

# **Battle of the Neighborhoods**

Coffee Shop in Vancouver, BC, Canada

**Author:** Rafael Vidigal de Moraes

**Date:** April 25th, 2021

## Introduction

- Open a new Coffee Shop in the city of Vancouver
- Crime is a distress to people.
- People who are willing to open a commercial establishments always take that information in consideration to open a new venue.

## Geographical Location



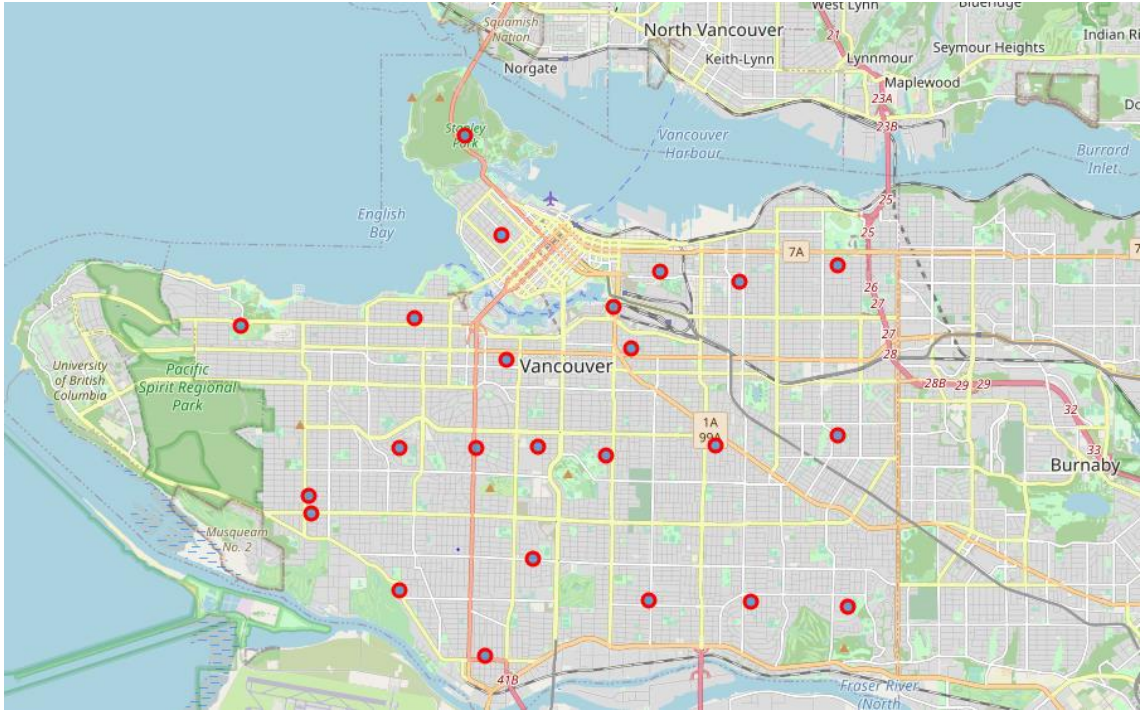
## Problem

- Find a safe Borough to open a Coffee Shop in Vancouver;

## Data

- Vancouver Crime Data;
- Vancouver Population per Neighborhood;
- List of Borough;
- Foursquare API;
- GeoCoder.

