Analysis and Visualization of WeRateDogs

by Javier Soto

Introduction

This analysis focuses on the tweets from the tweet archive of Twitter user **@dog_rates**, also known as **WeRateDogs**. They have over 6 million followers and have received international media coverage.
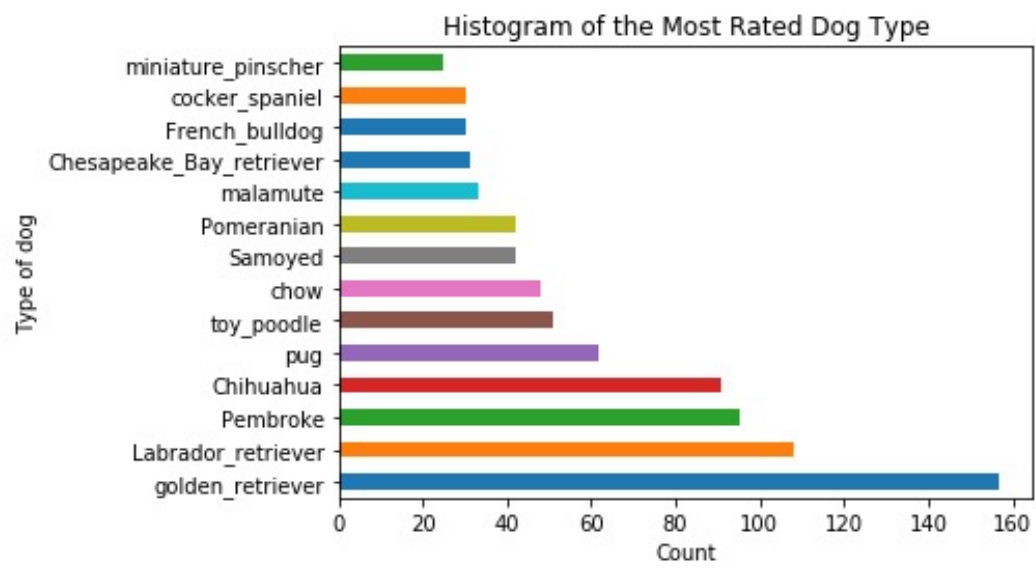

Strong Correlation between Retweets and Favorites

The correlation matrix showed that there was a strong positive relationship between between retweets and favorite counts (0.93). This suggest that as a tweet gains Favorites, one can expect to see retweets to increase and vice versa.

	tweet_id	rating_numerator	rating_denominator	favorites	retweets	user_followers
tweet_id	1.000000	0.093768	-0.029985	0.599993	0.373751	0.020155
rating_numerator	0.093768	1.000000	0.972491	0.063941	0.049535	0.015347
rating_denominator	-0.029985	0.972491	1.000000	-0.029120	-0.020842	0.010781
favorites	0.599993	0.063941	-0.029120	1.000000	0.931613	0.022560
retweets	0.373751	0.049535	-0.020842	0.931613	1.000000	0.032485
user_followers	0.020155	0.015347	0.010781	0.022560	0.032485	1.000000
user_favourites	-0.038406	-0.012670	-0.007937	0.003126	0.009532	0.935787
year	0.879418	0.110596	-0.002601	0.514754	0.316436	0.119980
month	-0.285278	-0.083410	-0.039911	-0.143561	-0.079247	-0.214920
day	-0.010146	-0.006153	0.005020	-0.020933	-0.037787	0.017712
rating	0.543183	0.236466	0.009526	0.406881	0.307838	0.022084

Most Common Dog Type

The most rated dog was golden retriever with more than 140 ratings. On the opposite end of the scale was the miniature pinscher.

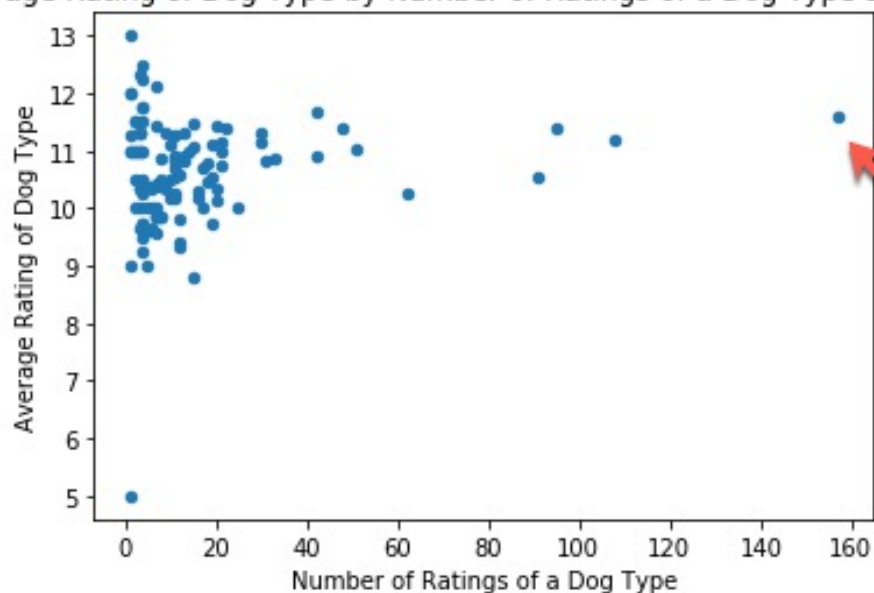Histogram of the Most Rated Dog Type

Suzy @suzyyogi · Jun 7
BREAKING NEWS! There is a DOG in the office today. I repeat, a DOG in the office. Meet Newton. A 16 week English **golden retriever** pupper. 13/10 Would promote to CFO - Chief Fluff Officer. @dog_rates

💬 53   🔁 557   ♡ 6.5K   ✉

The blue dot on the very right, in the plot below, represents the approximately 140 ratings of golden retriever. On average these ratings are high 11.59. This shows that the golden retriever is very popular.

Average Rating of Dog Type by Number of Ratings of a Dog Type Scatter Plot

Retweets

Many tweets have been retweeted more than 1000 times some more than even 50000 times. However, there is no clear relationship between the ratings and the retweets.

Retweet Counts by Ratings Scatter Plot