

# Act Report

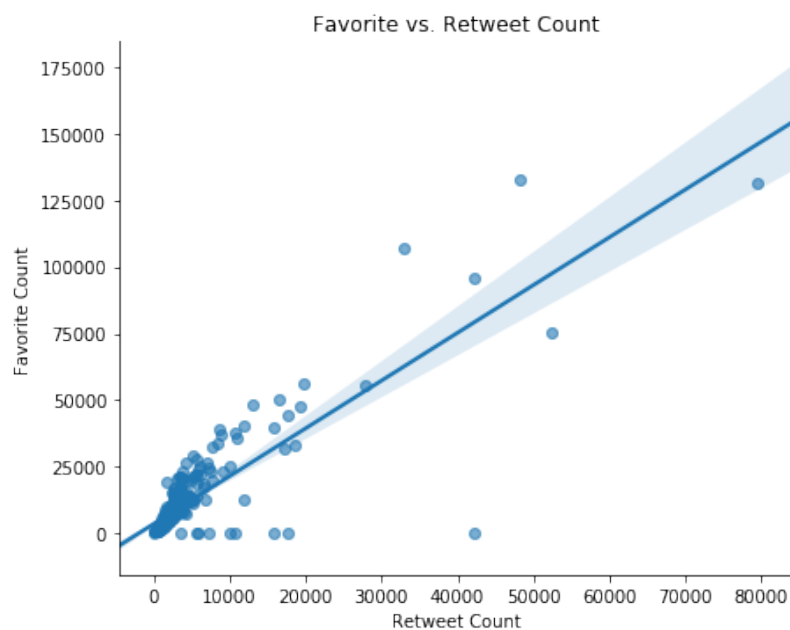
The clean DataFrame contains 1080 observations. The key information includes rating, dog stage, retweet counts and favorite counts.

## Basic Statistics

|       | retweet_count | favorite_count | rating      |
|-------|---------------|----------------|-------------|
| count | 1080.000000   | 1080.000000    | 1080.000000 |
| mean  | 4189.070370   | 11195.507407   | 1.127137    |
| std   | 8174.373578   | 17219.972777   | 0.150771    |
| min   | 83.000000     | 0.000000       | 0.500000    |
| 25%   | 950.000000    | 2683.000000    | 1.000000    |
| 50%   | 1820.000000   | 5333.500000    | 1.100000    |
| 75%   | 3771.000000   | 12456.000000   | 1.200000    |
| max   | 79515.000000  | 132810.000000  | 1.400000    |