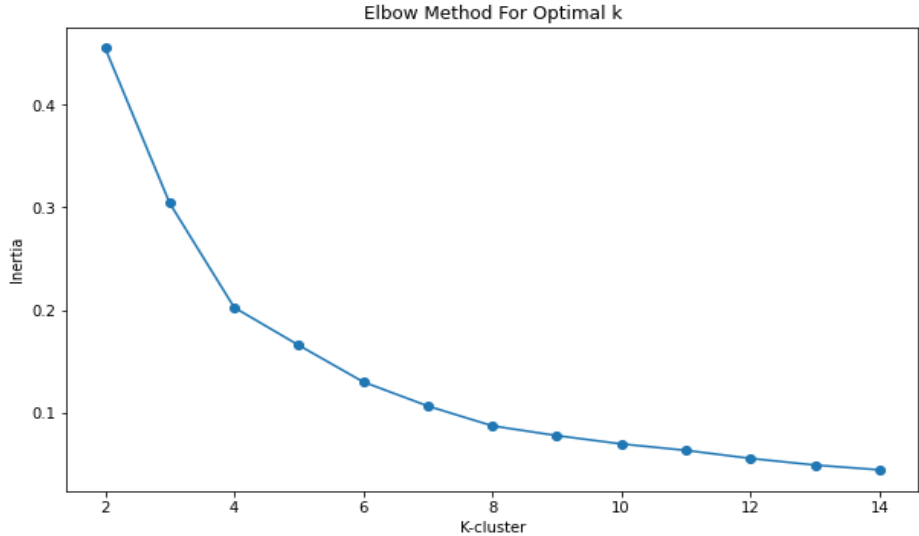
# Neighborhood



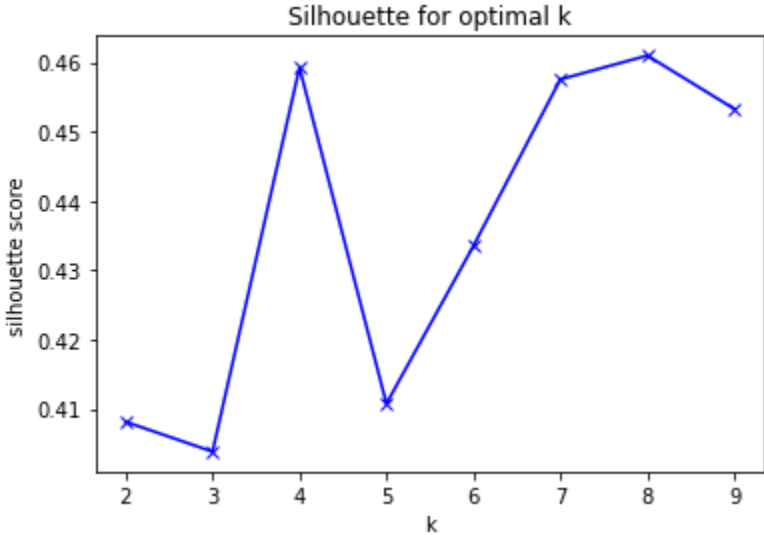
## Top 5 Venue

	Neighborhood	1st Most Common Venue	2nd Most Common Venue	3rd Most Common Venue	4th Most Common Venue	5th Most Common Venue
0	Arbutus Ridge	Coffee Shop	Bakery	Café	Japanese Restaurant	Pharmacy
1	Central Business District	Coffee Shop	Restaurant	Taco Place	Brewery	Hotel
2	Dunbar-Southlands	Coffee Shop	Grocery Store	Italian Restaurant	Pharmacy	Bakery
3	Fairview	Bakery	Park	Coffee Shop	Restaurant	Café
4	Grandview-Woodland	Park	Brewery	Coffee Shop	Café	Mexican Restaurant

