

Report: act_report

- Create a **250-word-minimum written report** called "act_report.pdf" or "act_report.html" that communicates the insights and displays the visualization(s) produced from your wrangled data. This is to be framed as an external document, like a blog post or magazine article, for example.

Analyzing and Visualizing Data

In this section, we analyzed and visualized the weratedogs account

The insights discovered were as follows:

1. pupper is the commonest dog stage
2. iPhone is the most used device by twitter users who engaged weratedogs account
3. Charlie and Lucy are quite popular dog names

How did we arrive at those? Let's go one at a time

INSIGHT 1: Charlie and Lucy are quite popular dog names

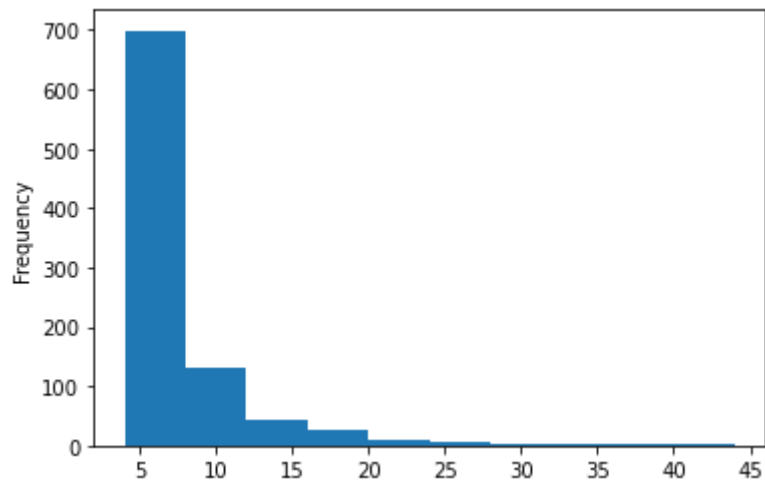
- After melting and merging, we sorted the dog_name column and arranged them in decreasing order of frequency.

Top 5 Dog Names From The WeRateDogs Dataset:

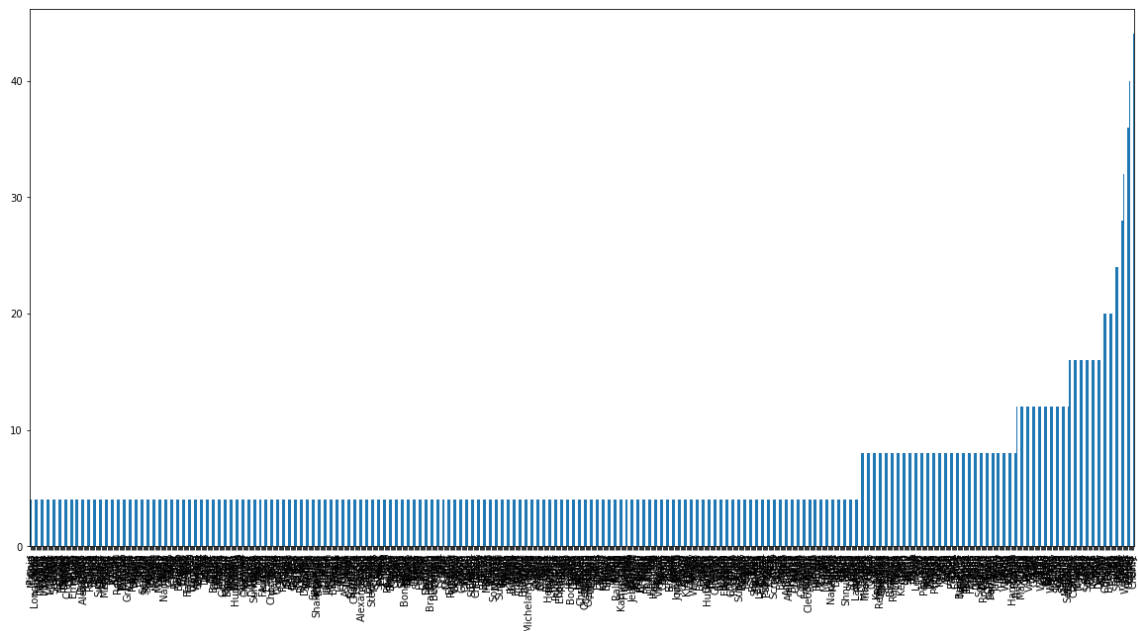
- Charlie	44
- Lucy	44
- Oliver	40
- Cooper	40
- Penny	36

