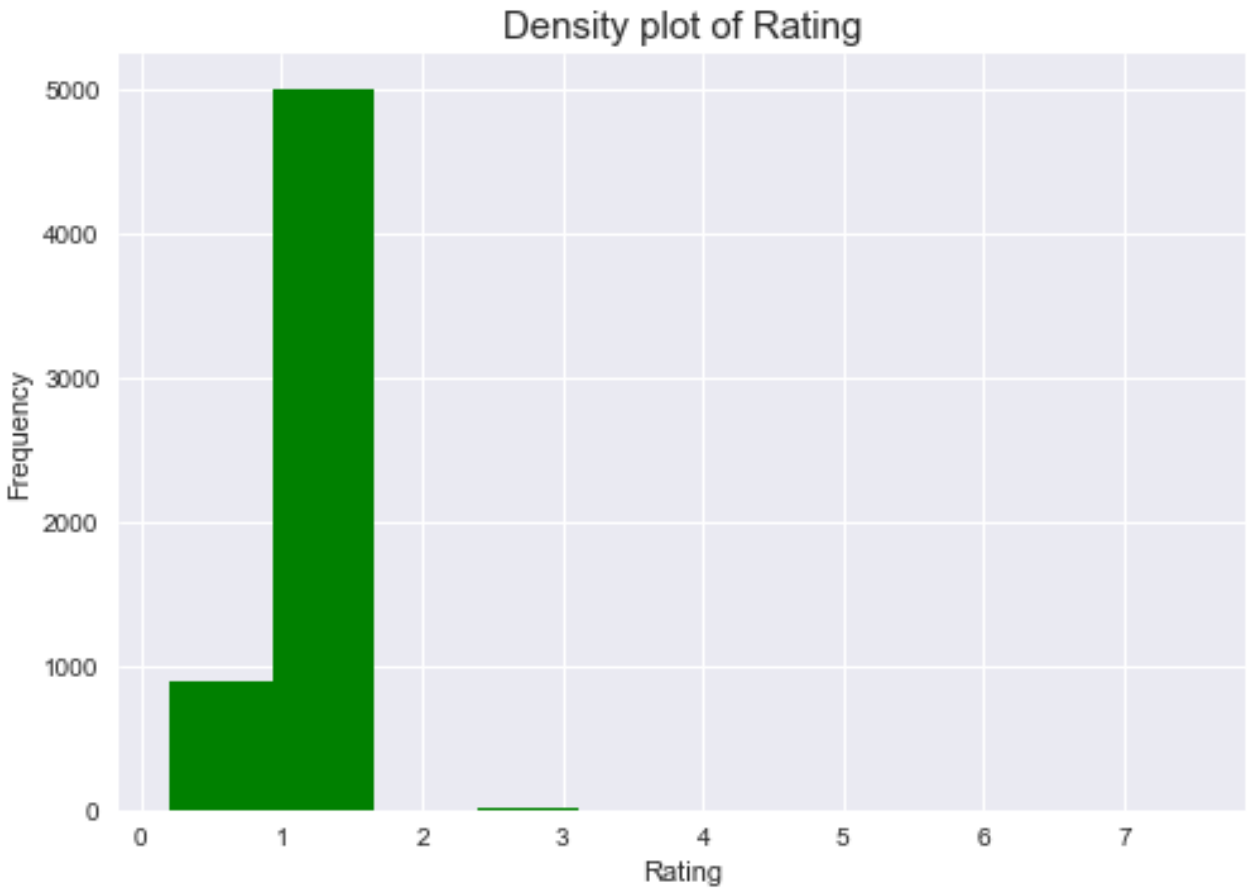
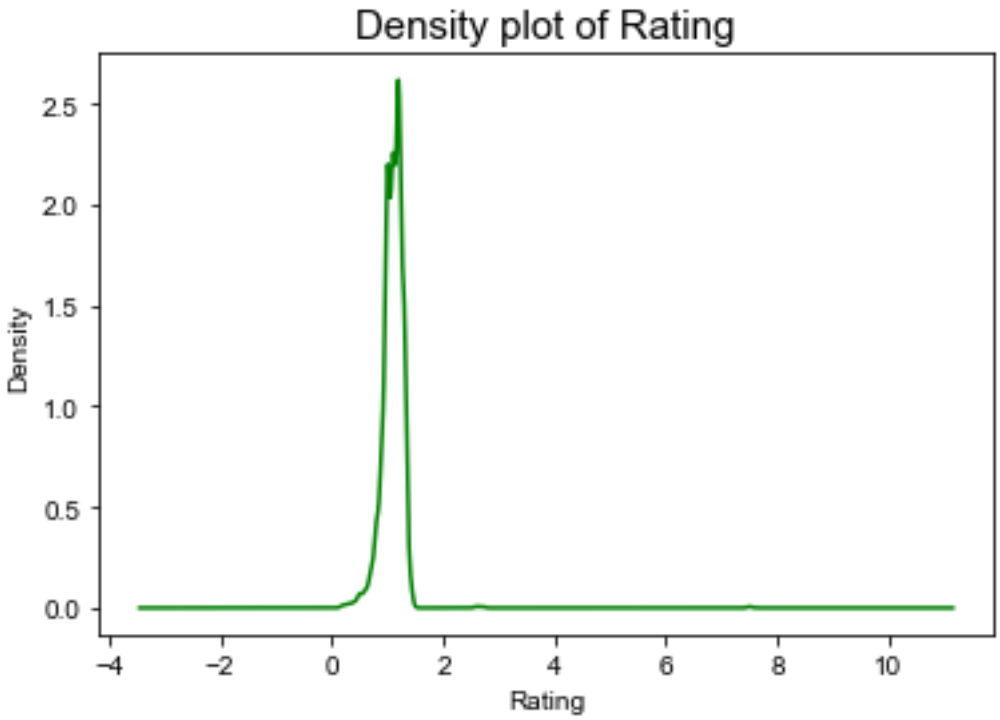
Exploratory Data Analysis Documentation

