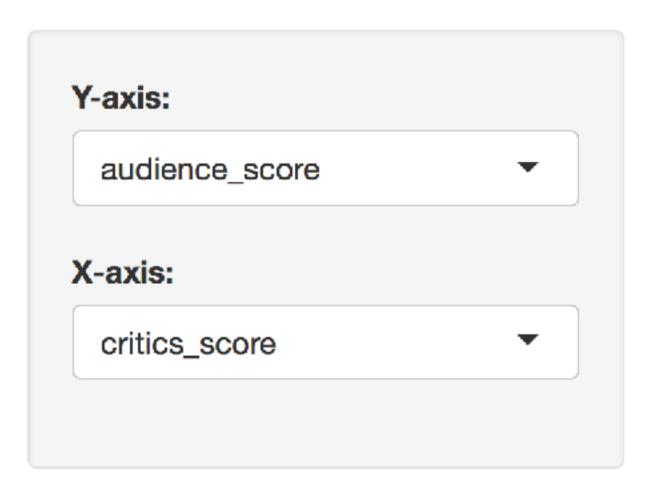


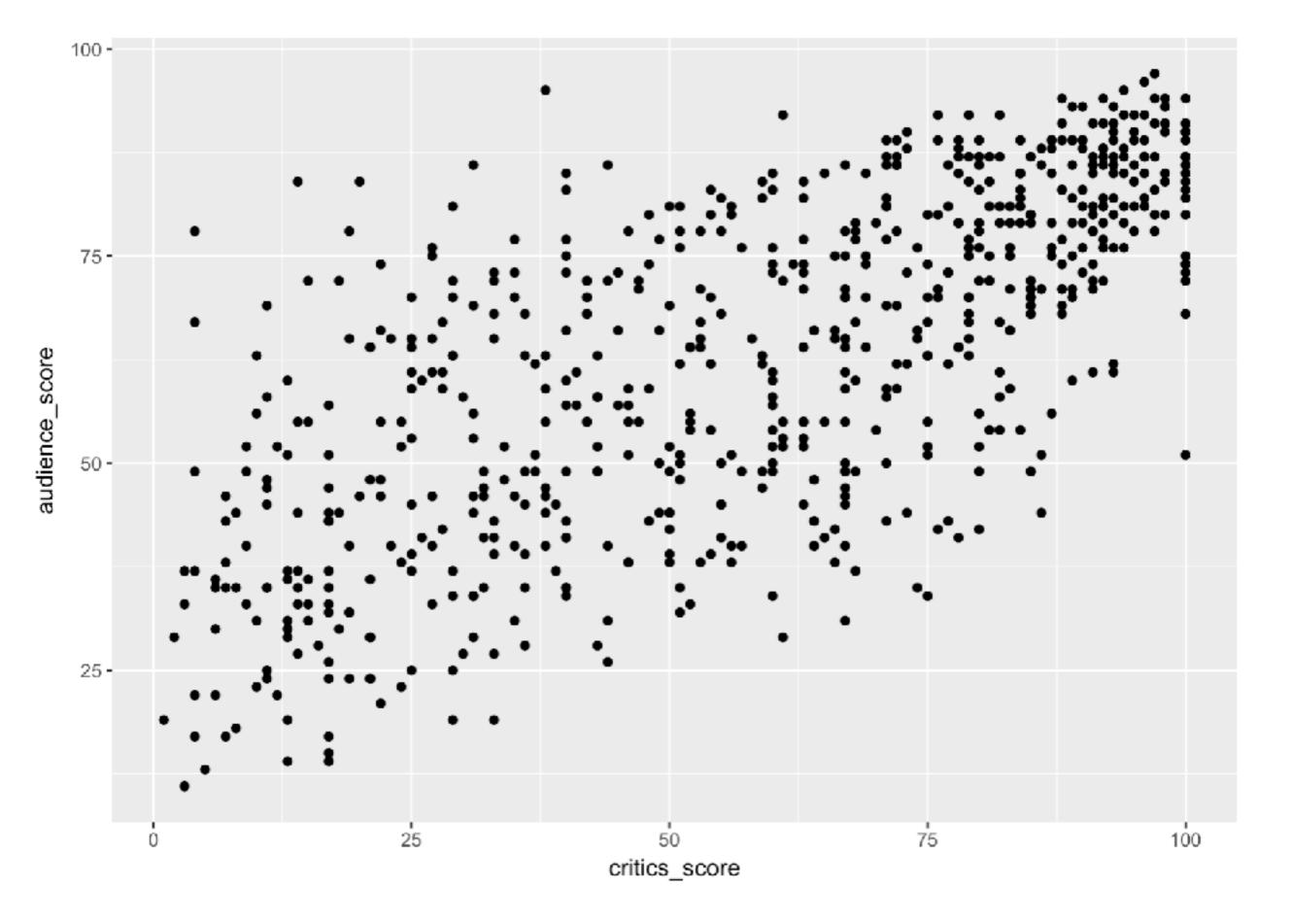


BUILDING WEB APPLICATIONS IN R WITH SHINY

Ul inputs







Inputs

collect values from the user

Access the current value of an input object with input\$<inputId>. Input values are reactive.

Action

actionButton(inputId, label, icon, . . .)

Link

actionLink(inputId, label, icon, ...)

checkboxGroupInput(inputId, label,

- Choice 1
- Choice 2
- Choice 3
- Check me

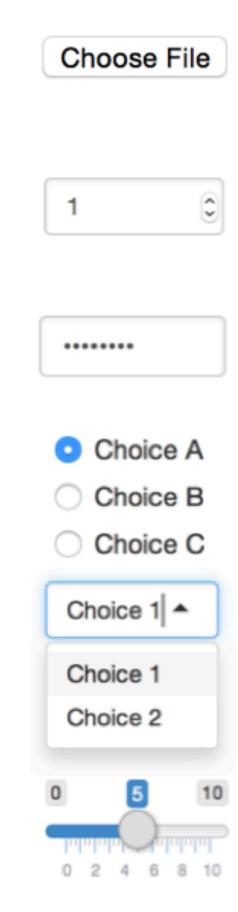
checkboxInput(inputId, label, value)

choices, selected, inline)

5 6 7 8 9 10 11

dateInput(inputId, label, value, min, max, format, startview, weekstart, language)

dateRangeInput(inputId, label, start, end, min, max, format, startview, weekstart, language, separator)



fileInput(inputId, label, multiple, accept) numericInput(inputId, label, value, min, max, step) passwordInput(inputId, label, value)

radioButtons(inputId, label, choices, selected, inline)

selectInput(inputId, label, choices, selected, multiple, selectize, width, size) (also selectizeInput())

sliderInput(inputId, label, min, max, value, step, round, format, locale, ticks, animate, width, sep, pre, post)



submitButton(text, icon) (Prevents reactions across entire app)

Enter text

textInput(inputId, label, value)



checkboxInput

Add a checkbox input to specify whether the data plotted should be shown in a data table.

- 1. **ui:** Add an input widget that the user can interact with to check/uncheck the box.
- 2. **ui:** Add an output defining where the data table should appear.
- 3. **server:** Add a reactive expression that creates the data table *if* the checkbox is checked.





checkboxInput

Add a checkbox input to specify whether the data plotted should be shown in a data table.

1. **ui:** Add an input widget that the user can interact with to check/uncheck the box.





Watch for commas!

checkboxlnput

Add a checkbox input to specify whether the data plotted should be shown in a data table.

