



Dog-Friendly Neighbourhoods of Stockholm

Coursera Capstone Project

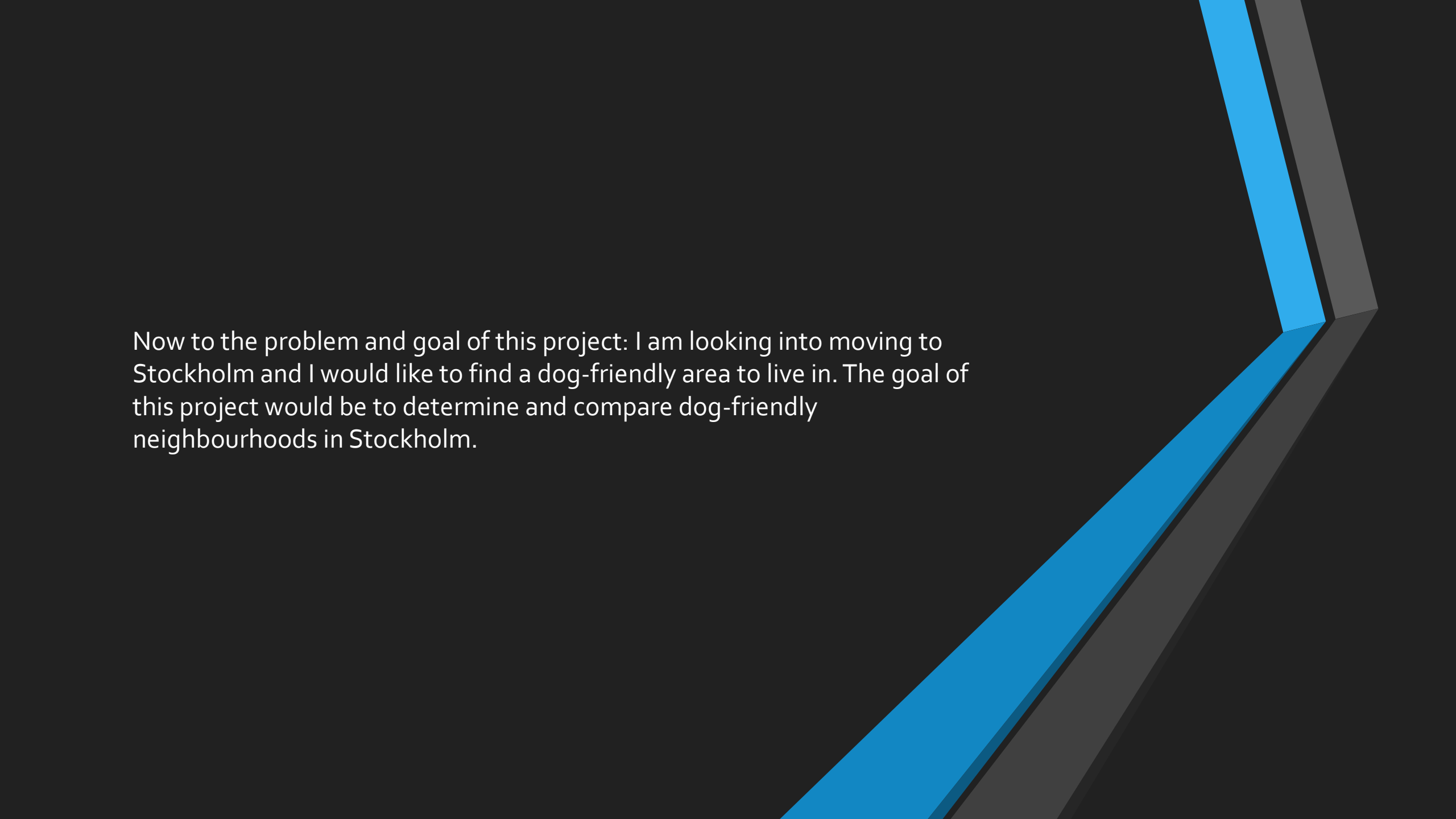
Hello, My name is Liuba and I live in Gothenburg with my dog and sidekick called Watson. We live in a neighbourhood called Olskroken. When I was buying my apartment I chose this neighbourhood for it's dog-friendliness (before I even met Watson!).



What does a dog-friendly neighbourhood mean? From my point of view a neighbourhood can be called dog-friendly if it has the following attributes:

- A forest or a park
- An Animal Hospital
- A Dog Park (Called "hundrasgarden" in Swedish)
- Doggy Daycare (Called "hunddagis" in Swedish)
- A Pet Store
- A Pet Salon
- Dog-friendly cafes and restaurants

It is not necessary for a neighbourhood to have **all** the attributes mentioned above to be called dog-friendly but the more checkboxes it ticks the higher it would be on my list.

