

Assignment 1 - Data Exploration with Tableau - (50 points)

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Due date: 8/30/2022 at 11:59pm

Data source: [Tidy Tuesday](#)

Data Github link: [dog_traits_AKC](#)

Contents:

1. Three findings from data exploration are supported through visualizations built into Tableau.
2. Extra credit: Five extra findings with supported visualization evidence

DOG BREEDS DATA VISUALIZATION

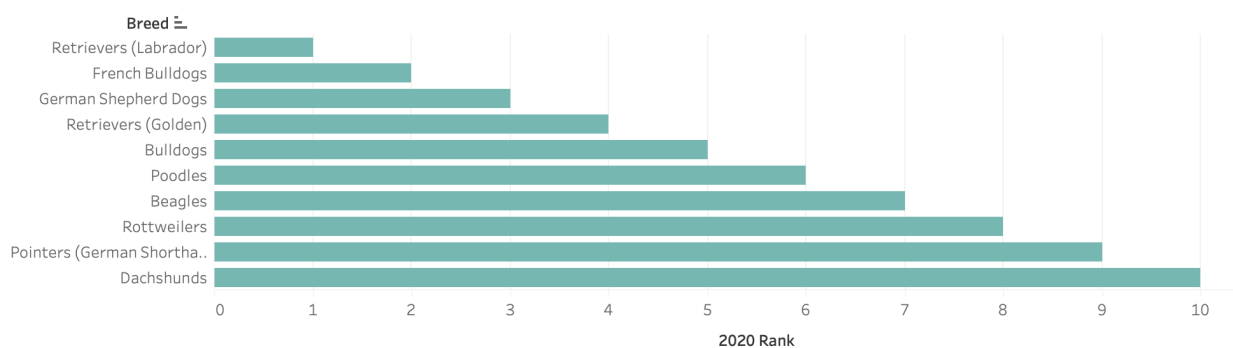
Research Goals

- Finding the most popular dog breeds in the U.S.
- Finding the most popular dog breeds from 2016 to 2020
- Finding the relationship between dog popularity and their trait to be good with other dogs
- Finding the relationship between dog traits to be good with young children and good with other dogs
- Finding trainability level of the most popular dog breeds
- Finding coat traits of the most popular dog breeds
- Looking at comparison between Rotweiler and Labrador breeds
- Looking at comparison between Chihuahua and Labrador breeds

The American Kennel Club (AKC) rank the most popular dog breeds based on AKC registration statistics for the previous year. This dataset provides breeds ranks from 2016 to 2020 and the breeds traits.

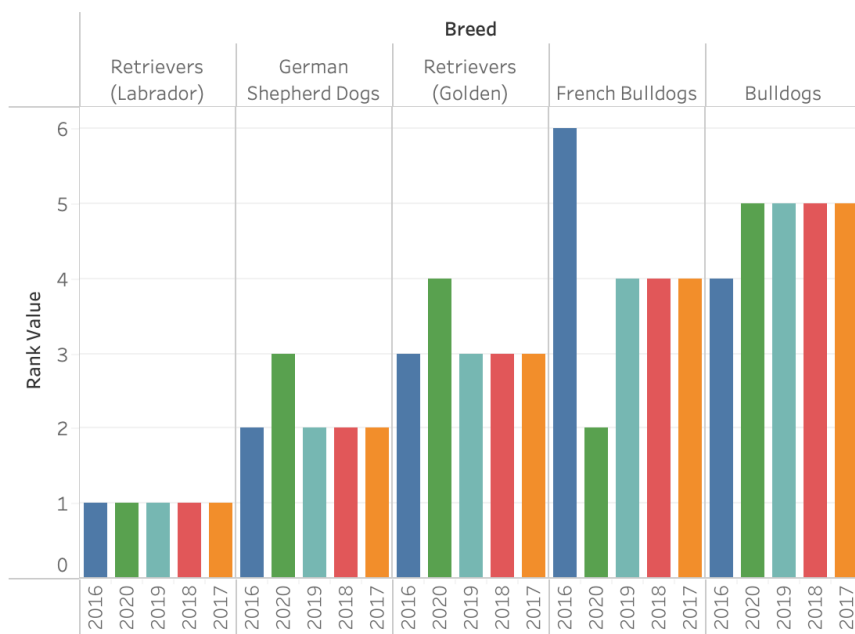
1. **Top 10 Most Popular Dog Breeds in the U.S. in 2020** ranked by AKC includes: Labrador Retrievers, French Bulldogs, German Shepherd, Golden Retrievers and Bulldogs.

