

## Report: act\_report

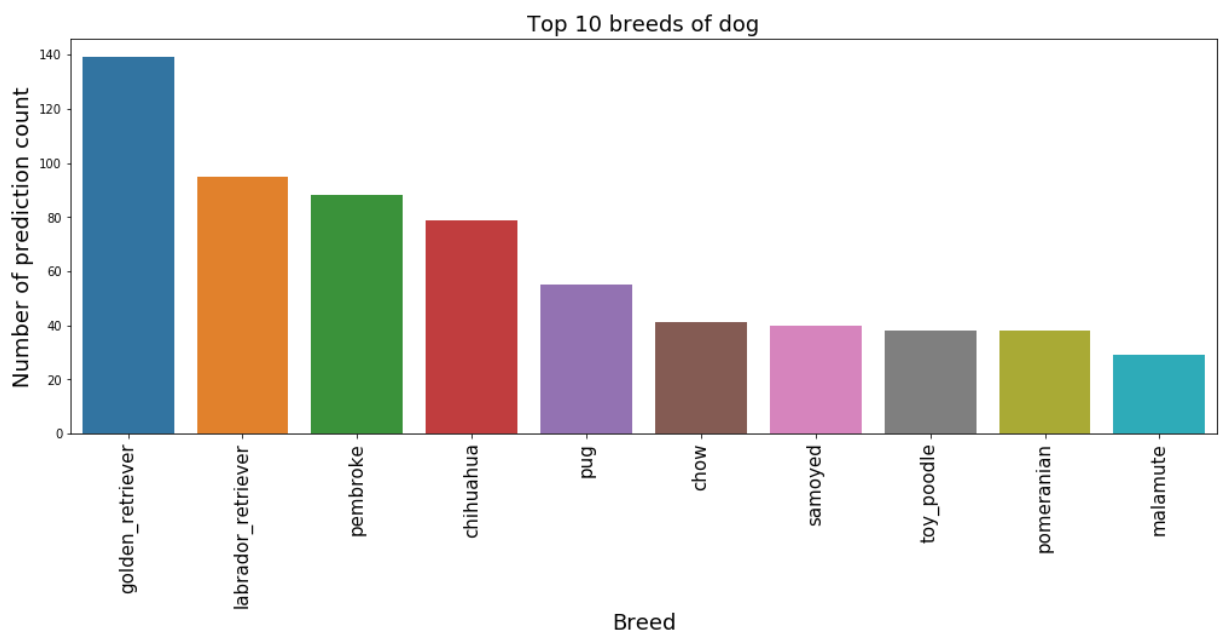
After cleaning the data, we perform analysis with it to bring out at least 3 insights and 1 visualization. The following gives a detailed report on the insight derived from the data.

### Steps:

1. Read the master data
2. Perform analysis
3. visualize

### 1. Most Popular Dog Breed (Top 10)

```
golden_retriever    139
labrador_retriever  95
pembroke            88
chihuahua           79
pug                 54
chow                41
samoyed             40
pomeranian          38
toy_poodle          38
malamute            29
Name: 1st_prediction, dtype: int64
```



From the above figure, it is evident that **Golden Retriever** is the most popular dog breed amongst WeRateDogs's tweets in terms of the number of image\_predictions having a total of 139 dogs. The second most popular dog breed is Labrador Retriever (95 dogs) followed by Pembroke (88 dogs)

and the 10th most popular is malamute with (29 dogs). Further analysis, shows that there are many dog breeds with 1 dog prediction.

Furthermore, we found out that the majority of the golden retriever has a rating of 12/10 (54 out of 139) while 29 of the golden retriever dogs have a rating of 13/10. From this, we can say that being popular doesn't necessarily mean that it would have the highest rating.

