Insight and visualization 1

How is retweet_count and favorite count spread out?

The mean retweet count is 2663.2212.

Quantile spread:

0.25 576.25

0.50 1274.50

0.75 3049.50

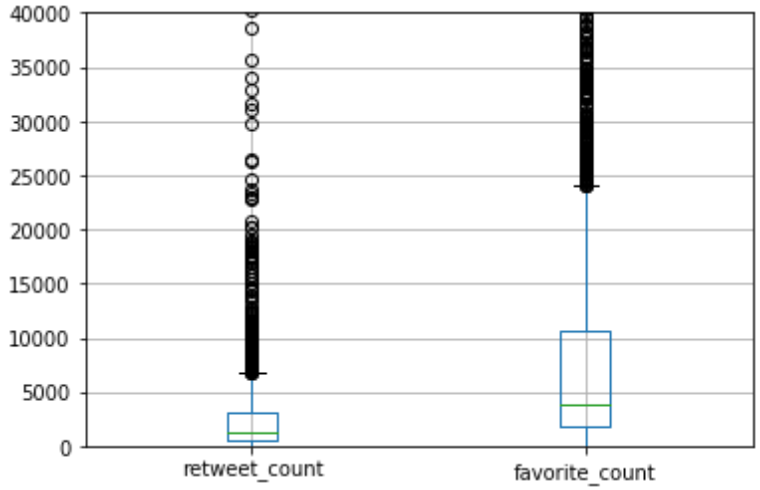
For Favorite count, it looks like this

0.25 1835.75

0.50 3890.00

0.75 10724.00

The boxplot shows an uneven distribution with many outliers. Favorites and Retweets are not evenly spread out.

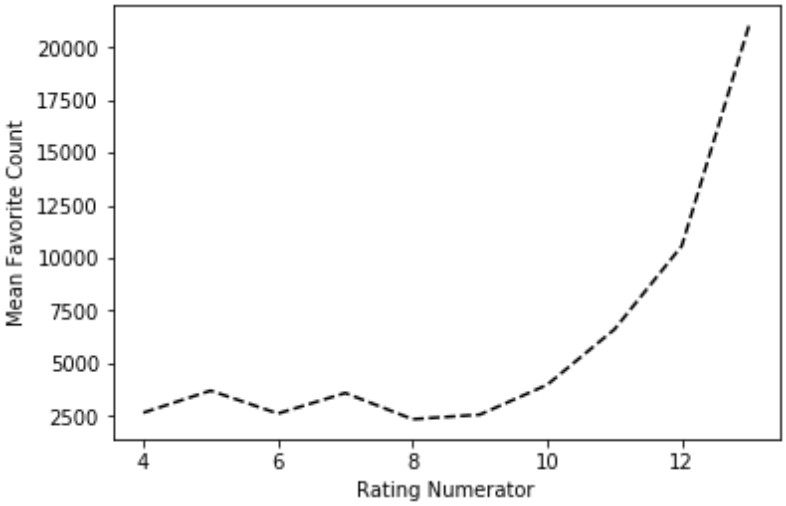


Insight and visualization 2:

How are ratings (from weratedogs) and tweet favorites related?

The data for rating numerator seems to have errors, the highest rating is 1776

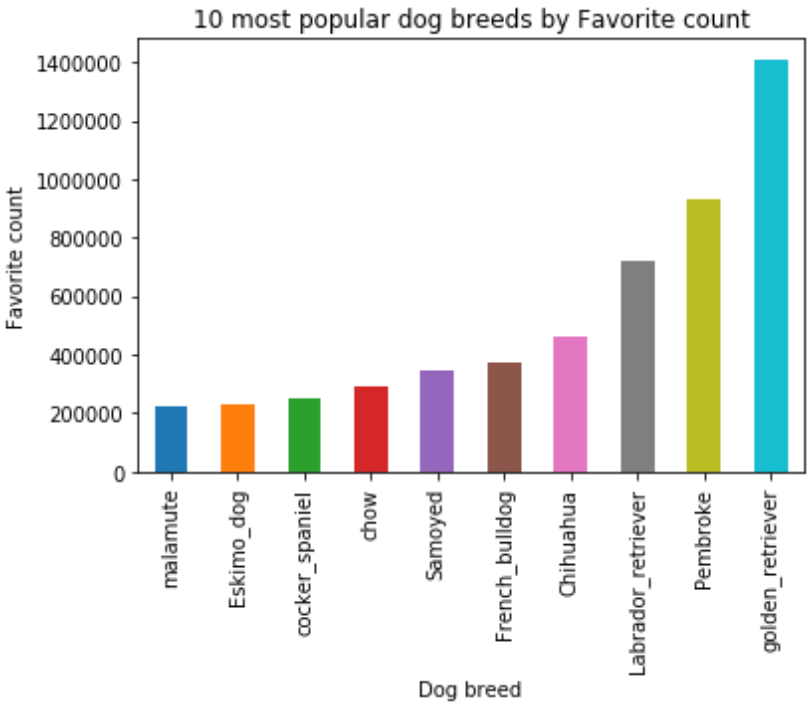
For the report, only checking ratings between 4 and 13, which excludes 45 dogs from our analysis which I view as outliers.

