## Introduction

If you want to find the good hangout place and have more number of coffee shops . The problem we aim to solve is to analyze the coffee shops locations in the major US cities and find the best hangout place.

## Data section

FourSquare API will be used to collect data about locations of Coffee shops in Central Toronto and North York

## Methodology

My main target here is to asses which city would have the highest coffee shops. I used the Four Square API through the venues channel. I used the near query to get venues in the cities. Also, I use the CategoryID to set it to show only Coffee shops. An Example of my requests:

https://api.foursquare.com/v2/venues/explore?&client\_id=&client\_secret=&v=20180605&New York, NY&limit=100&categoryId=’’

. Also, Foursquare limits us to maximum of 100 venues per query.

Moreover, I repeated this request for the 2 studied cities and got their top 100 venues. I saved the name and coordinate data only from the result and plotted them on the map for visual inspection.

Next, to get an indicator of the density of Coffee shops, I calculated a center coordinate of the venues to get the mean longitude and latitude values. Then I calculated the mean of the Euclidean distance from each venue to the mean coordinates. That was my indicator; mean distance to the mean coordinate.

## Results

## Thus it can be determined that North York has many Coffee Shops than Central Toronto. Thus can be good hangout place.

## 

## 

## 