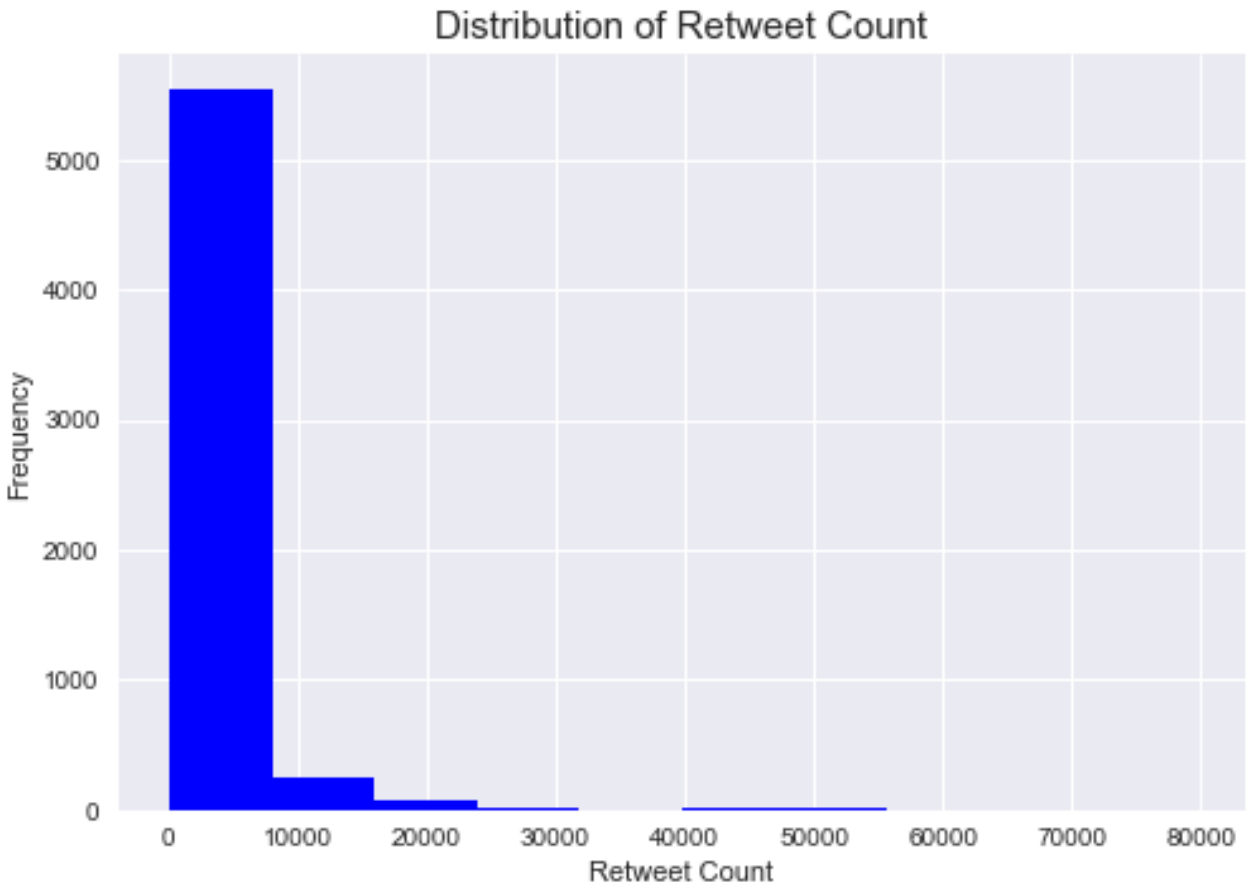
Question 1: What is the distribution of some Quantitative Features



