

# BATTLE OF TORONTO NEIGHBORHOODS

Where in Toronto is the best place for you?

# Moving to Toronto?

- Toronto is considered one of the worlds' top cities that attracts of many from all backgrounds from Canada and beyond.
- Toronto offers a widely diverse cities in its' landscape, amenities, shops, restaurants, and more.
- With a large number of people migrating to major cities, neighborhoods with vastly different offerings appeal to a wide range of people.
- Everyone moves at some point in their life, whether it is a single adult or a family, finding the perfect place is always the most common question that needs to be answered.



# So much data!

- Sourced and cleaned data for Toronto neighborhoods from Wikipedia page:  
[https://en.wikipedia.org/wiki/List\\_of\\_postal\\_codes\\_of\\_Canada:\\_M](https://en.wikipedia.org/wiki/List_of_postal_codes_of_Canada:_M)
- FourSquare API provided the many venues and their location data in Toronto.
- Removed any community and neighborhood that contained “Not assigned” in data.

## Sample geographical coordinates for neighborhoods in Toronto

	Postal Code	Community	Neighborhood	Latitude	Longitude
0	M1B	Scarborough	Malvern, Rouge	43.806686	-79.194353
1	M1C	Scarborough	Rouge Hill, Port Union, Highland Creek	43.784535	-79.160497
2	M1E	Scarborough	Guildwood, Morningside, West Hill	43.763573	-79.188711
3	M1G	Scarborough	Woburn	43.770992	-79.216917
4	M1H	Scarborough	Cedarbrae	43.773136	-79.239476