The Plots:

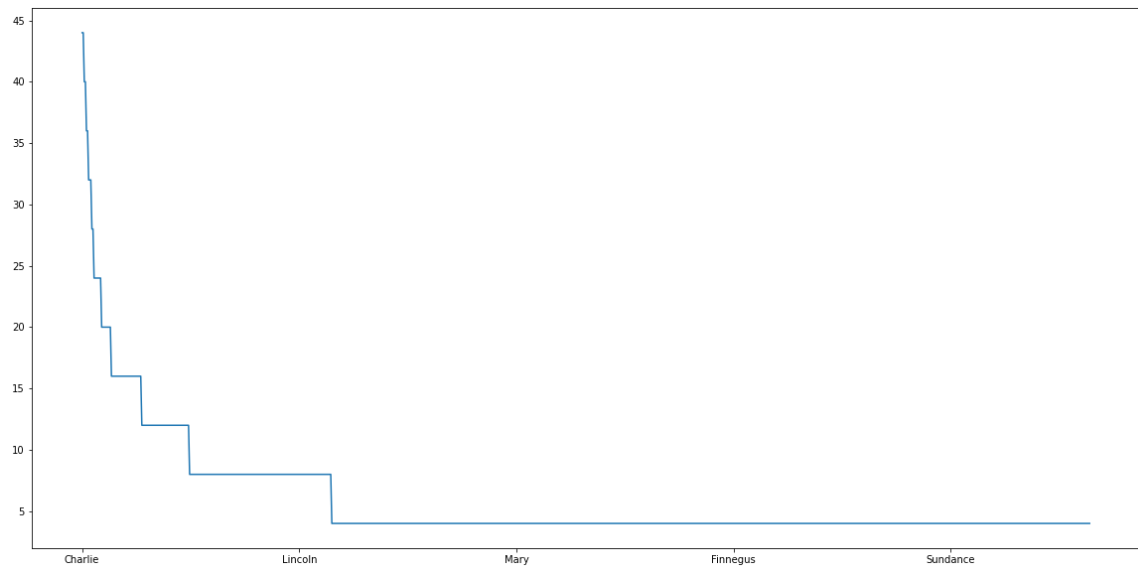
- Histogram : Details of count wasn't so clear



- Bar Plot : Axis showing the dog names wasn't readable neither was the plot wide enough to fit the 939 unique names cleaned for this analysis



- Line Plot : This at least shows the leading name clearly



INSIGHT 2: iPhone is the most used device by twitter users who engaged weratedogs account

- A simple bar plot of the 'source' column after melting and merging, and sorted in increasing order of frequency, gave us all the info needed to know the most used tweet_source but first, we had previewed it from a frequency counter function called `value_count()` that counts number of occurrences of a unique entry.

