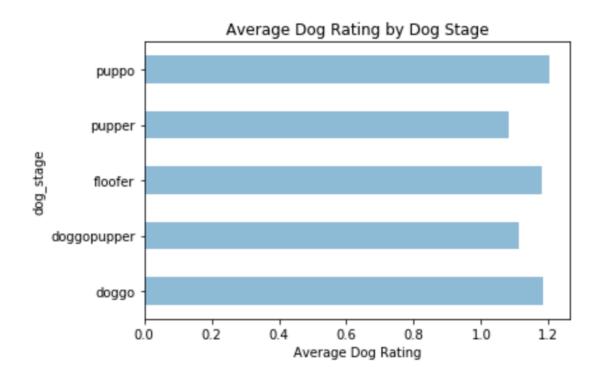
# Data Analysis and Visualization

Look for the Type of dog stage that has highest rating.



#### Insight 1

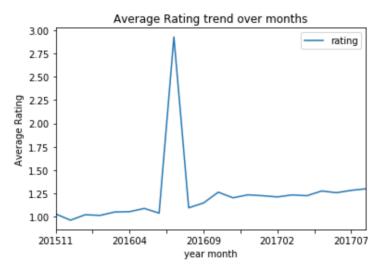
From the Average Dog Rating by Dog Stage bar chart, we can see Puppo has the highest average rating among all stages. Puppy is given a good score, while Pupper has the least average rating.

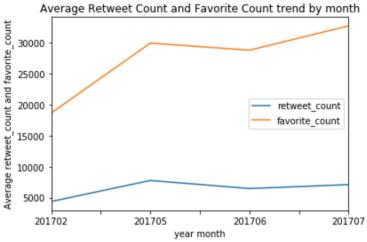
Find the most factor contributes to high retweet\_count and favorite count

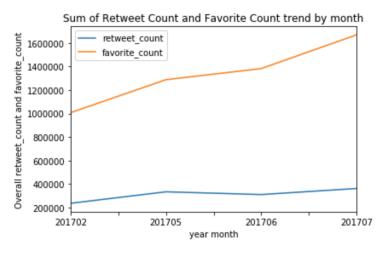
## **Insight 2**

Rating group between 10/10 to 15 /10 have highest average retweet\_count and favorite\_count, this is not surprising since most of tweets' rating are within this range. However, there are some outliers that can be spotted on, such as 0/10,5/10,6/10 tweets actually have really high retweet\_count and favorite\_count, especially 6/10 rating's tweet. This shows low rating intrigue people's tweeting passion more than extreme high rating, for example 666/10 and 182/10.

Additionally, average Retweet Count and Favorite Count are increasing from 201702 to 201708, but the overall summary of Retweet Count and Favorite Count are increasing 201706, then decreasing.







## Insight 3

There is interesting pattern in the above graphs. In Average Rating trend over months line chart, there is two peaks, one is around 201607 and another is around 201704. 201607 has average rating 2.77 and 201704 has 3.0, there must be some outlier rating which makes average rating so high.

The prediction ratte for 3 dog breed are from 71.5% to 73.3%. Among 3 prediction of dog breed column, dogbreed\_indicator2 has the highest dog breed prediction rate.

#### Insight 4

briard

basenji rottweiler

leonberg

standard\_schnauzer

Name: rating, dtype: float64

sussex\_spaniel

These three lists below show the preference of weRateDog tweeter. we can see clumber is undoubtly his favorate dog breed, then pomeranian, saluki shows up in both predictions, so are tibetan\_mastiff and standard\_schnauzer.

prediction1	
clumber	2.700000
pomeranian	1.286842
saluki	1.250000
briard	1.233333
tibetan_mastiff	1.225000
border_terrier	1.214286
kuvasz	1.200000
silky_terrier	1.200000
standard_schnauzer	1.200000
eskimo_dog	1.177778
Name: rating, dtype:	float64
prediction2	
tibetan_mastiff	1.335238
afghan_hound	1.225000
doberman	1.220000
norwich_terrier	1.200000
appenzeller	1.200000
bernese_mountain_dog	1.200000
dalmatian	1.200000
entlebucher	1.200000
saluki	1.200000
scotch_terrier	1.200000
Name: rating, dtype:	float64
prediction3	
chow	1.356667
bouvier_des_flandres	1.300000
kerry_blue_terrier	1.300000
black-and-tan_coonhound	1.266667

1.200000 1.200000

1.200000

1.200000 1.195000

1.190000