# Sample of Neighborhoods and Venues

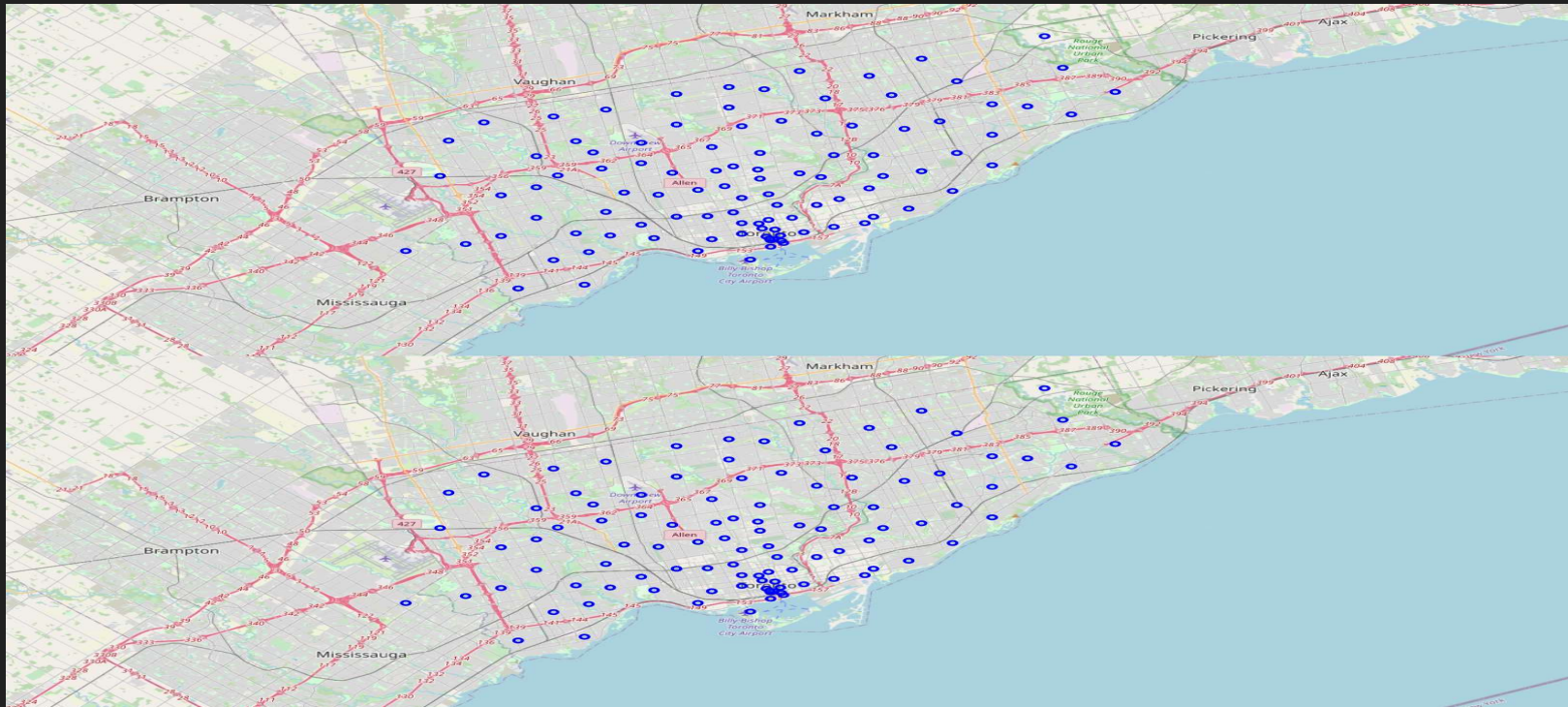
	Neighborhood	1st Most Common Venue	2nd Most Common Venue	3rd Most Common Venue	4th Most Common Venue	5th Most Common Venue	6th Most Common Venue	7th Most Common Venue	8th Most Common Venue	9th Most Common Venue	10th Most Common Venue
0	Agincourt	Lounge	Breakfast Spot	Latin American Restaurant	Skating Rink	Clothing Store	Dumpling Restaurant	Distribution Center	Dog Run	Doner Restaurant	Donut Shop
1	Alderwood, Long Branch	Pizza Place	Sandwich Place	Coffee Shop	Pub	Pharmacy	Gym	Gourmet Shop	Discount Store	Deli / Bodega	Department Store
2	Bathurst Manor, Wilson Heights, Downsview North	Bank	Coffee Shop	Pharmacy	Restaurant	Supermarket	Deli / Bodega	Sushi Restaurant	Mobile Phone Shop	Fried Chicken Joint	Ice Cream Shop
3	Bayview Village	Café	Japanese Restaurant	Bank	Chinese Restaurant	Yoga Studio	Distribution Center	Dog Run	Doner Restaurant	Donut Shop	Drugstore
4	Bedford Park, Lawrence Manor East	Sandwich Place	Italian Restaurant	Coffee Shop	Grocery Store	Thai Restaurant	Liquor Store	Comfort Food Restaurant	Juice Bar	Butcher	Café



# Data Organization

- **103** different communities
- Communities may contain *multiple* neighborhoods
- **2145** venues returned by Foursquare
- **274** unique categories

# Map of Toronto





# Data Organization

- Clustered neighborhoods together that appear in the same community.
- Listed out the **10 Most Common Venues** found in each cluster.
- People may choose neighborhoods grouped together that offer more venues that they may be interested in.
- Some may have the same top 3 venues of importance, seeing the top 10 gives helps separate neighborhoods apart from people who are looking for more specific venues later in the list.



