Web Apps in R

Shiny Package

- Shiny is an R package that allows you to build interactive Web Apps
- There are several extension packages to Shiny
 - Shinythemes, shinydashboard, shinyjs, etc.
- Web apps can be deployed on your own server (eg. Digital Ocean) or to Shinyapps.io
- There are lots of example codes to get you started at the Shiny Gallery (https://shiny.rstudio.com/)

Goals to learn:

- 1. Structure of a Shiny web app
- 2. Examples of Shiny web app
- 3. How to build a simple interactive web app

Structure of a Shiny Web App

- 1. 3 components:
 - a. User interface (ui.R)
 - b. Server function (server.R)
 - c. shinyApp function (fuses the UI and server components)
- 2. The UI is the frontend that accepts user input values
- 3. The Server is the backend that process these input values to finally produce output results that are finally displayed on the website



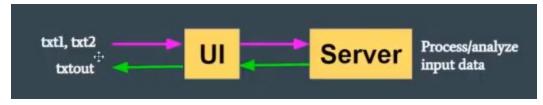
Shiny Themes

Code:

ui <- fluidPage(theme = shinytheme("superhero"),

To check the themes available: https://rstudio.github.io/shinythemes/

How does the UI and the Server interact?



How the App Looks:

