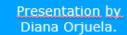
GETTING FAMILIAR WITH CUSTOMERS FOR A NYC PET STORE

SEGMENTING AND CLUSTERING CUSTOMERS IN NEW YORK. LKA.CO





WHY NYC?

The figures show that in the United States, during 2017, US \$ 69,000 million was spent on products and services for pets, mainly food and veterinary care. This country is the world leader in sales of pet food with US \$ 28,662 million annually and is also the largest market for pet products with sales of more than US \$ 46,000 million.

Moreover, there are plenty of dog-friendly locations and events for people and their furry friend to check out in the Big Apple.











DATA ACQUISITION AND CLEANING

Dog population data from NYC Open Data page https://data.cityofnewyork.us/Health/NYC-Dog-Licensing-Dataset/nu7n-tubp

Borough Boundaries of New York City from NYC Open Data page https://data.cityofnewyork.us/City-Government/Borough-Boundaries/tqmj-i8zm

NYC zip code with corresponding borough, neighborhood, population and density from data.BetaNYC page https://data.beta.nyc/en/dataset/pediacities-nyc-neighborhoods/resource/7caac650-d082-4aea-9f9b-3681d568e8a5?inner_span=True

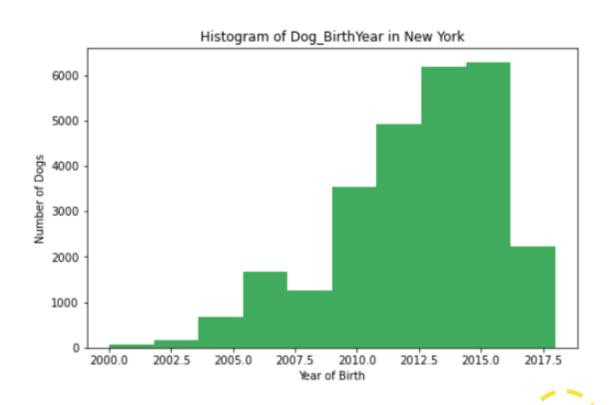
Boroughs and the neighborhoods that exist in each borough as well as the the latitude and logitude coordinates of each neighborhood from NYU Spatial Data Repository https://data.beta.nyc/dataset/pediacities-nyc-neighborhoods

- ✓In total, 342,394 rows and 15 features in the raw dataset.
- ✓ Duplicate, highly similar or highly correlated features were dropped.
- √Cleaned data contains 26,977 rows.
- √5 features was selected to run the K-Means.

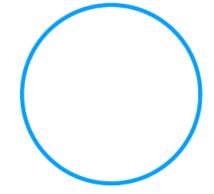


HOW OLD ARE NYC DOGS?



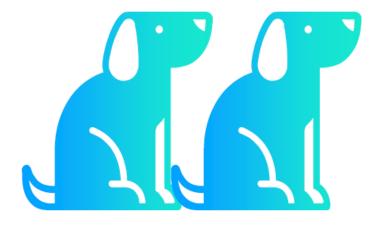


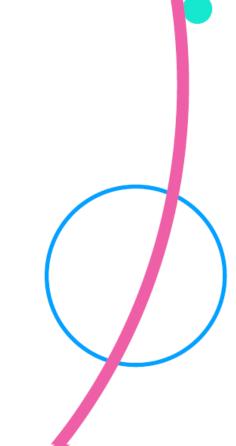
Most of them are in the range of 5 - 10 years old.





12577 females 14400 males





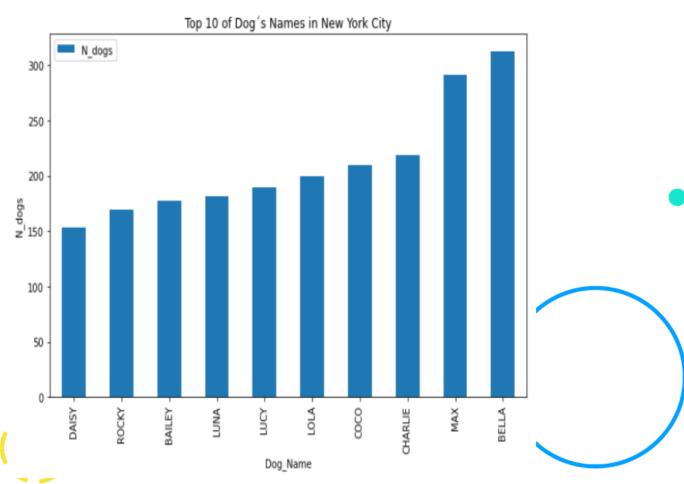
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MOST POPULAR DOG NAMES IN NEW YORK CITY

If you own one of the 26,977 -plus dogs that are licensed in New York City, chances are rather good your pup is either named Bella or Max.







