CPSC 547
Municipal Planning Visualization

David Chen, Hongyang Yang

Background

Many factors influence the quality of life for residents in a municipality

- Crime
- Economic Mobility
- Child Care
- Etc.

Municipal planners need to identify patterns within the city to address quality of life issues for residents

Problem

How do we effectively subdivide a city into community clusters with similar needs?

What kinds of specific resources does each community require?

Interactive visualization can help by presenting this information to planners and stakeholders in a more easily accessible and auditable format compared to traditional mediums

Data Sources

2016 National Census Data from Cancensus

Statistical Reports by Neighbourhood from 2016 (From Vancouver Police Department)

- Family income
- Family household members
- Lone parents
- Employment figures
- Commute

Data Sources

2016 National Census Data from Cancensus

- Accessible via API
- Data broken down by region into granularity of neighborhood blocks

Statistical Reports by Neighbourhood from 2016 (From Vancouver Police Department)

- 37797 entries from curated VPD dataset

Potential Visualization

Map based interface displaying data for City of Vancouver

- Area marks to indicate neighborhoods and community clusters
- Crime and socioeconomic data overlaid and expressed through color saturation channels
- Popovers will deliver enhanced and detailed information for each community