From the histogram above, we see that ratings between 1.20 to almost 1.25 occur the most, while ratings greater than 2 but not up to 3.5 seems to be an outlier with almost 0 occurence

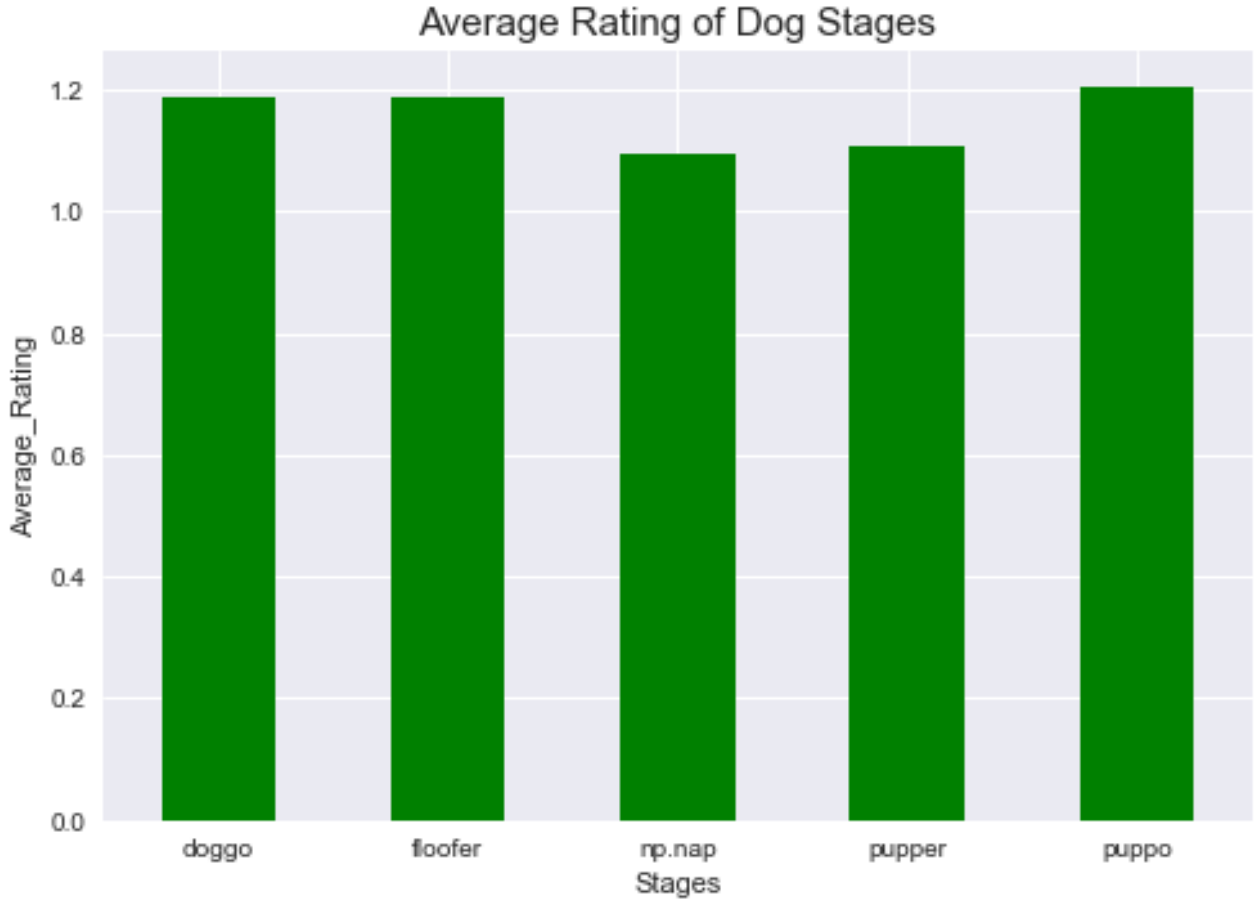


This is a Density plot in order to buttress the histogram of rating feature above in a curve pattern.