# Sample of neighborhoods with 10 most common venues.

Neighborhood	Postal Code	Community	Latitude	Longitude	ClusterLabels	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
Malvern, Rouge	M1B	Scarborough	43.806686	-79.194353	1.0	Fast Food Restaurant	Drugstore	Diner	Discount Store	Distribution Center	Dog Run	Doner Restaurant	Donut Shop	Dumpling Restaurant	Hardware Store
Rouge Hill, Port Union, Highland Creek	M1C	Scarborough	43.784535	-79.160497	1.0	Construction & Landscaping	Bar	Yoga Studio	Dumpling Restaurant	Distribution Center	Dog Run	Doner Restaurant	Donut Shop	Drugstore	Eastern European Restaurant
Guildwood, Morningside, West Hill	M1E	Scarborough	43.763573	-79.188711	1.0	Intersection	Mexican Restaurant	Breakfast Spot	Electronics Store	Restaurant	Rental Car Location	Medical Center	Bank	Discount Store	Distribution Center
Woburn	M1G	Scarborough	43.770992	-79.216917	1.0	Coffee Shop	Korean Restaurant	Mexican Restaurant	Drugstore	Discount Store	Distribution Center	Dog Run	Doner Restaurant	Donut Shop	Yoga Studio
Cedarbrae	M1H	Scarborough	43.773136	-79.239476	1.0	Caribbean Restaurant	Fried Chicken Joint	Bank	Gas Station	Athletics & Sports	Thai Restaurant	Bakery	Hakka Restaurant	Eastern European Restaurant	Dumpling Restaurant
Scarborough Village	M1J	Scarborough	43.744734	-79.239476	1.0	Playground	Smoke Shop	Jewelry Store	Yoga Studio	Donut Shop	Diner	Discount Store	Distribution Center	Dog Run	Doner Restaurant
Kennedy Park, Ionview, East Birchmount Park	M1K	Scarborough	43.727929	-79.262029	1.0	Train Station	Hobby Shop	Coffee Shop	Department Store	Escape Room	Ethiopian Restaurant	Event Space	Electronics Store	Eastern European Restaurant	Dim Sum Restaurant
Golden Mile, Clairlea, Oakridge	M1L	Scarborough	43.711112	-79.284577	1.0	Bakery	Bus Line	Park	Intersection	Ice Cream Shop	Metro Station	Bus Station	Soccer Field	Drugstore	Dumpling Restaurant
Cliffside, Cliffcrest, Scarborough Village West	M1M	Scarborough	43.716316	-79.239476	1.0	Motel	American Restaurant	Falafel Restaurant	Event Space	Ethiopian Restaurant	Escape Room	Electronics Store	Eastern European Restaurant	Dumpling Restaurant	Dessert Shop
Birch Cliff, Cliffside West	M1N	Scarborough	43.692657	-79.264848	1.0	College Stadium	General Entertainment	Skating Rink	Café	Donut Shop	Diner	Discount Store	Distribution Center	Dog Run	Doner Restaurant
Dorset Park, Wexford Heights, Scarborough Town Centre	M1P	Scarborough	43.757410	-79.273304	1.0	Indian Restaurant	Pet Store	Vietnamese Restaurant	Chinese Restaurant	Donut Shop	Diner	Discount Store	Distribution Center	Dog Run	Doner Restaurant

# Comparing Neighborhoods

- Application allows you to choose neighborhoods and compare them to each other.
- Data shows: location, community, 10 most common venues.
- Sample of comparing *Humber Summit* and *Christie* neighborhoods.

Neighborhood	Humber Summit	Christie
Postal Code	M9L	M6G
Community	North York	Downtown Toronto
Latitude	43.7563	43.6695
Longitude	-79.566	-79.4226
ClusterLabels	1	1
1st Most Common Venue	Pizza Place	Grocery Store
2nd Most Common Venue	Furniture / Home Store	Café
3rd Most Common Venue	Drugstore	Park
4th Most Common Venue	Discount Store	Coffee Shop
5th Most Common Venue	Distribution Center	Italian Restaurant
6th Most Common Venue	Dog Run	Candy Store
7th Most Common Venue	Doner Restaurant	Baby Store
8th Most Common Venue	Donut Shop	Athletics & Sports
9th Most Common Venue	Dumpling Restaurant	Nightclub
10th Most Common Venue	Dim Sum Restaurant	Restaurant



# Conclusion

- Whether a family or a single user is looking for a place to move in Toronto, they should all the chance to see the neighborhoods closer. Without knowing the specifics of the neighborhood, its hard to tell whether that neighborhood is right or not.
- Seeing up to 10 most common venues and comparing neighborhoods against each allows our user to gain more insight on where they would like to move.
- This helps the user see what is around them, how far, and what variety is available to them.
- With more information about users and clients, more data can be added such as housing and rental pricing as well as schooling ratings for families.
- For now this appicated serves as a general base for everyone!