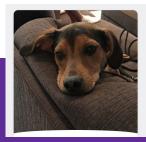
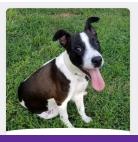
WebScraping Project: petfinder





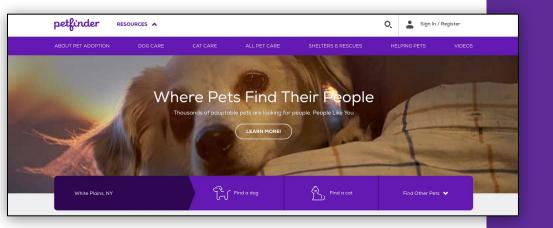






Erin Dugan • 08.08.2018 • NYC-Data Science Academy

Overview



petfinder.com

Largest online pet adoption website in North America

Almost 300,000 animals listed, including:

cats, dogs, fish, birds, horses, lizards, etc.

project objectives

Scrape subset of dog postings in NYC metro area

Explore distribution by age, breed, size, etc.

Find adoption trends

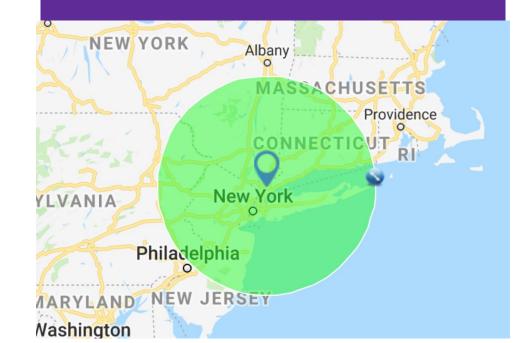
Examine characteristics of common dog breeds

Webscraping

8000+ dogs from urban/suburban/rural areas in 5 states

breed, age, size, health posting date, location, contact info brief description

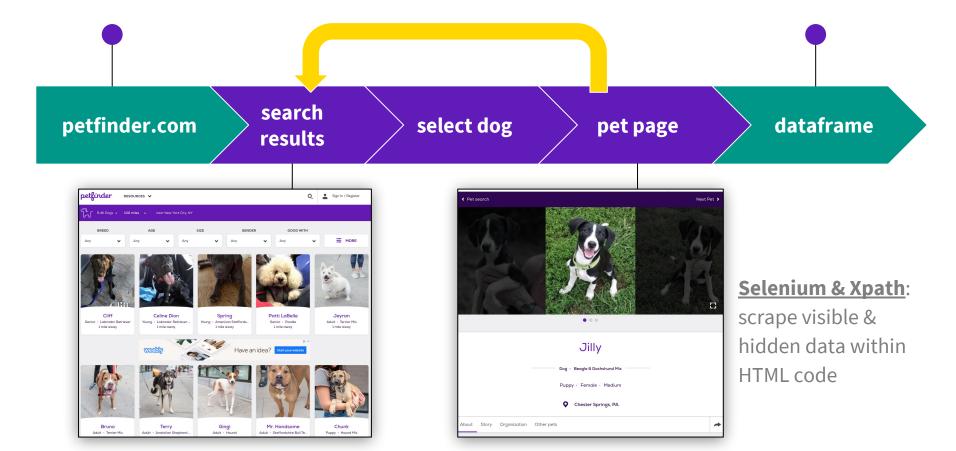
All dogs available for adoption within 100-mile radius of White Plains NY