## 2. golden\_retriever dog breed with the highest rating

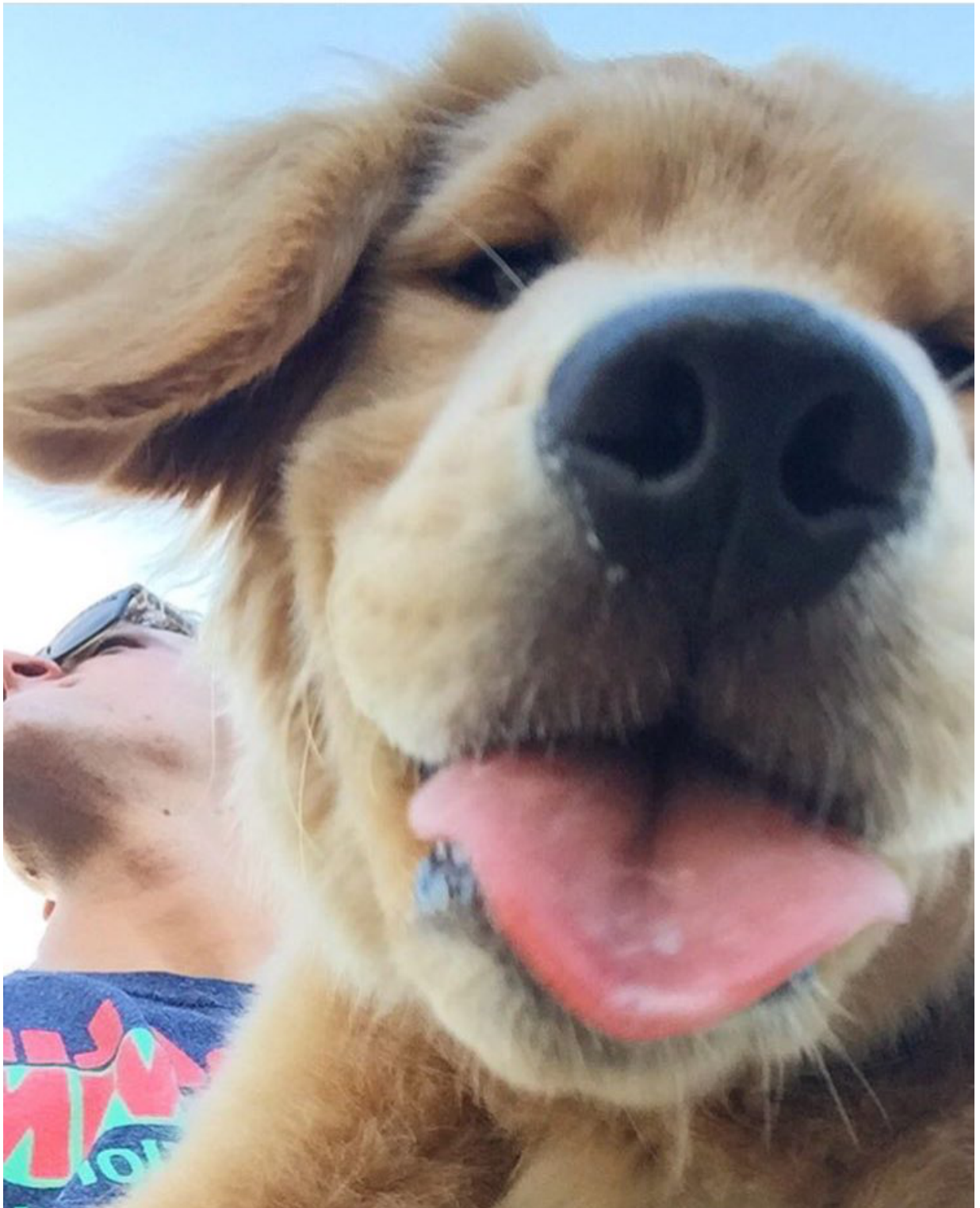
After cleaning, it was discovered that the highest golden\_retriever dog rating is 14/10. From the analysis using a simple calling at the highest rating with

`golden_retriever[golden_retriever['rating_numerator'] == 14]`, this golden\_retriever dogs are not with the highest like and retweet count. This shows that having a high ratings doesn't guarantee high number of count and retweet