Brief description of the source column:

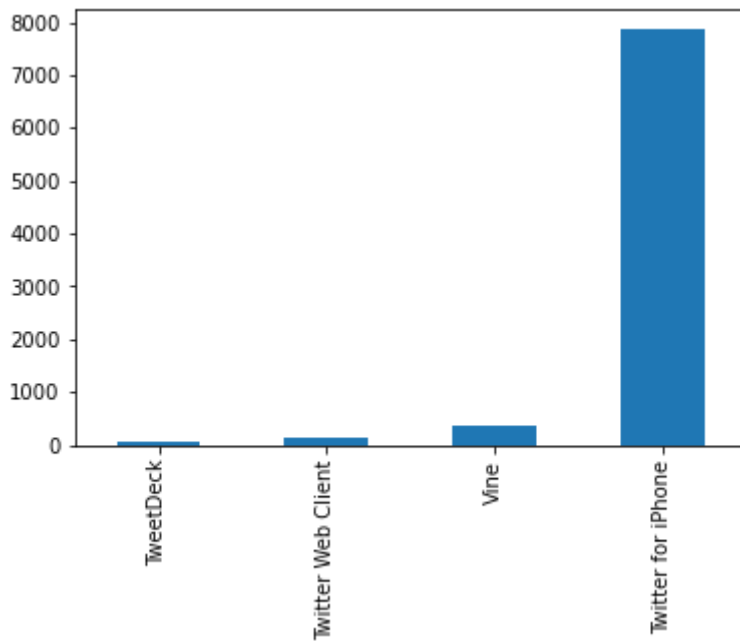
- Number of rows: 8388
- Unique tweet sources: 4
- Most common source: Twitter for iPhone

A count of users per tweet source (after melting and merging):

- Twitter for iPhone 7856
- Vine 364
- Twitter Web Client 124
- TweetDeck 44

The Plot:

- A Plot showing The Most Used Means Of Tweeting At The WeRateDogs Handle



INSIGHT 3: Pupper is the commonest dog stage:

- A similar method to counting the tweet_source was employed

Brief description of the dog_stage column:

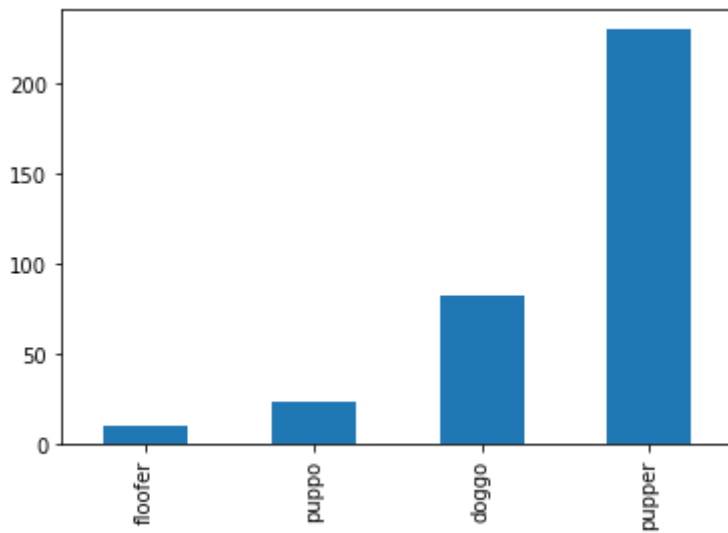
- Number of rows: 347
- Unique dog stages: 4
- Most common dog stage: pupper

A count of dogs per dog stage (after melting and merging):

- pupper 230
- doggo 83
- puppo 24
- floofer 10

The Plot:

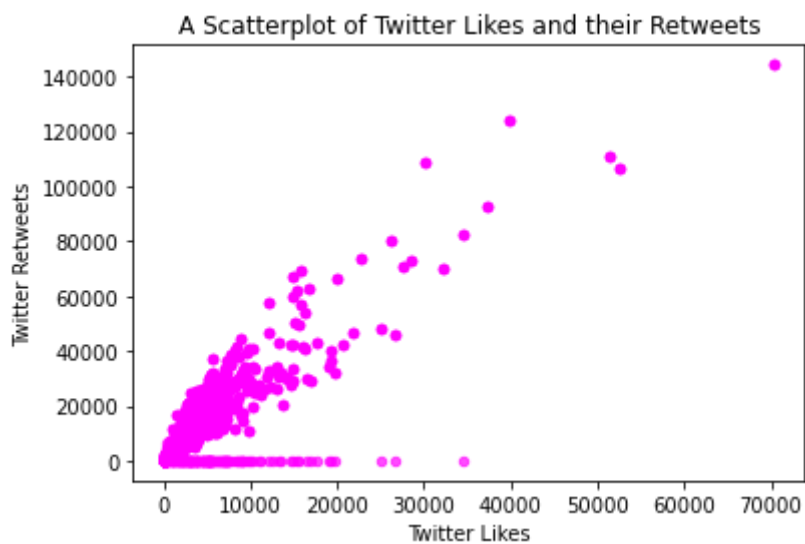
- Plotting To See The More Common Dog Stages



