

SOC 4650/5650: Lab-13 - Interactive Mapping of Structures at Risk

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Directions

Using data from the `data/lab-data/` folder available in the `module-5-leaflet` repository, create an interactive leaflet map using RStudio. Your entire project folder system should be uploaded to GitHub by Monday, May 10th at 4:15pm.

Analysis Development

The goal of this section is to create a self contained project directory with all of the data, code, map documents, results, and documentation a project needs. Please ensure **all** required elements are present. You will need both shapefiles included in the `data/lab-data/` subfolder in the `module-5-leaflet` repository.

Part 1: Data Exploration

The goal of this section is to initially explore the data.

1. List the variables in the mobile home data using `str()`.
2. Produce an interactive visual preview of the data using the `mapview` package.

Part 2: Interactive Mapping

The goal of this section is to create an interactive map using `leaflet`.

3. Use `names(providers)` to identify a basemap to use for your map.
4. Using a color ramp and basemap of your choice, symbolize the percentage of mobile homes in each county. Add a popup that has the county name as well as the percentage of mobile homes in that county on separate lines. The popup should be formatted like the ones we created during the lecture, with bold labels on separate lines for each characteristic on the pop-up. Your map should also have a legend and the legend's name should be edited for clarity. ¹

¹ *Hint:* There is no need to export this - make sure you have PhantomJS installed on your computer and it will be included in your final, knit document.

Analysis Development Follow-up

Don't forget to knit your document when you are done! Do not change the document output type to `html_document` - this was bonus material from class that does not need to be included here.