

Capstone Project

The Battle of Neighborhoods (Week 2): Toronto vs. Frankfurt

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Introduction

- This project focusses on the challenge of comparing two cities with respect to standard of Living (SoL). The interest in the analysis and results can come from multiple stakeholders on individual but also on corporate level:
 - As an individual relocating to different cities, one wants to understand which city offers more and has what kind of character that fits ones personal preferences.
 - Big corporations might be interested in this kind of analysis if they have to relocate their operations to another town.

Data

- Toronto

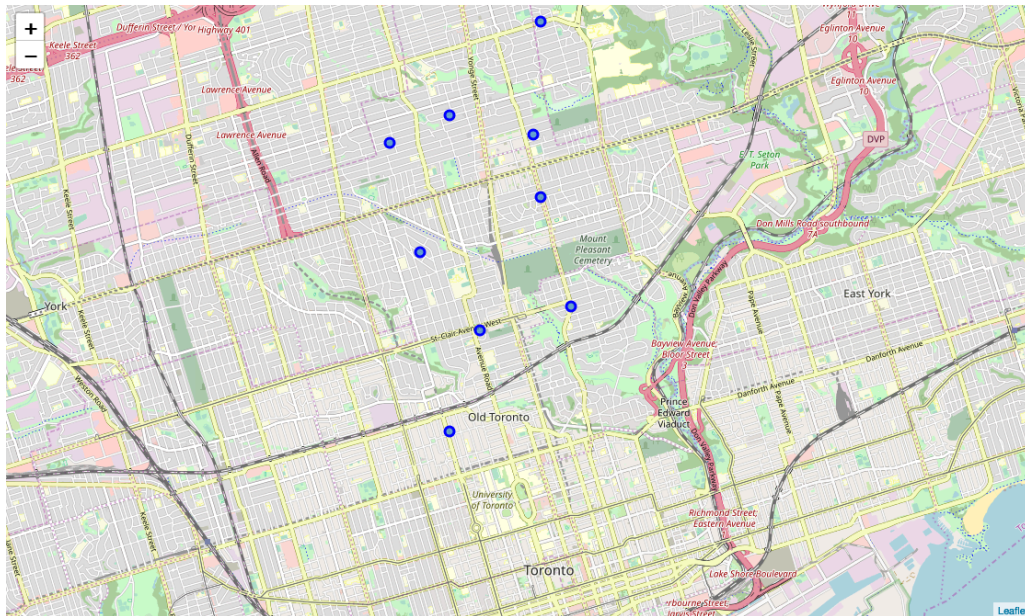
	Postcode	Borough	Neighbourhood	Latitude	Longitude
0	M4N	Central Toronto	[Lawrence Park]	43.728020	-79.388790
1	M4P	Central Toronto	[Davisville North]	43.712751	-79.390197
2	M4R	Central Toronto	[North Toronto West]	43.715383	-79.405678
3	M4S	Central Toronto	[Davisville]	43.704324	-79.388790
4	M4T	Central Toronto	[Moore Park, Summerhill East]	43.689574	-79.383160
5	M4V	Central Toronto	[Deer Park, Forest Hill SE, Rathnelly, South H...]	43.686412	-79.400049
6	M5N	Central Toronto	[Roselawn]	43.711695	-79.416936
7	M5P	Central Toronto	[Forest Hill North, Forest Hill West]	43.696948	-79.411307
8	M5R	Central Toronto	[The Annex, North Midtown, Yorkville]	43.672710	-79.405678

- Frankfurt

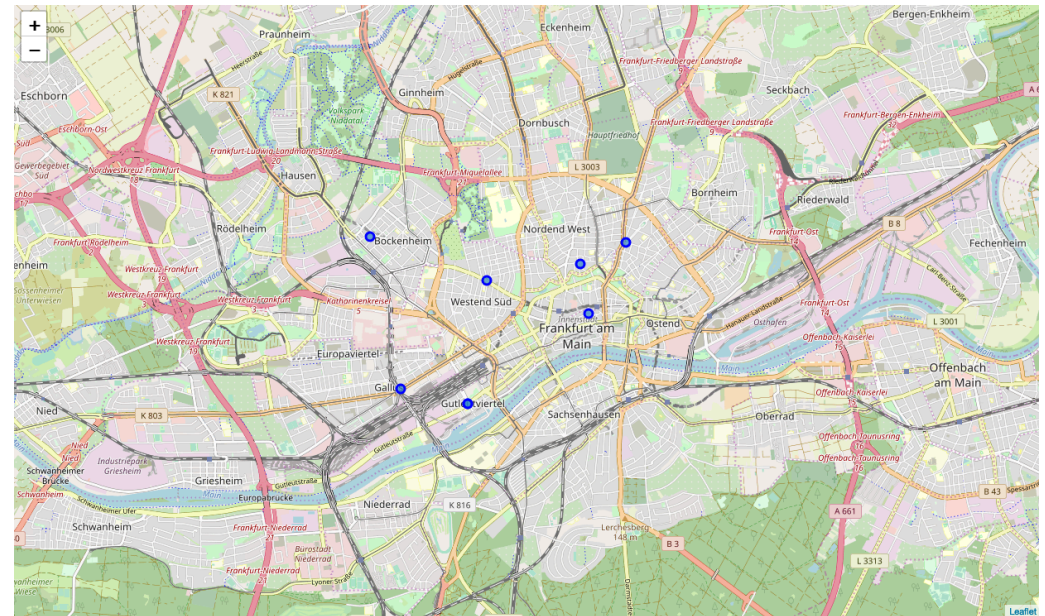
	Borough	Neighbourhood	Latitude	Longitude	ZIP code
0	Innenstadt I	Altstadt	50.113610	8.684444	60311; 60313
1	Innenstadt I	Bahnhofsviertel	50.101667	8.659444	60329
2	Innenstadt I	Gallus	50.103611	8.645556	60325; 60326; 60327; 60329; 60486
3	Innenstadt I	Gutleutviertel	50.101667	8.659444	60327; 60329
4	Innenstadt I	Innenstadt	50.120278	8.682778	60310; 60311; 60313; 60318; 60322; 60329
5	Innenstadt III	Bockenheim	50.123889	8.639167	60325; 60431; 60486; 60487
6	Innenstadt III	Westend	50.118056	8.663333	60320; 60322; 60323; 60431; 60306; 60308; 6032...
7	Innenstadt III	Nordend	50.123056	8.692222	60316; 60318; 60385; 60389; 60316; 60318; 6032...

