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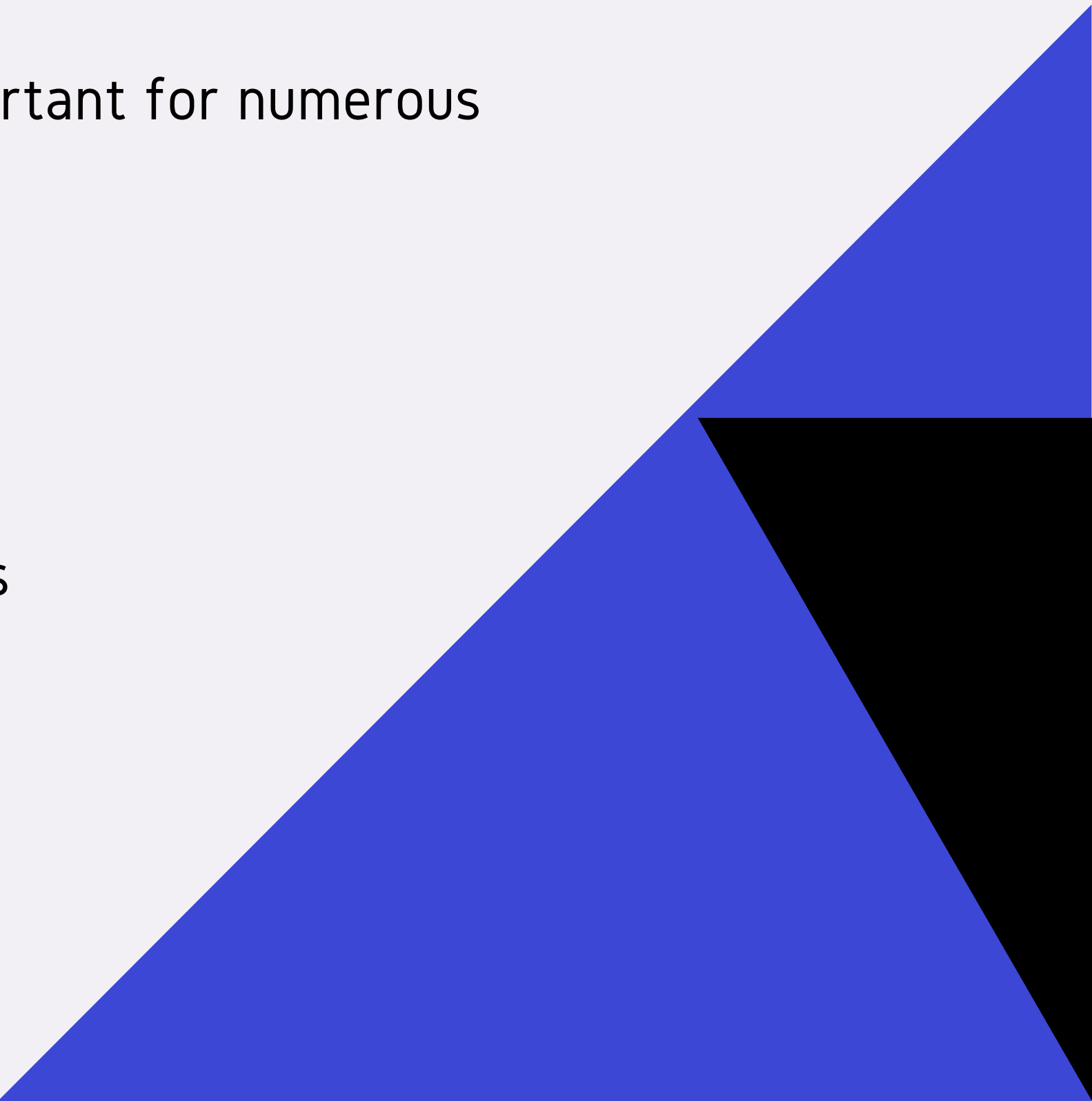
By Marc Enriel Quilatan

# **BEST CULINARY EXPERIENCE IN MONTREAL**

# KNOWING WHERE FOOD IS CENTERED IS IMPORTANT

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Having the knowledge on where the are located is important for numerous stakeholders like :

- Tourist
  - Future Restaurant Owners
  - Company's like AirBnb
  - People who want to move to where the food scene is
  - Social Media Influencers
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# WHY MONTREAL?

Montreal as a city is culturally diverse which lead to it having a diverse food scene. Also, being my hometown, I personally want to know where my research will lead me to find as the best foodie place around town.



# Data Acquisition

- **POSTAL CODES OF MONTREAL NEIGHBORHOODS**

[https://en.wikipedia.org/wiki/List\\_of\\_postal\\_codes\\_of\\_Canada:\\_H](https://en.wikipedia.org/wiki/List_of_postal_codes_of_Canada:_H)

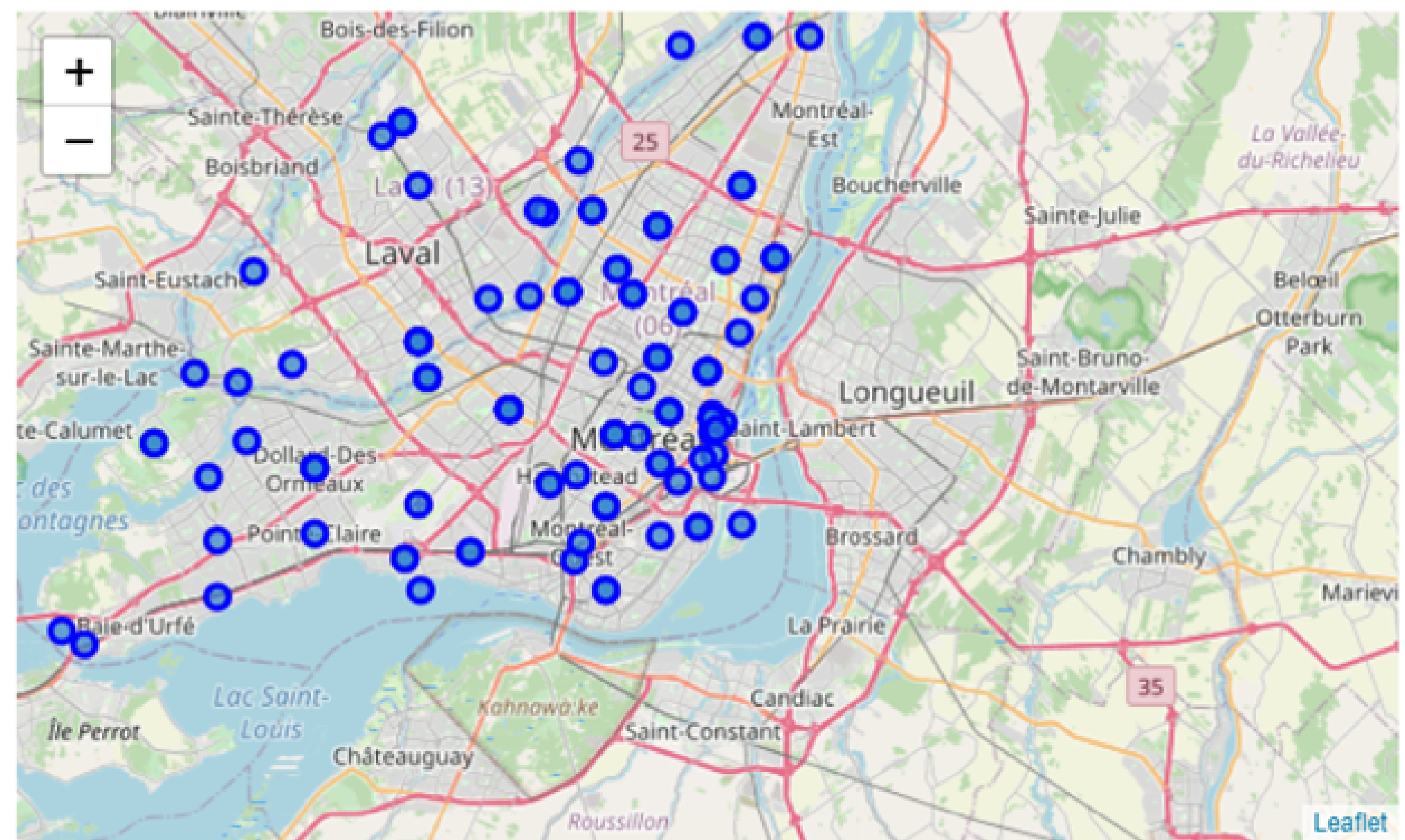
- **NOMINATIM**

Used to find the geo coordinates of the different neighborhood

- **FOURSQUARE API**

Used to find the different venues around each neighborhood according to their latitude and longitude.

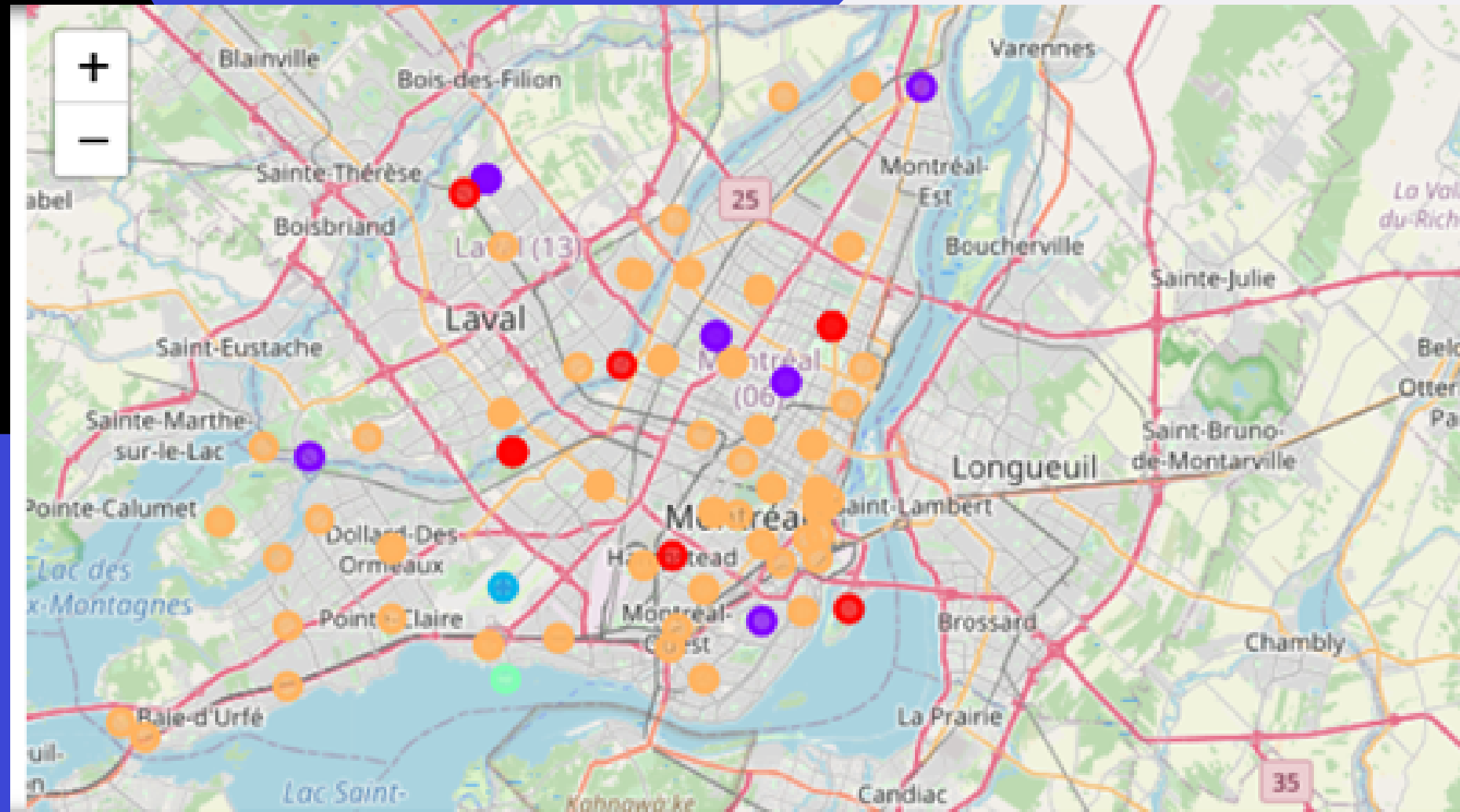




	Postal Code	Neighborhoods	Latitude	Longitude
0	H1A	Pointe-aux-Trembles	45.667824	-73.505133
1	H2A	Saint-Michel, Montreal	45.568702	-73.621495
2	H3A	Downtown Montreal	45.505290	-73.564076
3	H4A	Notre-Dame-de-Grâce, Quebec	45.467967	-73.628922
4	H5A	Place Bonaventure	45.499583	-73.564917
5	H7A	Duvernay-Est, Quebec	45.593140	-73.666410
6	H9A	Dollard-des-Ormeaux	45.484230	-73.806455
7	H1B	Montreal East, Quebec	45.497216	-73.610364
8	H2B	Ahuntsic, Quebec	45.559308	-73.652702
9	H3B	Downtown Montreal	45.505290	-73.564076
10	H4B	Notre-Dame-de-Grâce, Quebec	45.467967	-73.628922
11	H5B	Place Desjardins	45.507424	-73.564455

CLEANING AND GATHERING THE DATA LED TO FINDING A HIGH AMOUNT OF NEIGHBORHOODS IN THE MONTREAL AREA (LAVAL INCLUDED). TO CUT DOWN ON THE RESULTS WE WILL NEED TO FIND A CONCENTRATED CLUSTER OF NEIGHBORHOODS THAT HAS A PREVALANCE OF RESTAURANTS

# Clustering the Neighborhoods



- The Foursquare API allowed to search for all the venues in each neighborhood.
- Each neighborhood were weighted with one hot encoding to find out what kind of venues were popular in that neighborhood
- K-Means Clustering grouped the neighborhood per type of venue weight
- The orange dots represent the neighborhood cluster that were strong in Restaurants and Café

	Neighborhoods	1st Most Common Venue	2nd Most Common Venue	3rd Most Common Venue	4th Most Common Venue	5th Most Common Venue
2	Downtown Montreal	Café	Hotel	Plaza	French Restaurant	Restaurant
3	Notre-Dame-de-Grâce, Quebec	Café	Grocery Store	Park	Pizza Place	Sandwich Place
4	Place Bonaventure	Restaurant	Café	Plaza	Portuguese Restaurant	Coffee Shop
5	Duvernay-Est, Quebec	Bank	Pharmacy	Coffee Shop	Shopping Mall	Sandwich Place
6	Dollard-des-Ormeaux	Italian Restaurant	Skating Rink	Fast Food Restaurant	Greek Restaurant	Food & Drink Shop

# DIVING DEEPER

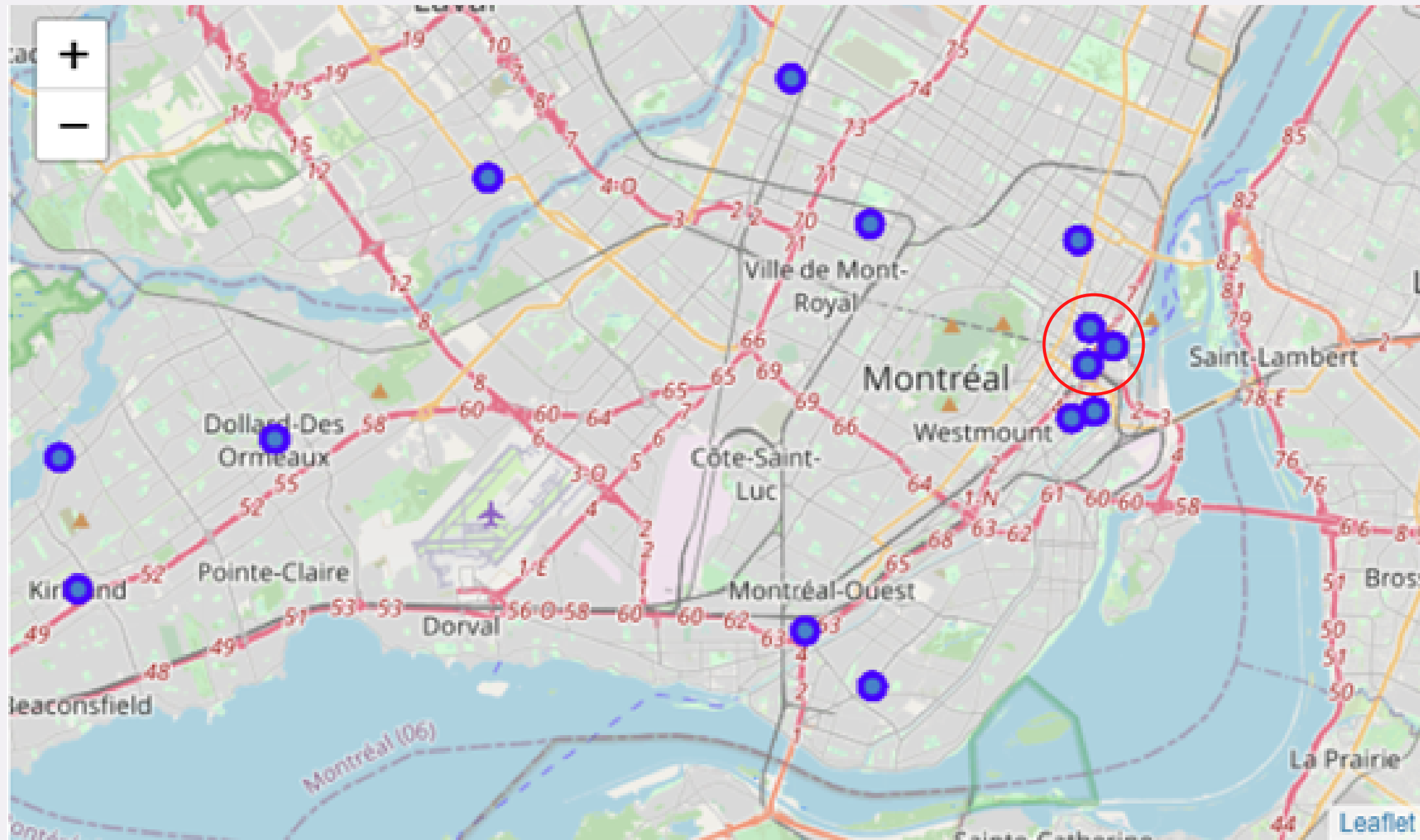
Out[197]:

Neighborhoods	Number of Restaurants
Place Desjardins	55
Old Montreal	45
Place Bonaventure	20
Griffintown, Quebec	19
Dollard-des-Ormeaux	11
LaSalle, Quebec	10
Ahuntsic, Quebec	8
Chomedey, Quebec	6
Kirkland, Quebec	5
Parc-Extension, Quebec	4
Petite-Bourgogne	4
The Plateau, Montreal	4
Saint-Pierre, Montreal	2
Sainte-Genève, Quebec	2
Anjou, Quebec	1
Senneville, Quebec	1

Diving deeper into the neighborhoods of the cluster. We look into the neighborhoods with the highest amount of restaurants,

**Place Desjardins**  
**Old Montreal**  
**Place Bonaventure**  
**Griffintown**

Are all neighborhoods that should be considered as the best places to have the best culinary experiences in Montreal



Creating a mapping of the neighborhoods, we can see that the top 3 are also closed to each other which enforces that any of the top 3 would be excellent choices to stay at.



# CONCLUSION

- In conclusion, we found that Place Desjardins, Place Bonaventure, Old Montreal are the best places for the best culinary experience in Montreal
- To improve upon this research, I believe that the use of another API than FourSquare is needed since, being a Montreal Native, a lot of restaurants are missing from the data gathering.
- In addition, the used of a different metric such as popularity of the restaurant and the rating of the restaurant, price of food can make it easier to determine which neighborhood truly hosts the best culinary experience in Montreal