# Cluster Analysis

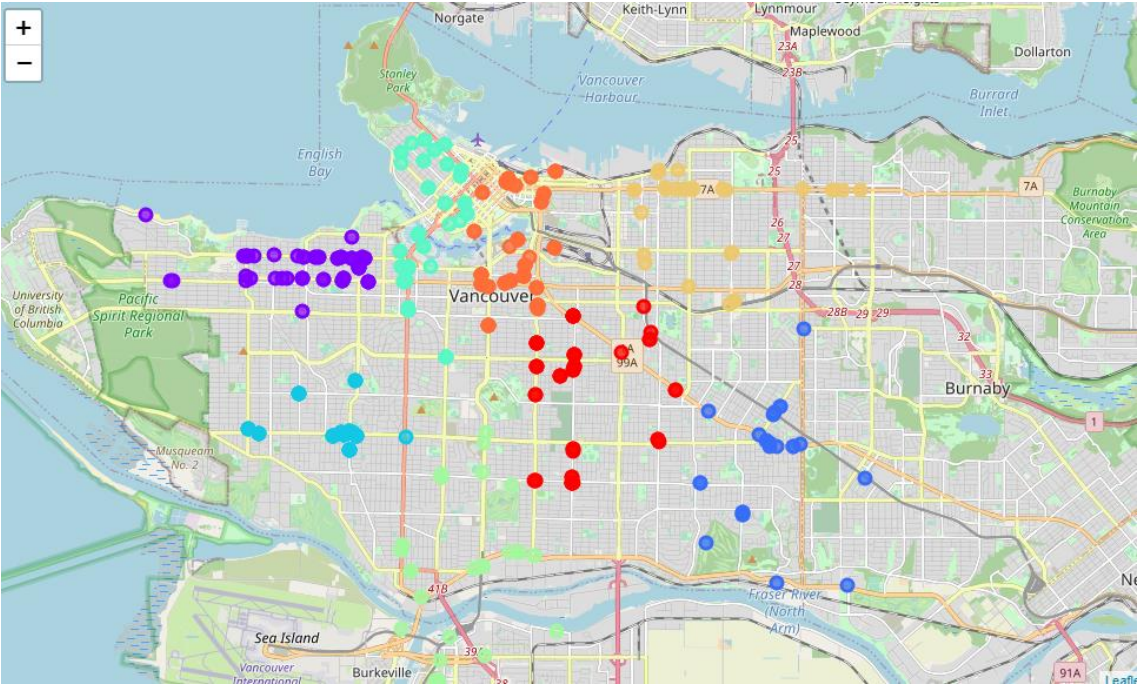


```
N_cluster: 2, score: 0.4081282635647124
N_cluster: 3, score: 0.40381596664684355
N_cluster: 4, score: 0.4586725712185001
N_cluster: 5, score: 0.40909285301191994
N_cluster: 6, score: 0.4335069191844513
N_cluster: 7, score: 0.4575461278366868
N_cluster: 8, score: 0.46187968785821837
N_cluster: 9, score: 0.4576368537307136
```

