



The Big Move

Working out where to live in Toronto

Intro

I'm considering moving from **Melbourne** to **Toronto** for work.



I **need** to find areas of Toronto to live in.

Preferably, I'd like somewhere similar to where I live now,
North Melbourne, a suburb famous for its cafes and hip culture.

NORTH MELBOURNE



Data



Wikipedia – Toronto neighbourhood data (postal code, borough)



FOURSQUARE

Foursquare API – venues data (location, category)



LATITUDE

COUNTRIES

Find GPS coordinates for any address or location.

Latitude.to – geographical coordinates data

Methods

1520 venue records

- **1507** venues within 500m of **32** Toronto neighbourhoods
(neighbourhoods within 7.2km of city centre)
- **13** venues within 500m of North Melbourne

Grouped by **category** & **neighbourhood**

K-means cluster analysis

- 1-10 clusters
- 10 initialisations per analysis
- Elbow point determined for optimal cluster #

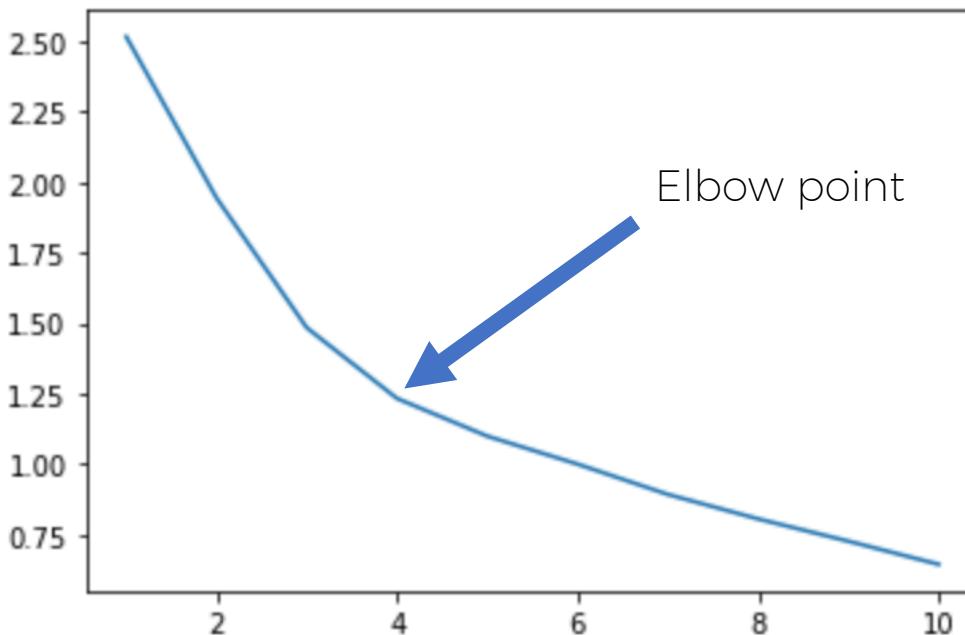
Results

Exploring the data

	Neighbourhood	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	Berczy Park	Coffee Shop	Cheese Shop	Beer Bar	Farmers Market	Bakery	Seafood Restaurant	Cocktail Bar	Restaurant	Café	Jazz Club
1	Brockton, Parkdale Village, Exhibition Place	Café	Coffee Shop	Breakfast Spot	Gym	Stadium	Burrito Place	Restaurant	Climbing Gym	Pet Store	Bakery
2	Business reply mail Processing Centre, South C...	Light Rail Station	Auto Workshop	Comic Shop	Park	Pizza Place	Restaurant	Butcher	Burrito Place	Brewery	Skate Park
3	CN Tower, King and Spadina, Railway Lands, Har...	Airport Service	Airport Lounge	Boat or Ferry	Harbor / Marina	Boutique	Rental Car Location	Plane	Coffee Shop	Sculpture Garden	Airport
4	Central Bay Street	Coffee Shop	Sandwich Place	Café	Italian Restaurant	Japanese Restaurant	Burger Joint	Bubble Tea Shop	Salad Place	Department Store	Dessert Shop