An abstract geometric design featuring several thick, parallel lines in bright blue and dark grey. These lines originate from the bottom right corner and extend towards the top right, creating a sense of depth and movement. The lines are set against a solid dark grey background.

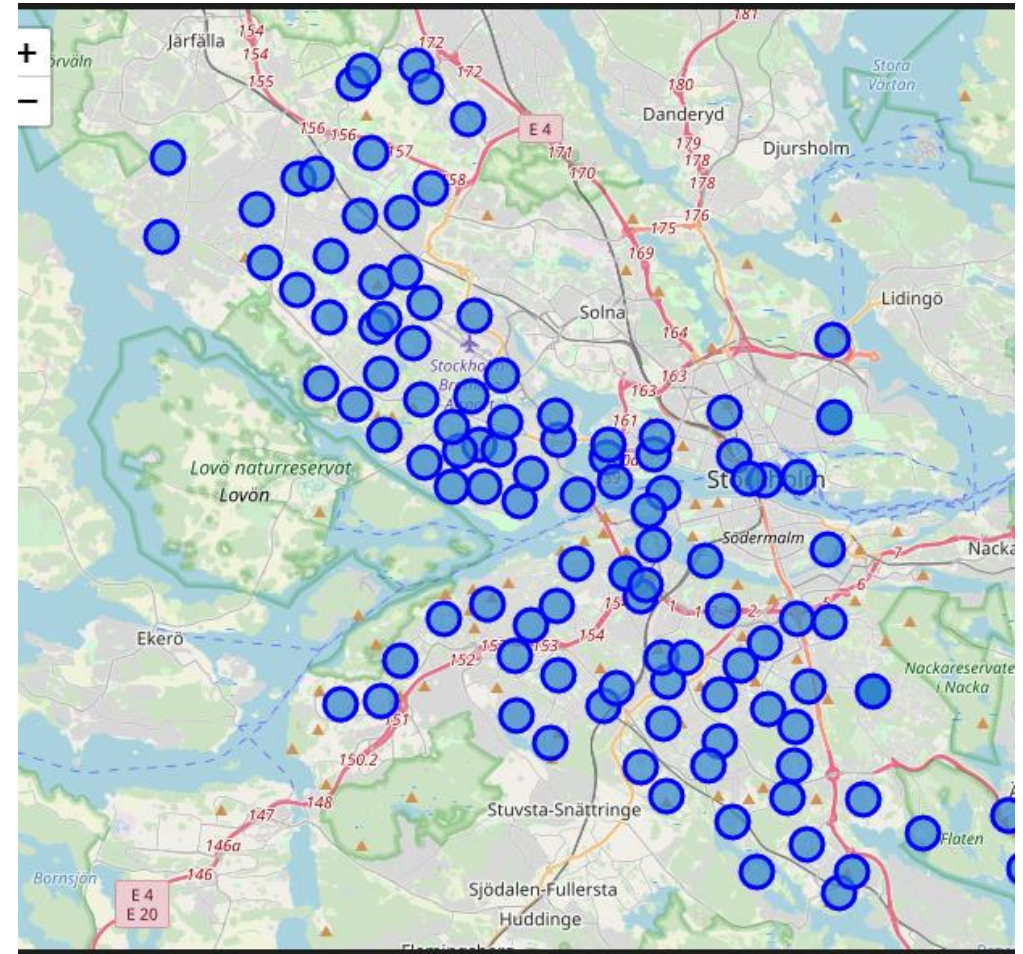
Now to the problem and goal of this project: I am looking into moving to Stockholm and I would like to find a dog-friendly area to live in. The goal of this project would be to determine and compare dog-friendly neighbourhoods in Stockholm.

DATA

After a bit of search for map data about the districts of Stockholm, I ended up manually scrapping the Wikipedia page https://en.wikipedia.org/wiki/Districts_of_Sweden for information about the districts.

Next I added the columns for latitude and longitude of each district and I retrieved this information using Nominatim that we learned about during the labs.

Next I proceed to create the map of Stockholm and I added markers for the districts as well. I noticed that a couple of districts were mapped wrong so I manually corrected their coordinates.





METHODOLOGY

Utilizing the Foursquare API to search for dog-friendly venues of Stockholm. First I examined the Foursquare venue categories (<https://developer.foursquare.com/docs/resources/categories>) to determine which ones will be relevant for the goal of this analysis.