NEW YORK CITY'S TOP DOG BREEDS 🔯









1ST YORKSHIRE TERRIER

N_dogs

	Breed_Name
517	Havanese
534	American Pit Bull Terrier/Pit Bull
736	American Pit Bull Mix / Pit Bull Mix
748	Maltese
842	Labrador Retriever Crossbreed
1000	Poodle
1087	Labrador Retriever
1140	Chihuahua
1236	Shih Tzu
1239	Yorkshire Terrier

2ND

SHIH TZU







NYC PET LOVER BOROUGHS



 N_dogs

Borough

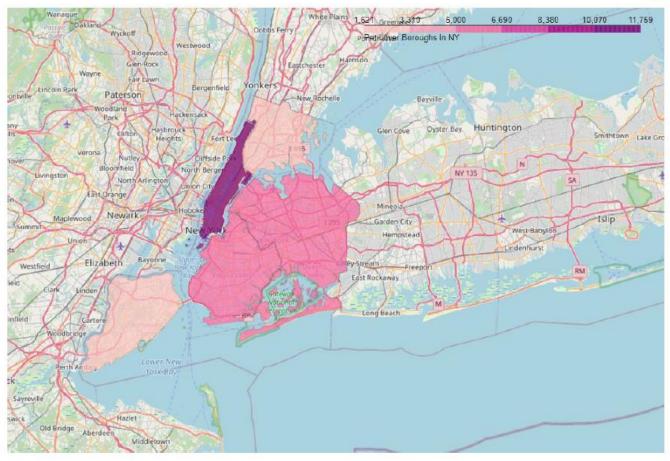
Staten Island 1720

Bronx 2017

Queens 5129

Brooklyn 6451

Manhattan 11660









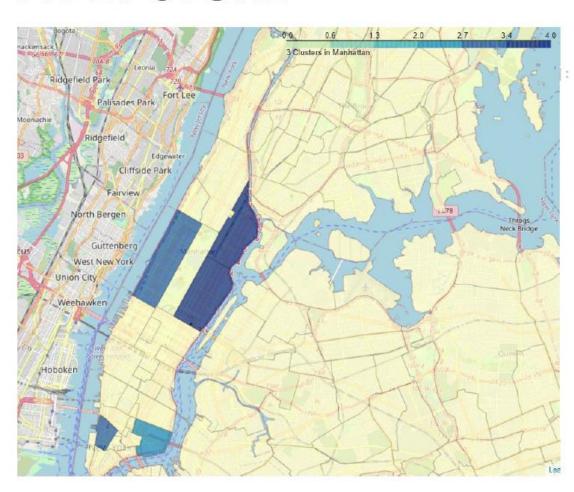
N_dogs	Borough
795	Staten Island
902	Queens
932	Queens
951	Manhattan
1147	Manhattan
1342	Manhattan
1815	Manhattan
1916	Manhattan
2045	Manhattan
2100	Brooklyn
	795 902 932 951 1147 1342 1815 1916 2045

"Northwest Brooklyn" is not a Neighborhood but amount of neighborhoods in Brooklyn.

On the other hand, there is a lot of dogs in Manhattan. Thus, it would be interesting to analyze it deeper.



BEST NEIGHBORHOOD IN MANHATTAN TO OPEN A PET STORE



Neighborhood

Central Harlem

East Harlem

Lower Manhattan

Inwood and Washington Heights

Greenwich Village and Soho

Gramercy Park and Murray Hill

Lower East Side

Chelsea and Clinton

Upper West Side

Upper East Side

The pet store can focuses on 3 clusters in Manhattan as you can see on this map.





THANK YOU.

