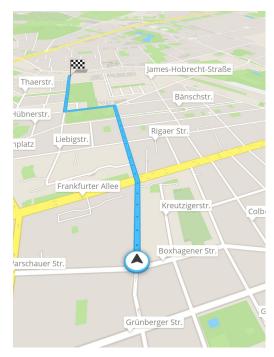
# Graphics Review cd-026

Zhao (Zak) Sheng Yuwen (Echo) Zheng Anna Shi

### **Presentation Overview**

- 1. Target users
- 2. Guiding principles
- 3. Mapper Features
- 4. Conclusion

# Mapper is for delivery people



https://developer.skobbler.com/



http://www.lavorofacile.info/news/item/1574-autisti-di-furgoni-e-camion-per-consegne-e-trasporto-a-roma-e-nel-lazio.html

# Guiding principles

Usability

Responsiveness

Efficiency

Learnability

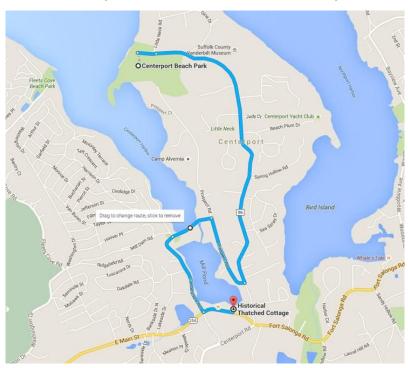
**Usability** 

**Productivity** 

Usefulness

### Efficiency of information

Is it easy to look for the information you need?



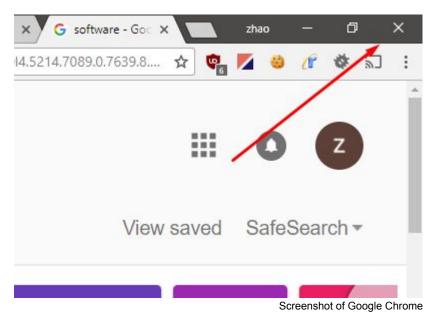
https://www.pcmag.com/article/343939/how-to-make-custom-routes-in-offline-maps



https://docs.optaplanner.org/7.4.1.Final/optaplanner-docs/html\_single/index.html

### Learnability

Is it intuitive?

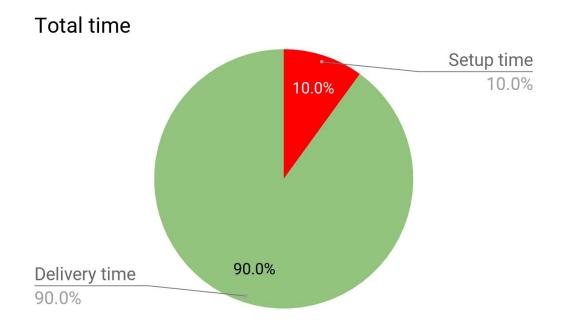




### Productivity

• How quickly can you get going?

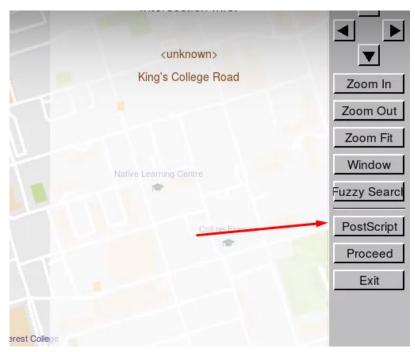
 More time in GIS = Less time doing work



### Usefulness

Do we need it?