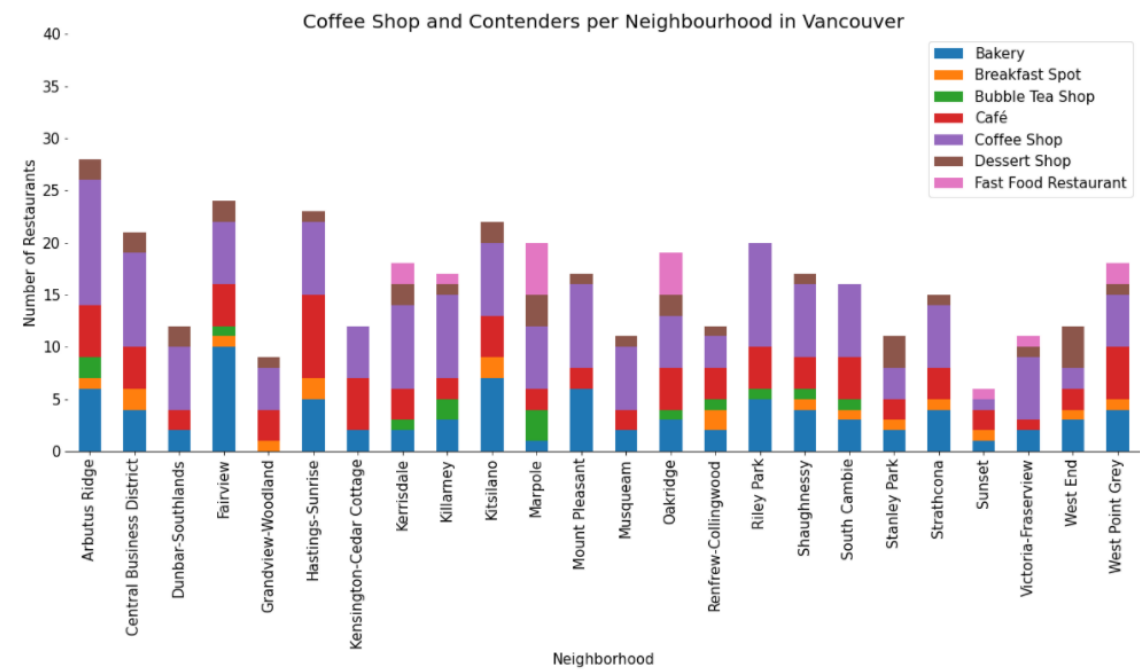




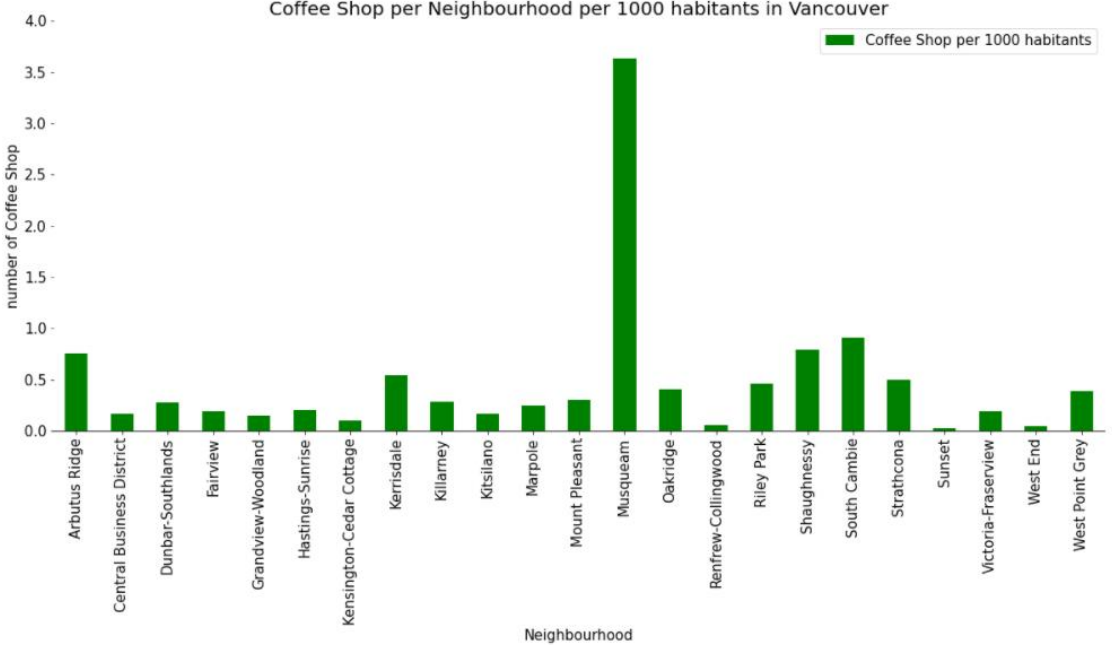
