Coffee Shops in Toronto

By Emma and Abeda

Research Topic

Questions:

1) How many coffee shops are within each district of Toronto?
2) Does the number of coffee shops affect amenities that are available?

Coffee Shops in Toronto

Variables

Independent Variable: Number of coffee shops within district.

Dependent Variable: Frequency of amenities per district.

Hypothesis

The more coffee shops there are in a district, the more frequent amenities will be.

Null Hypothesis

There is no correlation between the number of coffee shops and frequency of amenities.

Amenities Being Analyzed

- Wheelchair Access
- Internet Access
- Takeaway

Data that we used: api.geoapify

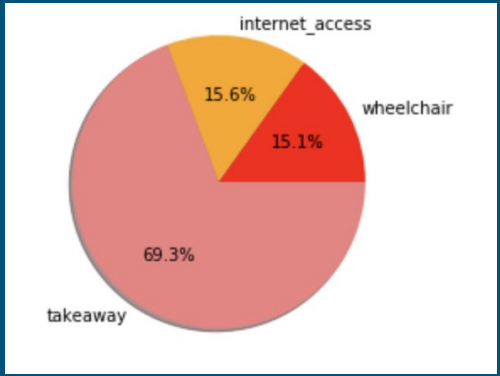
Findings

Number of Coffee Shops Per District

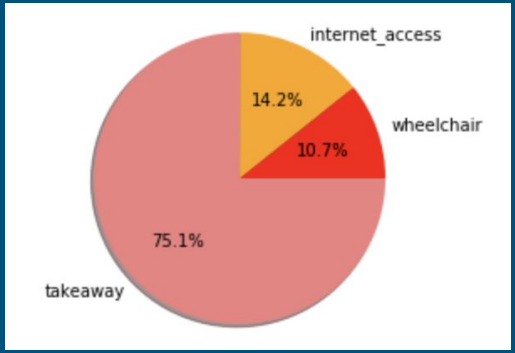
District	coffe shops
NorthYork	641
Etobicoke	358
Downtown	332
Scarborough	209
York	174
East York	167