- o PostScript?
  - User unlikely to print

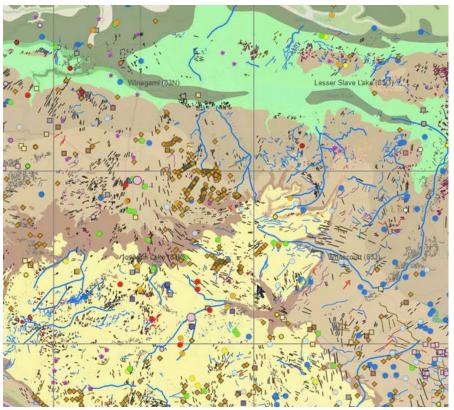


https://www.youtube.com/watch?v=FHFnFpCrp0U

### Responsiveness

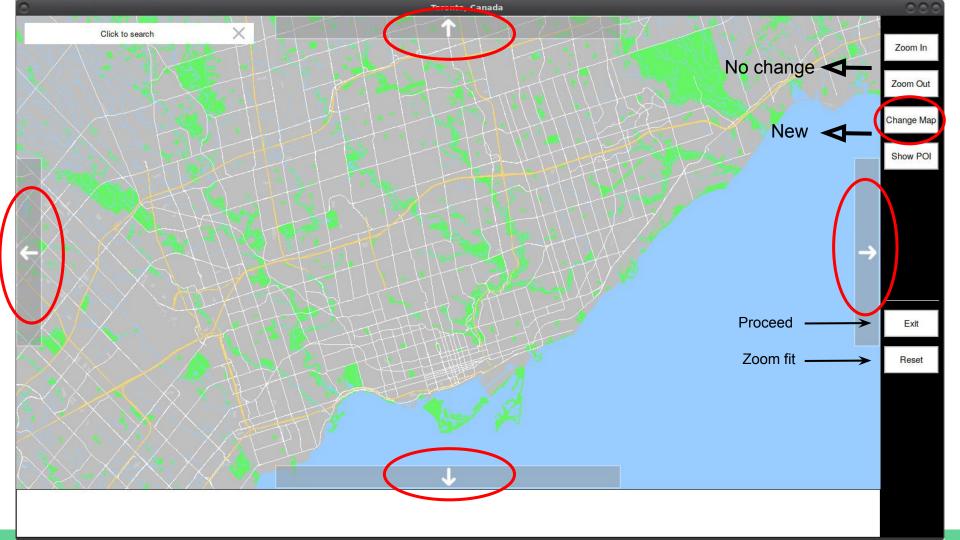
Constant feedback to the user

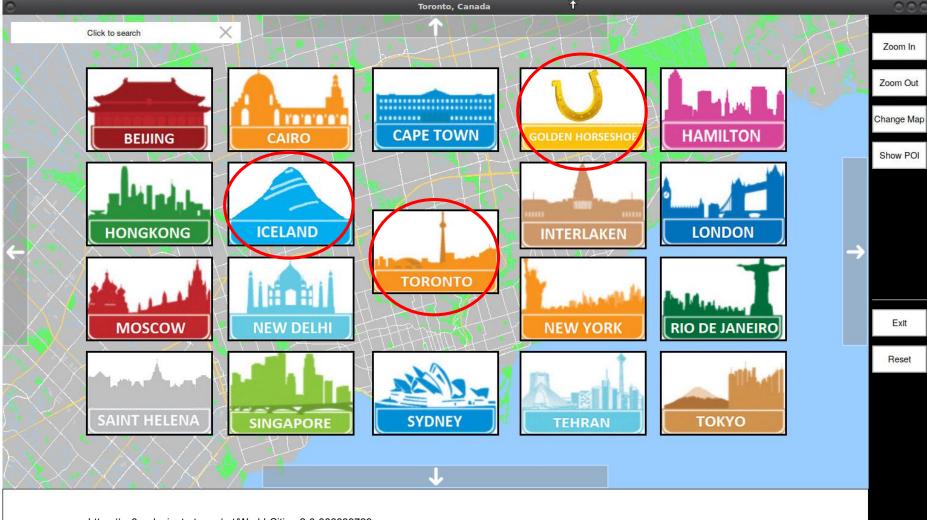
- 0.1 seconds
  - User feels directly in control
- 1 second
  - Does not break flow of application
- o 10 seconds
  - Still retains user attention

