City Comparison

Restaurant Comparison between New York, Toronto and Paris

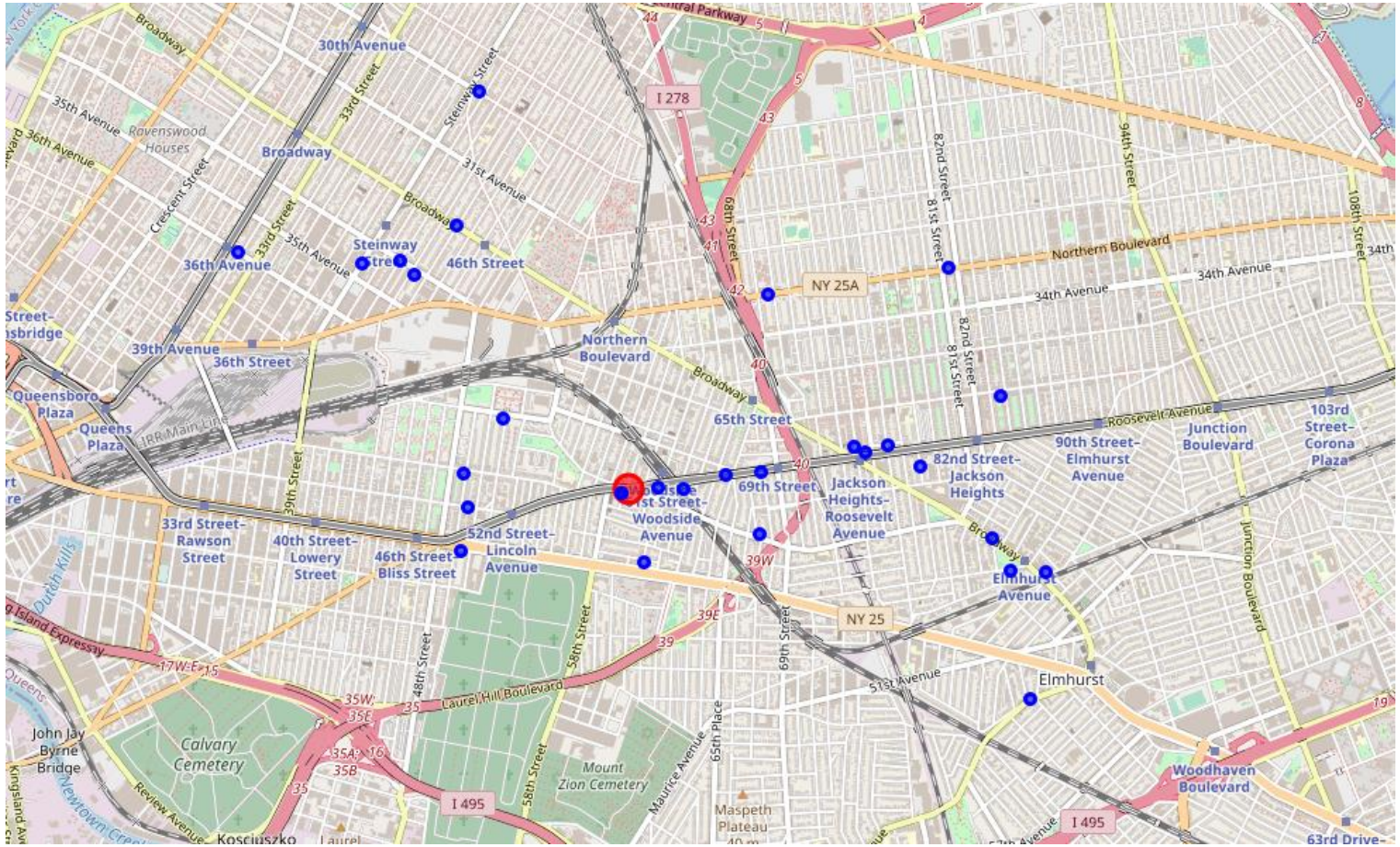
City Comparison

- We will attempt to request restaurant data from foursquares and then plot them on a map to see which city has the most restaurants and how close they are from the center of the cities.
- When travelling to these cities it will be more beneficial to have more restaurants in the higher density when you are that city.
- If your main reason to travel is for the food, visiting a city with a higher density of restaurants will allow you to try a wider variety of food without having to travel far distances.

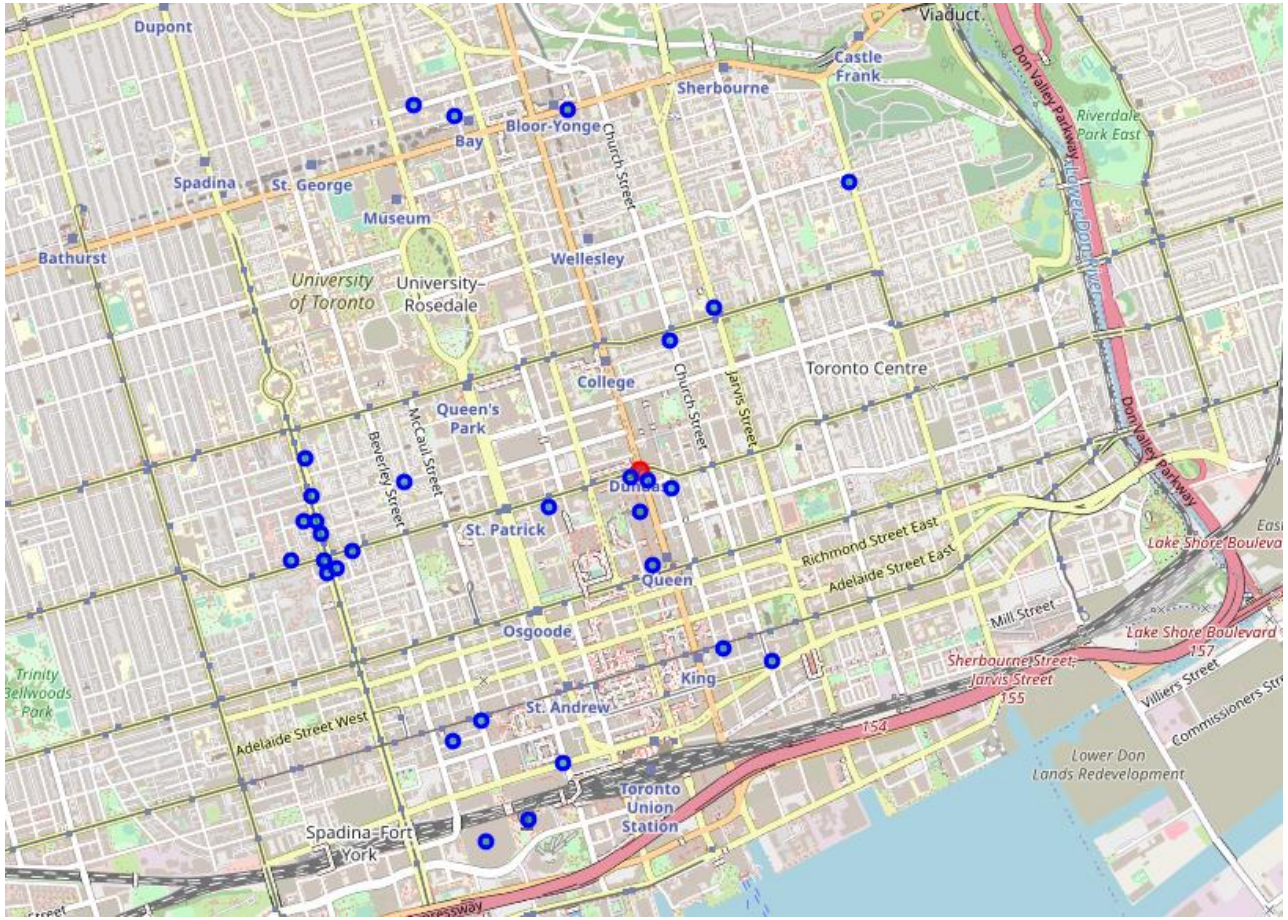
Data acquisition and clean

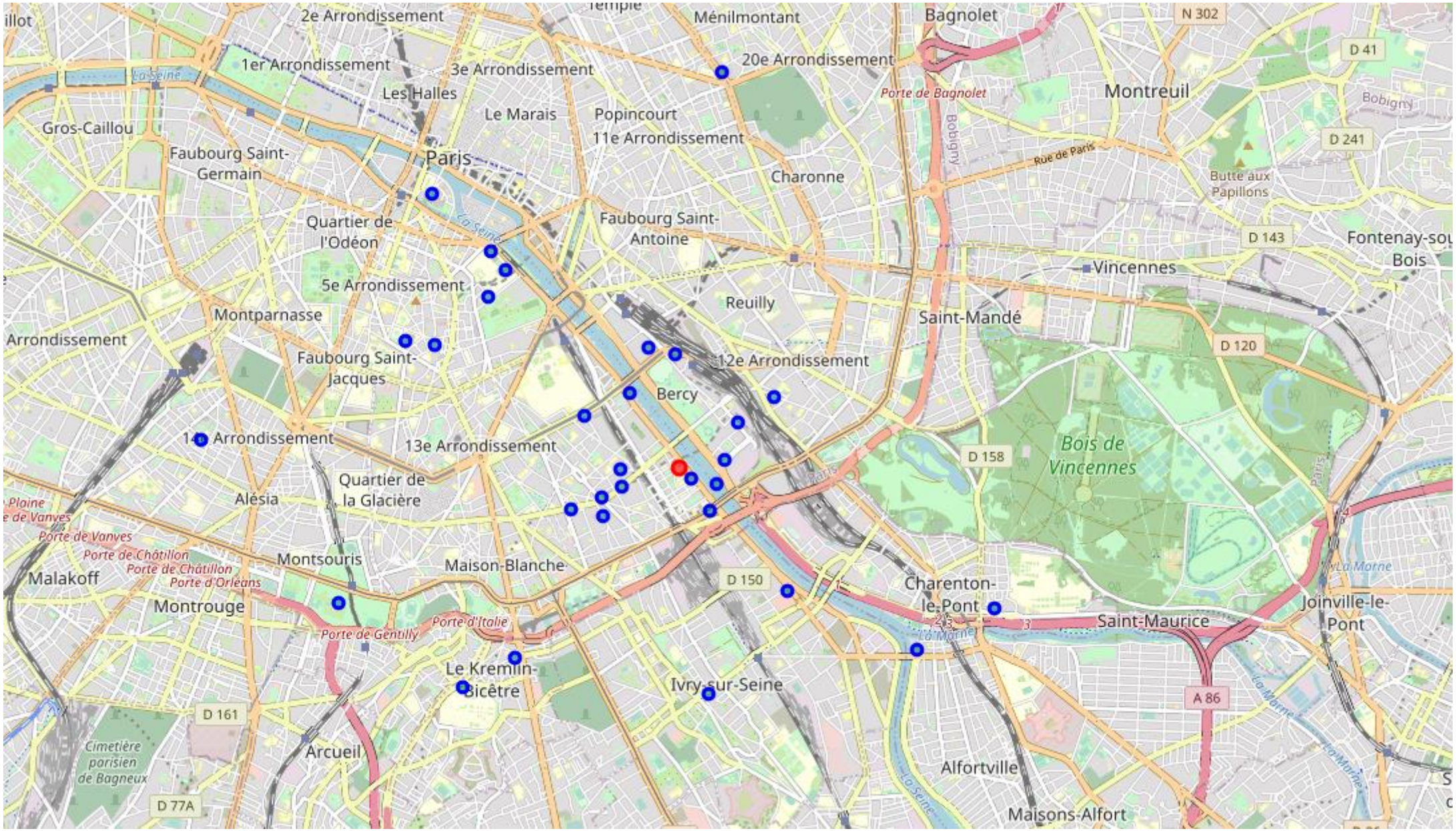
- First we will determine the center points of these cities and acquire and address to determine the coordinates of the location
- Then we will access the foursquares API using the coordinates above with a radius of 50000m and the search query of restaurant.
- Then we will filter the data to by the categories and assign it to a data frame.
- Then we will plot all of the restaurants on a map within the determined radius and based on the 3 maps we will be able to see the quantity and density of restaurants in each city.

Restaurants in New York



Restaurants in Toronto




2e Arrondissement
Ménilmontant
Bagnolet
N 302
1er Arrondissement
3e Arrondissement
20e Arrondissement
D 41
Les Halles
Porte de Bagnolet
Montreuil
Le Marais
Popincourt
11e Arrondissement
Gros-Caillou
Faubourg Saint-Germain
Paris
Charonne
Rue de Paris
Butte aux Papillons
D 241
Quartier de l'Odéon
Faubourg Saint-Antoine
D 143
Vincennes
5e Arrondissement
Reuilly
Saint-Mandé
Montparnasse
Arrondissement
D 120
Faubourg Saint-Jacques
12e Arrondissement
Bercy
14e Arrondissement
13e Arrondissement
Bois de Vincennes
D 158
Quartier de la Glacière
Alésia
Porte de Vanves
Porte de Châtillon
Montsouris
Maison-Blanche
D 150
Malakoff
Charenton-le-Pont
Joinville-le-Pont
Montrouge
Porte d'Italie
Saint-Maurice
Porte de Gentilly
Le Kremlin-Bicêtre
Ivry-sur-Seine
A 86
D 161
Arcueil
Cimetière parisien de Bagneux
Alfortville
D 77A
Maisons-Alfort

Conclusion

- After examining the graphs we can see that Paris has the most restaurants, but the density is low compared to the other 2 cities.
- New York has the highest density of restaurants which will require the least amount of travel between restaurants
- And Toronto has one highly dense area with maybe other low-density areas which will require the most travel between restaurants