

Pawsitive Profiling

Paw Patrol Unit 7: Daniel
Lovino, Thompson Morgan, &
Niyati Parekh



Did you know ...



In the U.S. ...

- 6.3 million “companion” animals arrive at animal shelters and pet adoption locations each year
- About 49% (3.1 million) of those animals are dogs



Of those dogs...

- 2 million dogs are adopted each year
- Around 44% of houses in the US have a dog, with roughly 78 million dogs owned in the US

The Data Sourcing Process

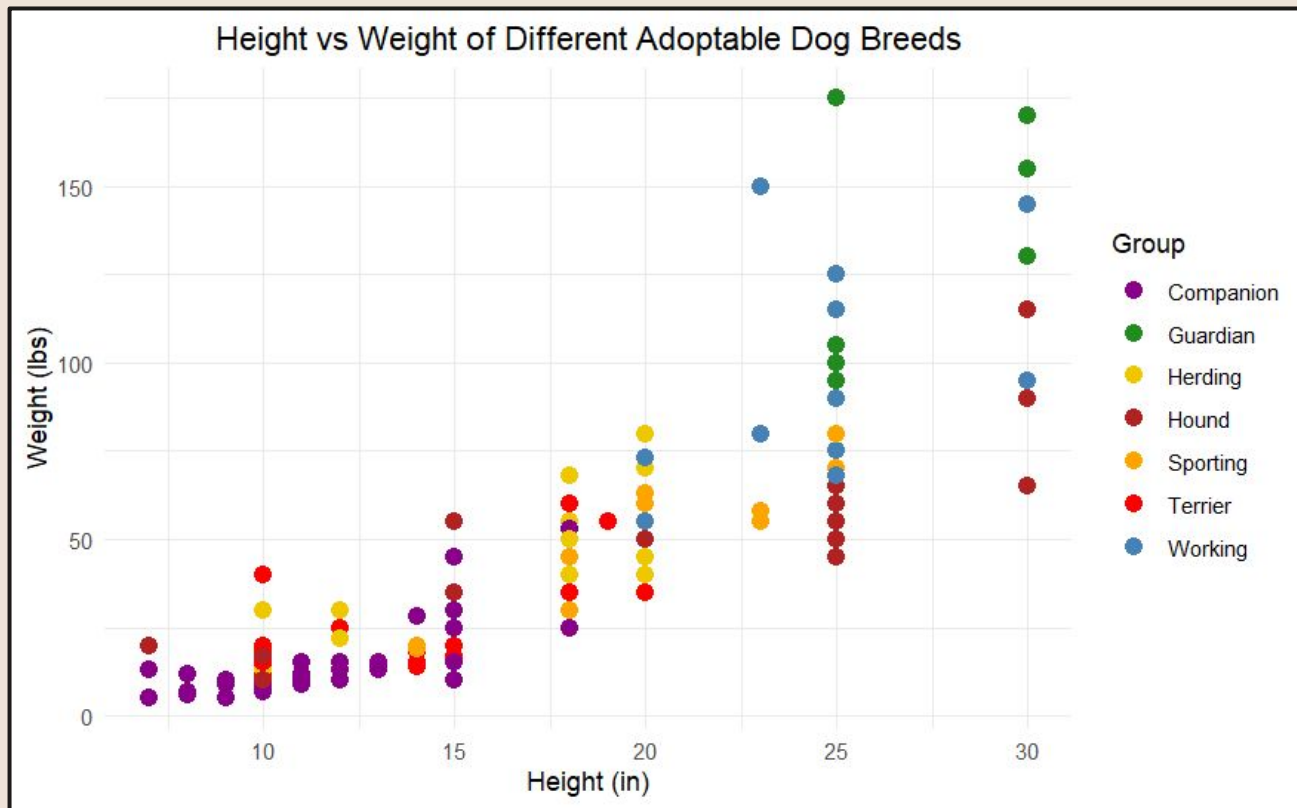
- Our dataset was found in a list of public API's on GitHub
- Contains 209 unique dog breeds and information on their physical characteristics, behavioral traits, and care requirements
- Every breed is given either a score from 1-5 or a short description for each category