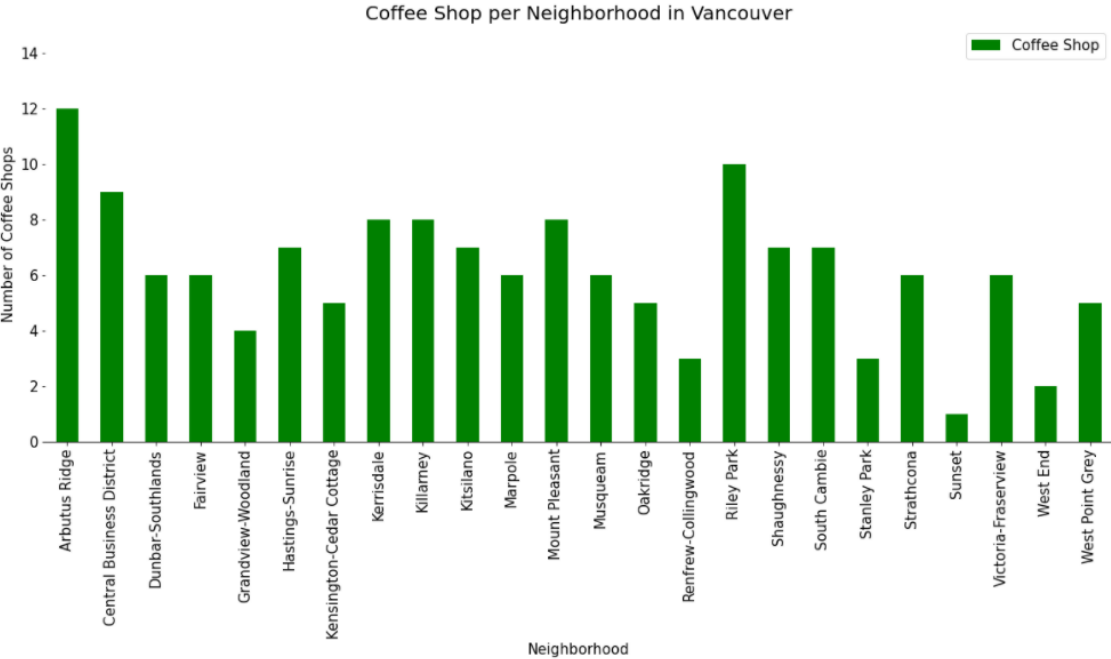
# Clusters