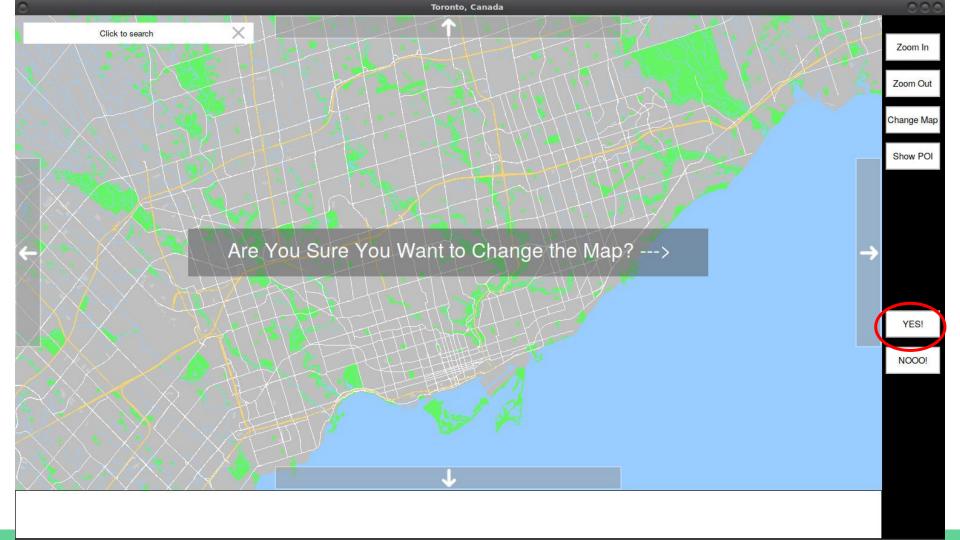


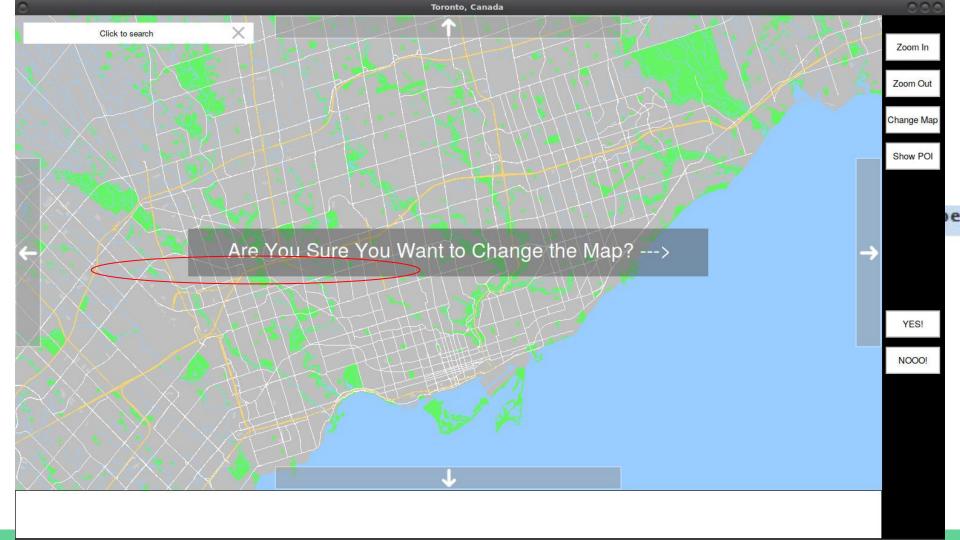
http://ags-aer.maps.arcgis.com/apps/webappviewer/index.html?id=cfb4ed4a8d7d43a9a5ff766fb8d0aee5