Doggy Affirmations

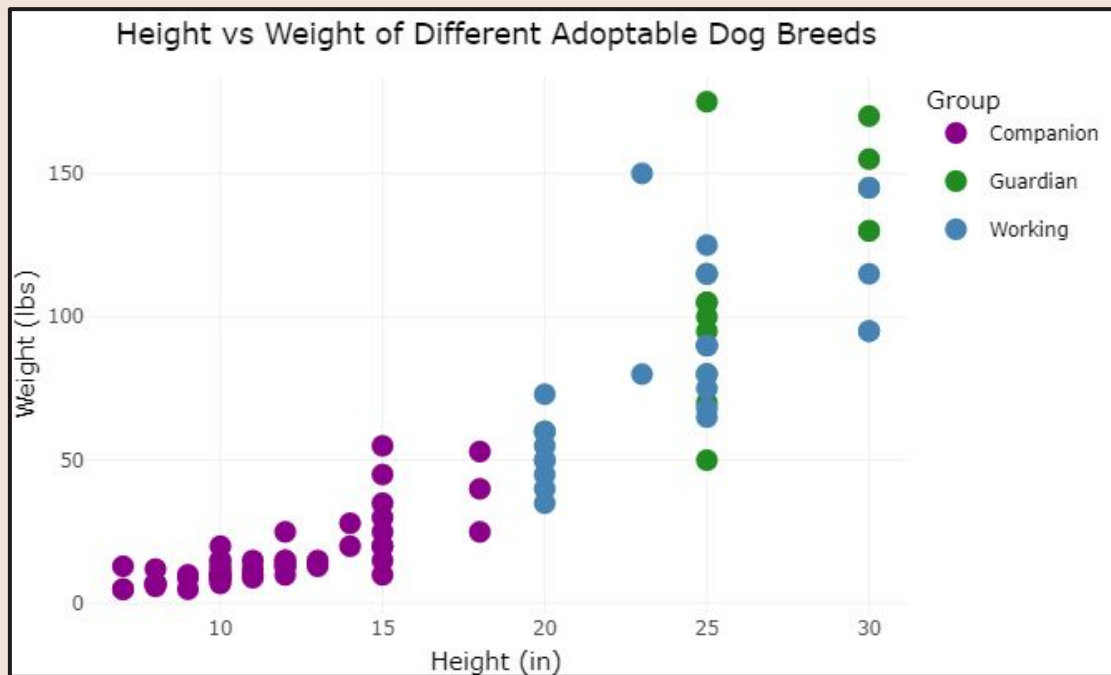
word cloud containing various dog-related terms and breeds, including: yorkshire, entertaining, coats, medium, autonomous, sheepdog, observant, versatile, inquisitive, dynamic, terriers, shepherd, captivating, sociable, nature, playful, serene, unique, protective, herding, affectionate, striking, american, spaniel, vigilant, white, stately, family, breed, curly, amicable, red, charm, irish, australian, dogs, giant, wavy, tender, loving, english, clever, family, energetic, brave, spirit, coat, perfect, joyful, jovial, faithful, mix, loyal, dogs, poodle, vibrant, active, relaxed, spirited, courageous, guardian, intelligent, sleek, friendly, assured, retriever, wise, ideal, vivacious, hound, gentle, setter, king, sporting, companions, hunting, appearance, personality, strong, dignified, adaptable, presence, charming, lively, dedicated, german, elegant, distinctive, alert, miniature, demeanor, labrador, golden, silky, energetic, tender, spaniel, vigilant, american, protective, welsh, nature, playful, serene, unique, adorable, terriers, shepherd, sheepdog, autonomous, medium, coats, inquisitive, dynamic, sociable, observant, captivating, versatile, white, stately, family, breed, curly, amicable, red, charm, irish, australian, dogs, giant, wavy, coats, medium, autonomous, sheepdog, shepherd, terriers, adorable, unique, striking, stately, family, breed, curly, amicable, red, charm, irish, australian, dogs, giant, wavy