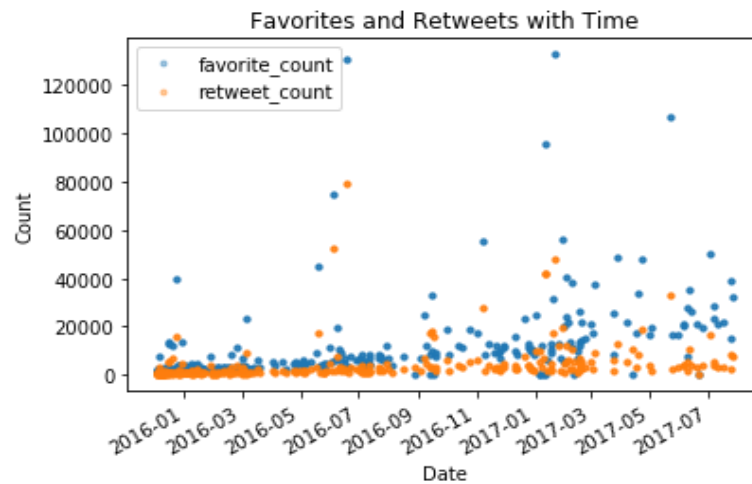
## Visualizations

Chart 1: Plot scatterplot of retweet vs favorite count



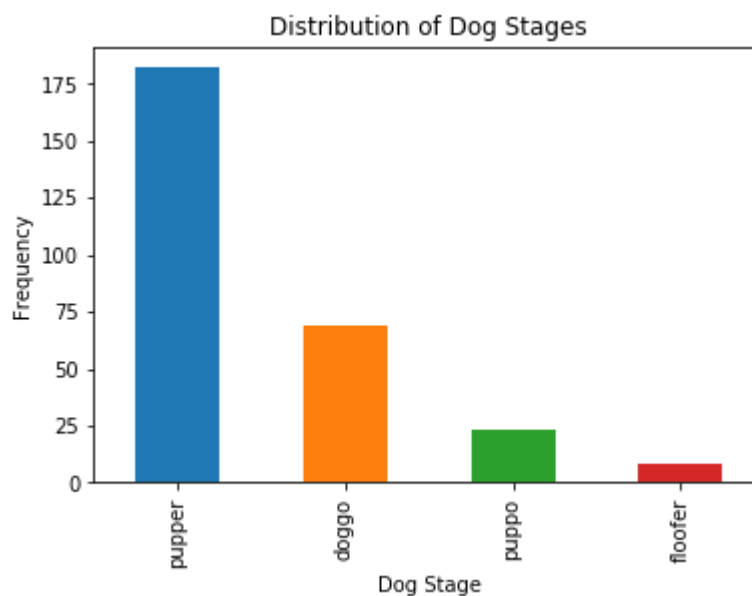
Favorite and retweet counts are highly positively correlated. For about every 4 favorites there is 1 retweet. Most of the data falls below 40000 favorites and 10000 retweets.

**Chart 2: Retweets, Favorites and Ratings Correlation**



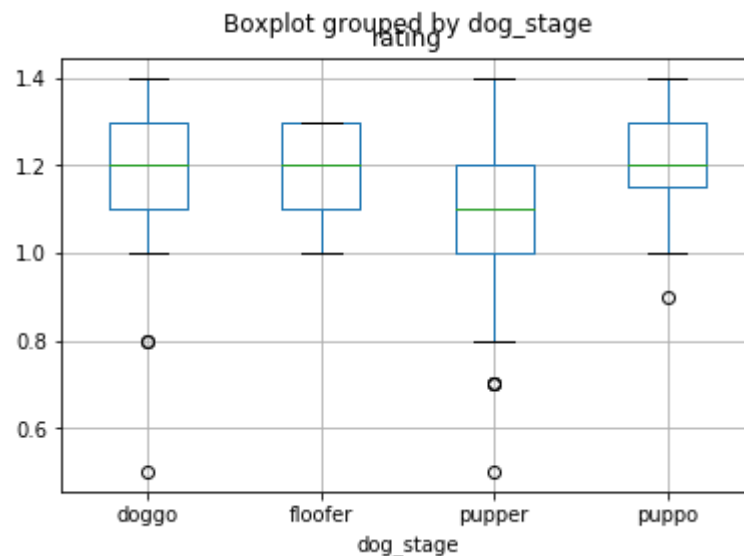
Here you can see the gradual increase of both favorites and retweets over time.

**Chart 3: What is the most common dog stage?**



- As per the dogotianary Pupper is: a small doggo, here Pupper is the most common dog stage in our dataset
- This may be due to dogs at this stage/age preferred by owners.

**Chart 4: Dog Stages Stats**



Puppo, which is the most popular dog stage, has the highest median rating, while pupper as the lowest median rating. In addition, doggo and puppo are the top two stages of dogs that get higher ratings, which also reflected from the previous table, doggo and puppo stage dogs have the highest median favorite count and median retweet count.

According to the boxplot above, the average rating percent ranking for each dog stage is as follows:

1. floofer
2. puppo
3. doggo
4. pupper

## Insights

- The mean for rating is 1.127; the 3 most common ratings are 1.2, 1.0, 1.1, and rating frequency becomes smaller as the rating becomes extreme.
- Posts with extreme ratings get more favorites and retweets. Posts with rating 1.4 gets the highest favorite counts and retweet counts.
- Favorites and retweets counts are highly positively correlated. For about every 4 favorites there is 1 retweet. Most of the data falls below 40000 favorites and 10000 retweets
- favorites and retweets are the gradually increase over time
- Among the 4 dog stages, pupper has the biggest frequency, but pupper also gets the lowest favorite counts and retweet counts and rating.