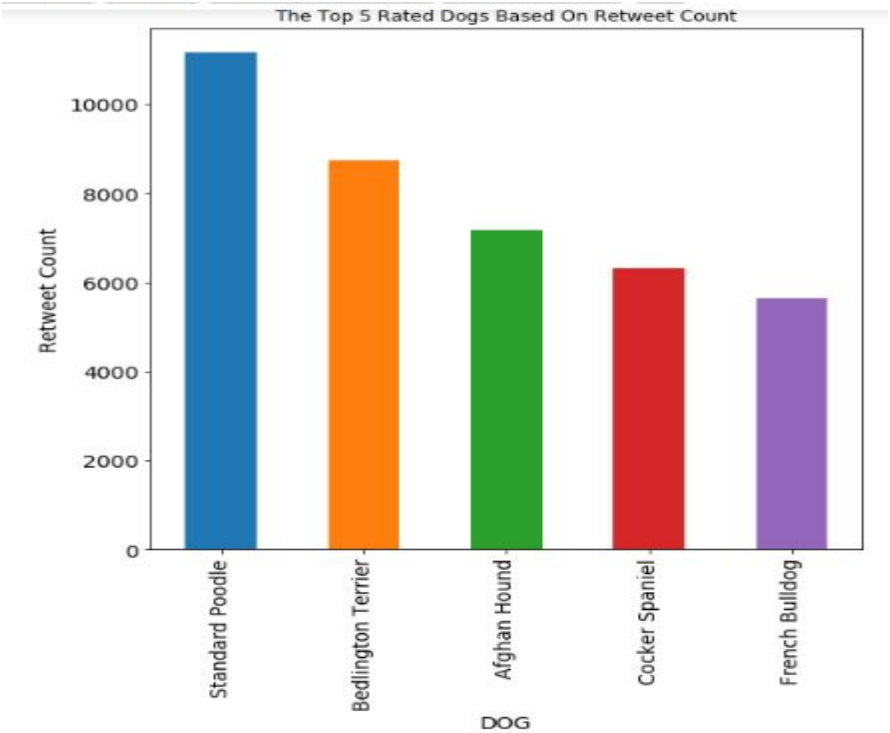
Visualization

After gathering, assessing and cleaning the data which was done earlier programmatically & visually. Now it is time to move on for another step which is to visualize some of the cleaned data. As mentioned earlier the amount of cleanliness will affect the visualization results and this is why the data could be showing different results from one and other.

This report contains 5 visualizations but there are many other visualizations based on other insights that can be done. These 5 visualizations are as follows: the statistics of the top 5 rated dogs from the point of view of retweet count is introduced, the top 5 rated dogs from the perspective of favorite count, the original count of the top 4 rated according to their original count over the 3 years (2015,2016,2017), the most frequent dog state whether it is puppo, floofer, doggo and pupper and finally the numerator ratings across the years and months, respectively.

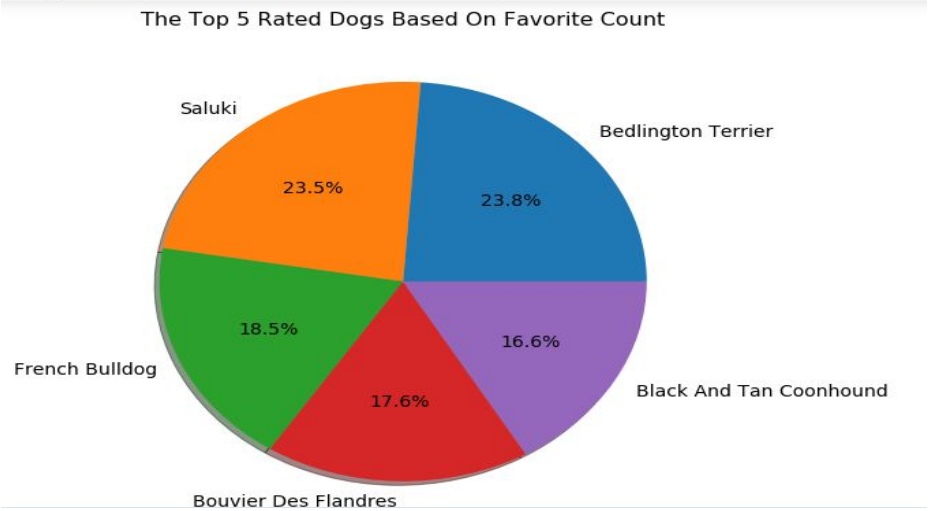
1. This bar chart shows the top 5 rated dogs by the retweet count. Where it can be seen that the Standard Poodle is the highest in=['Standard Poodle','Bedlington Terrier','Afghan Hound','Cocker Spaniel','French Bulldog'].