Popular Breeds in the U.S. 2020

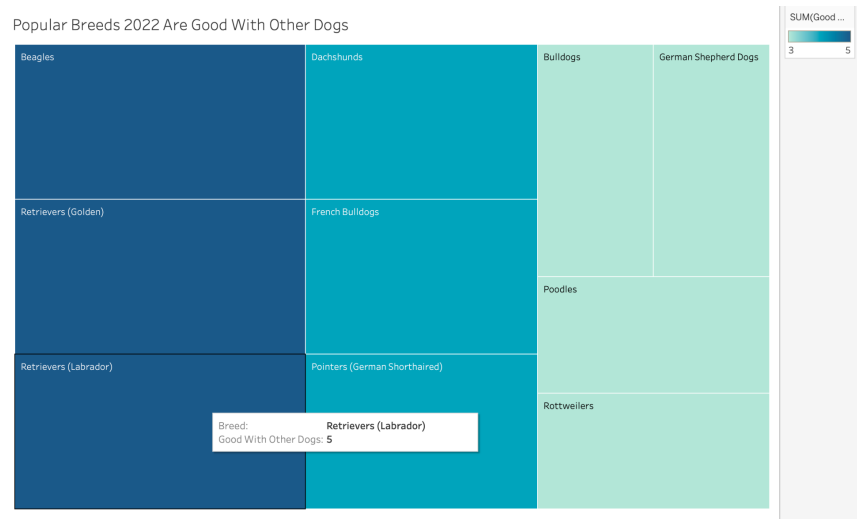


2. From 2016 to 2020, **Labrador has been the favorite dog in the U.S.**, while in **2020 French Bulldog surpassed the German Shepherd Dog who has won 2nd place for 4+ years**

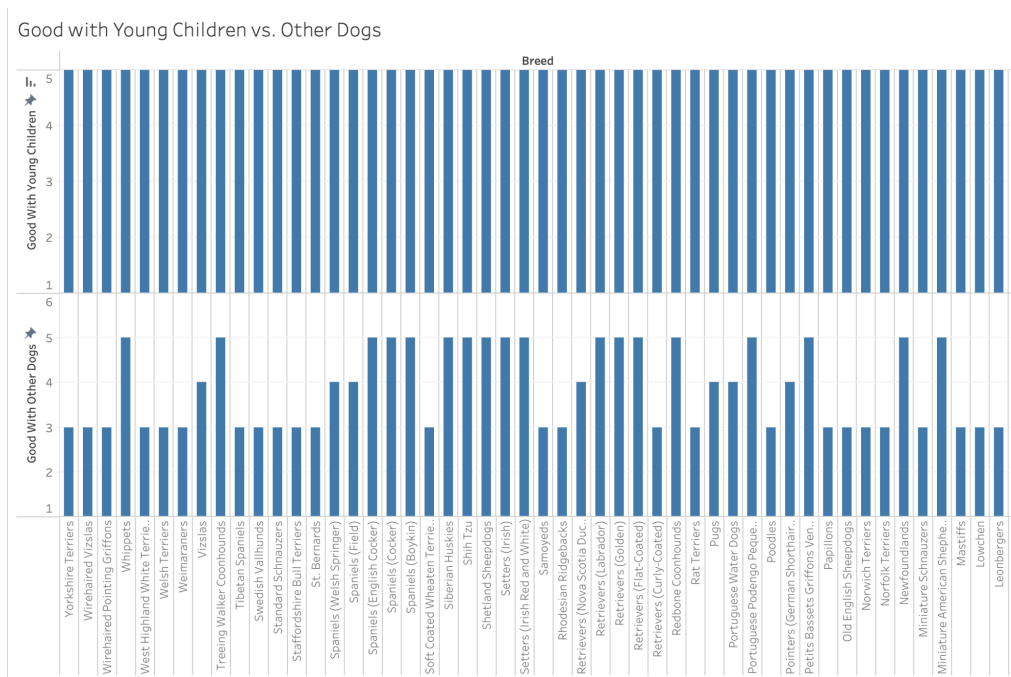
Popular Breeds in the U.S. from 2016 to 2020



3. The Top 10 Most Popular Breeds in the U.S are **good with other dogs** with a range from 3 to 5. Labrador, the favorite has a 5-score for being good with other dogs.