Results

K-means cluster analysis



Results

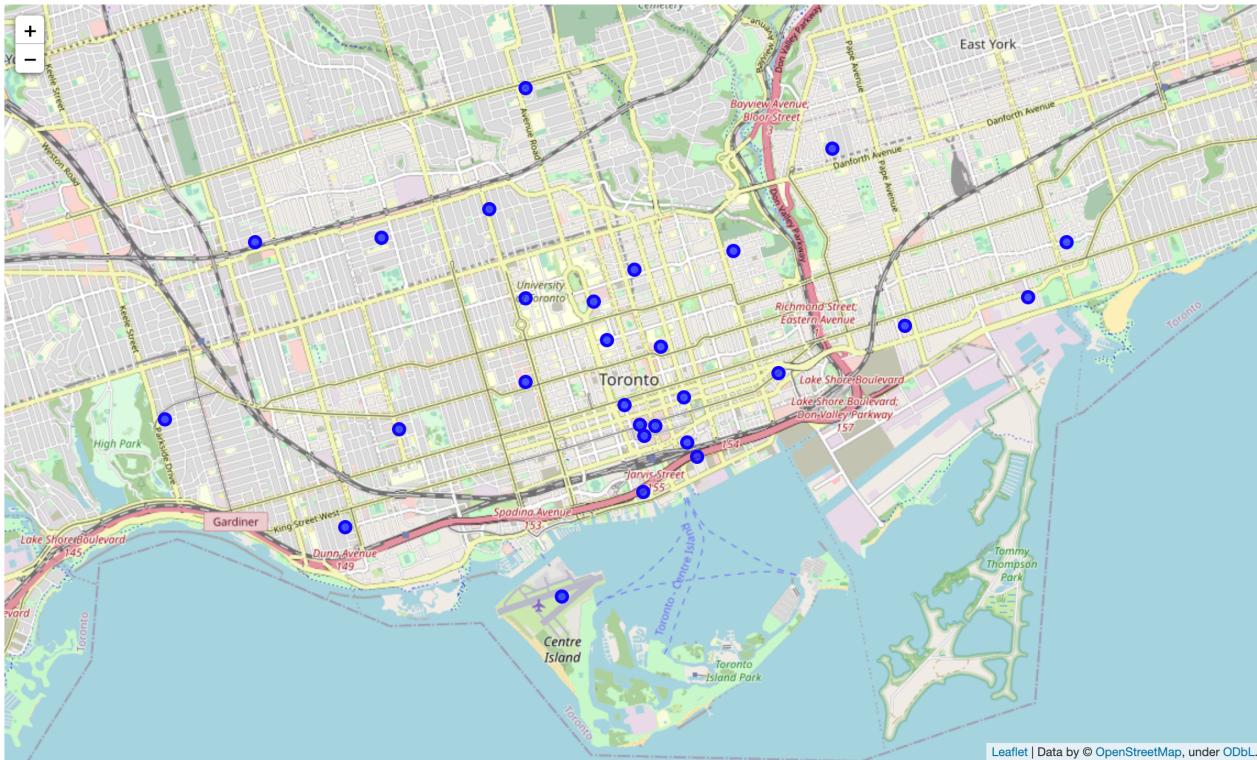
K-means cluster analysis

Cluster	Number of neighbourhoods
0	2
1*	28
2	1
3	1

* Containing North Melbourne (not included in count)

Results

K-means cluster analysis



Findings

The 28 similar neighbourhoods

Neighbourhood	
0	The Danforth West, Riverdale
1	India Bazaar, The Beaches West
2	Studio District
3	Summerhill West, Rathnelly, South Hill, Forest...
4	St. James Town, Cabbagetown
5	Church and Wellesley
6	Regent Park, Harbourfront
7	Garden District, Ryerson
8	St. James Town
9	Berczy Park
10	Central Bay Street
11	Richmond, Adelaide, King
12	Harbourfront East, Union Station, Toronto Islands
13	Toronto Dominion Centre, Design Exchange
14	Commerce Court, Victoria Hotel
15	The Annex, North Midtown, Yorkville
16	University of Toronto, Harbord
17	Kensington Market, Chinatown, Grange Park
18	CN Tower, King and Spadina, Railway Lands, Har...
19	Stn A PO Boxes
20	First Canadian Place, Underground city
21	Christie
22	Dufferin, Dovercourt Village
23	Little Portugal, Trinity
24	Brockton, Parkdale Village, Exhibition Place
25	Parkdale, Roncesvalles
26	Queen's Park, Ontario Provincial Government
27	Business reply mail Processing Centre, South C...

Conclusion

- I identified 28 similar neighbourhoods by venue categories & proximity to the city centre.
- These may be neighbourhoods that are similar to North Melbourne to consider living in.
- Further analysis should be performed including other parameters of importance to neighbourhood similarity.