INTERACTIVE VISUALIZATION WITH R FOR SOCIAL SCIENTISTS

MODULE ONE - TOOLKIT

Module 1 gives an overview of interactive visualization, and explains how to set up the various toolkits you’ll be using throughout the course.

MODULE TWO: GETTING READY

- Typical workflow for interactive visualizations and reports - Overview of the workflow for putting together an interactive visualization and report
- Planning a story - What needs to be considered when planning visualizations and reports
- Getting data ready - Coverage of defined tidyverse packages to get data ready for visualization, along with a simple exercise
- A simple example of a workflow - Preparing data using tidyverse and producing a simple bar chart with plotly

MODULE THREE: INTERACTIVE CHARTS AND MAPS

- Producing charts with plotly - More in-depth look at using htmlwidget plotly to make a chart
- Producing charts with highcharter - Making a chart with highcharter and comparison to plotly
- Making an interactive map with leaflet and plotly - Creating a map with interactive markers
- Producing a network chart - Creating a network chart using tibbles and visNetwork

MODULE FOUR: SHINY BASICS AND R MARKDOWN

- Charts in shiny - Outputting htmlwidget charts in shiny
- Controls and UI - Adding and configuring controls
- Reactivity and publishing - Controlling when variables update, and publishing your app
- Creating an RMarkdown document - Creating the right type of document for your report
- Adding charts and code - Adding charts, code chunks and shiny apps
- Publishing - Publishing Rmarkdown documents