Percentage of Amenities Per District

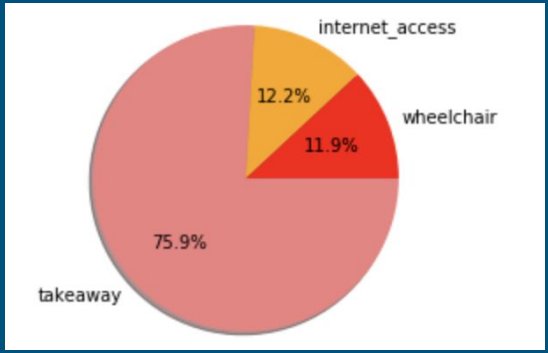
East York



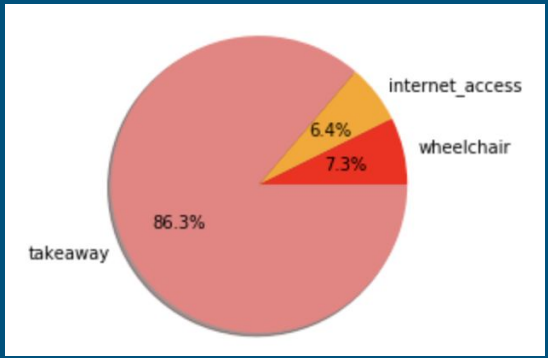
Etobicoke



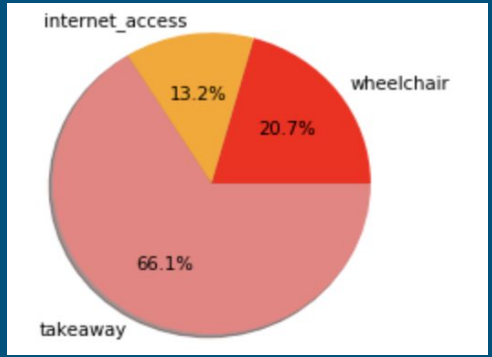
North York



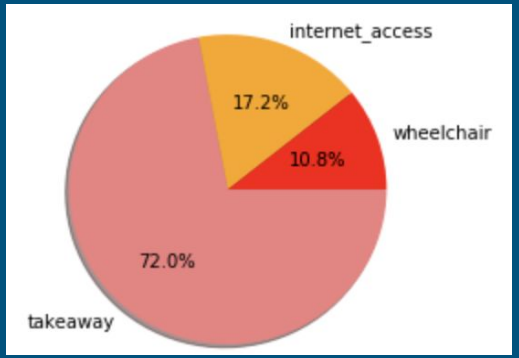
Scarborough



Downtown, Toronto

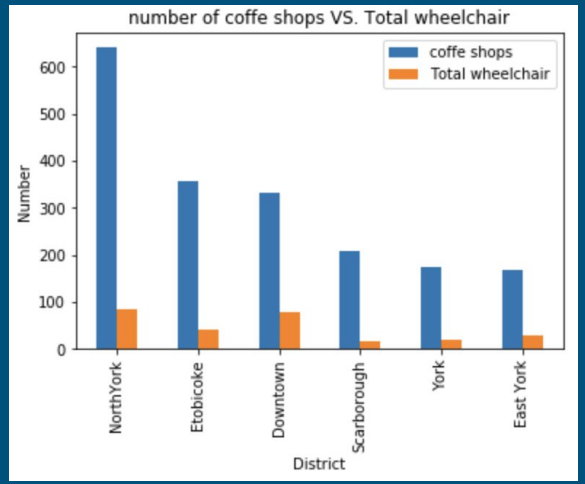


York

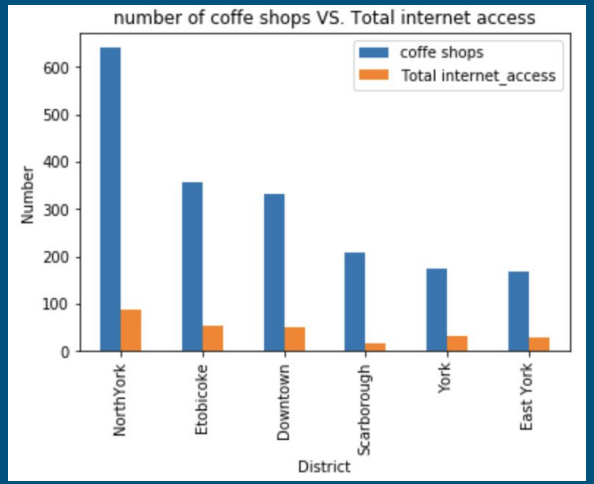


Comparison of Amenity vs. Number of Coffee Shops Per District

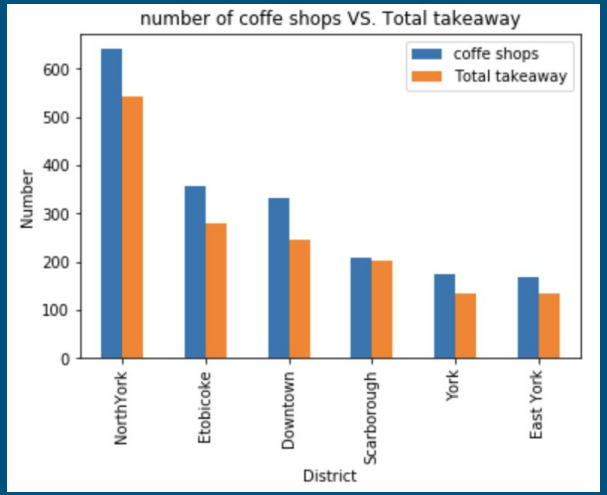
Wheelchair



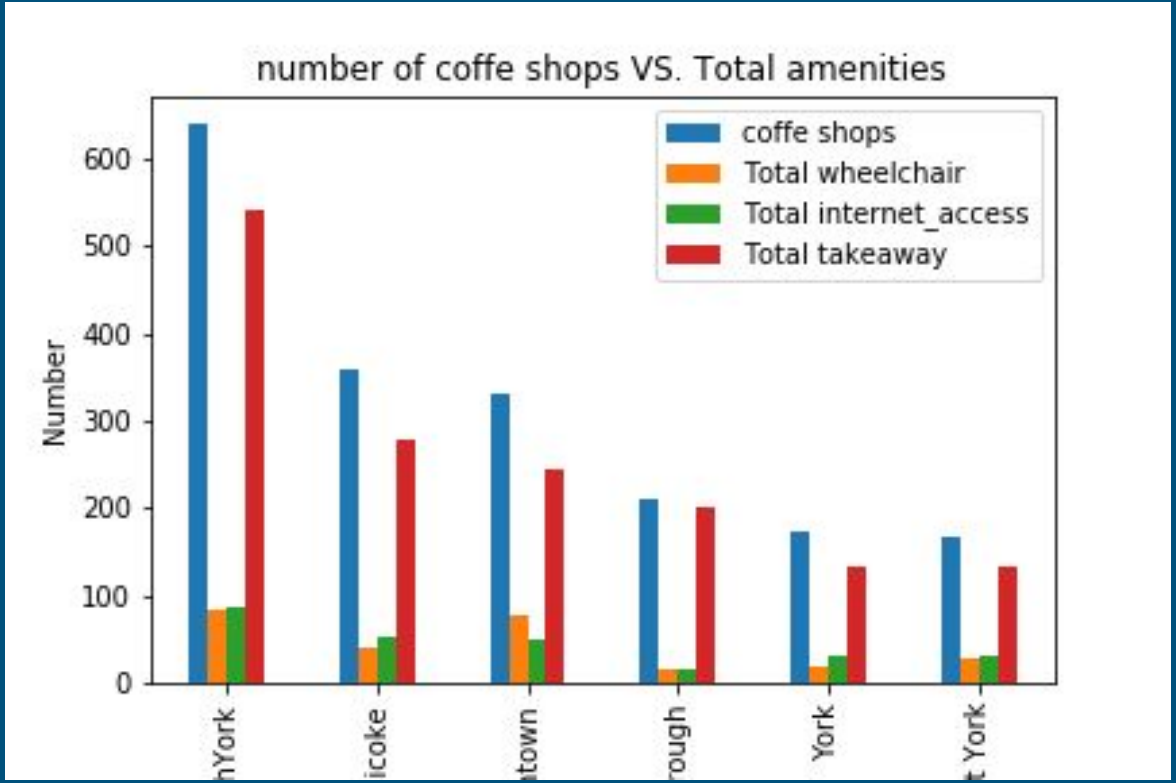
Internet Access



Takeaway



Comparison All Amenities in One Graph



Conclusions

- North York has most coffee shops out of all districts
- All districts display high percentage of takeaway option
- Downtown Toronto has the highest wheelchair access percentage
- East York has most coffee shops with internet access

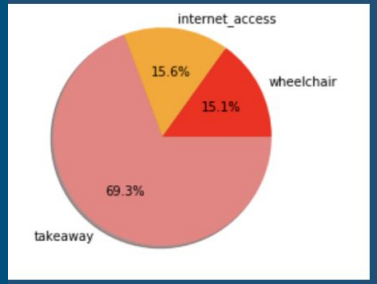
Confirm or reject hypothesis