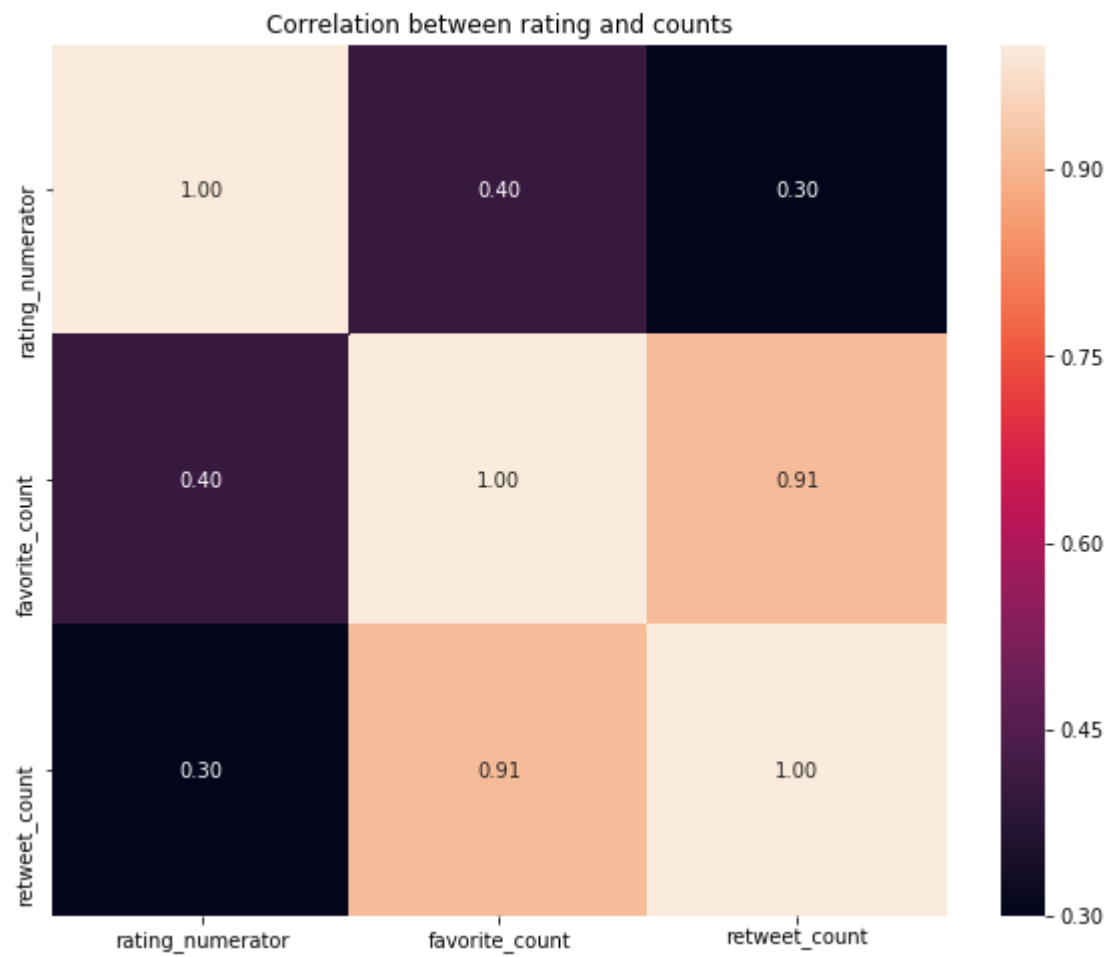
**ollievuesomuch**  
PRANK >