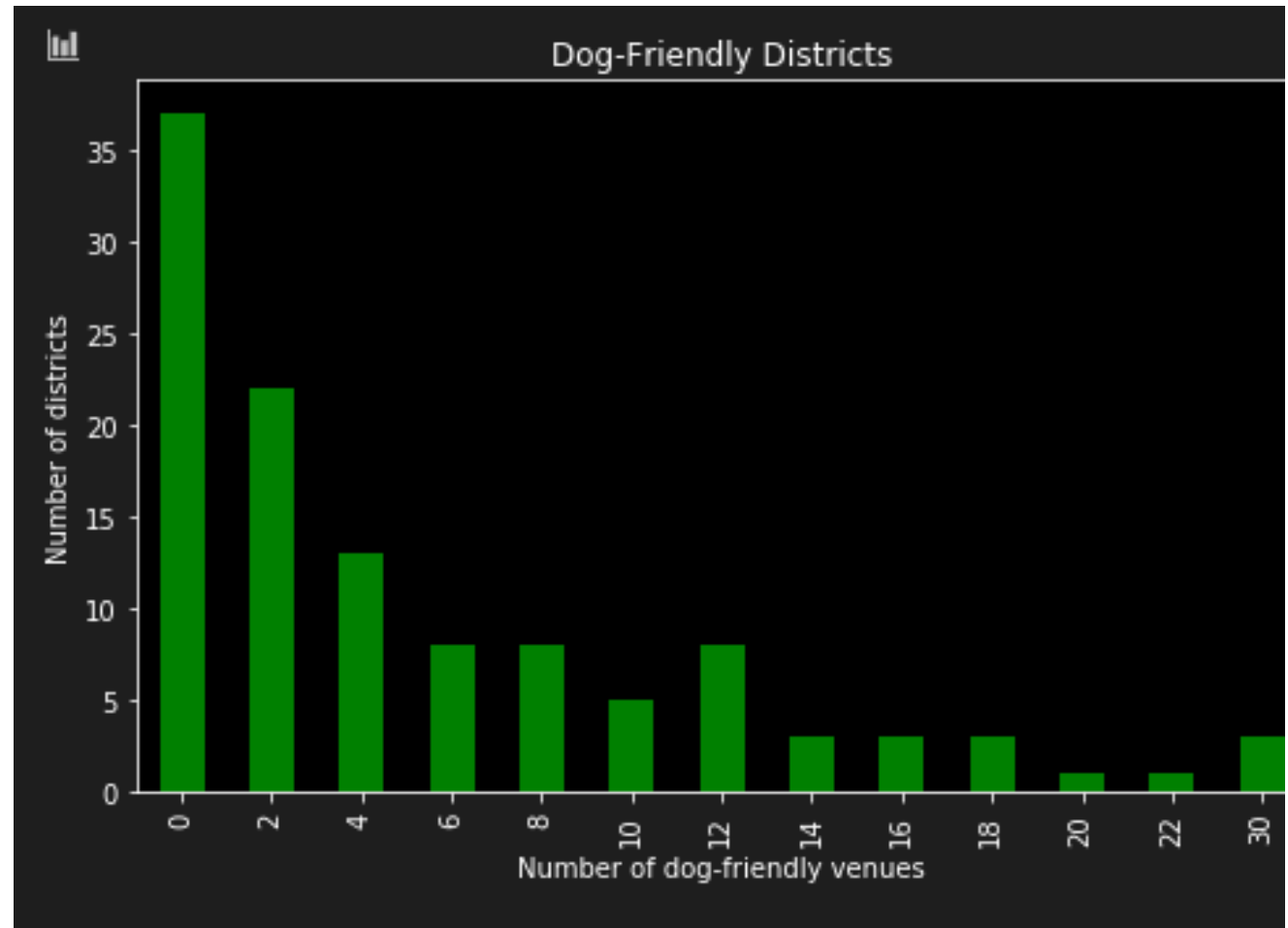
I think the following categories will be the key features for dog-friendly districts.

