



The Battle of Neighborhoods

CHOOSE A GREATER TORONTO AREA NEIGHBORHOOD TO START
BUSINESS UNDER THE CORONAVIRUS PANDEMIC IN YEAR 2020

Introduction - Greater Toronto Area

- 6.5 million population
 - 20% of Canada's population
 - 20% of Canada's GDP
 - Around 6000 confirmed cases of COVID-19 in May, 2020

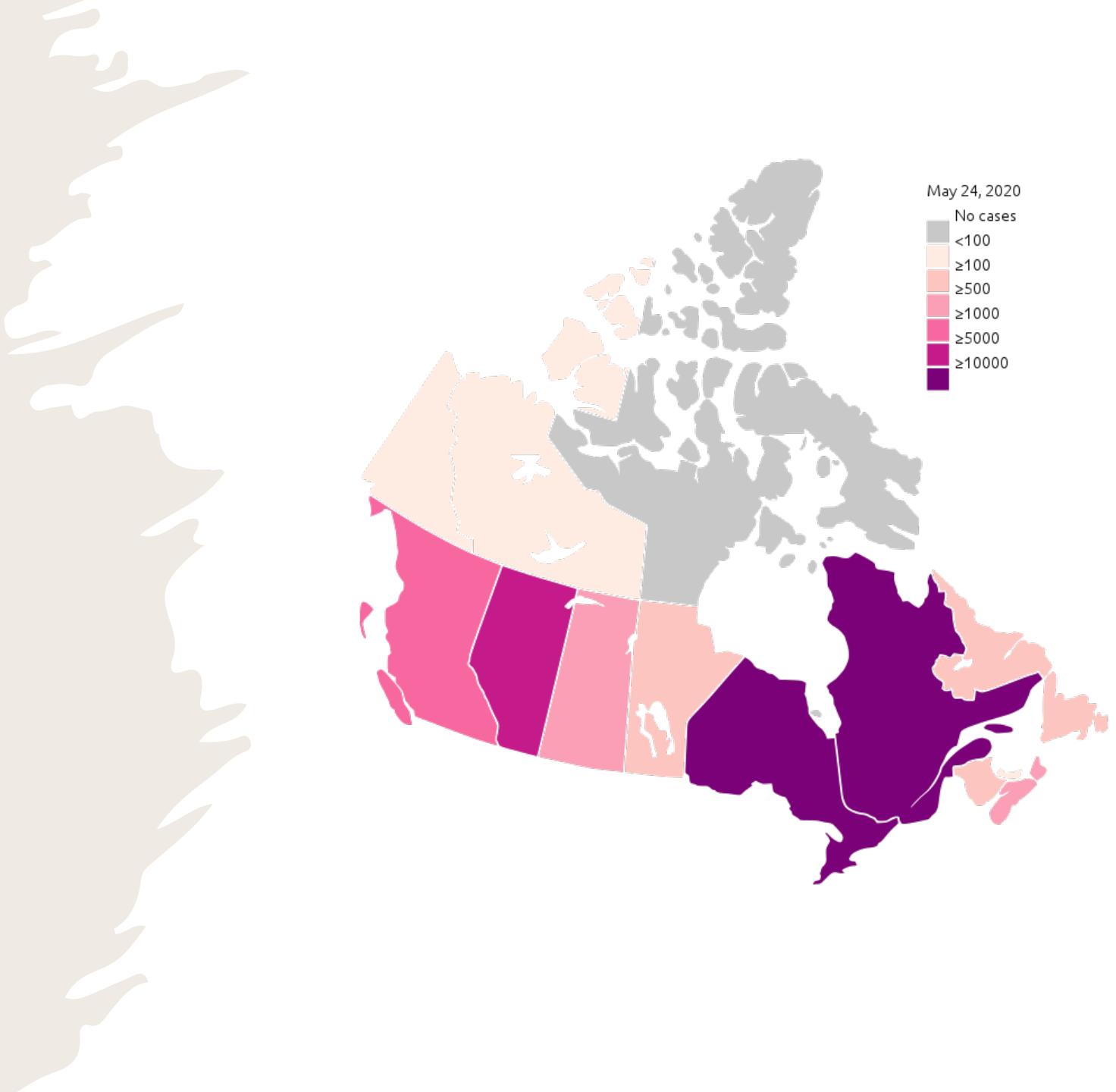




Our purposes

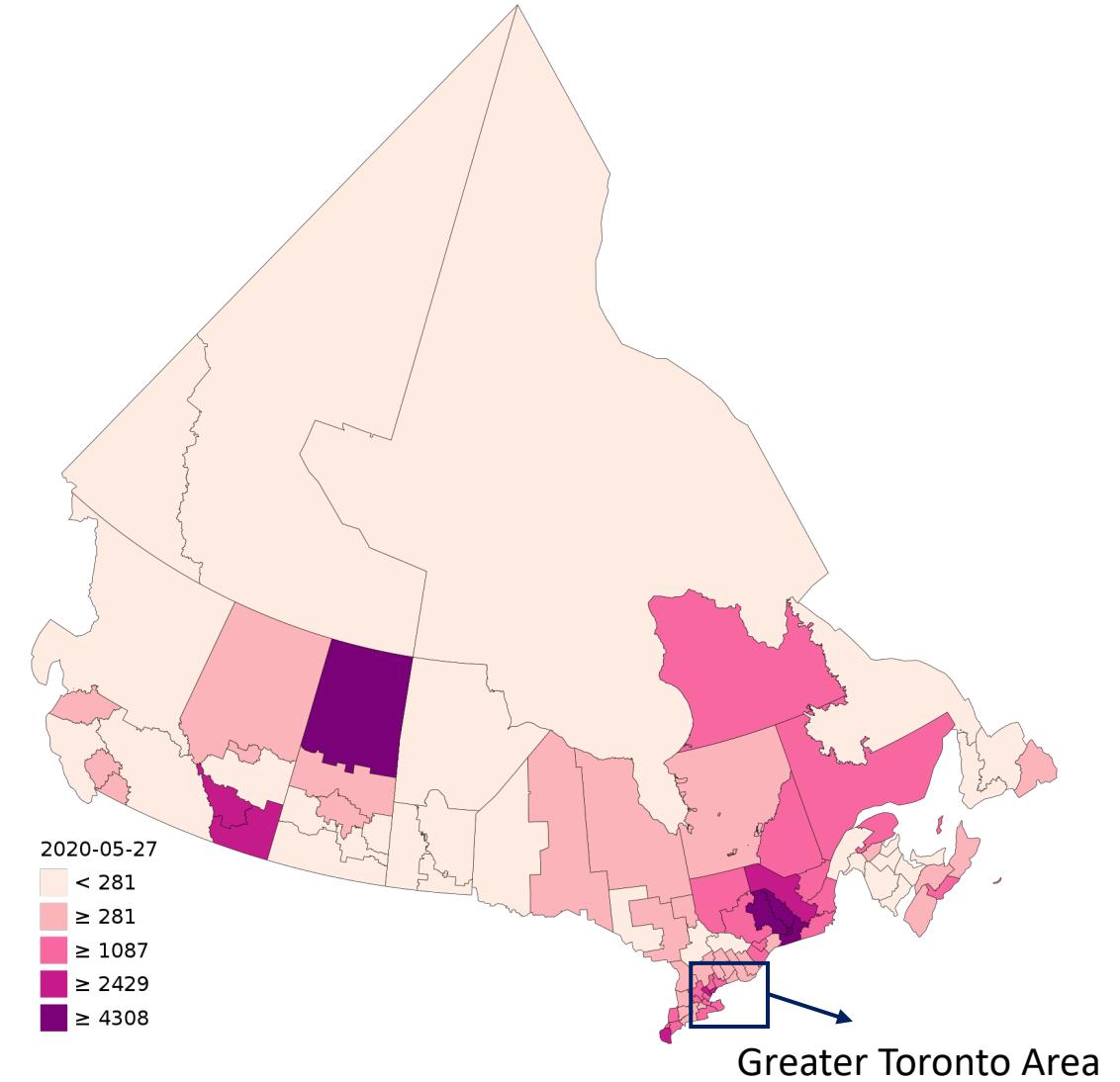
1. Choose a city in Greater Toronto Area
has less cases of COVID-19
2. Analysis its neighborhood for new
immigrants and business owners in 2020