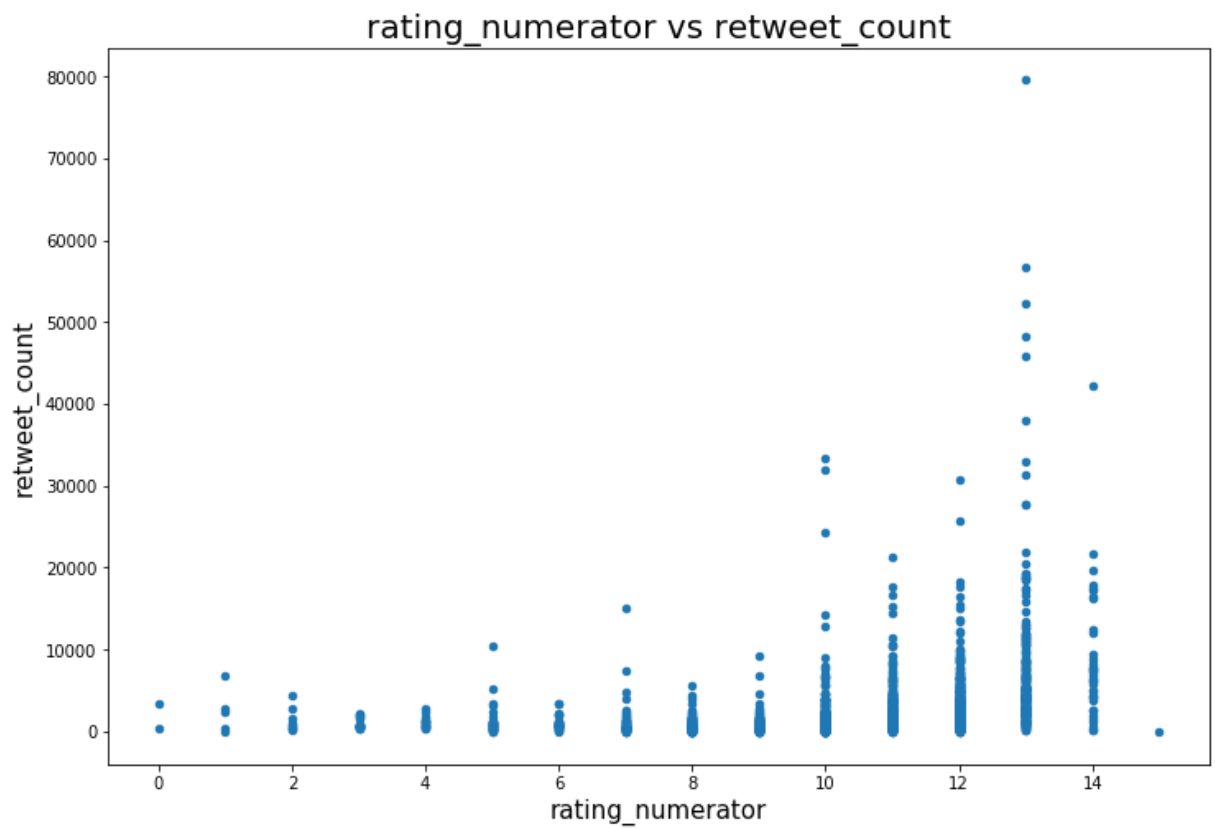
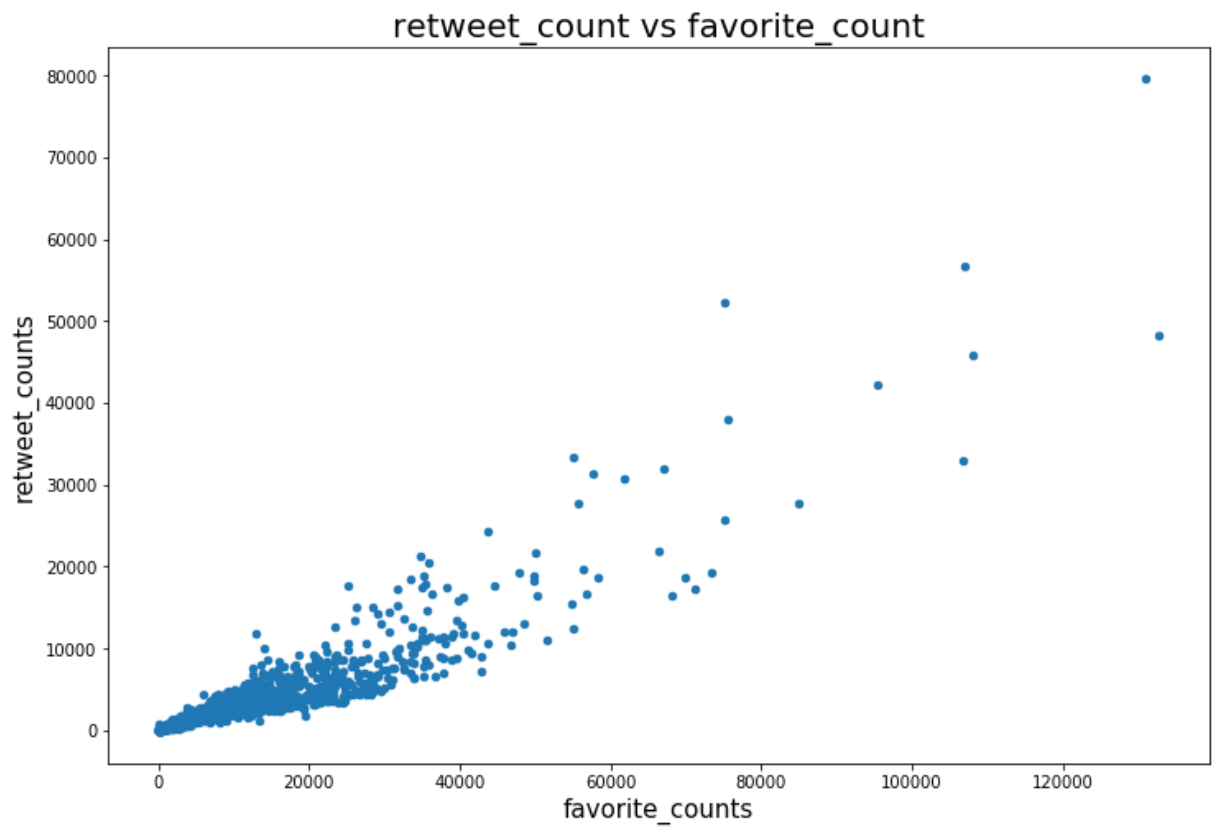


