Lab 05: Interactive Mapping in R

In the lab, you will demonstrate your skills in creating interactive maps using the leaflet package in R. Your task is to create an interactive map using either a sample layer (DSAG_POLY.shp) or your own data.

This lab is worth a total of 65 points and contributes 6.5% toward the final grade

Submit this word document by midnight (11:29 PM) on October 6.

Requirements:

Your interactive map should include the following functionalities:

- 1. **Basemaps** (10 points): Ensure your map contains at least one basemap option.
- 2. **Sample Layer or Your Data** (10 points): Include a sample layer (<u>Data Source</u>) or your own dataset in the map.
- 3. Colorization (15 points): Colorize your data based on a layer attribute. If using a sample layer, please utilize the 'Class' column for colorization.
- 4. **Pop-ups or Labels** (10 points): Add pop-ups or labels to display information about the layer.
- 5. **Layer Control** (10 points): Implement layer control for both basemaps and layers, allowing users to switch between options.
- 6. **Legend** (10 points): Include a legend that clearly explains the color coding of your map.

Extra Credit (10 points):

1. Add **highlightOptions** to your map based on the provided documentation: https://rstudio.github.io/leaflet/articles/shapes.html

Submission:

1. Please submit the link to your interactive map.

Example:

1. https://gisynw.github.io/DSGA/

Notice: if your file is larger than 25 MiB. You need to use command line to upload it.