Spatial Analysis and Visualization using Tableau

Spatial analysis & visualization
- Introduction to Tableau

Individual Class Info

SOCL 2358: Current Issues in Cities and Suburbs
Gordana Rabrenovic
Spring 2020
Number of Students: 30
Time: MWR 9:50am–11:30am
Location: Snell Library 033
[Notes from Consultation with Gordana](#)

Summary of Module

This module demonstrates how to use the Tableau software suite to perform spatial analysis and visualizations. It is a two-day module. The first day will go over a tutorial and introduction to Tableau to teach students how to use the specific mapping and visualization software. The second day is a hands-on workshop where students will bring their own research questions to the data provided by Professor Rabrenovic and practice visualization and answering spatial questions using Tableau.

Learning Goals

Students will learn how to use spatial data in a powerful mapping software to produce professional visualizations. Furthermore, students will learn how to use the software to answer data-based research questions.

Learning Objectives

- Understand spatial data structure in the context of Tableau.
- Learn Tableau terminology and understand how Tableau displays data.
- Know how to plot points in Tableau based upon x/y coordinates.
- Understand filtering and visualization options for spatial data.
- Know how to visualize data using other Tableau methods like line or bar graphs.

Materials for Module

Handouts

Installing Tableau

Slides
Mapping with Tableau

Data
Building Permit CSV Data File
Tableau file Used in Presentation (.twb)

Example Visualizations