

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

**Week 12.02: Interactive Mapping in R... activity time**

**Dr. Bitterman**

# Today's schedule

- Open discussion
- Group activity Leaflet (<https://rstudio.github.io/leaflet/>)

**Anything to discuss? Questions?**

# Remaining topics

- Week 12: Interactive mapping (Intro lab 5)
- Week 13: Applications
- Week 14: Thanksgiving week
- Week 15: Applications
- Week 16: Project presentations

# Today continues our experimental theme...

- Everyone has reviewed the readings/walkthrough for this week (<https://rstudio.github.io/leaflet/>)
- Today, we will...
  - i. break into teams
  - ii. complete tasks using Leaflet
  - iii. present (informally) your results, methods, challenges, etc. (maybe on Friday)

# Group 1 (Uzma, Kun-Yuan, Andy)

- Make a choropleth map of the population density of Nebraska Counties. There should be no more than 7 classes
- When the user "mouses over" a polygon, they should highlight, and a pop-up with the county name and population density should appear
- Place a legend in the bottom-right corner

## Challenges:

1. Add a minimap to the interface
2. Add a "locate me" button to the interface

## Group 2 (Iksoon, Jason, Kidus, Bailey)

- Make a map of the monitoring stations and removed dams in the Chesapeake Bay Watershed
- The monitoring stations should be symbolized as a filled, semi-transparent circle with the size scaled to the Drainage Area of the station
- Dam layer should be shaded by the year it was removed
- Add controls to turn individual layers on and off

### Challenges:

1. Use a custom icon for the dam layer
2. Add a control to the interface to change the base map

**GO!**



## For this week

- Readings posted on Canvas
- Lab 5 starts Friday
- Practice, practice, practice
- Work on your projects