## Geographic Information System

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1 Basics of GIS

GIS + Softwares Data Types

Play around with historical maps

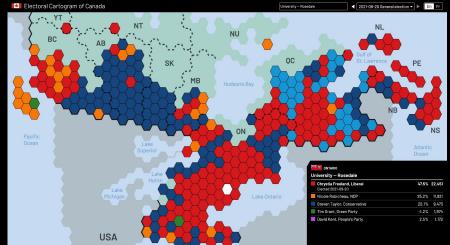
Mapbox Tutorial

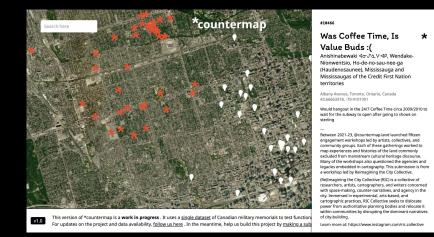
Building Mapbox Open Data Toronto Making a Map

Basics of GIS

### What does GIS let us do?







a spatial database that facilitates the storage and retrieval of data that define the spatial boundaries, lines or points of the entities





ArcGIS

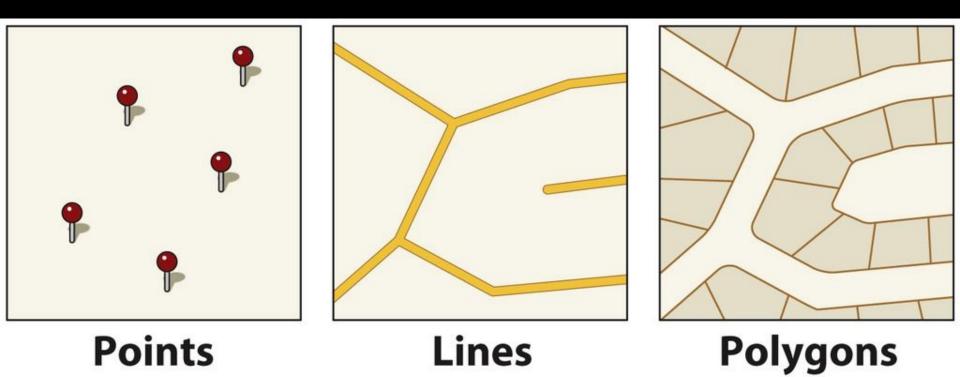


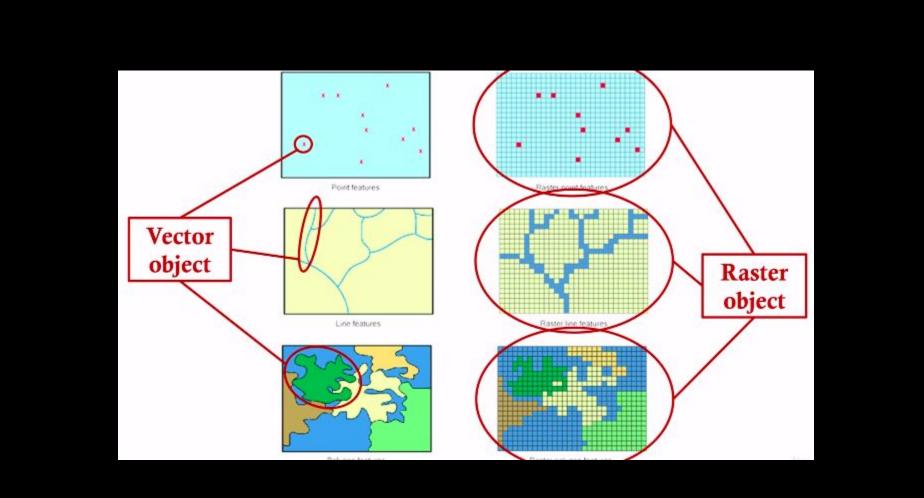
Figure 5.2
Introduction to Geospatial Technologies, Second Edition
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Name a point, line, and polygon on this map

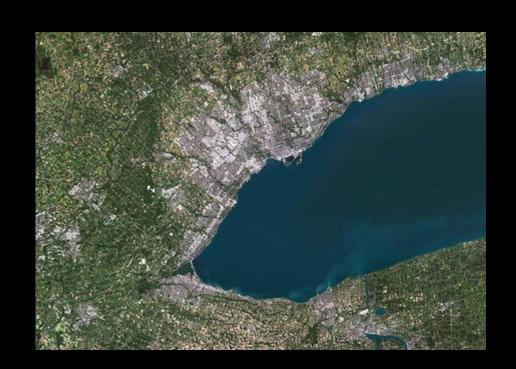


**Vector data** is stored as a series of X, Y coordinate pairs inside the computer's memory. Vector data is used to represent points, lines and areas.

