# Act Report

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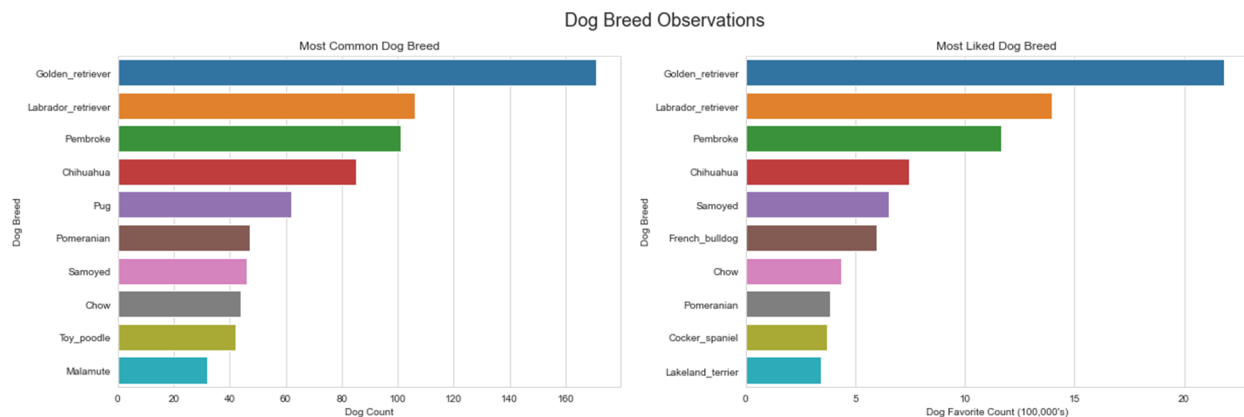
**Introduction**

The project is for the Wrangle and Analyze Data course for the Udacity Nanodegee in Data Analytics. We had to gather data from three different sources that would eventually be used for analysis. We were tasked with conducting at lest 8 data cleaning steps that would address Quality issues, and 2 steps that would address Tidiness issues. After all the Assessing and Cleaning steps, a final dataset was produced from which my analysis was conducted. You can find a copy of my project on my GitHub profile.

**Dog Breed Observations**

I wanted to know what the most common dog breed that there were pictures for in the final dataset. As you can see, the Golden Retriever took the number one spot. I also wanted to know what breed of dogs were the most liked by WeRateDogs Twitter users and the Golden Retriever won again!
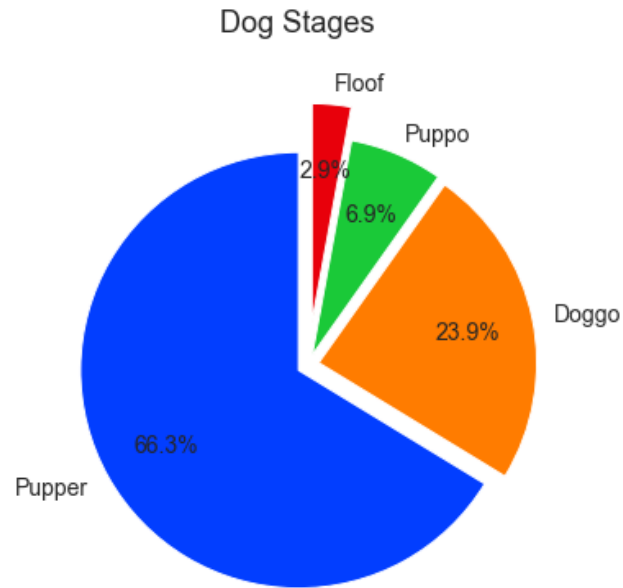
*Fun fact*: The top 4 most posted breeds, Golden Retrievers, Labrador Retrievers, Pembrokes, and Chihuahuas, were also the top 4 most liked breeds, and in the same order!



**Dog Stage Analysis**

The most common dog stage observed are Pupper's with 66.3% of all dogs. Doggo, Puppo and Floof round out the dog stages. While Doggo, Pupper and Puppo refer mostly to the age of a dog, the Floof stage is for dogs that have excessive amounts of hair!
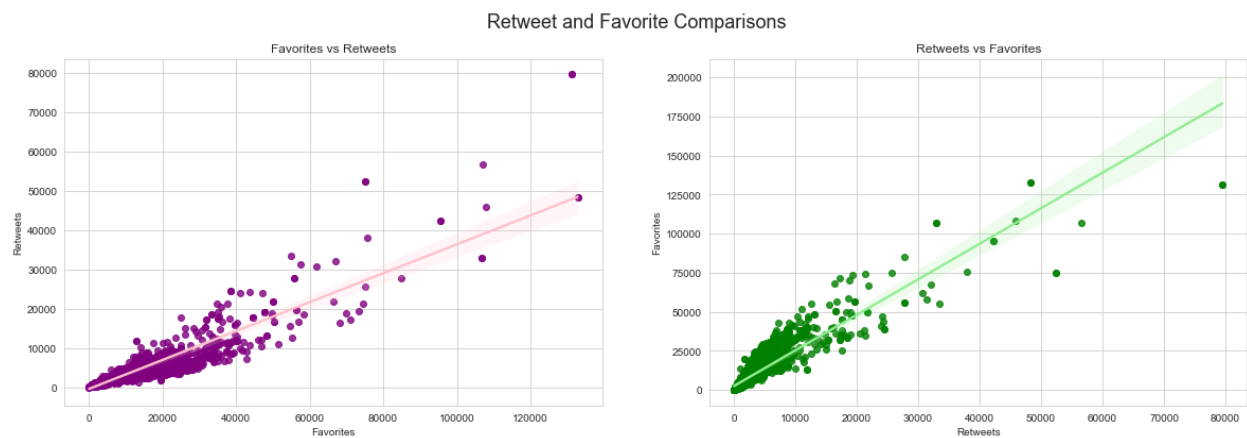
*Data Note:* Most dog stages were null records. Further data wrangling might prove useful in attempting to extract additional stages from the *twitter_archive* text field.

Dog Stages

**Retweet and Favorite Comparisons**

During my analysis of the data, I noticed that the Retweet and Favorite features in the data were highly populated. I wondered if there was any correlation between these two variables, so I created some regression analysis using Seaborn Regplot.

As noted in the below image, there is a very strong correlation between Favorites and Retweets, and a similar correlation for the opposite, Retweets and Favorites.



Retweet and Favorite Comparisons

This pup is our outlier for both Favorites and Retweets!!!

*Image Credit - Twitter: https://pbs.twimg.com/media/C2tugXLXgAArJO4.jpg*