Coronavirus Pandemic in Canada



Coronavirus Pandemic in Ontario

Cases per million residents by health region



Row_ID	Accurate_Episode_Date	Age_Group	Client_Gender	Case_AcquisitionInfo	Outcome1	Outbreak_Related	Reporting_PHU	Reporting_PHU_Address
1	2020-04-29	50s	FEMALE	Neither	Resolved	Yes	Peel Public Health	7120 Hurontario Street
2	2020-05-09	20s	FEMALE	Information pending	Resolved	Yes	Peel Public Health	7120 Hurontario Street
3	2020-05-23	50s	MALE	Information pending	Not Resolved	Yes	York Region Public Health Services	17250 Yonge Street
4	2020-05-17	30s	FEMALE	Contact of a confirmed case	Not Resolved	Yes	Renfrew County and District Health Unit	7 International Drive
5	2020-05-17	30s	FEMALE	Contact of a confirmed case	Not Resolved	Yes	Toronto Public Health	277 Victoria Street, 5th Floor

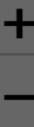
Data Process and Selection

CONFIRMED POSITIVE CASES OF COVID-19 IN ONTARIO FROM [HTTPS://DATA.ONTARIO.CA/DATASET/F4112442-BDC8-45D2-BE3C-12EFAE72FB27/RESOURCE/455FD63B-603D-4608-8216-7D8647F43350/DOWNLOAD/CONPOSCVIDLOC.CSV](https://data.ontario.ca/dataset/f4112442-bdc8-45d2-be3c-12efae72fb27/resource/455fd63b-603d-4608-8216-7d8647f43350/download/conposcovidloc.csv)



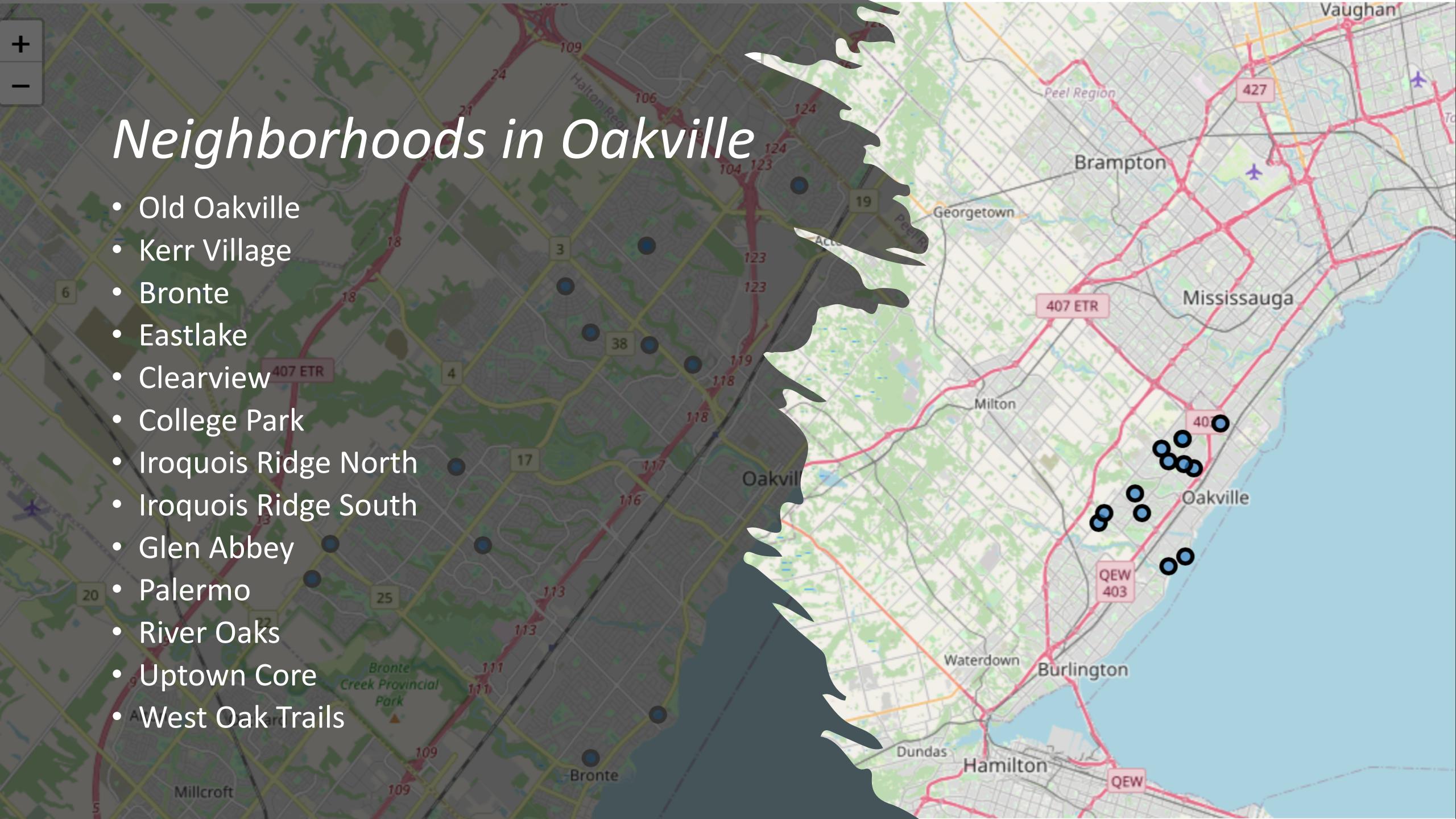
*Top 10 cities in
Ontario have the
most confirmed
coronavirus cases:*