Raster data are stored as a grid of values. Raster data are often images taken by satellites.



Is it raster data or vector data?



Is it raster data or vector data?

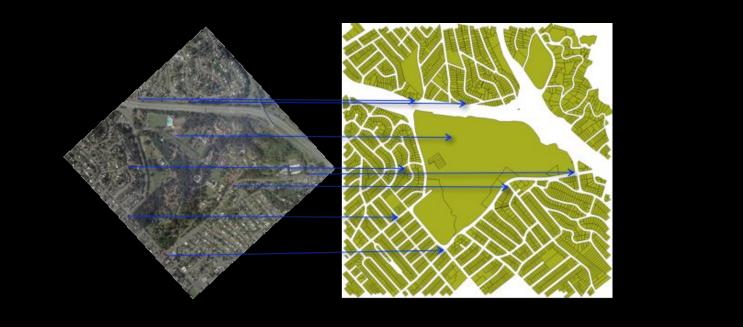


Is it raster data or vector data?



# 02

What does GIS let us do?



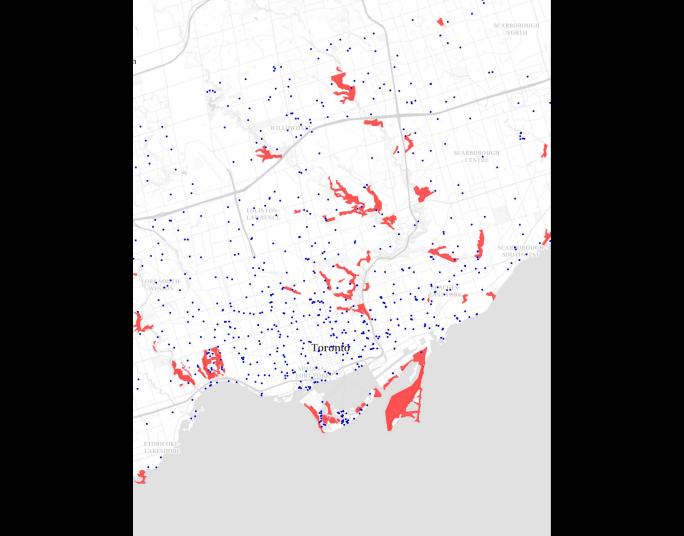


In breakout rooms of about 3 people for about 10 minutes, look through the different maps of Toronto from 1818 to present day. Come ready to share back with the group how the area around the Don River (or another waterway) has changed.

# 03

Mapbox Tutorial

Let's make a map



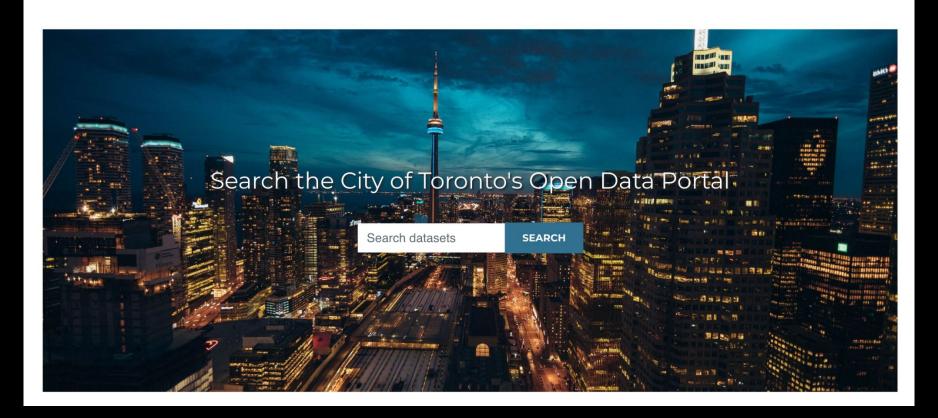


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