



The Data

Geographical data (Neighborhood names, Postal Code Areas) from Wikipedia, and

Geographical coordinates, from Google Maps API geocoding

Income data, from the Canadian Government official page

**Venues** information and location in Toronto, from Foursquare's database



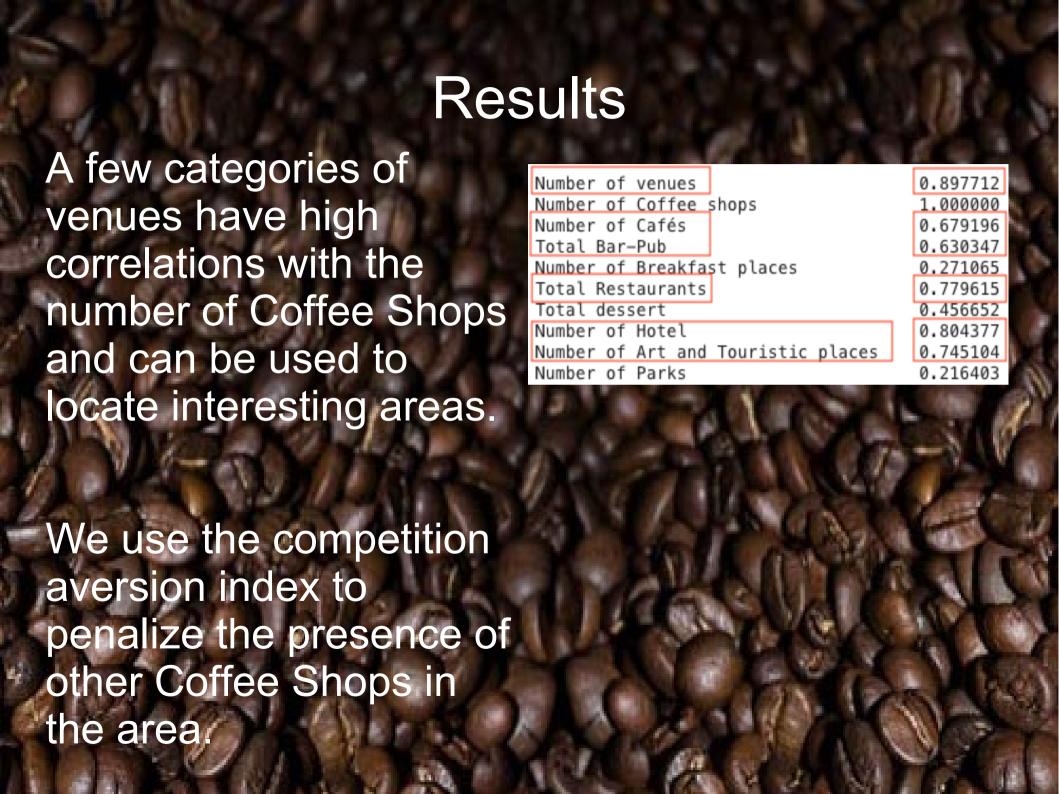
## Methodology: the correlation rating algorithm

Interesting areas should be where most Coffee Shops are implanted (but in the selected area we want to have as few as possible!)

We identify the elements caracterising interesting areas, using correlations between the number of Coffee Shops, other venues, and the median income.

We obtain a score for each Area (even where no of few Coffee Shops are present)

We sort the neighborhoods by their score



## the list of best location

0.420575

0.395464

0.375834

0.373946

0.373679

0.355214

0.342305

0.333591

Men's

Store

Hotel

Bakery

Null

French

Restaurant

Beer Bar

Bar

Gym

Café

Shop

Null

Bakery

Restaurant

Clothing

Store

Italian

Restaurant

Bubble Tea

Vietnamese

Restaurant

45

75

74

2

34

55

100

33

Postal Code	Median income	Borough	Neighborhood	Latitude	Longitude	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	Number of venues	Neighborhood rating
М6Р	38670	West Toronto	High Park, The Junction South	43.661608	-79.464763	Mexican Restaurant	Café	Bar	Thai Restaurant	Speakeasy	Bakery	Diner	25	0.463838
M5C	53420	Downtown Toronto	St. James Town	43.651494	-79.375418	Coffee Shop	Café	Restaurant	Cocktail Bar	Beer Bar	Gastropub	American Restaurant	85	0.442843

Coffee

Japanese

Restaurant

Shop

Café

Garden

Bookstore

Cheese

Shop

Café

Coffee

Restaurant

Gay Bar

Coffee

Shop

Null

Farmers

Market

Sushi

Restaurant

Shop Restaurant

Bar

Coffee

Shop

Bar

Music

Venue

Café

Coffee

Shop

Coffee

Shop

Café

Vietnamese

Restaurant

Restaurant

Vegetarian

Restaurant

Sandwich

Seafood

Hotel

Restaurant

Pizza Place

Place

/ Vegan

Null

Asian

Sushi

Restaurant

Restaurant

Mexican

Null

Japanese

Bakery

Gym

Restaurant

Restaurant

Trinity

43.647927

-79.419750

43.665860 -79.383160

43.653206 -79.400049

43.711695 -79.416936

43.662696 -79.400049

43.644771 -79.373306

43.650571 -79.384568

43.651571 -79.484450

Little Portugal,

Church and

Kensington

Chinatown,

Grange Park

Roselawn

Toronto,

Harbord

Berczy Park

Richmond,

Adelaide, King

Runnymede,

Swansea

University of

Market,

Wellesley

Toronto

Toronto

Downtown

Downtown

Toronto

Central

Toronto

Downtown

Downtown

Downtown

Toronto

Toronto

Toronto

West

Toronto

M6J

M5T

M5N

M5E

M5H

M6S

34260

36530

20270

45600

30800

57340

60250

West



Median income does not influence the presence of Coffee Shops, but it can be an element of interest for the owner to target the right kind of costumers.

3 areas seem indicated, one in downtown Toronto (more active but with more competition), two in West Toronto (reasonably active, less competition)



- The algorithm allows to find interesting areas, even if not yet identified by the market (no or few Coffee Shops present)
- Allows to factor in the stakeholder's aversion to competition
- Easily adaptable to other business or environment
- Could be made even more reliable by training over larger data sets, including other cities.