Toronto´s

Identifying the most touristic clusters

Data

- City´s borders:
- https://en.wikipedia.org/wiki/List_of_postal_codes_of_Canada:_M
- Foursquare API´s
- Venue data

Data

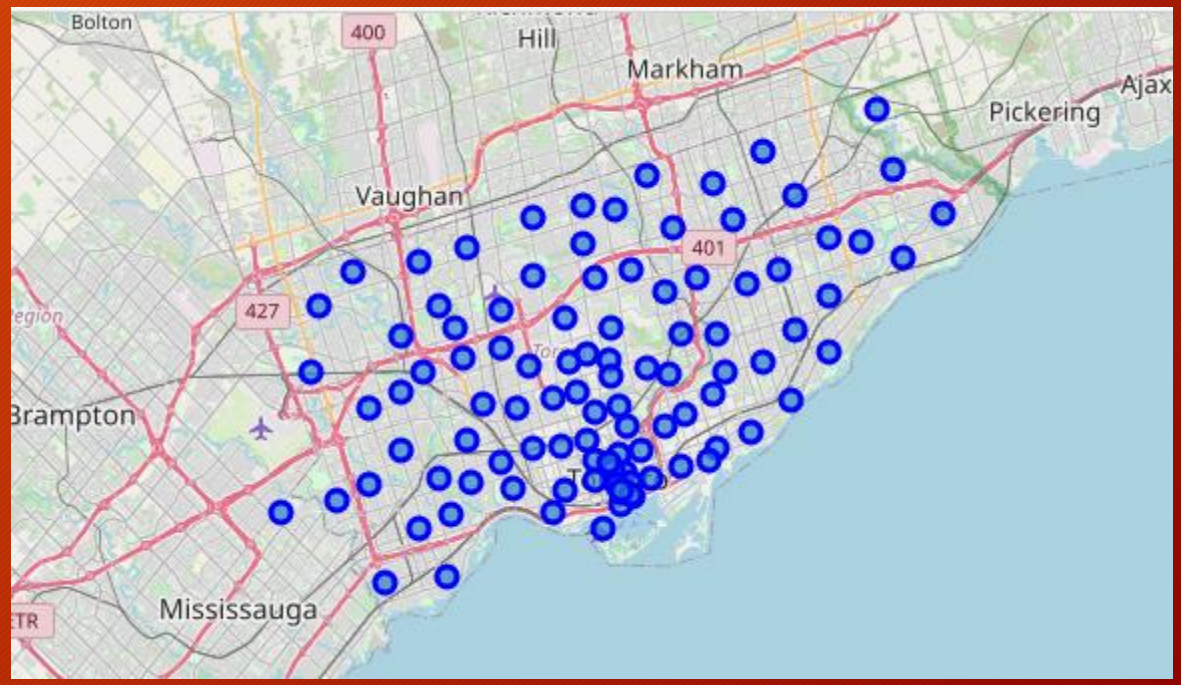
- City´s borders:

https://en.wikipedia.org/wiki/List_of_postal_codes_of_Canada:_M

	Postal Code	Borough	Neighborhood
0	M1A	Not assigned	Not assigned
1	M2A	Not assigned	Not assigned
2	M3A	North York	Parkwoods
3	M4A	North York	Victoria Village
4	M5A	Downtown Toronto	Regent Park, Harbourfront

- Foursquare API´s

Venue data



Application of Coffee Shop density as a mean of Touristic places identification

In [22]:
```
toronto_coffee = toronto_venues.loc[(toronto_venues['Venue Category'] == 'Coffee Shop') | (toronto_venues['Venue Category'] == 'Café')]
toronto_coffee.shape
```

Out[22]: (273, 7)

In [29]:
```
# set number of clusters
kclusters = 15

toronto_coffee_cluster = toronto_coffee[['Venue Latitude','Venue Longitude']]

# run k-means clustering
kmeans = KMeans(n_clusters=kclusters, random_state=2).fit(toronto_coffee_cluster)

# check cluster labels generated for each row in the dataframe
#kmeans.labels_[0:10]
kmeans.labels_
```

Tourisitc clusters (k_means)

Cluster Labels	Venue Latitude	Venue Longitude	Venue	Neighborhood
0	43.647621	-79.379600	123	Regent Park, Harbourfront-Regent Park, Harbour...
10	43.659308	-79.389663	47	Church and Wellesley-Church and Wellesley-Chur...
6	43.663027	-79.353859	23	The Danforth West, Riverdale-The Danforth West...
13	43.672061	-79.410682	16	Summerhill West, Rathnelly, South Hill, Forest...
1	43.716671	-79.401449	10	North Toronto West, Lawrence Park-North Toront...