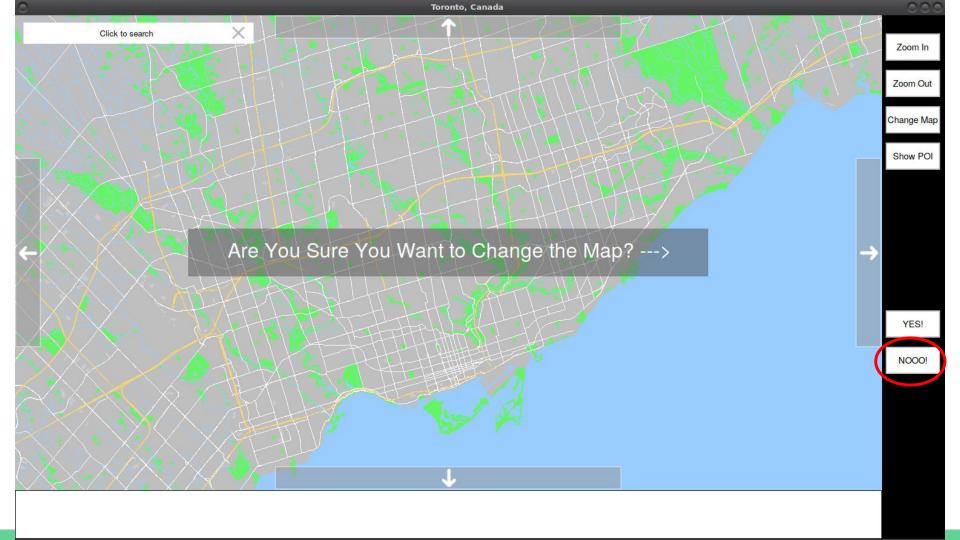
# Mapper Features

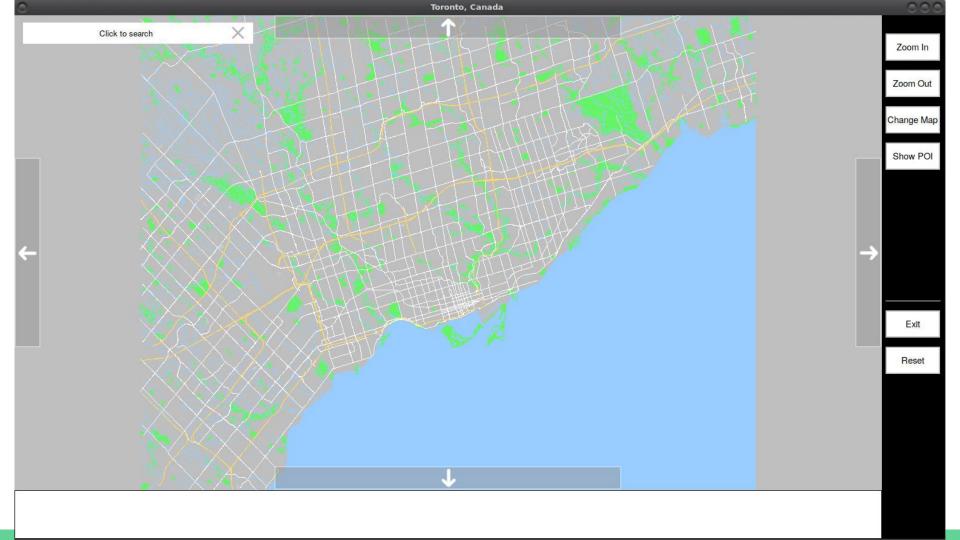












### POI classification prioritizes useful information

#### **Basics**







Restaurant

Fast Food