- Pet Café 56aa371be4bo8b9a8d573508
- Dog Run 4bf58dd8d48988d1e5941735
- Park 4bf58dd8d48988d163941735
- Trail 4bf58dd8d48988d159941735
- Veterinarian 4d954af4a243a5684765b473
- Pet Service 5032897c91d4c4b30a586d69
- Pet Store 4bf58dd8d48988d100951735

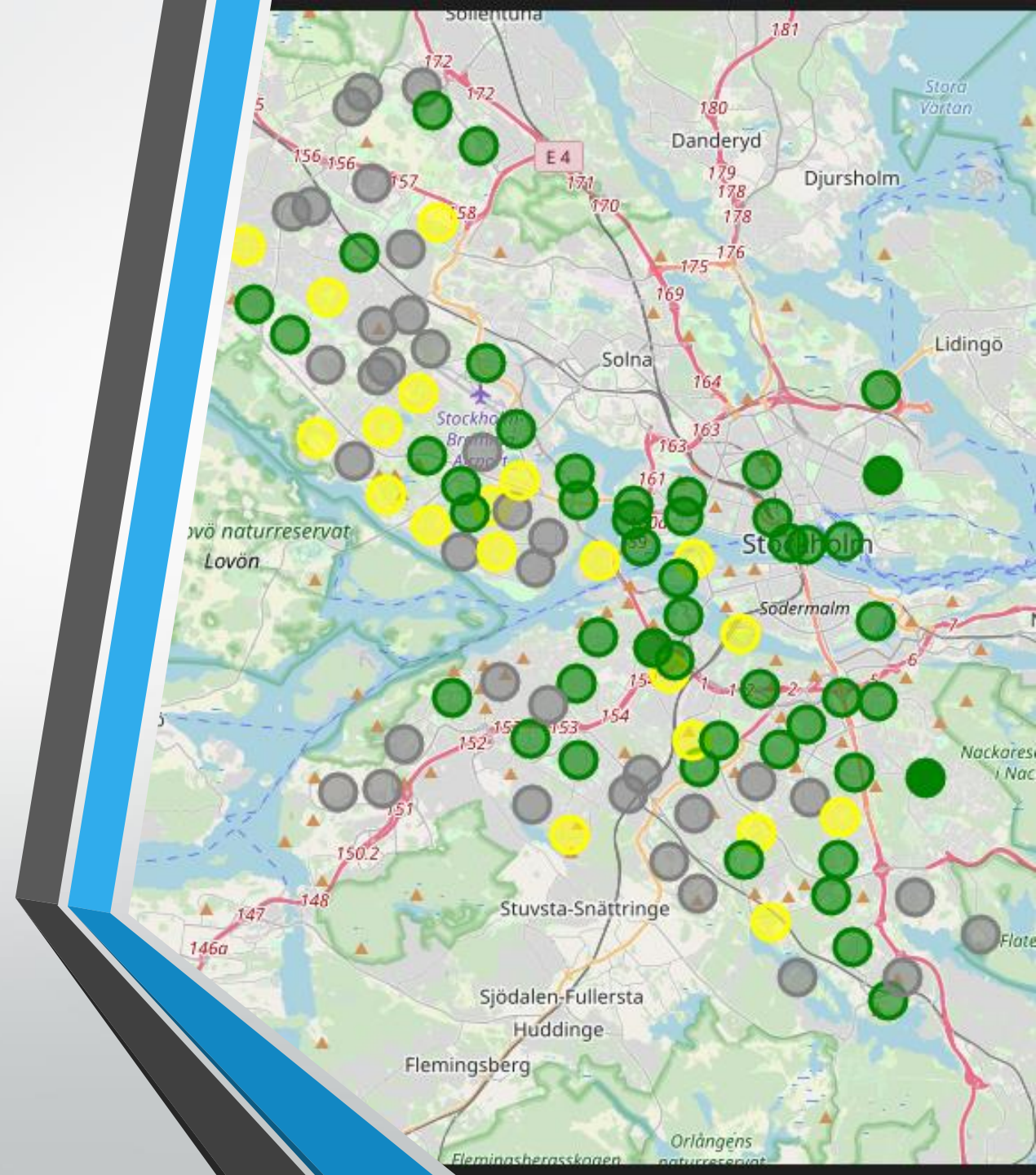
I wanted to see the venues that correspond to the categories mentioned above in the radius of 15 km of Stockholm.

ANALYZING THE RESULTS

I started by reviewing the amount of dog-friendly venues per district. I plotted the number of districts vs the number of dog-friendly.



I have managed to categorize the districts of Stockholm based on the number of dog-friendly venues in their neighbourhood. According to the results it looks like Stockholm is quite dog-friendly with plenty of venues open for dogs in multiple districts.



CONCLUSIONS

Basing on this results, I would suggest any dog owner moving to Stockholm to look further into the districts that have been categorized as dog-friendly based on my analysis and filter them further based on thier personal preferences: proximity to city center, urban/rural areas, etc.