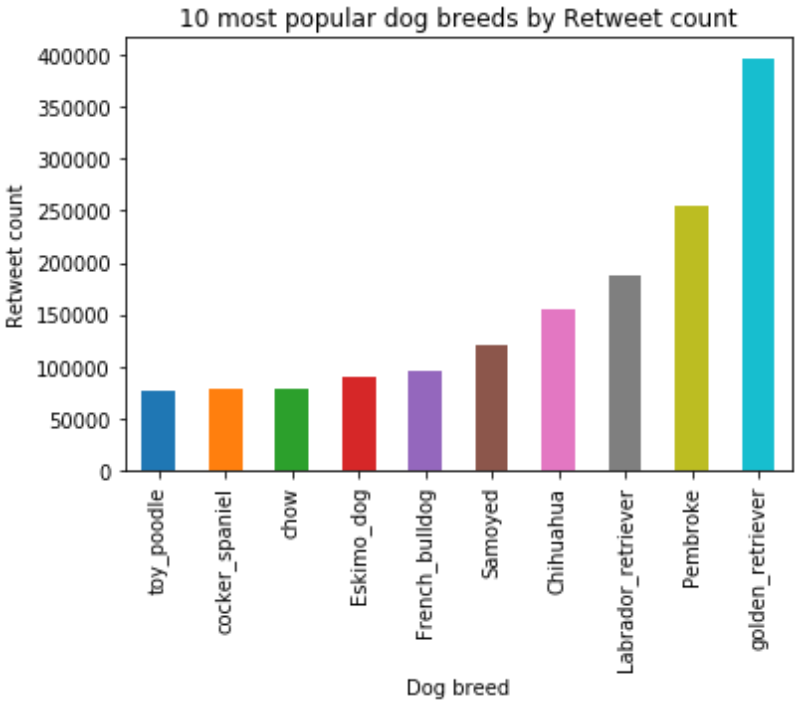


Comparing the Numerator and the mean favorites, there is a clear upward trend.
Once the ratings reach 10, the favorites go up as well. This might be a direct correlation, users are more inclined to favor a tweet of a dog if it was highly rated, to begin with.
Most dogs are rated favorable, the ratings clearly increase at rating 10. 80% of all dogs are rated higher than 10

rating_numerator
4 17
5 36
6 32
7 54
8 98
9 156
10 442
11 426
12 499
13 307

Insights and Visualization 3: Most popular dog breeds
Using the image predictions, which dogs get most favorited and retweeted?
Checking out the three most favorited and retweeted dog breeds, Golden Retriever is clearly in the lead, followed by the Pembroke Corgi and the Labrador.
It is however not clear how many dogs are actually mixed breeds, as the image recognition seems to recognize only pure breeds.


10 most popular dog breeds by Favorite count
Favorite count
1400000
1200000
1000000
800000
600000
400000
200000
0
malamute
Eskimo_dog
cocker_spaniel
chow
Samoyed
French_bulldog
Chihuahua
Labrador_retriever
Pembroke
golden_retriever
Dog breed


10 most popular dog breeds by Retweet count
Retweet count
400000
350000
300000
250000
200000
150000
100000
50000
0
toy_poodle
cocker_spaniel
chow
Eskimo_dog
French_bulldog
Samoyed
Chihuahua
Labrador_retriever
Pembroke
golden_retriever
Dog breed