# The Battle of Neighborhoods

**Background:**

A Chinese couple have earned a lot of money during their lives in China, they want to go to Toronto relax a few years. They ask me if I have a good idea where to open the mall it the best.

**Problem:**

So the problem is ——In the city of Toronto, if a property developer is looking to open a new shopping mall, where would you recommend that they open it?
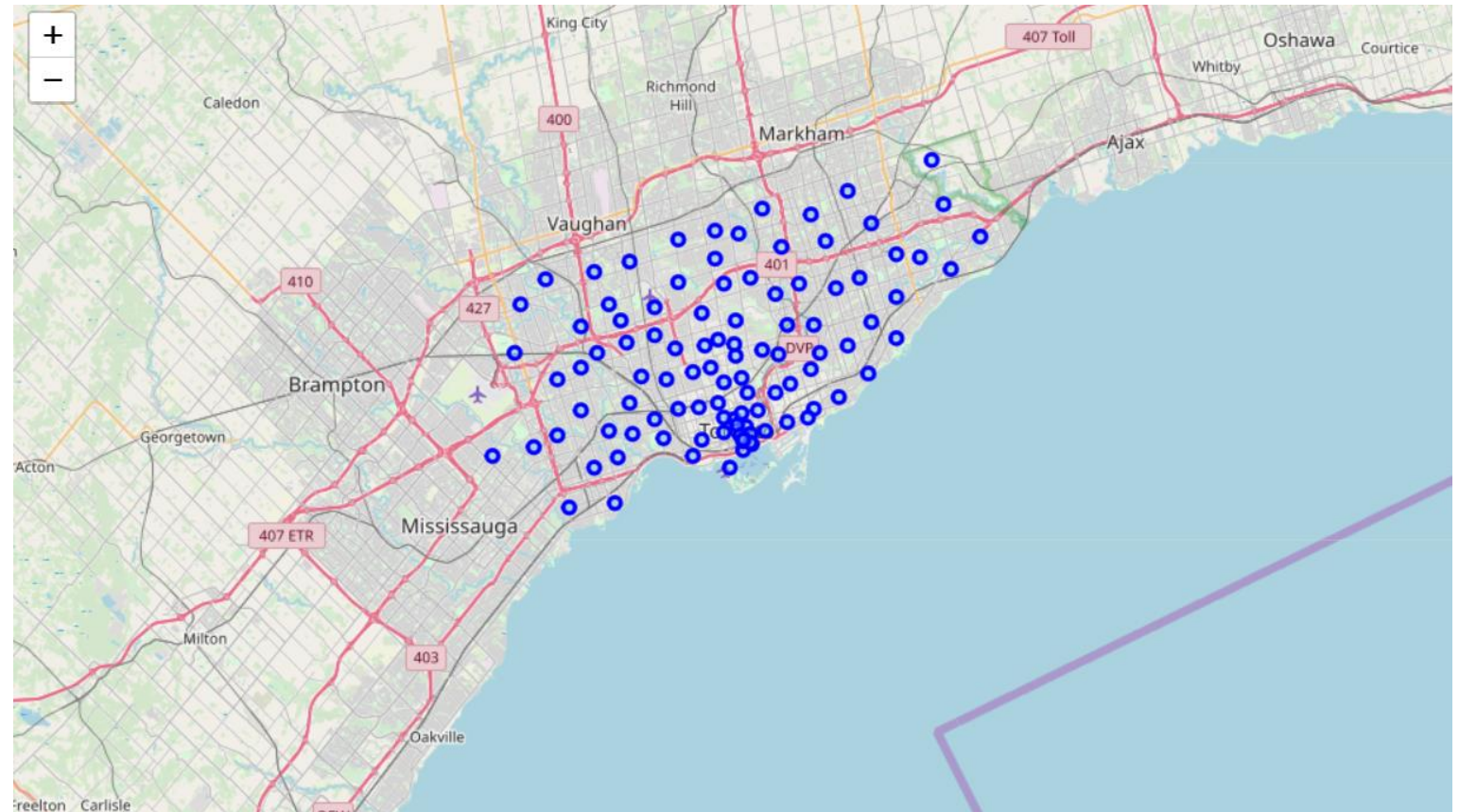
We need:

The neighborhoods in Toronto.

Latitude and longitude coordinates of those Neighborhoods.

Foursquare API to get Venue data.

**Methodology**

*k*-means is the methodology we use.

**The plot of Neighborhoods in Toronto**

# The section of clusters data

| | Neighborhood | Shopping Mall | Cluster Labels |
|---|---|---|---|
| 51 | Harbourfront, Regent Park | 0.000000 | 0 |
| 64 | Lawrence Park | 0.000000 | 0 |
| 62 | L'Amoreaux West | 0.000000 | 0 |
| 58 | Humewood-Cedarvale | 0.000000 | 0 |
| 56 | Humber Bay, King's Mill Park, Kingsway Park So... | 0.000000 | 0 |
| 55 | Humber Bay Shores, Mimico South, New Toronto | 0.000000 | 0 |
| 53 | Highland Creek, Rouge Hill, Port Union | 0.000000 | 0 |
| 52 | High Park, The Junction South | 0.000000 | 0 |
| 101 | Woodbine Heights | 0.000000 | 0 |

| | | | |
|---|---|---|---|
| 95 | Westmount | 0.018182 | 1 |
| 98 | Willowdale West | 0.018519 | 1 |
| 2 | Agincourt North, L'Amoreaux East, Milliken, St... | 0.010204 | 1 |
| 1 | Agincourt | 0.020000 | 1 |
| 5 | Bathurst Manor, Downsview North, Wilson Heights | 0.018868 | 1 |
| 90 | The Junction North, Runnymede | 0.013514 | 1 |
| 44 | First Canadian Place, Underground city | 0.010000 | 1 |
| 76 | Rosedale | 0.010000 | 1 |
| 27 | Commerce Court, Victoria Hotel | 0.010000 | 1 |

| | | | |
|---|---|---|---|
| | Cedarbrae | | |
| 0 | Adelaide, King, Richmond | 0.010000 | 1 |
| 6 | Bayview Village | 0.042553 | 2 |
| 72 | Northwood Park, York University | 0.025000 | 2 |
| 59 | Islington Avenue | 0.043478 | 2 |
| 97 | Willowdale South | 0.025000 | 2 |
| 57 | Humber Summit | 0.034483 | 2 |

# Thank you !