GEOG 491/891: Special Topics - Spatial Analysis in R

Week 8.02: Geometry, data structures, and the flipped classroom (continued)

Dr. Bitterman

Today's schedule

- Open discussion
- Something different
- For next class

Anything to discuss? Questions?

Remaining topics

- Week 9: Localized Spatial Analysis (Intro lab 3)
- Week 10: Rasters (Friday: update presentations)
- Week 11: Making maps (Intro lab 4)
- Week 12: Interactive mapping (Intro lab 5)
- Week 13: Applications
- Week 14: Thanksgiving week
- Week 15: Applications
- Week 16: Project presentations

This week's activity

- You all read (or should have) Chapter 5 from Lovelace (https://geocompr.robinlovelace.net/geometric-operations.html)
- Instead of me providing you with a step-by-step walkthrough of the readings, **you're** going to do the teaching
- A quasi-"flipped classroom"

Today's "spin"

- Work on your topics/plans until 3
- Then, we'll give a brief (5 min/each) overview of:
  - Your topic
  - Learning objectives
  - Your instructional technique
  - How you're checking for learning
  - What you learned, challenges
- We are NOT doing the instruction today

What to do

- Form small groups (I've assigned the groups)
- Each group will be assigned a topic (or topics) from this week's readings
- Your tasks:
    - Develop a short lesson demonstrating the method(s)
    - Include:
        a. Learning objectives (what students will learn)
        b. Why the concepts/methods are important/relevant
        c. How a student would accomplish the task(s)
        d. A way to check for learning (and teaching != learning)

All relevant resources can be found in the Lovelace chapter, but use what you think is relevant

What you can use

- Anything
  - Web resources
  - Sample data
  - Whatever format you want (e.g., PowerPoint, R Markdown, something else)

For this week

- Wildcard Friday is no-class Friday
- Monday/Tuesday are fall break
- Chapter 8 from your textbook
- Practice, practice, practice
- Lab 02 due Friday
- Work on your projects (in-class updates on 10/29)