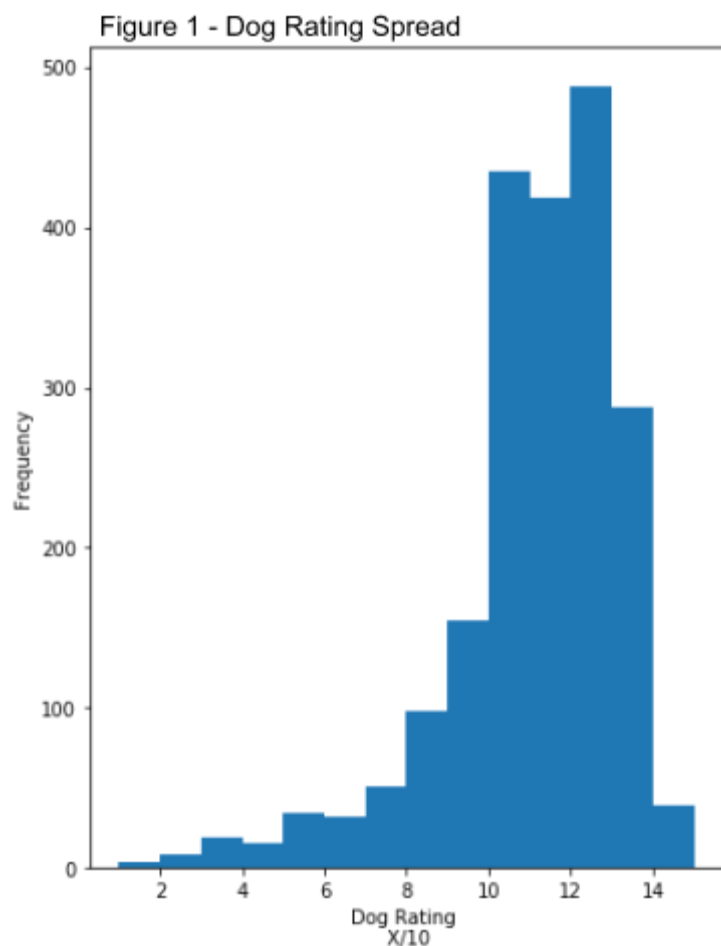# Doggo Analysis

Who's a good boy? A question asked of dogs everywhere. They hope the answer is them, but how can you ever be sure?

Luckily for us, the intrepid Twitter account WeRateDogs™ (@dog_rates) has spent a lot of time - years - in rating the good boys and good girls of the world. With the data they've collected, perhaps we can put some certainty to not only who are good dogs, but who are also the best dogs.

WeRateDogs uses a rating system of format XX / 10, where 10 can range to any number. The dataset that's used for this analysis assumes that's always the case.

For the purposes of defining what a good dog is, a 10/10 will be a good dog. Anything under a 10/10 can be considered not a good dog (I'm hesitant to say a bad dog, because there aren't really any bad dogs).

As shown in Figure 1, the majority of dogs are good dogs. Only 20% of dogs rated in the archive can't be considered good dogs - and maybe they're just having a bad photo day.



Figure 1 - Dog Rating Spread

With good dogs in mind, it would also be interesting to know what our most popular dogs are. A machine learning algorithm was exposed to the dataset and determined what types of dogs are shown in the pictures on the website.

Table 1 indicates the proportions of dogs of each type in the dataset. Unsurprisingly, given that this appears to be a North American twitter account, the Golden Retriever.

Further, it appears that golden retrievers typically rate better than the average dog, with an average rating of 11.6/10 versus an average of 10.9/10 for the rest of the dogs.

There is certainly more that could be gleaned from this dataset, but it appears we have a preliminary answer to who the best boys are - golden retrievers.

Table 1 - Top 10 Dog Proportions

| Dog Type | Relative Proportion |
| --- | --- |
| Golden Retriever | 9.334248 |
| Labrador Retriever | 6.451613 |
| Pembroke | 6.039808 |
| Chihuahua | 5.353466 |
| Pug | 3.706246 |
| Chow | 2.814001 |
| Samoyed | 2.676733 |
| Pomeranian | 2.539465 |
| Toy Poodle | 2.539465 |
| Malamute | 1.990391 |