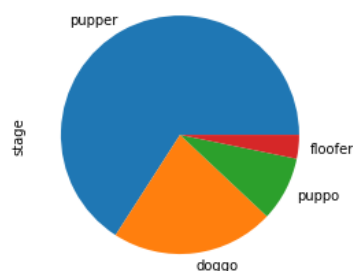


## Act Report

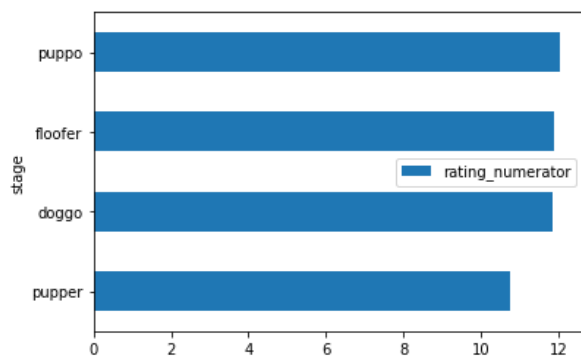
With cleaned data I got some insight I would like to share with you all. But first I'm going to shortly explain that this dataframe is built with all tweets from twitter user @rate\_dogs, also known as "WeRateDogs" and contain information about actions from the twitter community, from images uploaded and the prediction work from a neural network that classify breeds of dogs. The neural network gave results from 3 times prediction, but for analysis I'm only using the best prediction for each image uploaded.

First of all, I wonder how was the distribution of dog stage into this public

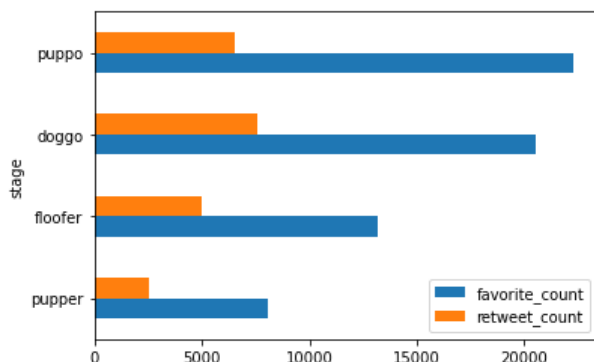
(There was many Null values where we hadn't the stage defined, but percentages give as a guide)



So now, you would like to know how's the popularity of each one into this community. Fortunately we have a rating given and also actions related into tweeter for each observation. Results give say us that the most popular are "puppo" and less popular "pupper", a bit curious that the most published (or at least with the information we had) stage was the less popular.

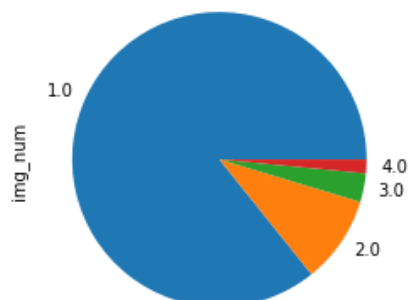


rating_numerator	
stage	
puppo	12.041667
floofer	11.888889
doggo	11.853333
pupper	10.735426



favorite_count retweet_count		
stage		
puppo	22308.210526	6551.473684
doggo	20556.354167	7594.854167
floofer	13206.000000	4968.714286
pupper	8053.524476	2561.727273

Another question I wanted to answer is, if each user can upload 4 images, which one give as the best prediction accuracy, and results say us that is the first. Probably because they choose the best and the more clear one at the beginning, and also could be because people usually post just 1 photo but we don't have this information.



At the end I wonder which breeds of dog has the best predictions confidence. The truth is that breeds with better confidence numbers has low quantity of predictions so maybe this numbers are not so trustworthy, and breeds with high quantity of predictions has lower for more reliable numbers.

confidence n_pred			confidence n_pred		
breed_pred			breed_pred		
komondor	0.972531	3	golden_retriever	0.726270	136
Brittany_spaniel	0.874545	7	Labrador_retriever	0.655582	92
keeshond	0.844431	4	Pembroke	0.717223	88
bull_mastiff	0.815618	5	Chihuahua	0.588905	79
Bernese_mountain_dog	0.801816	10	pug	0.759223	54
...	...	...	...	...	...
wire-haired_fox_terrier	0.305596	2	Japanese_spaniel	0.661178	1
Norwich_terrier	0.295496	4	silky_terrier	0.324251	1
Scotch_terrier	0.267979	1	standard_schnauzer	0.441427	1
cairn	0.262196	3	Scotch_terrier	0.267979	1
Scottish_deerhound	0.182365	3	groenendael	0.550796	1