

# Where to open my Distribution of Coffee Grains?

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# Introduction

Using the Foursquare location data, I will analyse all the coffee houses of Manhattan and decide where would be the best place to open my company of distribution of coffee grains

# Data

This notebook will use the following datasets:

- Extract the neighborhoods of New York from [https://geo.nyu.edu/catalog/nyu\\_245134572](https://geo.nyu.edu/catalog/nyu_245134572)
- Get the geographical coordinates of Manhattan from geolocator
- Get the venues of Manhattan from Foursquare API
- Get categories from Foursquare lab

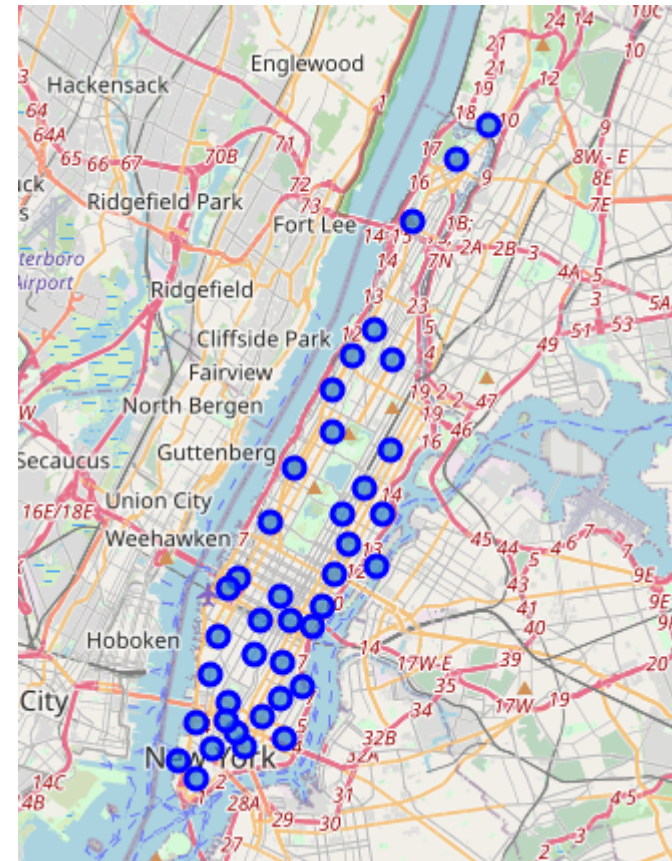
After all this, comes the clustering part, where I will find the centroid of the coffee houses in Manhattan to know the location of the company

# Methodology

For this project we are going to use Foursquare API and geolocator to geographycaly explore Manhattan.

# Results

Getting Manhattan Neighborhoods:



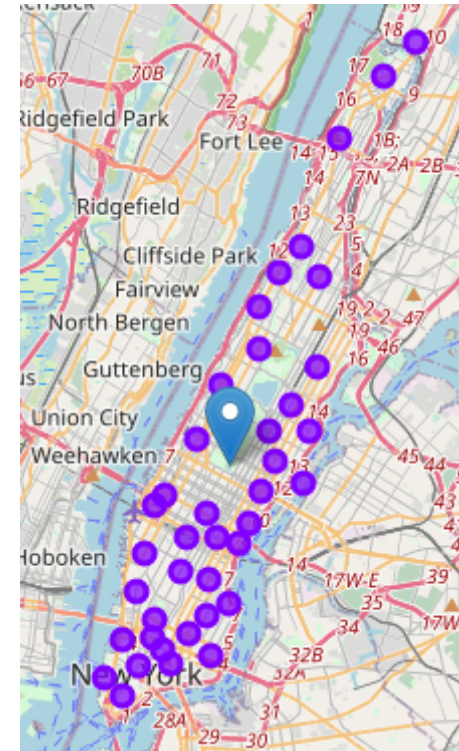
# Results

Getting data:

	Borough	Neighborhood	Latitude	Longitude	Cluster Labels	Cafeteria	Café	Coffee Shop	Sum
0	Manhattan	Marble Hill	40.876551	-73.910660	0	0.0	0.000000	0.086957	0.086957
1	Manhattan	Chinatown	40.715618	-73.994279	0	0.0	0.000000	0.020000	0.020000
2	Manhattan	Washington Heights	40.851903	-73.936900	0	0.0	0.070588	0.023529	0.094118
3	Manhattan	Inwood	40.867684	-73.921210	0	0.0	0.051724	0.017241	0.068966
4	Manhattan	Hamilton Heights	40.823604	-73.949688	0	0.0	0.063492	0.063492	0.126984

# Results

Getting the position of the company:



# Discussion

Of course it does not make sense to create a company of distribution of grains in Manhattan, would be cheaper to open that company a few miles from there and supply the island. But, our purpose here is to create an analysis that can be applied to many different situations



# Conclusion

With this exercise we learned how to use the many tools to develop a data analysis. Although the result is just a simulation, we can use this knowledge to develop other project and make studies that can be used in the real world



# Thank You!

Eduardo Mendes