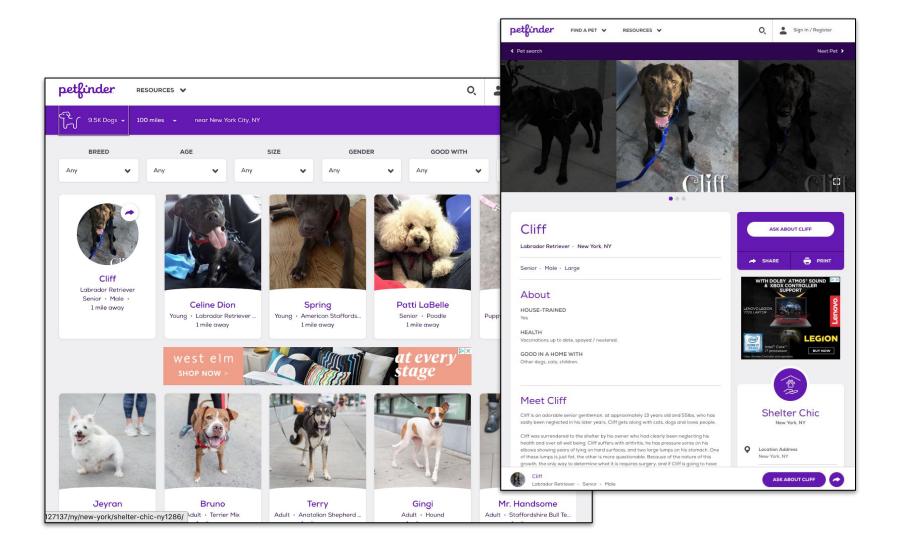


Search: dogs within 100-mi of White Plains NY

Selenium: step through 40 dogs per page, 217 pages

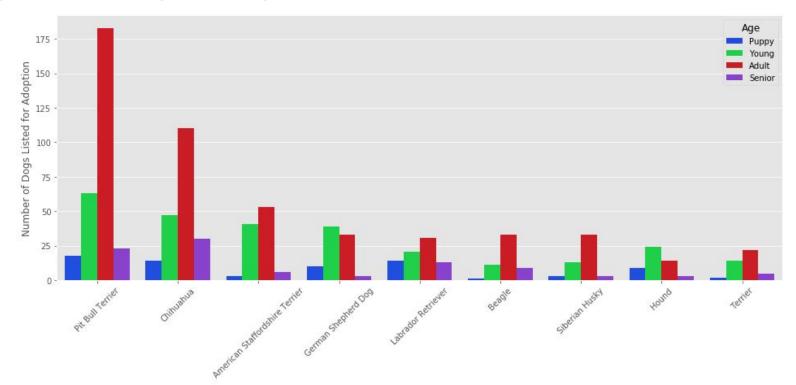
Python: clean & parse data for analysis





Demographics

Purebred dogs with most listings in NYC region

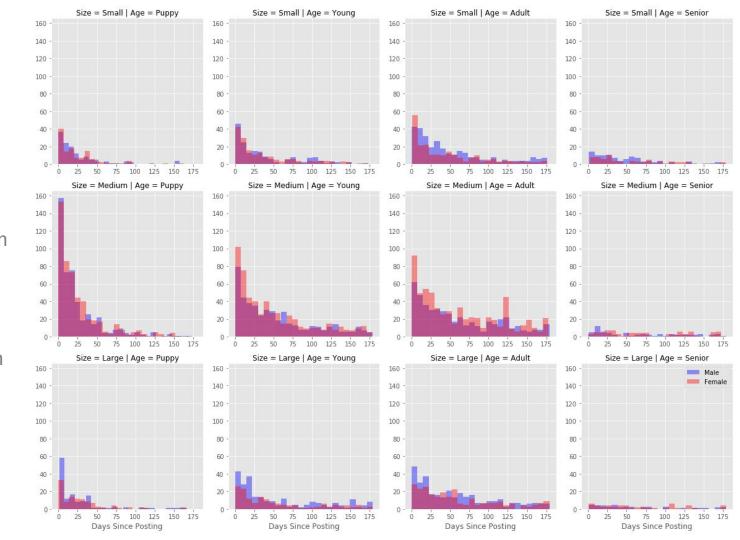


Adoption Trends

Number of days dogs listed on petfinder.com (before adoption)

6-month time period

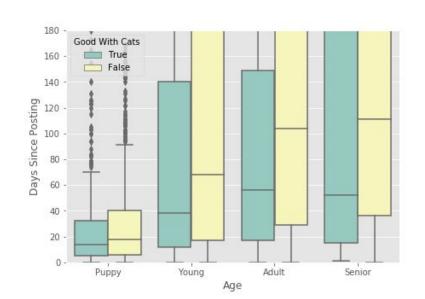
How quickly does each category get adopted?

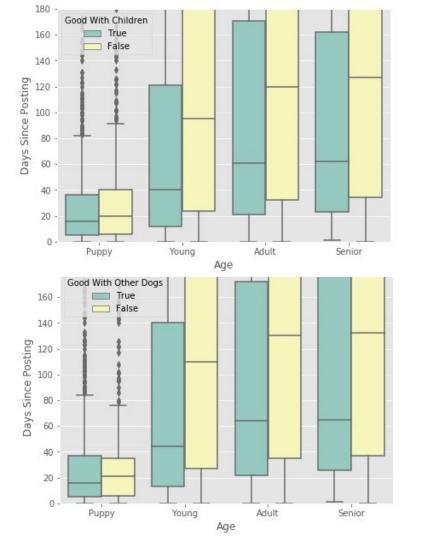


Adoption Trends

Median number of days posted, for all dogs: **55.5 days**

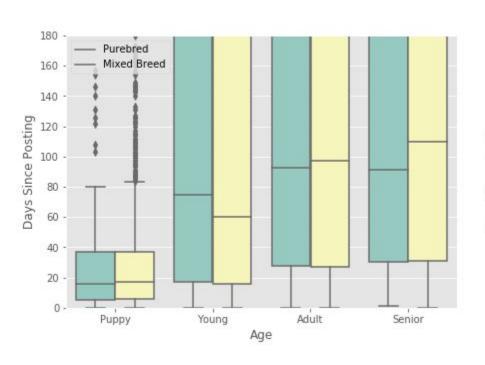
What qualities are most desirable at each age?

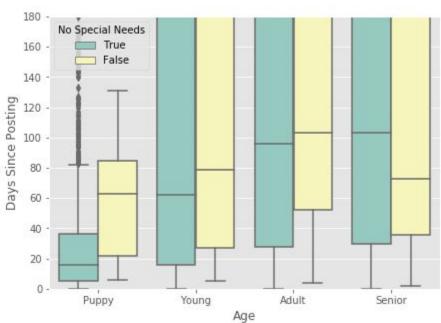




Adoption Trends

What other factors increase adoption rate? Does it vary by age?





Wordclouds by Breed





Continued Work

Future Applications



Yuri Waffles
ead & Lop Eared Mix Domestic Short
44 miles away 26 miles awa



Leah Turtle 225 miles away



PUCK Duck 932 miles away



Bingo Quarterhorse 840 miles away



Atlas
Vietnamese Pot Bellie
440 miles away

- Analyze other pet types & regional areas
- Evaluate most popular mixed dog breeds
- Help to find homes for pets evacuated from devastated areas due to fires, hurricanes, etc.
- Use similar analyses for other search sites: Dating apps, Employment search, etc.

