

Business Problem

According to The Economist Intelligence Unit, Calgary is among the top 5 most livable cities in the world and the most livable city in North America in the last two years [1]. Every year, it attracts tens of thousands of interprovincial and international migrants.

Information about each neighbourhood of the city will be very helpful for newcomers whether they come to study, work, or start new business. For example, a single office worker might have to choose whether to rent an apartment near downtown or buy a house elsewhere more affordable and spend time commuting by public transit.

This project aims to provide insight information about Calgary's neighbourhoods, cluster neighbourhoods based on their venues, and identify which variables most influential on house price. Hopefully, this work will help to point newcomers to the right direction and avoid costly mistakes when settling in Calgary.

Data

Data are extracted from public sources listed below:

- Postal codes and coordinates of neighbourhoods: GeoNames [2] and Mapawi [3]
- Venue: Foursquare [4]
- Community boundaries: Statistics Canada Boundary File [5]
- Community population and area: Wikipedia [6]
- House price data: The Globe and Mail House Price Data Centre [7]
- Crime Rates: Calgary Police Statistical Reports [8]
- School ratings: Fraser Institute School Rankings [9]

References

- [1] [Calgary - Wikipedia](#)
- [2] [Calgary - GeoNames](#)
- [3] [Alberta - Mapawi](#)
- [4] [Foursquare](#)
- [5] [Community Boundary File – Statistics Canada](#)
- [6] [List of Neighbourhoods in Calgary - Wikipedia](#)
- [7] [House Price Data Centre - The Globe and Mail](#)
- [8] [Statistical Reports - Calgary Police](#)
- [9] [School Rankings - Fraser Institute](#)