Reporting_PHU_City	Number of Cases
0	Toronto 9555
1	Mississauga 4054
2	Newmarket 2285
3	Ottawa 1917
4	Whitby 1399
5	Waterloo 1050
6	Windsor 910
7	Hamilton 642
8	Thorold 630
9	Oakville 623



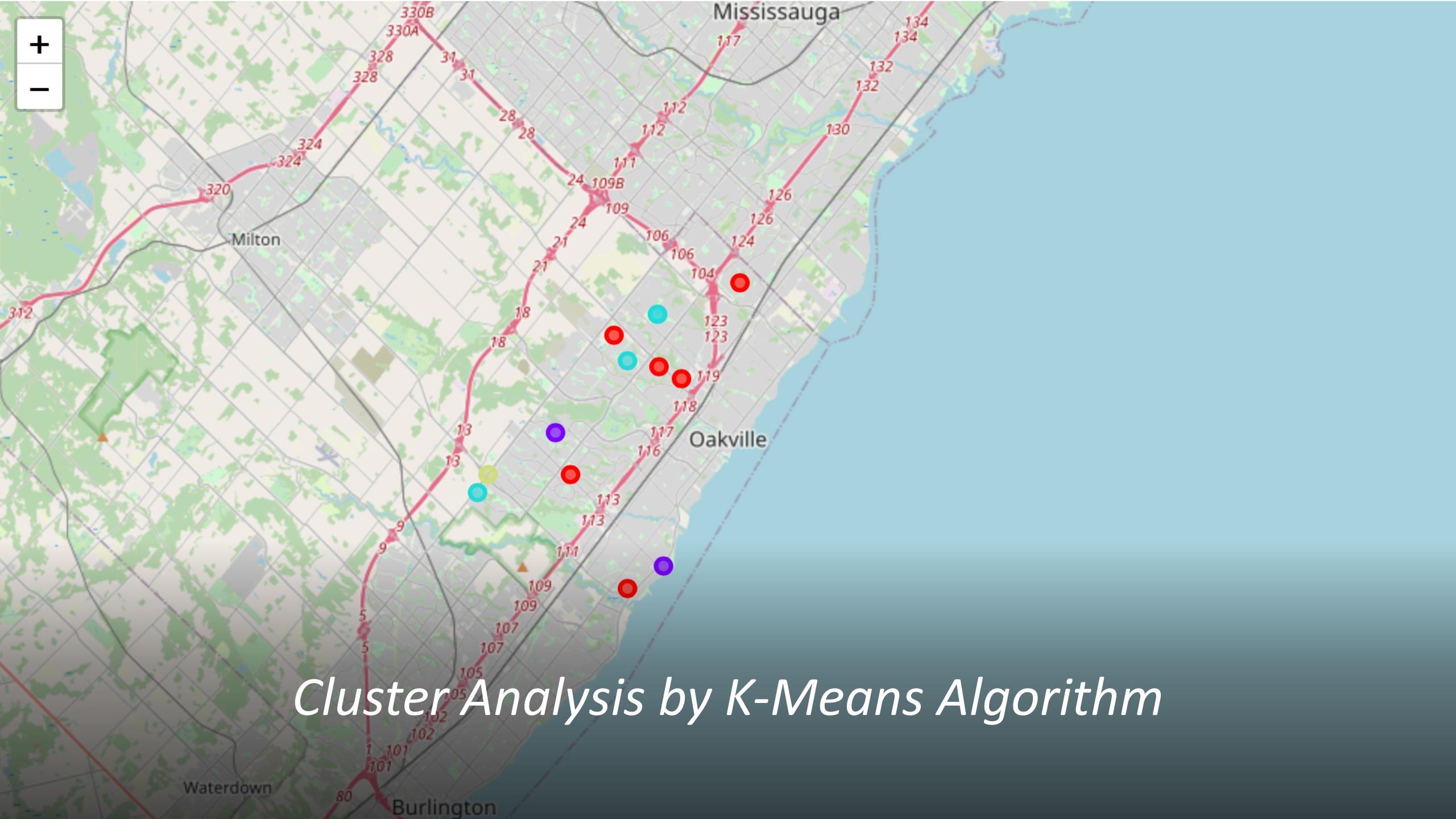
Neighborhoods in Oakville

- Old Oakville
- Kerr Village
- Bronte
- Eastlake
- Clearview
- College Park
- Iroquois Ridge North
- Iroquois Ridge South
- Glen Abbey
- Palermo
- River Oaks
- Uptown Core
- West Oak Trails



1	Clearview	Pizza Place	Asian Restaurant	Park	Portuguese Restaurant	Deli / Bodega	Construction & Landscaping	Convenience Store	Cosmetics Shop	Cuban Restaurant
2	College Park	Restaurant	Pizza Place	Deli / Bodega	Bus Station	Burrito Place	Pub	College Bookstore	Sandwich Place	Bookstore
3	Eastlake	Pizza Place	Sandwich Place	Health Food Store	Fast Food Restaurant	Mediterranean Restaurant	Coffee Shop	Gastropub	Gas Station	Swim School
4	Glen Abbey	Gym	Pharmacy	Sandwich Place	Fast Food Restaurant	Ice Cream Shop	Convenience Store	Restaurant	Pizza Place	Beer Store
5	Iroquois Ridge North	Playground	Pizza Place	Dog Run	Pool	Gas Station	French Restaurant	Fast Food Restaurant	Falafel Restaurant	Electronics Store