standard_poodle	11153.666667
Bedlington_terrier	8740.200000
Afghan_hound	7162.750000
cocker_spaniel	6301.687500
French_bulldog	5647.413793

This table has the mean of retweet count for each dog

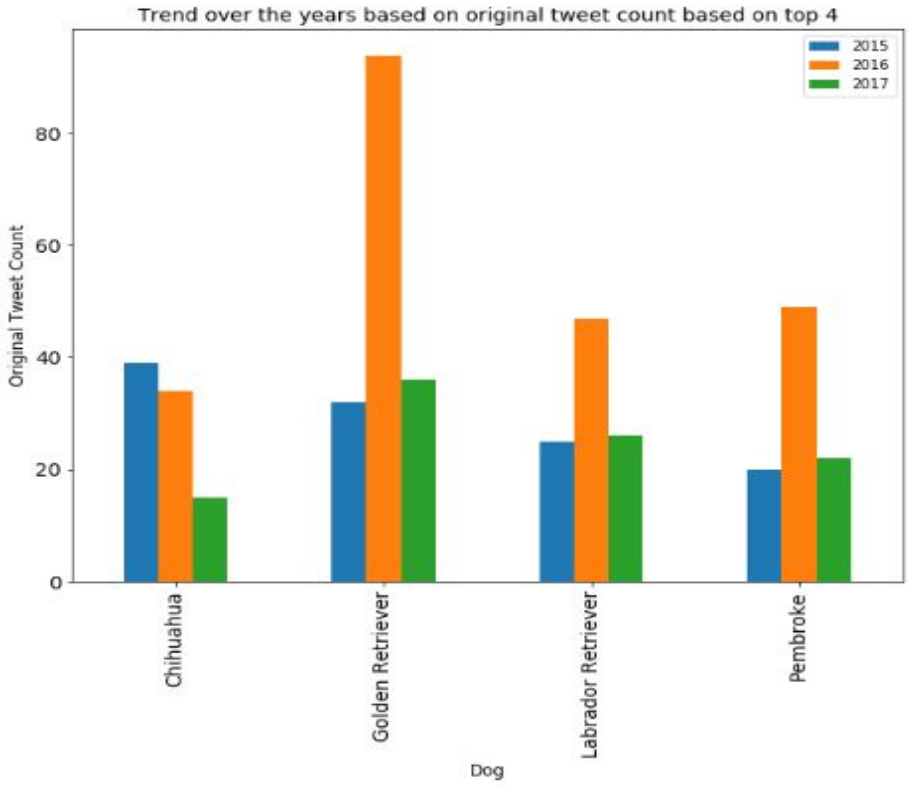
2. The following pie chart shows the top 5 rated based on favorite count.



