

Visualizing Mobility and COVID-19

CPSC 547
Information Visualization

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Motivation

Mobility?

“the study that describes how individual humans move within a network or system”

Project type: interactive explainer article

- exploring changes in mobility for:
 - Grocery & Pharmacy
 - Transit Stations
 - Residential
 - Retail & Recreation
 - Parks
 - Workplaces

Questions to explore

1. How have the behaviours of Canadians shifted since COVID-19 entered the country?
2. Have Canadians kept to COVID-19 quarantine measures imposed by provincial and federal governments?
3. *If infection data is available:*
What impacts have wide-spread behavioural changes had on COVID-19 infection rates in Canada?
4. *Possible meta-analysis of interactive explainer:*
Which design idioms were the most successful in communicating our research questions to a layperson?

Our data

Current Dataset

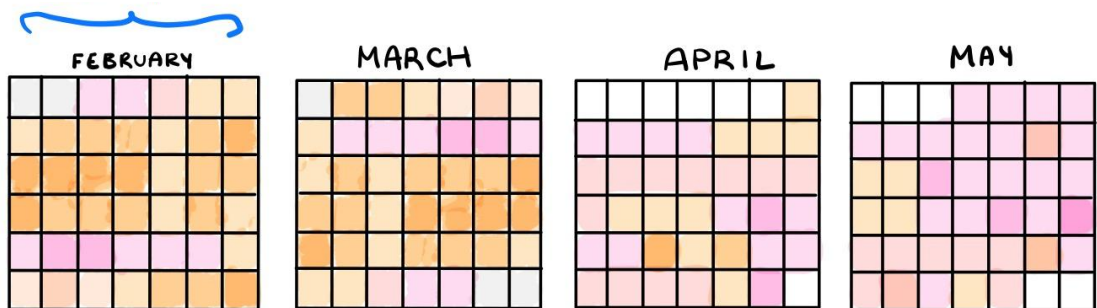
- Google has published data on community mobility over the course of the pandemic and categorized them into 6 categories:
 - Grocery & Pharmacy
 - Transit Stations
 - Residential
 - Retail & Recreation
 - Parks
 - Workplaces

Additional Datasets?

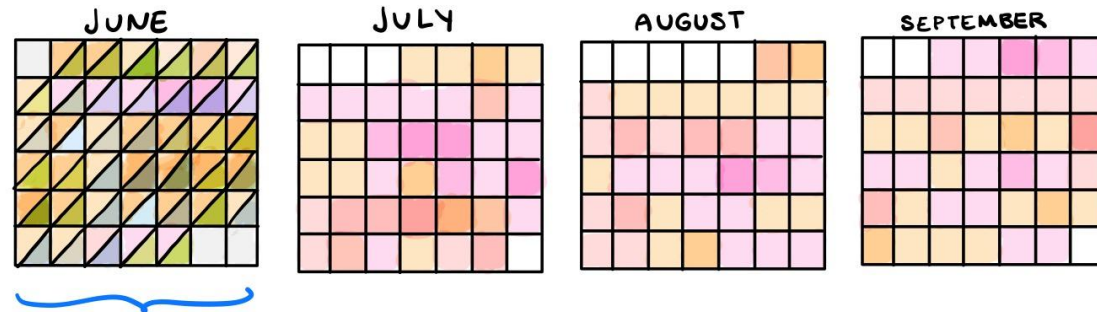
- Provincial infection rate data (if available)
- Key date features (ie. Easing/Tightening of Lockdowns, Public Holidays...)

Potential Vis One

single location colour palette
(ex. Canada)



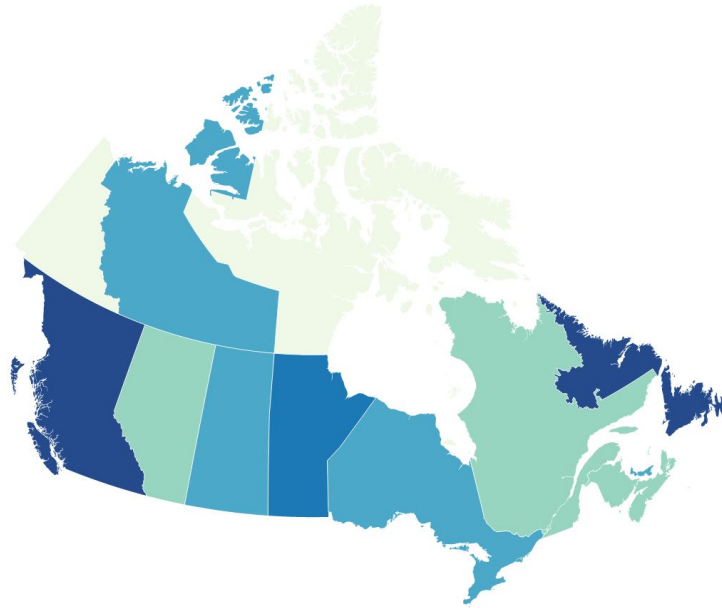
- Canada
- British Columbia
- Both



dual colour palettes
(ex. Canada + BC)

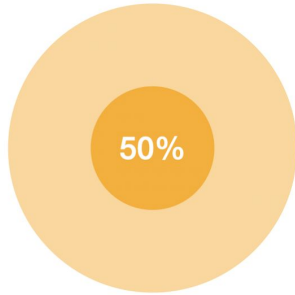
Potential Vis Two

Sample Choropleth Map

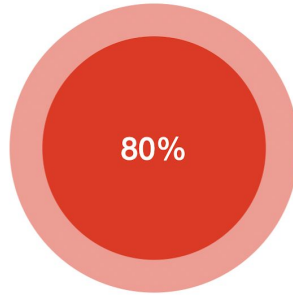


Potential Vis Two

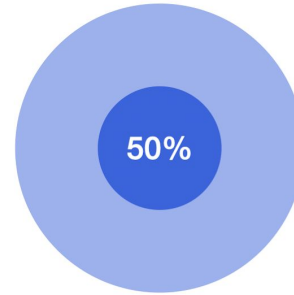
Retail and Recreation



BC



AB



ON

Activity: Retail and Recreation

Date: May 2020



Thanks!