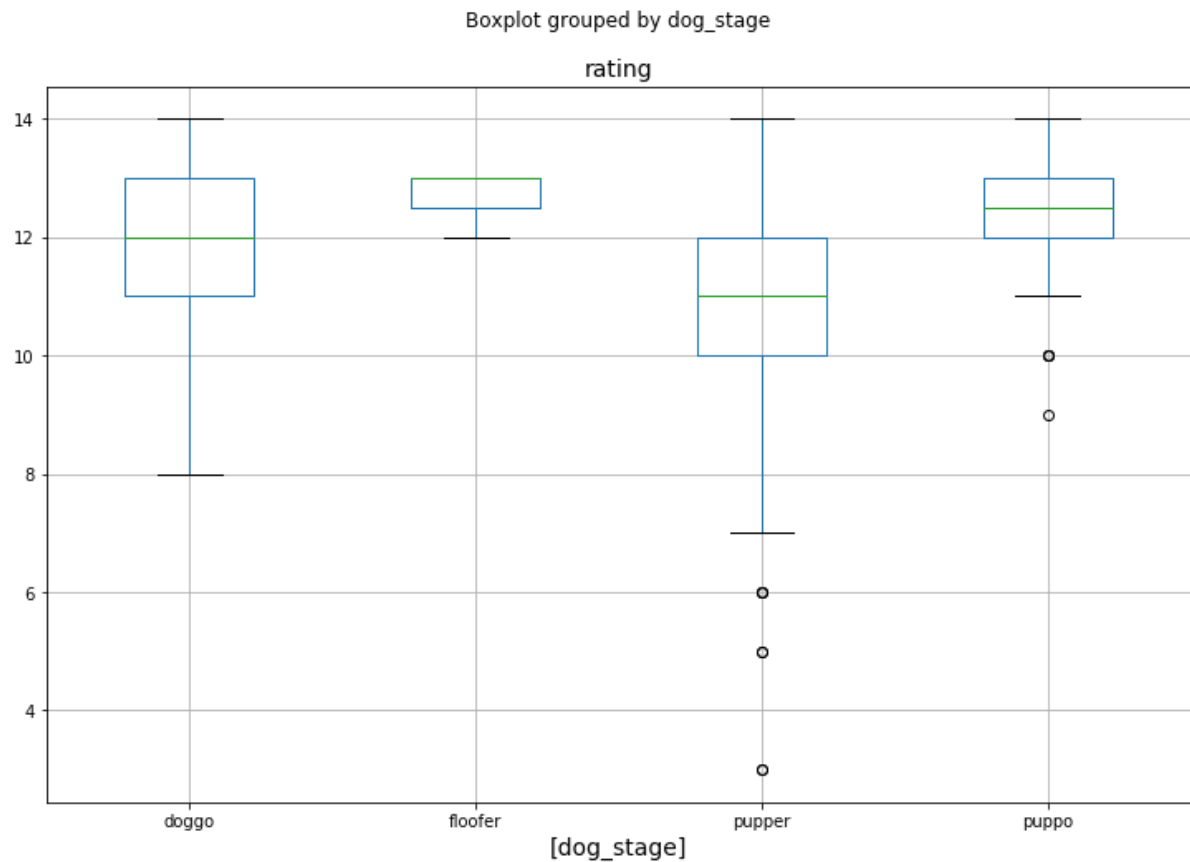


It's difficult to interpret why these breeds are the top breeds. It could be because they are commonly owned. They could be the favorites of the owner of @dog\_rates, so they are the ones they choose to rate the most. Or they could be the easiest to identify by the AI that identified them.

The I ran a statistical comparison between top breeds and all the ratings. Only the top breeds had a mean higher than the total population mean. That might be because of the joke ratings of 420 and 1776 pulling up the total population mean.

So, then I adjusted the ratings to exclude the joke rates and now the total population mean decreased and only five of the top 21 breeds had means under the total population's mean. So, these breeds are rated higher than average.

- **Dog Stage Stats**



	count	mean	std	min	25%	50%	75%	max
dog_stage								
doggo	66.0	11.757576	1.478675	8.0	11.0	12.0	13.0	14.0
floofer	3.0	12.666667	0.577350	12.0	12.5	13.0	13.0	13.0
pupper	229.0	10.562271	1.837045	3.0	10.0	11.0	12.0	14.0
puppo	28.0	12.142857	1.208436	9.0	12.0	12.5	13.0	14.0

We can see that puppies are getting lower ratings than the other dog types. Their median is lower and they have several low outliers.

Floofers are consistently rated above 10. We know that ratings have been getting higher over time. If 'floof' is a newer term, only used in newer tweets, that might explain the consistently higher ratings.

	count	unique	top	freq	first	last
dog_stage						
doggo	66	66	2016-11-18 23:35:32	1	2016-04-02 01:52:38	2017-07-26 15:59:51
floofer	3	3	2016-11-20 17:20:08	1	2016-09-15 00:36:55	2017-07-07 16:22:55
pupper	229	229	2016-01-30 02:41:58	1	2015-11-26 21:36:12	2017-07-15 23:25:31
puppo	28	28	2017-01-29 02:44:34	1	2016-06-03 01:07:16	2017-07-25 01:55:32

Here we can see that 'floof' is not a new term, first used in January 2016. So, this means that it can be concluded that floofers are consistently great dogs.