2. **ui:** Add an output to the UI defining where the data table should appear.

```
mainPanel(
    # Show scatterplot
    plotOutput(outputId = "scatterplot"),
    # Show data table
    DT::dataTableOutput(outputId = "moviestable")
)
```



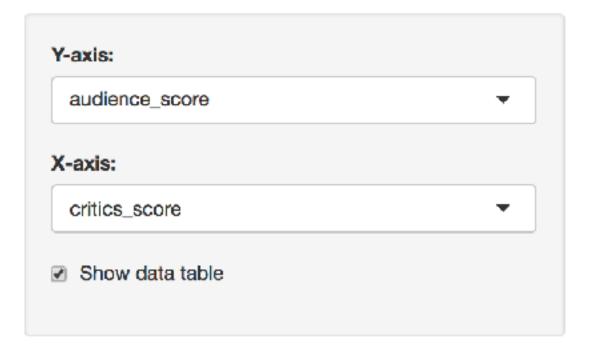
checkboxInput

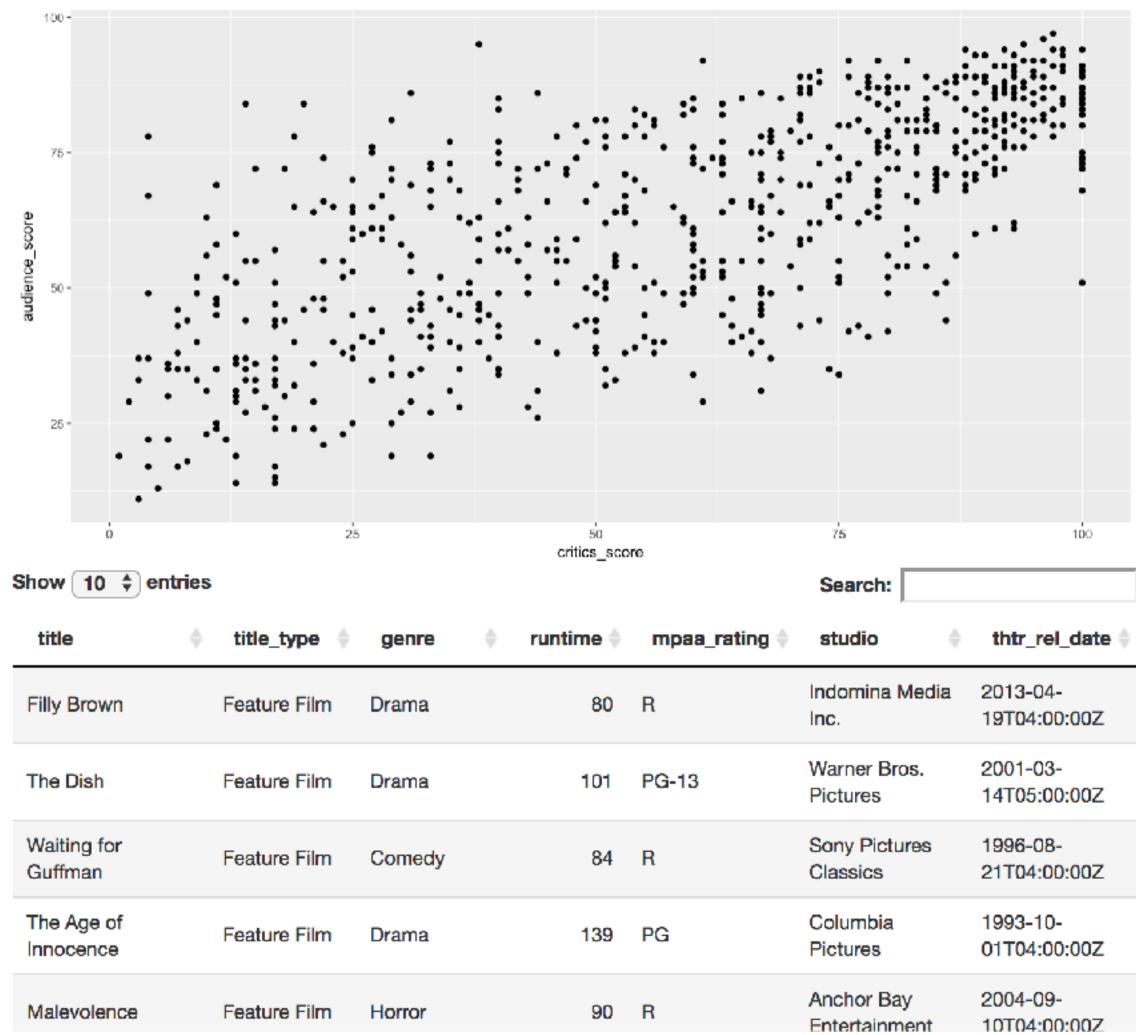
Add a checkbox input to specify whether the data plotted should be shown in a data table.

