



# We Rate Dogs: Act Report

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*Udacity: Data Analyst Nanodegree Program*  
*Project 03: Wrangle and Analyze Data*

March 2022

## 1 Introduction

In this stage of the project, we used our previously gathered/wrangled data to interpret, analyze, come up with insights, and create visualizations.

## 2 Insights

- Both favorite count and retweet count have a positive correlation with rating. We were able to establish this using OLS linear regression. The associated p-values for both parameters were 0. It is likely that there is a pairwise relationship/multicollinearity between the two. We were able to visualize the pairwise relationship using the seaborn module.

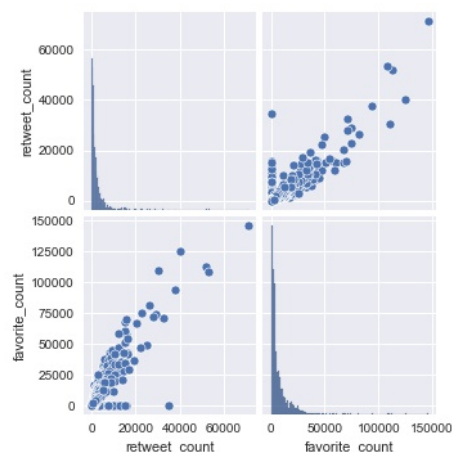


Figure 1: Retweet Count v. Favorite Count

- Of the dog category/type, doggo and puppo records sufficient p-values to indicate that they have an impact rating; floofers and puppies do not. We were able to establish this using linear regression.
- The top 5 rated dogs (as detected) were pomeranian, Samoyed, golden retriever, kuvasz, great pyrenees, in that order. This rank order was limited to breeds that had a minimum of 10 ratings to avoid being skewed by outliers/one off ratings.

### 3 Visualizations

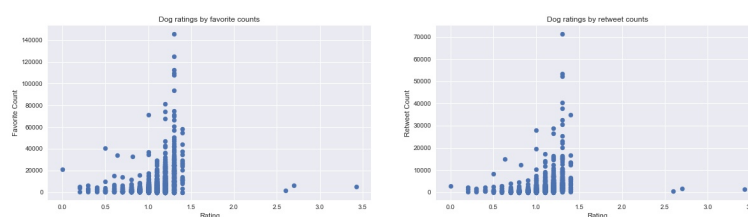


Figure 2: Retweet Count v. Favorite Count

Both charts follow the same pattern illustrating the possibility of multicollinearity.

[https://github.com/timothyquan/wrangle\\_and\\_analyze\\_data/blob/main/reports/scatter-retweets-favorites.jpg](https://github.com/timothyquan/wrangle_and_analyze_data/blob/main/reports/scatter-retweets-favorites.jpg)

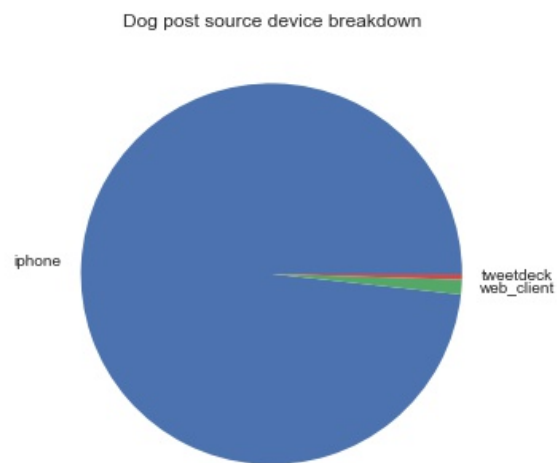


Figure 3: Retweet Count v. Favorite Count

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