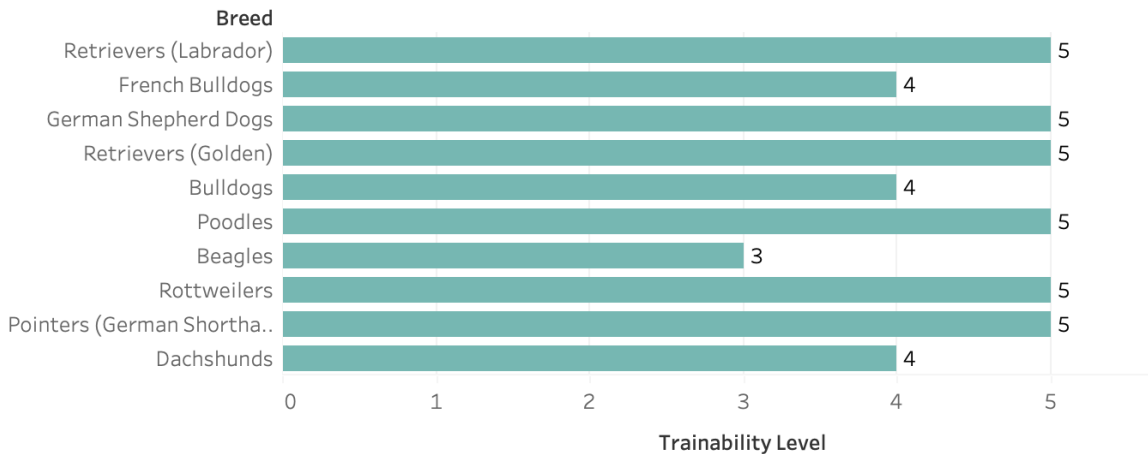


4. Having a trait of good with young children doesn't necessarily mean the dog breeds are good with other dogs.



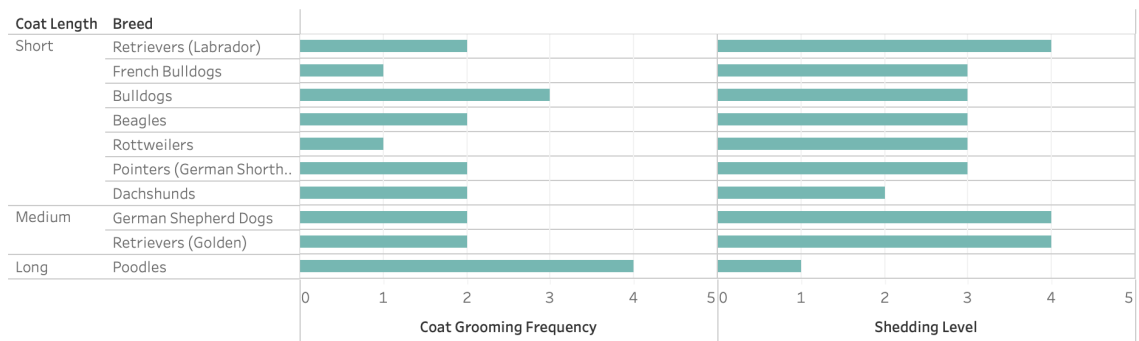
- The Top 10 Most Popular Breeds in the U.S are highly trainable. Six of the breeds score 5 out of 5 including Labrador and German Shepherds, and three breeds score 4 out of 5, except for the beagles with a score of 3 out of 5.

Trainability Level of Popular Breeds in the U.S. 2020



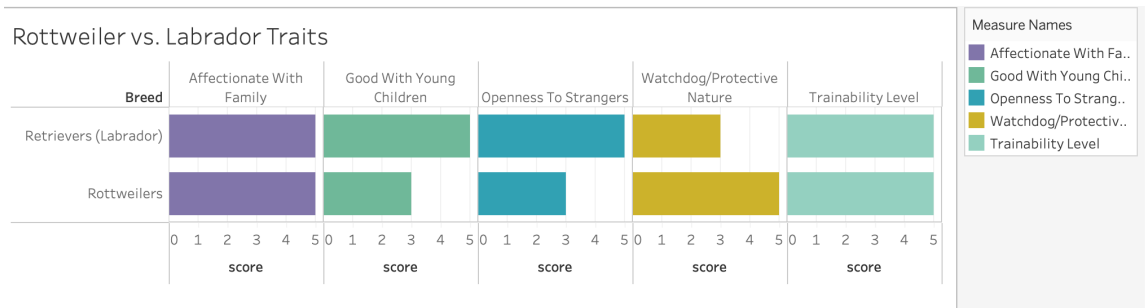
- 70% of the top 10 Most Popular breeds in the U.S. in 2020 have short hair. Most breeds have low coat grooming frequency aside from poodles. The most popular breed, Labrador has a high shedding level of 4 out of 5, 80 % sheds more than average, which means dog owners don't mind cleaning up furs.

Coat Traits Popular Breeds in the U.S. 2020



- The rottweiler breed often has a bad reputation and is branded as aggressive, yet it is one of the top 10 most popular breeds in the U.S. in 2020. Comparing the Rottweiler traits with the favorite breed Labrador, we can see that both of the breeds are affectionate with family members, although rottweilers is less open to strangers and

children. They are both very trainable. Rottweiler has a guarding instinct due to its devotion to its family.



8. Lastly, I want to compare Chihuahua traits and the most popular breed, Labrador, just because my support dog, Nemo is 33% Chihuahua. As we can see below Labrador generally has a higher score than Chihuahua except for the barking level. I can testify that the chihuahua is indeed loud. Chihuahua is not good with young children and is not as open to strangers compared to Labrador. However, I find it intriguing that Chihuahua has more protective nature and watchdog traits.

