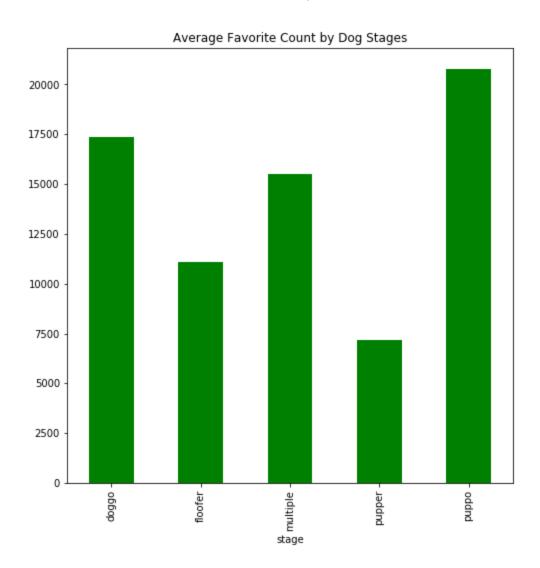
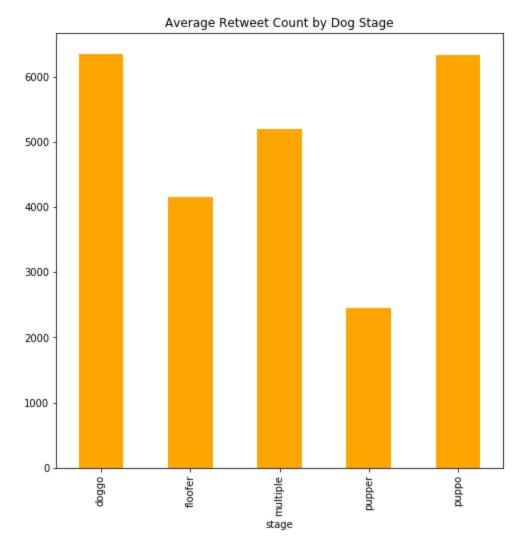
After performing wrangling work, it was time to analyze and gain some insights into the combined and cleaned dataset. As this is a dataset of tweets relating to dogs, intuitively we would want to know what sort of tweets would result in the largest amount of interest and responses from readers. To achieve this, I divided tweets into separate groups using groupby() method based upon the dogs' stages of development and then compared each group's mean number of favorites and retweets respectively. Let's take a closer look.

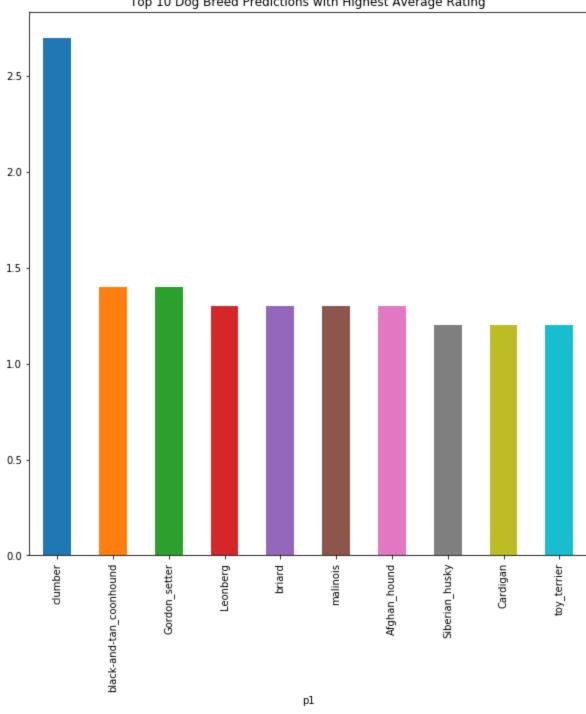


As seen from the above chart, it is evident that tweets about dogs that are in puppo stage had, on average, the highest number of favorite by Twitter users at more than 20,000 favorites per tweet. Tweets about doggo dogs came second at slightly more than 17,000 favorites, followed in descending order by tweets about multiple dogs in different stages, floofer and the last one, pupper. It seems Twitter users are favoring puppo dogs over other stages like pupper. But what about retweets count, would pupper dogs manage to reverse the order this time round? Let's take another look.



Unfortunately for pupper dogs, it turns out the result for average retweet counts and favorite counts are not very much different to one another. Doggo and puppo dogs now take the lead at close to 6,300 retweets on average per tweets, followed by tweets about many dogs in different stages, floofer and of course, pupper. But don't get too upset pupper, as in a few more months you will become a puppo and people will surely begin to pay attention to you!

Finally, out of curiosity, I wanted to know what breeds of dogs received the highest mean rating. To calculate the rating of each dog, I divided the rating numerator by rating denominator value. For the sake of simplicity and accurary, only algorithm's 1st prediction (p1) with confident level (p1\_conf) of at least 75 % to be a breed of dog (p1\_dog) would be taken into account. Since there were so many breeds of dogs in the dataset, I only paid close attention to the top 10 breeds with highest average rating.



Top 10 Dog Breed Predictions with Highest Average Rating

The above chart speaks for itself. Clumber dogs lead by a wide margin at the mean rating of 2.7. The next nine breeds are actually quite similar as their received mean ratings only varied slightly from 1.2 to 1.4.