Cafe





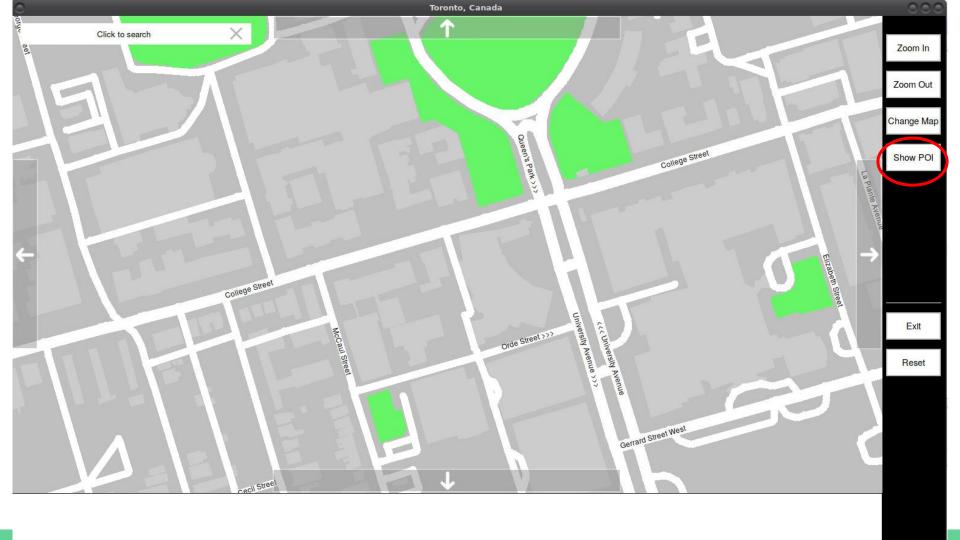
Parking

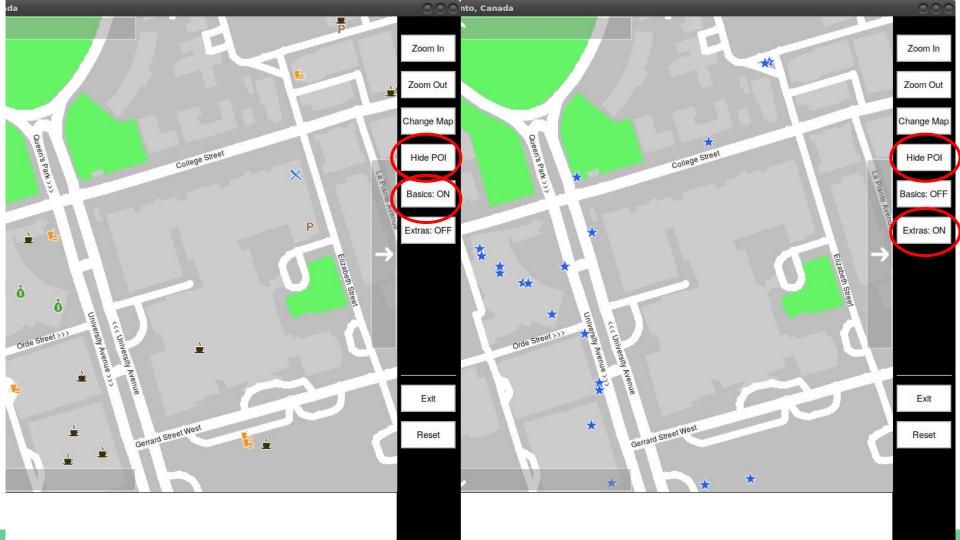
Bank

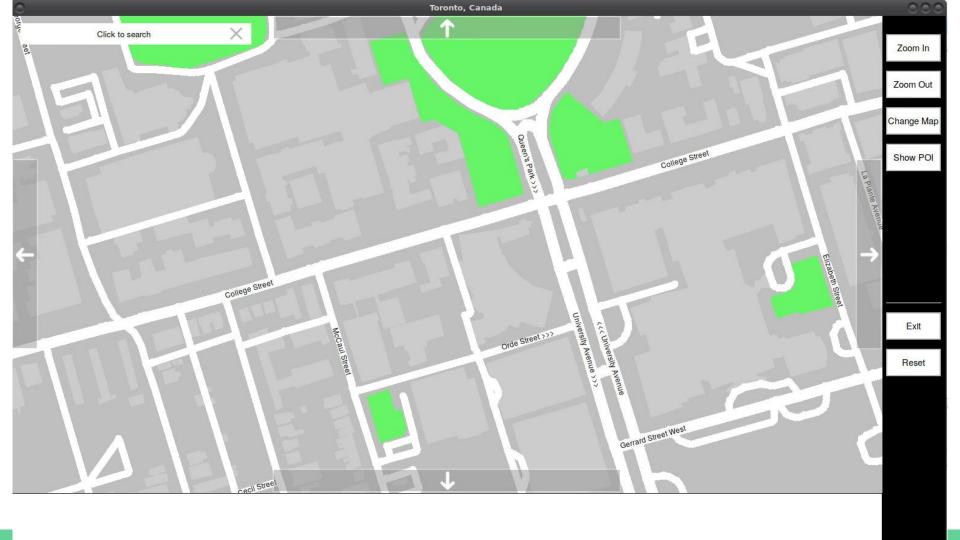
#### **Extras**



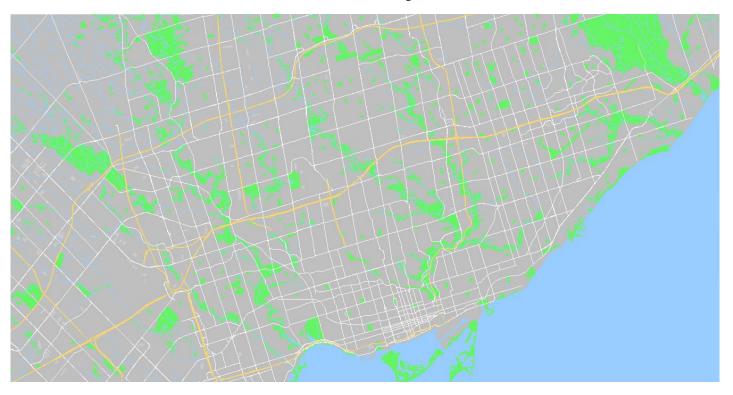
https://mapicons.mapsmarker.com/category/markers/transportation/road-transportation/ http://www.lavorofacile.info/news/item/1574-autisti-di-furgoni-e-camion-per-consegne-e-trasporto-a-roma-e-nel-lazio.html