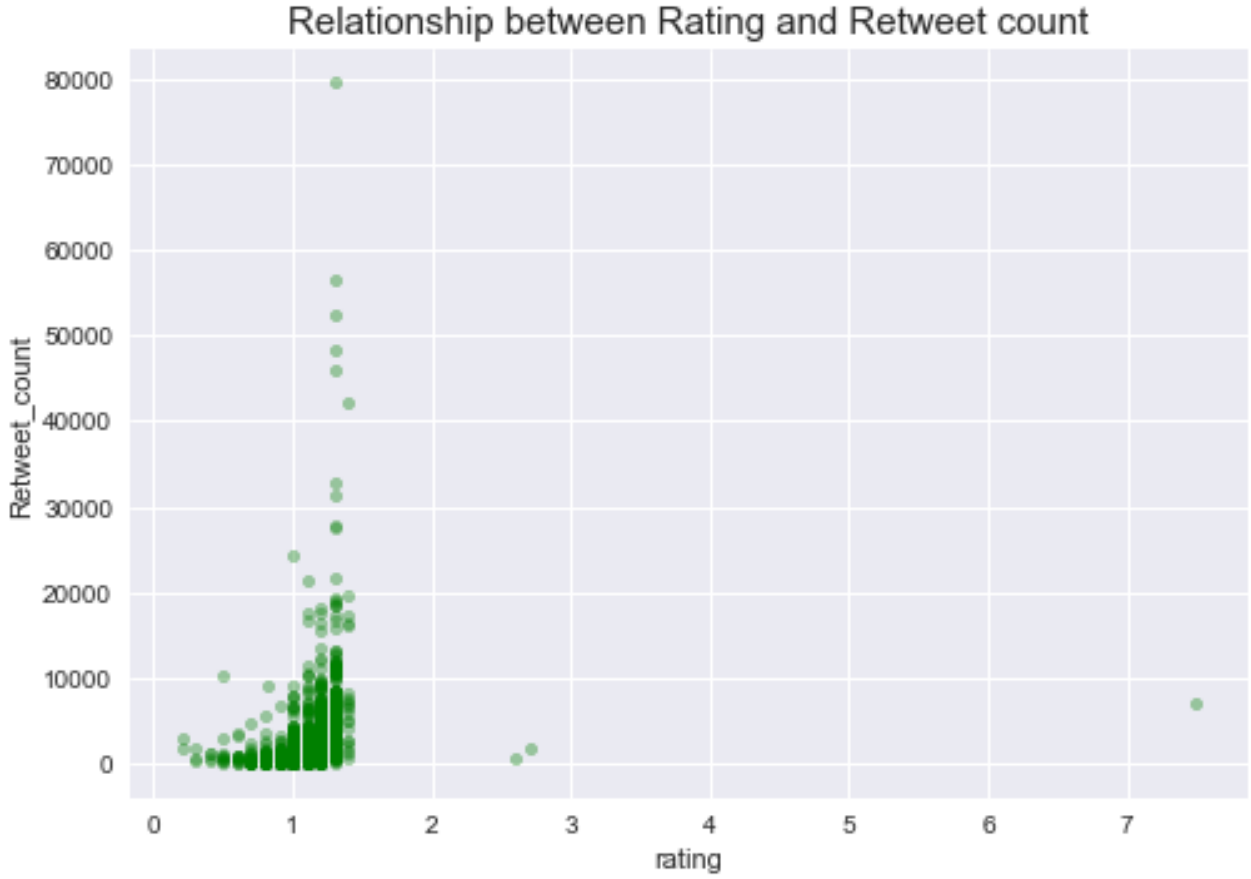
We see from the histogram above that it is Right Skewed which means that the mean of Retweet count is greater than its median.