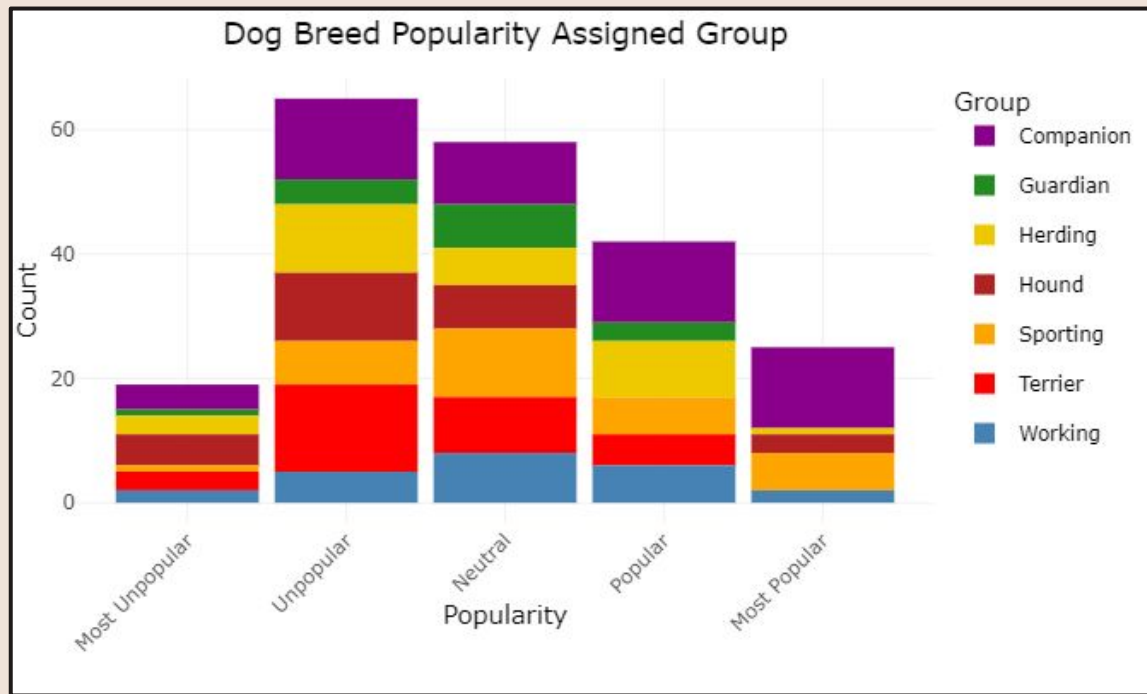
Height vs Weight Scatter Plot



Height vs Weight Scatter Plot cont.

- All dogs contained in the data set had an average height and weight for the breed
- The smallest of the 209 breeds was the Pomeranian, while the largest was the Mastiff
- While significant overlap was present between their heights and weights of the dog breeds, it is interesting that there is no overlap between the Companion dog breeds and the Guardian & Working breeds



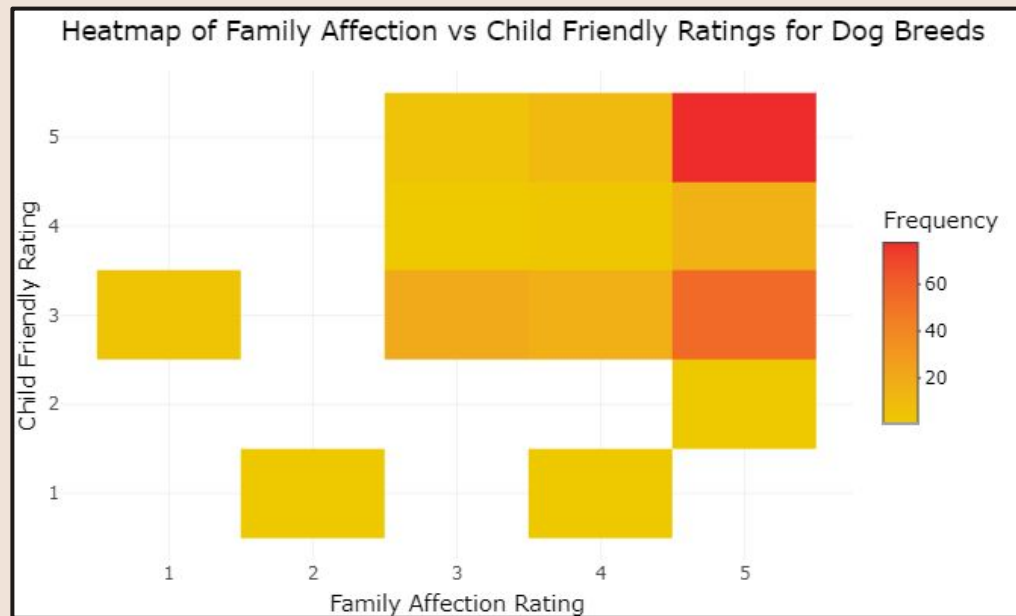


Popularity Rankings

- Many of the individual columns in the data set followed a ranking system of 1-5
- On this scale, 1 is the worst option, and 5 is the best option
- Companion Dogs were the largest portion of the 5's
- Terrier's ranked among the least popular of the seven groups

Family Affection vs Child Friendliness Heatmap

- Observed the frequency of all 25 possible combinations of Family Affection and Child Friendliness on the same 1-5 scale
- The largest ratings demographic was dogs ranked as a 5 in both cases (highly child friendly and affectionate with family)
- Only 6 out of the 209 dogs were rated as a 1 out of five for either of the two parameters



Conclusions & Future Direction

- Diverse characteristics were found for different groups
 - Companion dogs have small height and weight ratio and guardian have the biggest
 - Guardian, herding and working dogs rate low for child friendliness but high for family affection
- Notable similarity- most breeds were rated highly for family affection
- Regardless of popularity all dog types contribute pawpositively to their owners' health and happiness
- Future studies can focus on geographical adoption trends and long-term owner satisfaction for deeper insight into dog adoption patterns



Thank you !

Do you have any questions?