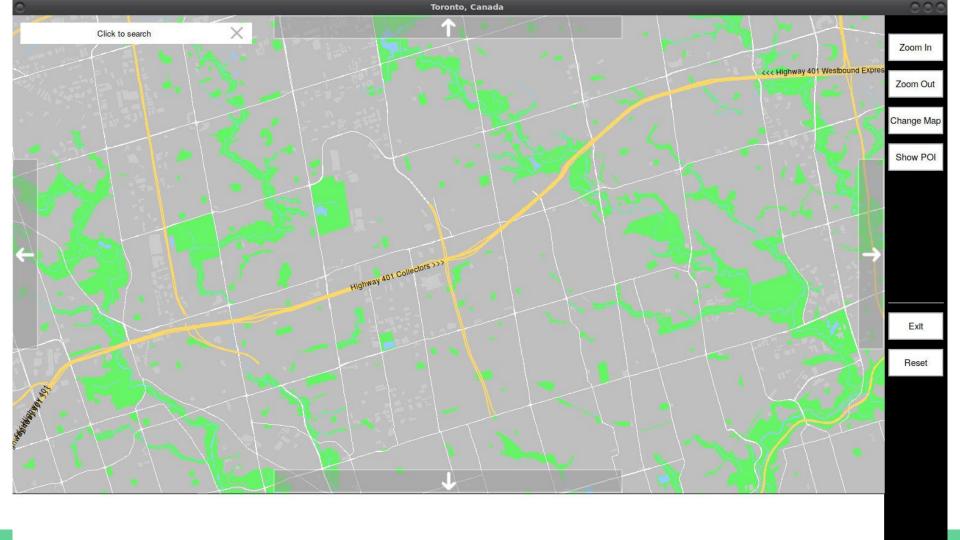


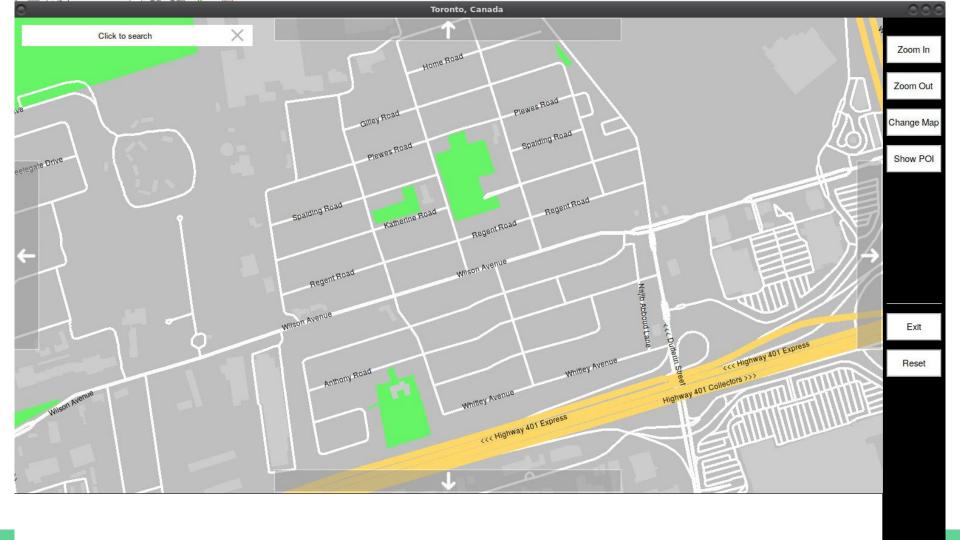


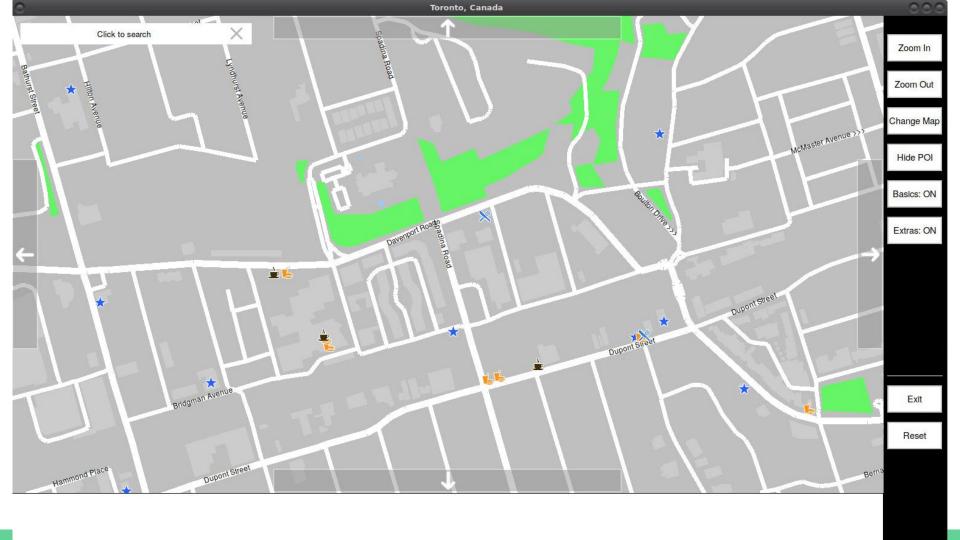


# Controlled Information Density reduces clutter

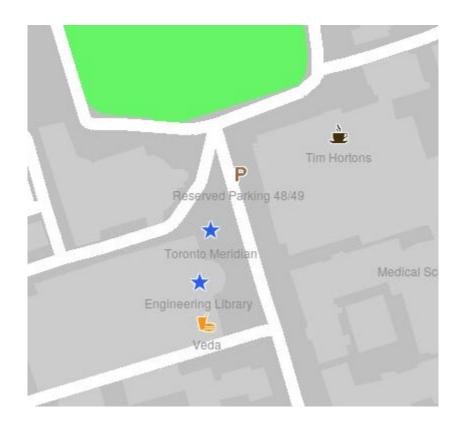




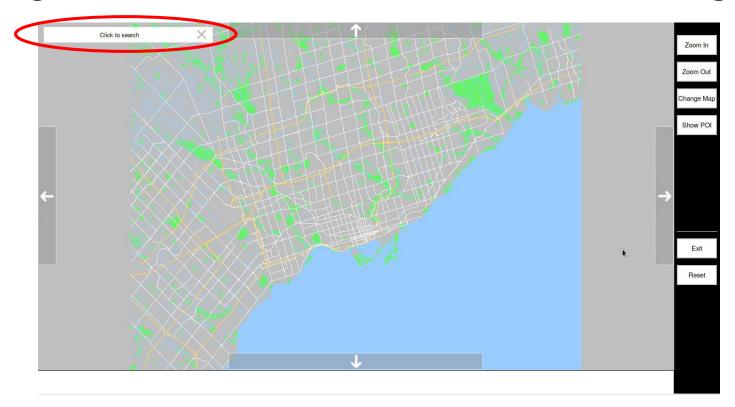








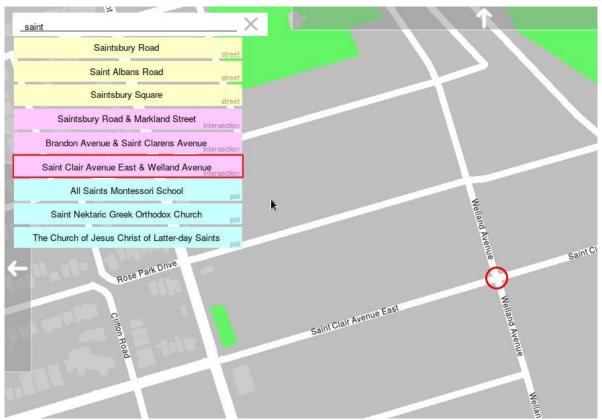
# Intelligent Search Bar reduces manual searching



### Intelligent Search Bar