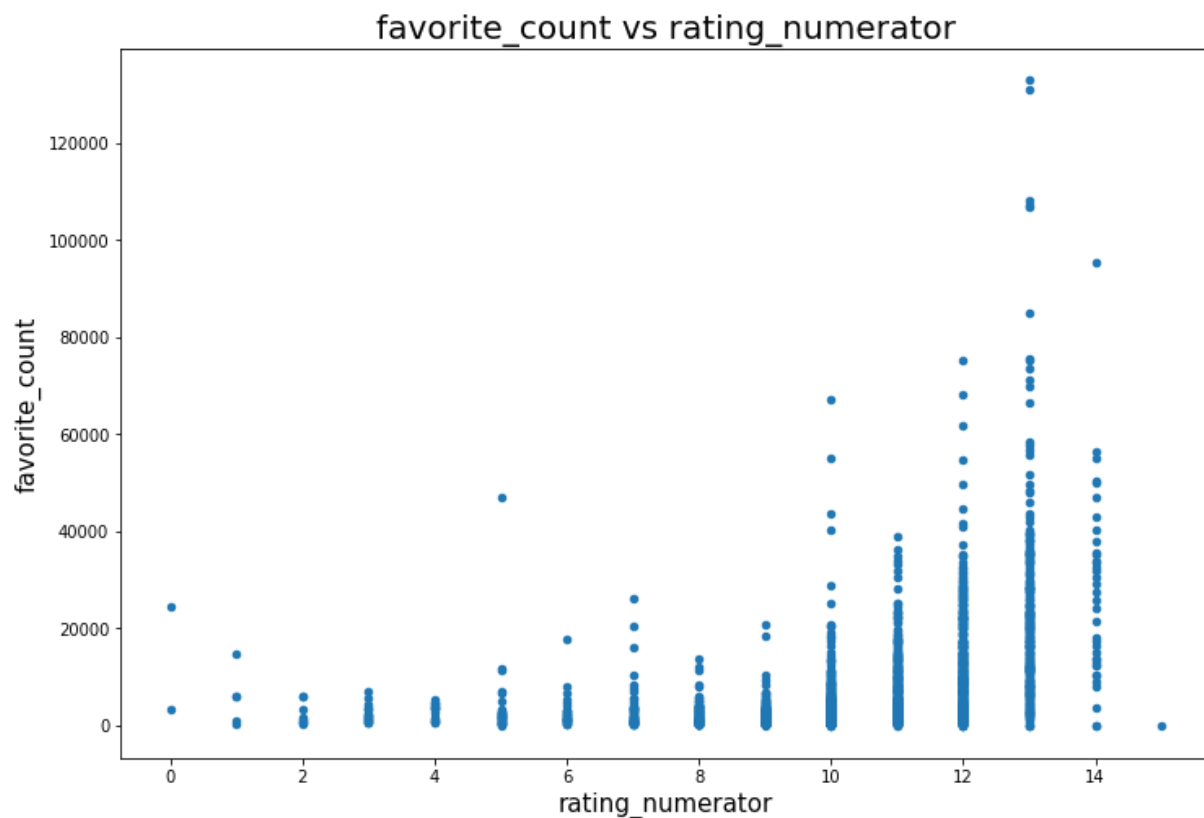
### **Correlation between ratings, retweets, and favorite (like)**

Using the `pandas.corr()` method to get the correlation between the dog ratings, `retweet_count`, and `favorite_count`.

The heatmap below show the correlation between the 3 variables. The scatter plots shows the relationship between two of the variables picked individually.







From the above analysis, we found out that there is a strong positive correlation (0.91) between the favorite count and the retweet count, which means that the value of the favorite count would likely determine how high or low the retweet count is. However, there is a weak correlation between these counts and the dog ratings (0.4 and 0.3 respectively) i.e the outcome of counts is not necessarily determined by how high or low the rating is.