

## Data Section

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

We used use Etobicoke dataset from city of Toronto datasets which we scrapped from on Week 3 Assignment and the population dataset based on postal code is obtain from canadas official website (<https://www12.statcan.gc.ca/census-recensement/2016/dp-pd/hlt-fst/pd-pl/Tables/File.cfm?T=1201&SR=1&RPP=9999&PR=0&CMA=0&CSD=0&S=22&O=A&Lang=Eng&OFT=CSV>). Dataset consisting postal code and population .

### *Foursquare API Data:*

We will need data about different venues in different neighborhoods of that specific borough. In order to gain that information we will use "Foursquare" locational information. Foursquare is a location data provider with information about all manner of venues and events within an area of interest. Such information includes venue names, locations, menus and even photos. As such, the foursquare location platform will be used as the sole data source since all the stated required information can be obtained through the API.

After finding the list of neighborhoods, we then connect to the Foursquare API to gather information about venues inside each and every neighborhood. For each neighborhood, we have chosen the radius to be 1000meter.

The data retrieved from Foursquare contained information of venues within a specified distance of the longitude and latitude of the postcodes. The information obtained per venue as follows:

1. Neighborhood
2. Neighborhood Latitude
3. Neighborhood Longitude
4. Venue
5. Name of the venue e.g. the name of a store or restaurant and type
6. Venue Latitude
7. Venue Longitude
8. Venue Category

Canada Geography Dataset from week 3

	Postal Code	Borough	Neighbourhood
0	M3A	North York	Parkwoods
1	M4A	North York	Victoria Village
2	M5A	Downtown Toronto	Regent Park, Harbourfront
3	M6A	North York	Lawrence Manor, Lawrence Heights
4	M7A	Downtown Toronto	Queen's Park, Ontario Provincial Government

Neighborhood Latitude and Longitude Dataset Week 3

Out [9] :

	Postal Code	Latitude	Longitude
0	M1B	43.806686	-79.194353
1	M1C	43.784535	-79.160497
2	M1E	43.763573	-79.188711
3	M1G	43.770992	-79.216917
4	M1H	43.773136	-79.239476

Population dataset

Out [10] :

	Geographic code	Geographic name	Province or territory	Incompletely enumerated Indian reserves and Indian settlements, 2016	Population, 2016	Total private dwellings, 2016	Private dwellings occupied by usual residents, 2016
0	01	Canada	NaN	T	35151728.0	15412443.0	14072079.0
1	A0A	A0A	Newfoundland and Labrador	NaN	46587.0	26155.0	19426.0
2	A0B	A0B	Newfoundland and Labrador	NaN	19792.0	13658.0	8792.0
3	A0C	A0C	Newfoundland and Labrador	NaN	12587.0	8010.0	5606.0
4	A0E	A0E	Newfoundland and Labrador	NaN	22294.0	12293.0	9603.0

The georapical coordinate of Etobicoke are 43.6435559, -79.5656326.



Map of Etobicoke