reduces manual searching



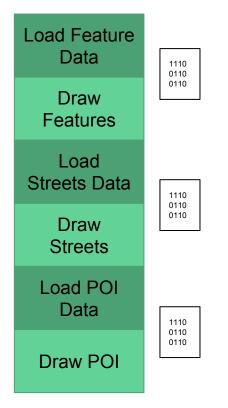
# Intelligent Search Bar reduces manual searching

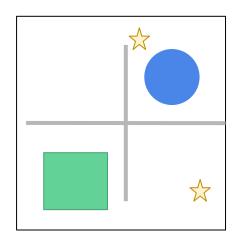


### Multithreading increases responsiveness

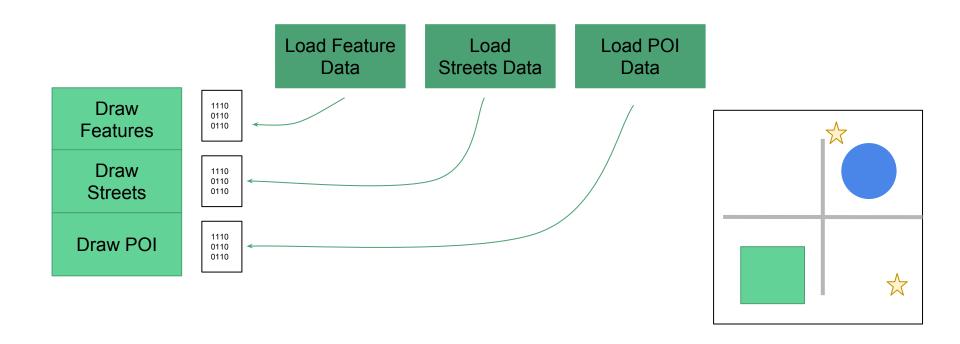
- What is multithreading?
  - O What is a thread?

### Single thread execution is inefficient





### Multi thread execution is faster



# Conclusion