Notes 4/3/19

Package Shiny Webb Applications

* When you open the file it will open app.R, can rename the file but should not because many functions call this name directly to work
* Input fxns, Output fxns, Rendering fxns

To Start:

* Library(shiny)
* Can click “Run App” to see a demonstration of the preloaded file ; the Old Faithful dataset as a histogram from base R

Input functions

* sliderInput(), numericInput(), fileInput()
  + Type of interface available to users giving inputs
* All assigned an ID: first thing you put in as a string, like a name
  + Ex: fluidPage(sliderInput(“bins”, “Number of bins:”, min =1, max = 50), plotOutput(“distPlot”)

User Interface

* ui <- fluidPage(

titlePanel(“nfojndf”)

selectorInput(InputId=”…”, label = “choose an option”, choices = colnames(faithful), selected = “eruptions”),

plotOutput(“histogram”)

)

* specify the layout, design it on scratch paper or draw it first
* **Important things:**

**Some Title**

{-----O--} slider

[ \_\_\_\_ } numeric

[] check box

Plot:

* + Input functions
  + Output functions

Server Part

* Basically a function
* Server <- function(input, output) {

# use the output Id defined in the input function of interest

Output$outputid <- renderPlot({

# Code for histogram or what you want to do

X <- faithful[, input$variable]

bins <- seq(…, length.out= input$bins + 1)

hist(x, breaks = bins, main = Input$variable)

}) }

To launch the shiny app page need to run the last line given in the app.R file:

* shinyApp(ui = ui, server = server)