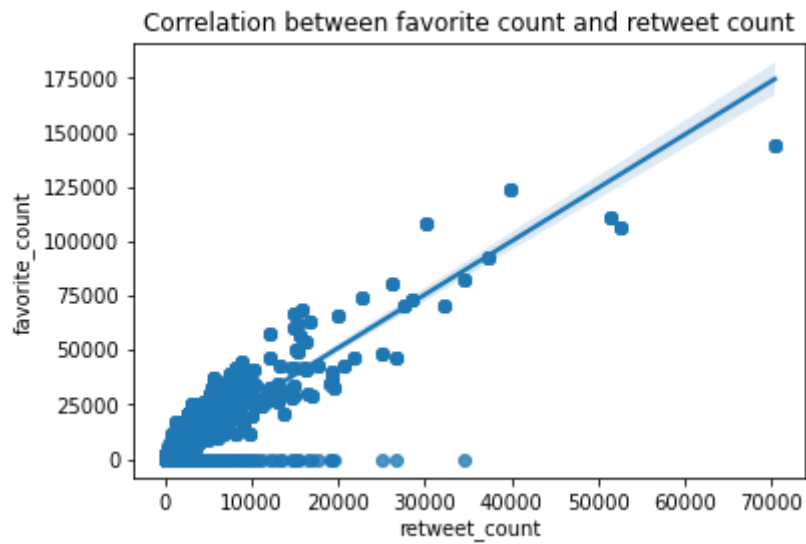
Further Relevant Insights

Other Visualizations include:

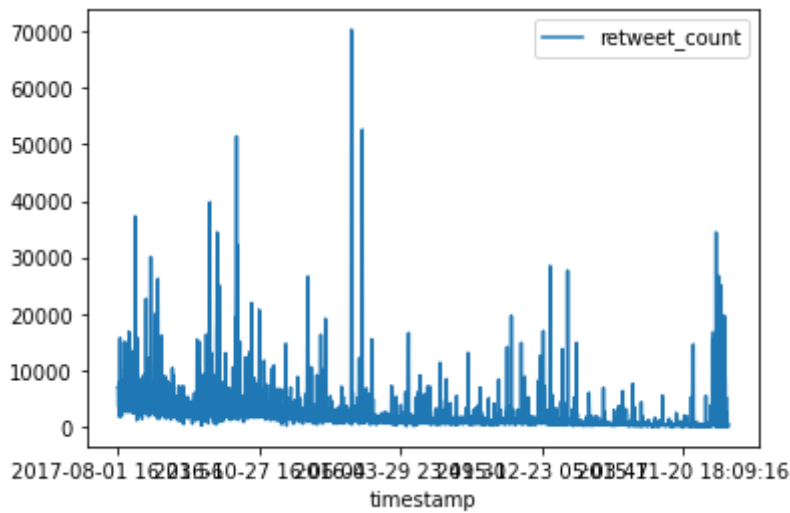
- A Scatterplot of Twitter Likes and their Retweets



- Plotting The Correlation Between Favorite Count & Retweet Count Of WeRateDogs



- Plotting The Retweet Count Over Time



- Plotting The Favorite Count Over Time