3. **server:** Add a reactive expression that creates the data table *if* the checkbox is checked.

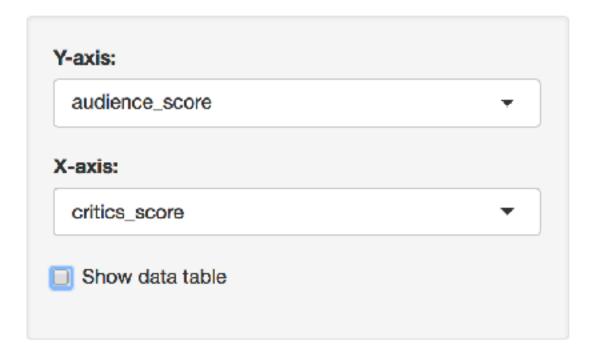
```
# Print data table if checked
output$moviestable <- DT::renderDataTable({
   if(input$show_data){
     DT::datatable(data = movies %>% select(1:7),
     options = list(pageLength = 10),
     rownames = FALSE)
   }
})
```

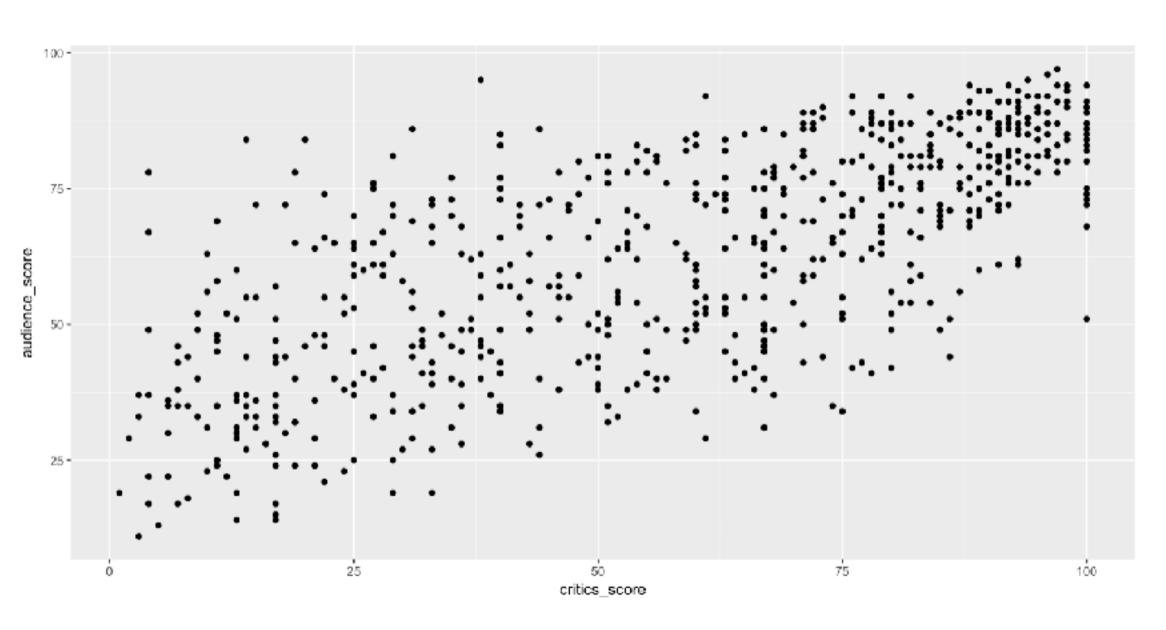














- We saw that the data loaded on top of the Shiny app is visible to the server.
- It is also visible to the UI.





BUILDING WEB APPLICATIONS IN R WITH SHINY

Let's practice!