

# Advanced Visualization and Communication 1

PSDS 3300

Module 1

# R Shiny

**Shiny Apps**: A web application that delivers data visualizations to users.

Two key functions

- shinyUI – Controls layout and visualization of data
  - Also collects user input / interactions
- shinyServer – Runs the process on the server that responds to user requests
  - Rendering Updates
  - User Input Processing
  - etc.

# R Shiny Server

- Shiny Apps run on a Shiny Server

**`shiny.sgn.missouri.edu/students/psds.id/DATA-SCI-8654`**

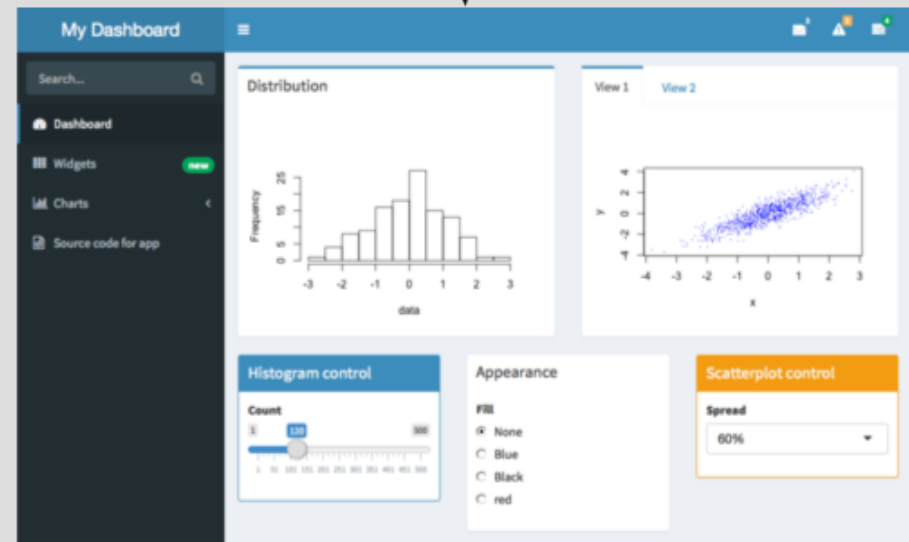
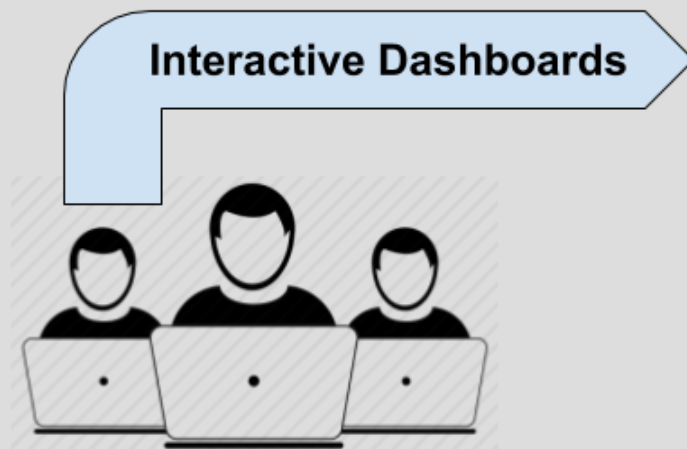
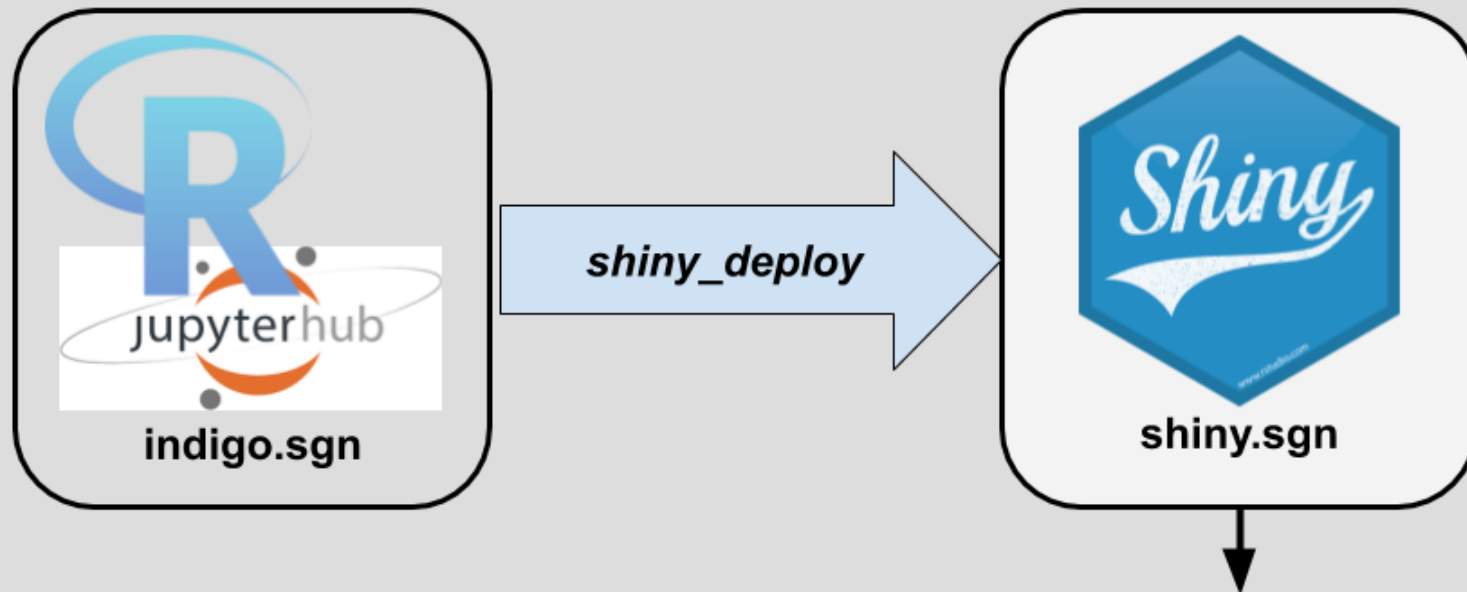
- Each application is deployed in a folder

Example:

<https://shiny.sgn.missouri.edu/students/scottgs/DATA-SCI-8654/module1-practice1/>

- Two R program files:
  - ***ui.R*** – shinyUI()
  - ***server.R*** – shinyServer()

# Shiny Deployments



# Module Activities

- Introductory Reading
  - Review quickly today!
  - Revisit after module 2 completed
- Learning activities leverage existing R knowledge from Boot Camp, Stat/Math, and Data Visualization
  - Introductory Lab
  - Practices
  - Exercise

# Trouble Shooting Errors

## An error has occurred

The application failed to start.

The application exited during initialization.

How to examine errors?

- Find log file: **`ls -lt ~/ShinyApps/log/ | head`**
- Review log file, pulling the top filename that corresponds to the current ShinyApp

**`less ~/ShinyApps/log/module2-exercise1-scottgs-20190614-221011-36350.log`**

# Enjoy!