

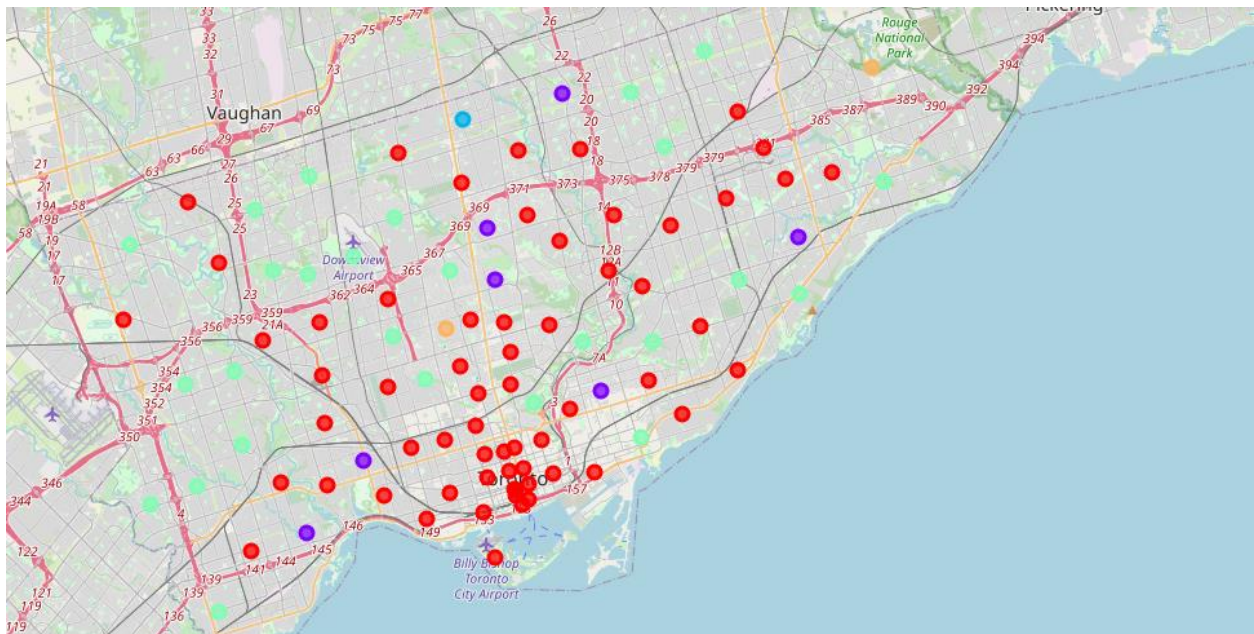
The Battle of Neighborhoods

1 – Description

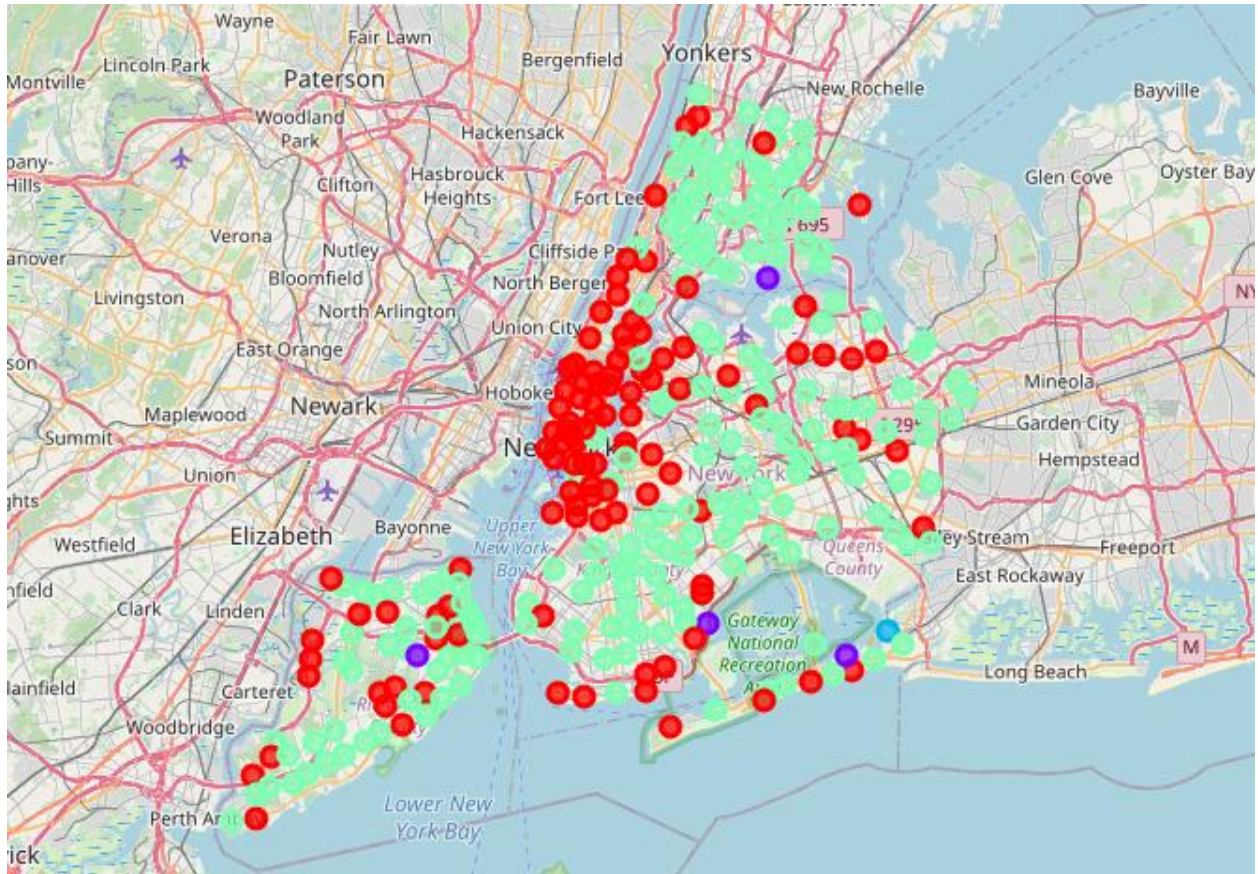
In this project we will compare neighborhoods of different cities based on the venues each neighborhood contains. The question we will be answering is: Are neighborhoods in one cities more similar to each other than they are similar to neighborhoods in other cities? Would city centers cluster together?

In other part, we will be trying to provide an advice for an entrepreneur regarding where they should open a restaurant. We will be looking at the density of restaurants in each neighborhood. We assume that a restaurant will be more profitable in an area with a low density of restaurants.

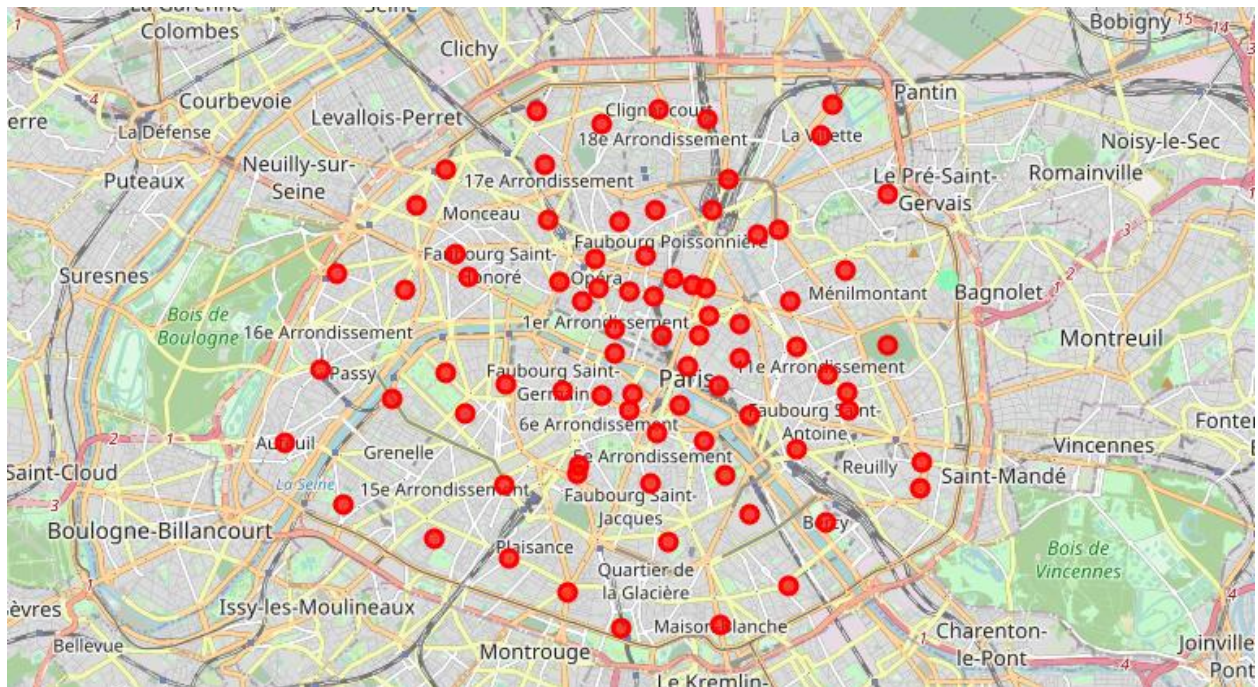
2 – Toronto



3 – New York



4 – Paris



5 – Conclusion

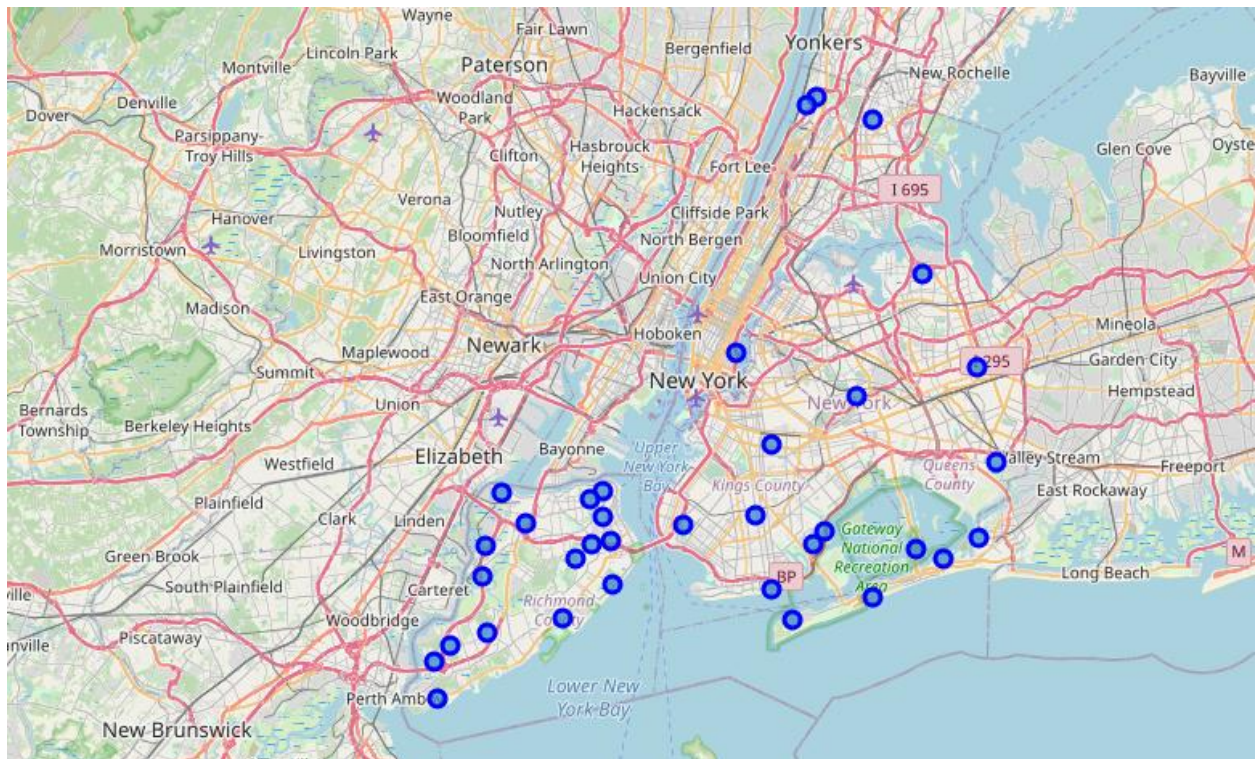
After clustering all the neighborhoods for the 3 cities, Paris, Toronto, and New York City, we observe that neighborhoods of Toronto and Paris have a very similar identity (Red Cluster) with Toronto having some Neighborhoods in the Violet cluster. Neighborhoods of New York on the other hand has a very distinct identity (red and green cluster).

Limitations: the number of venues in each neighborhood varies a lot with some neighborhood having 1 or 2 venues and neighborhoods having hundreds of venues.

6 – Restaurants

There are 71 neighborhoods with no restaurants. None of them is located in paris. If an entrepreneur is open a restaurant somewhere I would suggest they open it in one of these neighborhoods. Limitations: I suspect the data base of Foursquare doesn't include all the restaurants in each city.

Map of Neighborhoods favorable for opening a restaurant in NYC:



Map of Neighborhoods favorable for opening a restaurant in Toronto:

