

# The Battle of Neighbourhoods

Relocate to Toronto, Ontario

-- The Optimal Neighbourhood

# INTRODUCTION

- THE PROBLEM:
- Mr.X recently relocate to Toronto, Ontario with his family. He has very few information about the Toronto neighbourhoods, and he would like to know which would be the best neighbourhood for him to live.
- For this optimal neighbourhood, Mr.X hopes it will have great amenities, for example easy access to grocery stores, restaurants, parks, and recreations.
- Another bonus criteria is easy access to public transportation.

# INTRODUCTION

- THE OBJECTIVE:

This report is aimed at analyzing the neighbourhoods metrics of Toronto, grouping neighbourhoods into similar clusters, and enumerating some neighbourhoods that meet the criteria.

- THE STAKEHOLDERS OF THIS REPORT WILL BE:

- 1) people who are interested in relocating to Toronto and not familiar with this city

- 2) people who are interested in moving to a neighbourhood in Toronto with greater amenities than they live in now.

# DATA DESCRIPTION

- For this report, I will use the following data:
  - 1) to obtain data about the Toronto neighborhoods and boroughs:  
[https://en.wikipedia.org/wiki/List\\_of\\_postal\\_codes\\_of\\_Canada:\\_M](https://en.wikipedia.org/wiki/List_of_postal_codes_of_Canada:_M)
  - 2) to obtain data about the Toronto neighbourhoods' geographical coordinates: [http://cocl.us/Geospatial\\_data](http://cocl.us/Geospatial_data)
  - 3) to obtain venues details: Foursquare API
  - 4) to obtain coordinates of specific locations: Google Maps API

# METHODOLOGY

First 10 rows of a dataframe that contains boroughs, neighbourhoods, and geographical coordinates of the city of Toronto

|   | Postcode | Borough          | Neighborhood                     | Postal Code | Latitude  | Longitude  |
|---|----------|------------------|----------------------------------|-------------|-----------|------------|
| 0 | M3A      | North York       | Parkwoods                        | M3A         | 43.753259 | -79.329656 |
| 1 | M4A      | North York       | Victoria Village                 | M4A         | 43.725882 | -79.315572 |
| 2 | M5A      | Downtown Toronto | Harbourfront                     | M5A         | 43.654260 | -79.360636 |
| 3 | M6A      | North York       | Lawrence Heights, Lawrence Manor | M6A         | 43.718518 | -79.464763 |
| 4 | M7A      | Downtown Toronto | Queen's Park                     | M7A         | 43.662301 | -79.389494 |
| 5 | M9A      | Queen's Park     | Queen's Park                     | M9A         | 43.667856 | -79.532242 |
| 6 | M1B      | Scarborough      | Rouge, Malvern                   | M1B         | 43.806686 | -79.194353 |
| 7 | M3B      | North York       | Don Mills North                  | M3B         | 43.745906 | -79.352188 |
| 8 | M4B      | East York        | Woodbine Gardens, Parkview Hill  | M4B         | 43.706397 | -79.309937 |
| 9 | M5B      | Downtown Toronto | Ryerson, Garden District         | M5B         | 43.657162 | -79.378937 |

# METHODOLOGY

Use Folium to generate a map of Toronto with all neighbourhoods and boroughs.





# METHODOLOGY

Use Foursquare API to generate top 10 venues for each neighbour in Toronto.  
(below is an example of top 10 venues in Harbourfront neighbourhood.

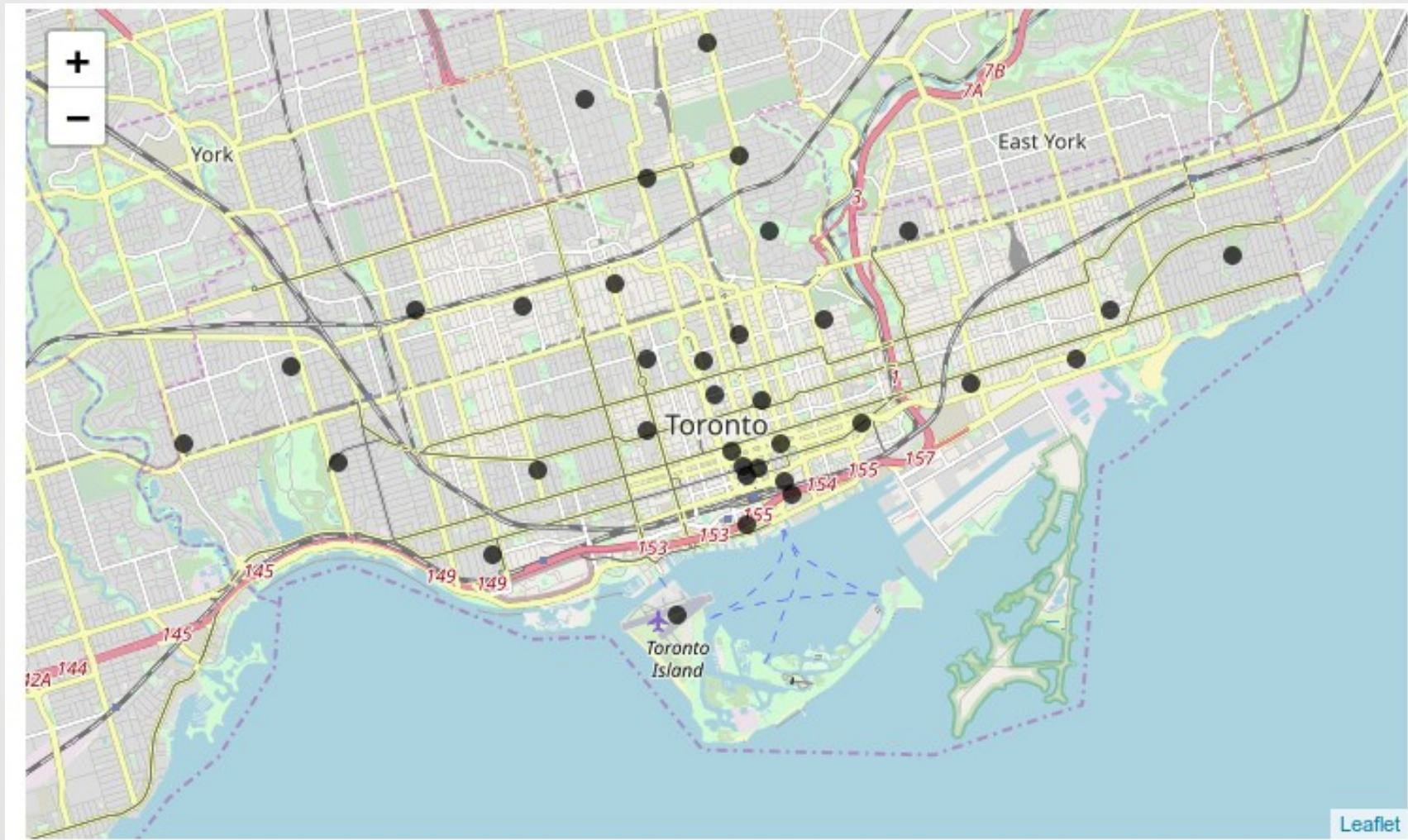
|   | name                             | categories           | lat       | lng        |
|---|----------------------------------|----------------------|-----------|------------|
| 0 | Roselle Desserts                 | Bakery               | 43.653447 | -79.362017 |
| 1 | Tandem Coffee                    | Coffee Shop          | 43.653559 | -79.361809 |
| 2 | Cooper Koo Family YMCA           | Gym / Fitness Center | 43.653191 | -79.357947 |
| 3 | Body Blitz Spa East              | Spa                  | 43.654735 | -79.359874 |
| 4 | Impact Kitchen                   | Restaurant           | 43.656369 | -79.356980 |
| 5 | Morning Glory Cafe               | Breakfast Spot       | 43.653947 | -79.361149 |
| 6 | Dominion Pub and Kitchen         | Pub                  | 43.656919 | -79.358967 |
| 7 | Corktown Common                  | Park                 | 43.655618 | -79.356211 |
| 8 | The Distillery Historic District | Historic Site        | 43.650244 | -79.359323 |
| 9 | Figs Breakfast & Lunch           | Breakfast Spot       | 43.655675 | -79.364503 |

# RESULTS

|   | Neighborhood                                      | 1st Most Common Venue | 2nd Most Common Venue | 3rd Most Common Venue         | 4th Most Common Venue | 5th Most Common Venue | 6th Most Common Venue | 7th Most Common Venue  | 8th Most Common Venue | 9th Most Common Venue | 10th Most Common Venue |
|---|---|-----------------------|-----------------------|-------------------------------|-----------------------|-----------------------|-----------------------|------------------------|-----------------------|-----------------------|------------------------|
| 0 | Adelaide,King,Richmond                            | Coffee Shop           | Café                  | Bar                           | Steakhouse            | Burger Joint          | Sushi Restaurant      | Hotel                  | Thai Restaurant       | Asian Restaurant      | Pizza Place            |
| 1 | Berczy Park                                       | Coffee Shop           | Cocktail Bar          | Steakhouse                    | Cheese Shop           | Café                  | Farmers Market        | Beer Bar               | Bakery                | Seafood Restaurant    | Gourmet Shop           |
| 2 | Brockton,Exhibition Place,Parkdale Village        | Café                  | Coffee Shop           | Breakfast Spot                | Yoga Studio           | Bakery                | Gym                   | Furniture / Home Store | Intersection          | Italian Restaurant    | Convenience Store      |
| 3 | Business Reply Mail Processing Centre 969 Eastern | Light Rail Station    | Pizza Place           | Smoke Shop                    | Brewery               | Spa                   | Farmers Market        | Fast Food Restaurant   | Burrito Place         | Restaurant            | Recording Studio       |
| 4 | CN Tower,Bathurst Quay,Island airport,Harbourf... | Airport Terminal      | Airport Lounge        | Airport Service               | Harbor / Marina       | Rental Car Location   | Sculpture Garden      | Boat or Ferry          | Bar                   | Boutique              | Airport                |
| 5 | Cabbagetown,St. James Town                        | Coffee Shop           | Italian Restaurant    | Café                          | Bakery                | Park                  | Pizza Place           | Pub                    | Restaurant            | Liquor Store          | Playground             |
| 6 | Central Bay Street                                | Coffee Shop           | Café                  | Italian Restaurant            | Japanese Restaurant   | Ice Cream Shop        | Burger Joint          | Sandwich Place         | Salad Place           | Gym / Fitness Center  | Juice Bar              |
| 7 | Chinatown,Grange Park,Kensington Market           | Café                  | Vietnamese Restaurant | Vegetarian / Vegan Restaurant | Dumpling Restaurant   | Coffee Shop           | Chinese Restaurant    | Bar                    | Bakery                | Mexican Restaurant    | Noodle House           |
| 8 | Christie  | Grocery Store         | Café                  | Park                          | Nightclub             | Restaurant            | Diner                 | Baby Store             | Athletics & Sports    | Italian Restaurant    | Candy Store            |
| 9 | Church and Wellesley                              | Coffee Shop           | Sushi Restaurant      | Japanese Restaurant           | Gay Bar               | Restaurant            | Yoga Studio           | Men's Store            | Pizza Place           | Café                  | Burger Joint           |



# RESULTS



# CONCLUSION

- Based on examining each cluster of neighbourhoods, there are at least two options for Mr.X:
- 1) Christie in Downtown Toronto:
  - grocery stores, restaurants, and parks nearby
- 2) Business Reply Mail Processing Centre 969 in East Toronto:
  - easy access to Toronto Light Rail, certain amount of grocery stores, restaurants, and some recreations nearby