Question 2: Which Dog stage has the highest average rating



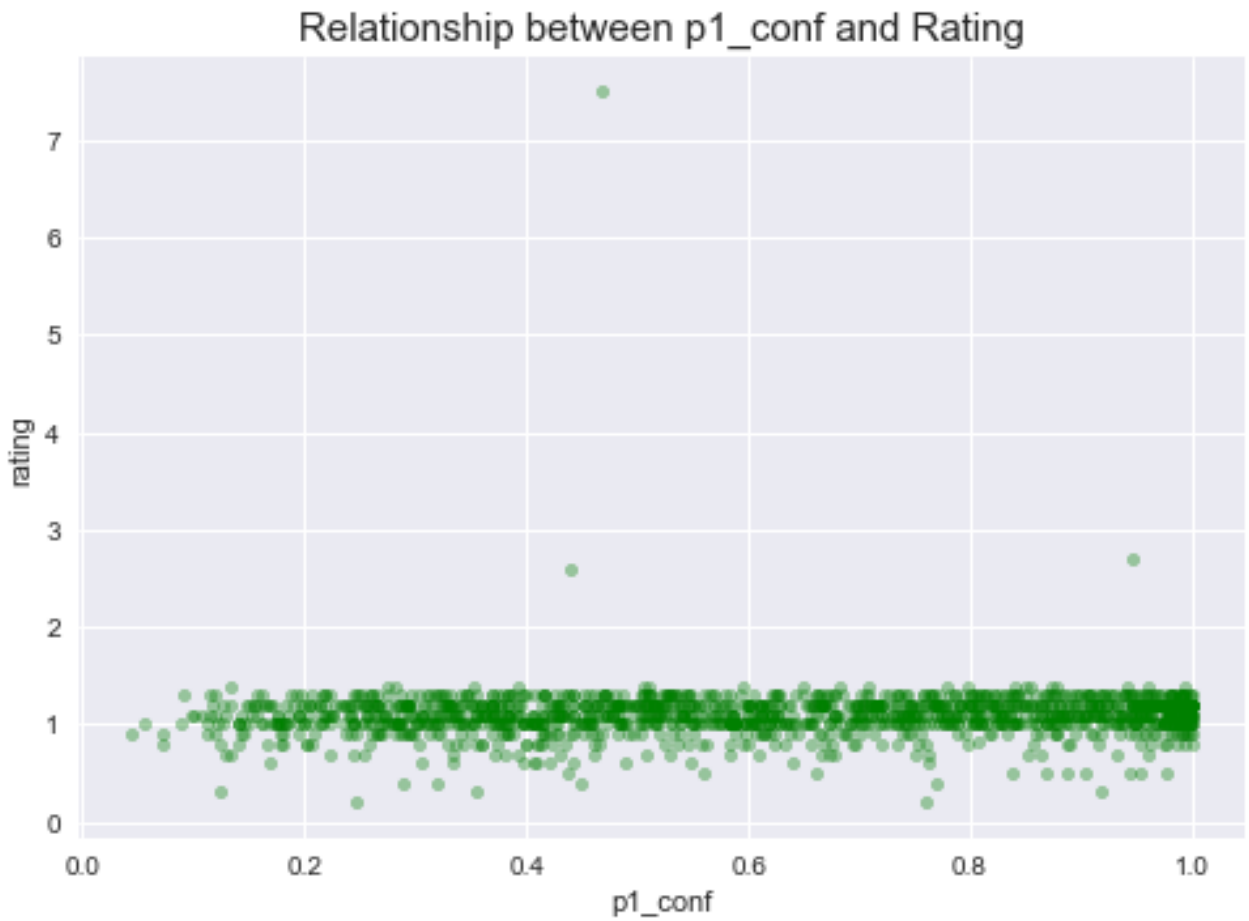
The above bar graph shows that Puppo with an average rating of 1.2 has the highest average rating.

Question 3(What is the relationship between Rating and Retweet Count?)



From the scatter plot above, there in no particular negative nor positive relationship between both features. Hence, I notice that there are some extreme values which are obviously outliers.

Question 4: (What is the relationship between p1_conf and rating)



Conclusion:

I have successfully cleaned the datasets, i have combined all the data sets into one based on common column "tweet_id".

From my analysis, I can see that Pupp0 seems to have higher average rating.

The mean of Retweet count is greater than the median.

0 to 2 has the highest rating occurrence.

Limitations:

I discovered that some columns had wrong data types so I had to deal with that, I noticed that certain features have to be dropped and some has to be renamed so I also dealt with that.

I also saw that it is better to work with situations where our p1 are all true so I dropped all the false cases or else we will be having wrong analysis.

I also noticed some tidy and quality issues which I had to deal with.

References:

Udacity lessons, Python documentation, Stack overflow