Null hypothesis: accepted

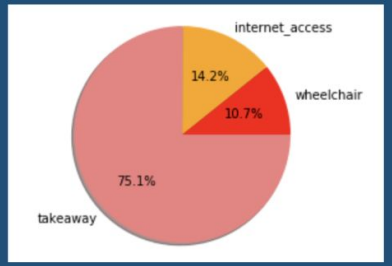
- There is no direct correlation between number of coffee shops within a district and available amenities

District	coffe shops
NorthYork	641
Etobicoke	358
Downtown	332
Scarborough	209
York	174
East York	167

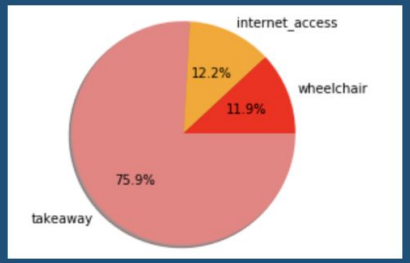
East York



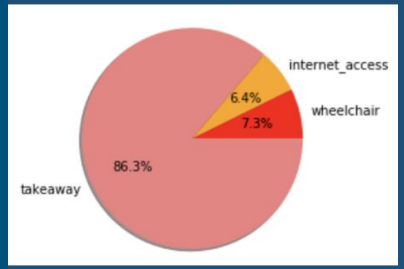
Etobicoke



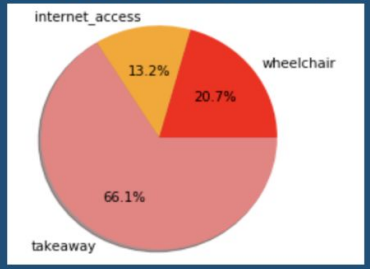
North York



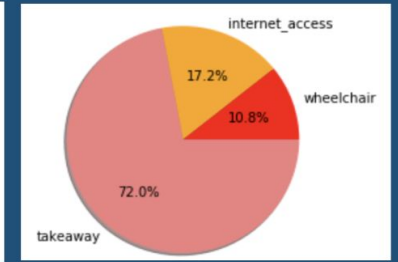
Scarborough



Downtown, Toronto



York



Limitations of the data

Overlap between districts

Geoapify uses radius when finding places, whereas area of each district is by square kilometres. True area of each district may not have been fully covered.

Missing Data

Many coffee shops in districts did not have data on all amenities, especially wheelchair and internet access.

Thank you for being a part of our presentation!