Data

- Toronto



- Frankfurt



Methods

- The analysis was carried out for each city following these steps
- Get all venues for each neighbourhood
- Get the number and list of unique venue categories
- Group venues in each neighbourhood
- List top 10 venues in each neighbourhood

Results

Top 10 venues for Central Toronto

	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	Davisville	Dessert Shop	Sandwich Place	Italian Restaurant	Sushi Restaurant	Pizza Place	Café	Coffee Shop	Gym	Park	Greek Restaurant
1	Davisville North	Dance Studio	Clothing Store	Hotel	Food & Drink Shop	Sandwich Place	Convenience Store	Park	Pizza Place	Gym	Breakfast Spot
2	Deer Park, Forest Hill SE, Rathnelly, South Hi...	Pub	Coffee Shop	American Restaurant	Sports Bar	Pizza Place	Health & Beauty Service	Restaurant	Liquor Store	Light Rail Station	Fried Chicken Joint
3	Forest Hill North, Forest Hill West	Sushi Restaurant	Bus Line	Trail	Jewelry Store	Park	Farmers Market	Food & Drink Shop	Fried Chicken Joint	Garden	Yoga Studio
4	Lawrence Park	Swim School	Bus Line	Park	Yoga Studio	Dessert Shop	History Museum	Health & Beauty Service	Gym / Fitness Center	Gym	Greek Restaurant
5	Moore Park, Summerhill East	Restaurant	Gym	Tennis Court	Playground	Dance Studio	History Museum	Health & Beauty Service	Gym / Fitness Center	Greek Restaurant	Gourmet Shop
6	North Toronto West	Coffee Shop	Sporting Goods Shop	Yoga Studio	Spa	Metro Station	Mexican Restaurant	Diner	Park	Dessert Shop	Restaurant
7	Roselawn	Home Service	Garden	Yoga Studio	Indian Restaurant	History Museum	Health & Beauty Service	Gym / Fitness Center	Gym	Greek Restaurant	Gourmet Shop
8	The Annex, North Midtown, Yorkville	Café	Sandwich Place	Coffee Shop	American Restaurant	Indian Restaurant	Jewish Restaurant	Liquor Store	Park	Pharmacy	Pizza Place

Results

Top 10 venues for Central Toronto

	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	Altstadt	Café	Italian Restaurant	Restaurant	Department Store	Bar	Thai Restaurant	Plaza	Burger Joint	Coffee Shop	Nightclub
1	Bahnhofsviertel	Hotel	Restaurant	Italian Restaurant	Bistro	Korean Restaurant	Cocktail Bar	Chinese Restaurant	Seafood Restaurant	River	Mexican Restaurant
2	Bockenheim	Asian Restaurant	Café	Spanish Restaurant	Ice Cream Shop	Supermarket	Cocktail Bar	Hookah Bar	Wine Bar	Middle Eastern Restaurant	Department Store
3	Gallus	Asian Restaurant	Café	Pub	Greek Restaurant	Concert Hall	Museum	Event Space	Boarding House	Food Court	Grocery Store
4	Gutleutviertel	Hotel	Restaurant	Italian Restaurant	Bistro	Korean Restaurant	Cocktail Bar	Chinese Restaurant	Seafood Restaurant	River	Mexican Restaurant
5	Innenstadt	Italian Restaurant	Café	Hotel	Thai Restaurant	Indian Restaurant	Bar	Pizza Place	Yoga Studio	Burger Joint	Indie Movie Theater
6	Nordend	Café	Italian Restaurant	Ice Cream Shop	Plaza	Wine Bar	Pub	Bar	Bakery	Pizza Place	Vietnamese Restaurant
7	Westend	Italian Restaurant	Steakhouse	German Restaurant	French Restaurant	Bakery	Café	Supermarket	Pizza Place	Salad Place	Burrito Place

Discussion & Conclusion

- Frankfurt has 40 plus more unique venues than Toronto
- Frankfurts top venues are Cafes and Bars
- Torontos top venues are lifestyle/activities centered

Both are fantastic cities