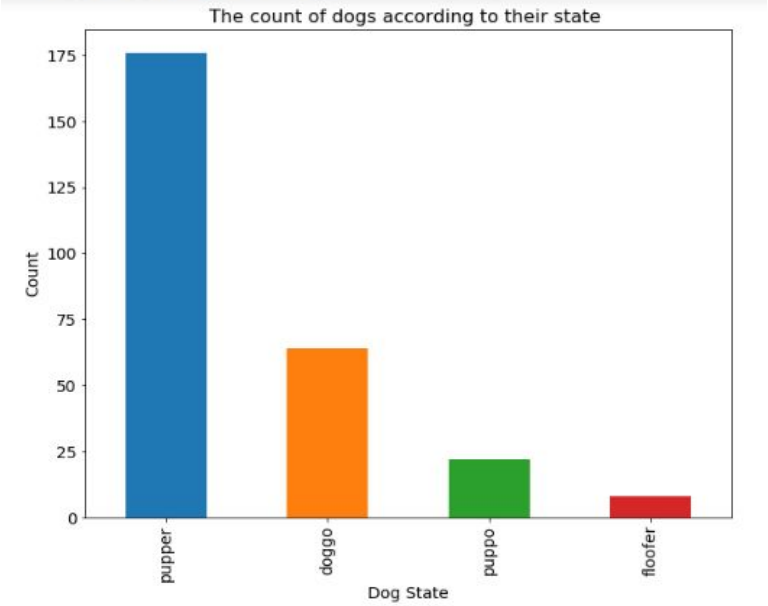

```
Bedlington_terrier          24438.40000
Saluki                      24060.00000
French_bulldog              18936.62069
Bouvier_des_Flandres        18032.00000
black-and-tan_coonhound     17012.00000
Name: favorite_count, dtype: float64
```

This table has the mean favorite count for each dog

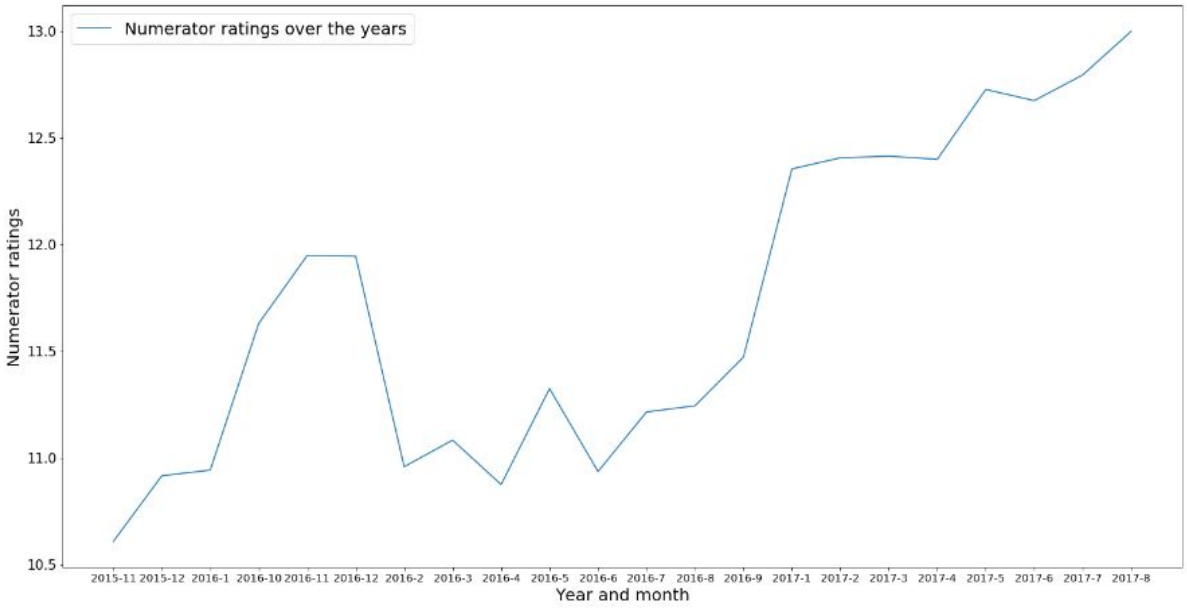
3. The following bar chart is showing the fluctuation along the years (2015,2016,2017) for the top 4 rated dogs based on original tweet counts. The golden retriever has the highest score which was achieved in 2016 with 94 original trending tweet counts.



4. The following bar chart shows the most frequent state of dog whether it is doggo, puppo,floofer or pupper. And it shows that the pupper is the most common state that people may love its picture on social media. (UPDATED)



5. The following plot shows the numerator ratings average statistics according to year and month from 2015 to 2017. It shows that people's ratings have reached their peaks in 2017.



The following chart shows the histogram of the numerator ratings across the dataset. It can be seen that the most frequent rating means lies between 10 and 13 which is logically declared since the average of the people who rate the dogs, give rating more than 10 as they love dogs.