6	Iroquois Ridge South	Playground	Pizza Place	Dog Run	Pool	Gas Station	French Restaurant	Fast Food Restaurant	Falafel Restaurant	Electronics Store
7	Kerr Village	Playground	Home Service	Stables	Coffee Shop	Gas Station	French Restaurant	Fast Food Restaurant	Falafel Restaurant	Electronics Store
8	Old Oakville	Park	Construction & Landscaping	Video Game Store	Grocery Store	Gastropub	Gas Station	French Restaurant	Fast Food Restaurant	Falafel Restaurant
9	Palermo	Gastropub	Middle Eastern Restaurant	Video Game Store	Grocery Store	Gas Station	French Restaurant	Fast Food Restaurant	Falafel Restaurant	Electronics Store
10	River Oaks	Playground	Sandwich Place	Coffee Shop	Gastropub	Gas Station	French Restaurant	Fast Food Restaurant	Falafel Restaurant	Electronics Store
11	Uptown Core	Electronics Store	Clothing Store	Fast Food Restaurant	Falafel Restaurant	Massage Studio	Liquor Store	Indian Restaurant	Ice Cream Shop	Grocery Store
12	West Oak	Park	Video Game	Grocery	Gastropub	Gas Station	French	Fast Food	Falafel	Electronics

*The Most Common
Venue for Each
Neighborhood*



Results - Cluster 1

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
2	Bronte	Restaurant	Gourmet Shop	Thai Restaurant	Coffee Shop	Italian Restaurant	Café	French Restaurant	Pizza Place	Cuban Restaurant	Pharmacy
3	Eastlake	Pizza Place	Sandwich Place	Health Food Store	Fast Food Restaurant	Mediterranean Restaurant	Coffee Shop	Gastropub	Gas Station	Swim School	Bank
4	Clearview	Pizza Place	Asian Restaurant	Park	Portuguese Restaurant	Deli / Bodega	Construction & Landscaping	Convenience Store	Cosmetics Shop	Cuban Restaurant	Video Game Store
5	College Park	Restaurant	Pizza Place	Deli / Bodega	Bus Station	Burrito Place	Pub	College Bookstore	Sandwich Place	Bookstore	Sports Bar
8	Glen Abbey	Gym	Pharmacy	Sandwich Place	Fast Food Restaurant	Ice Cream Shop	Convenience Store	Restaurant	Pizza Place	Beer Store	Bank
11	Uptown Core	Electronics Store	Clothing Store	Fast Food Restaurant	Falafel Restaurant	Massage Studio	Liquor Store	Indian Restaurant	Ice Cream Shop	Grocery Store	Video Game Store

- Cluster 1 is the biggest group with 6 of 13 neighborhoods.
- The most common venues in this group are restaurants, fast food restaurants and stores.

Results - Cluster 2

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 Old Oakville	Park	Construction & Landscaping	Video Game Store	Grocery Store	Gastropub	Gas Station	French Restaurant	Fast Food Restaurant	Falafel Restaurant	Electronics Store
12 West Oak Trails	Park	Video Game Store	Grocery Store	Gastropub	Gas Station	French Restaurant	Fast Food Restaurant	Falafel Restaurant	Electronics Store	Dog Run

- Cluster 2 has 2 of 13 neighborhoods in Oakville.
- Park, Landscaping and Gas Station are more common in this neighborhood.

Results - Cluster 3

	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
1	Kerr Village	Playground	Home Service	Stables	Coffee Shop	Gas Station	French Restaurant	Fast Food Restaurant	Falafel Restaurant	Electronics Store	Dog Run
6	Iroquois Ridge North	Playground	Pizza Place	Dog Run	Pool	Gas Station	French Restaurant	Fast Food Restaurant	Falafel Restaurant	Electronics Store	Deli / Bodega
7	Iroquois Ridge South	Playground	Pizza Place	Dog Run	Pool	Gas Station	French Restaurant	Fast Food Restaurant	Falafel Restaurant	Electronics Store	Deli / Bodega
10	River Oaks	Playground	Sandwich Place	Coffee Shop	Gastropub	Gas Station	French Restaurant	Fast Food Restaurant	Falafel Restaurant	Electronics Store	Dog Run

- Cluster 3 has 4 of 13 neighborhoods in Oakville.
- These neighborhoods have more entertainment facilities, such as park, swimming pool and playground.

Results - Cluster 4

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	
9	Palermo	Gastropub	Middle Eastern Restaurant	Video Game Store	Grocery Store	Gas Station	French Restaurant	Fast Food Restaurant	Falafel Restaurant	Electronics Store	Dog Run

- Cluster 4 only has one neighborhood.
- Pubs are popular than restaurants in here, and there is few outdoor facilities.