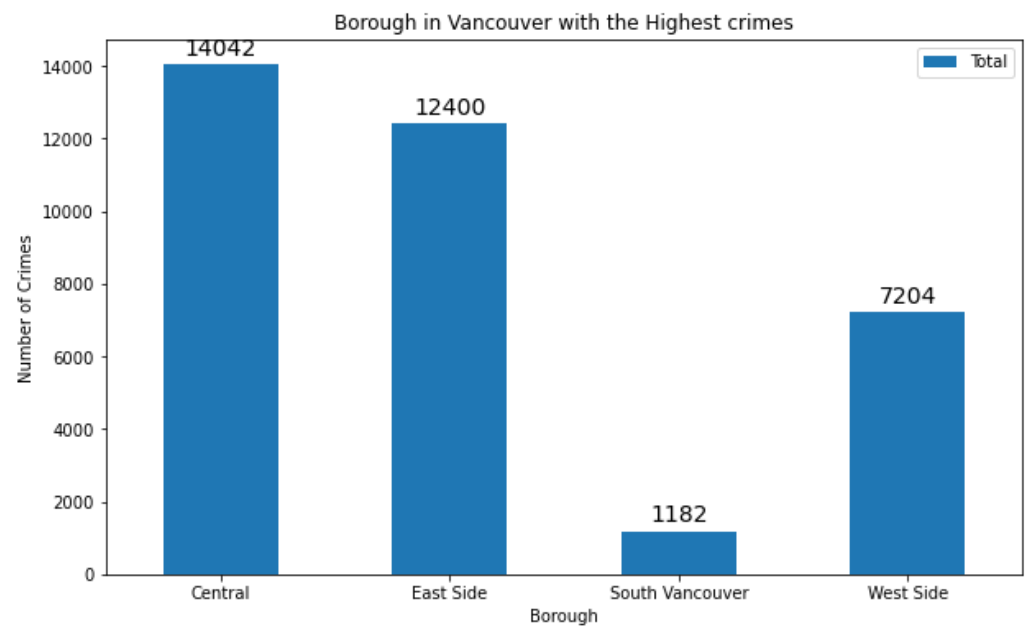
# Coffee Shop and its Competitors



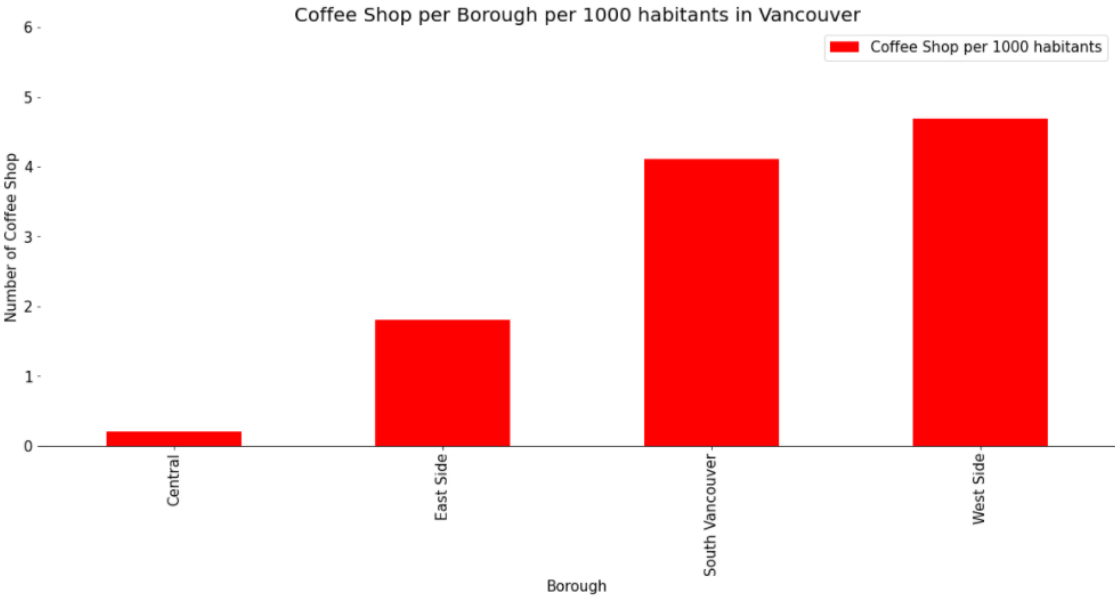
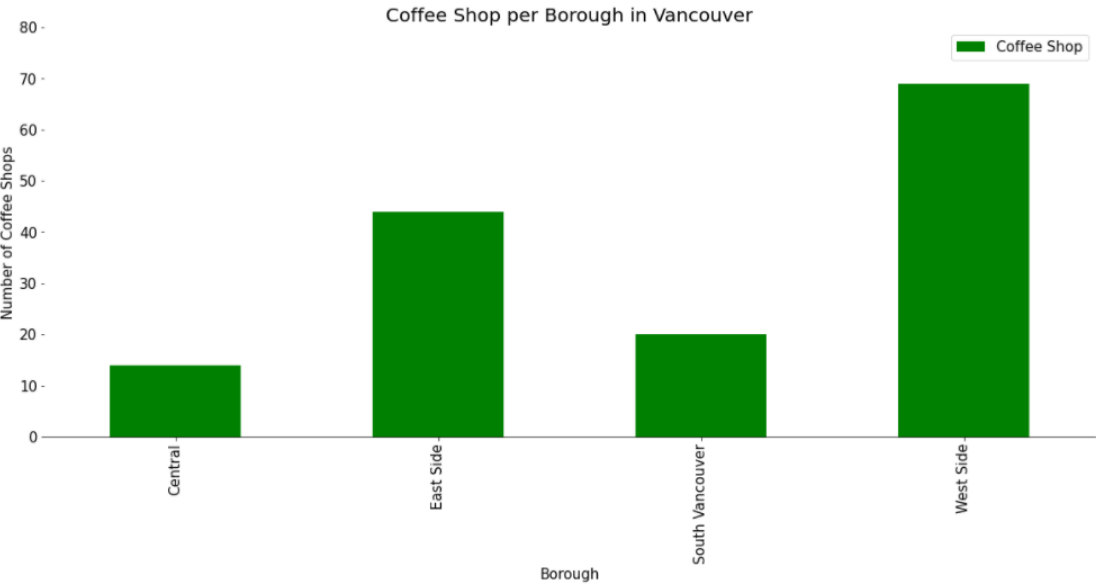
# Coffee Shop Per Neighborhood



# Crimes per Borough



# Coffee Shop Per Borough



# Conclusion

