By:

Hiba Ben Aribi

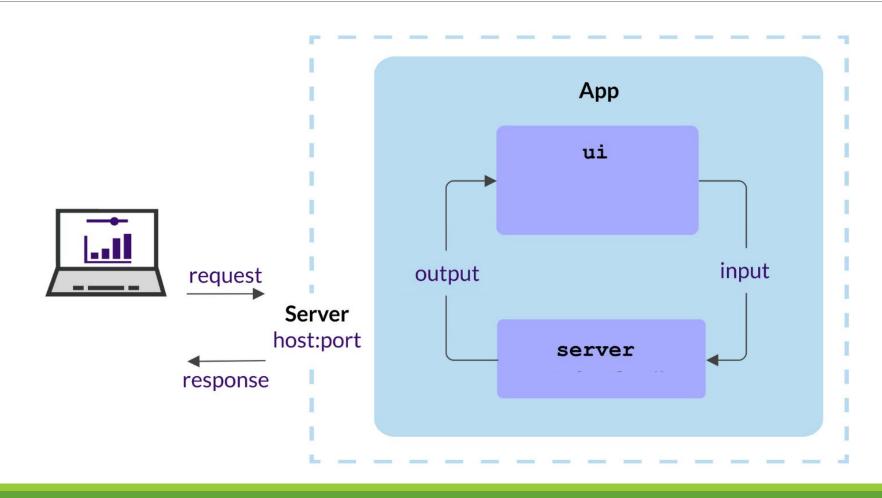
**Affiliation:** 



National Institute of Applied Science and Technology, Tunisia

# Workshop R Shiny Application Development

# Introduction To Shiny





# Start the tutorial

#### GitHub:

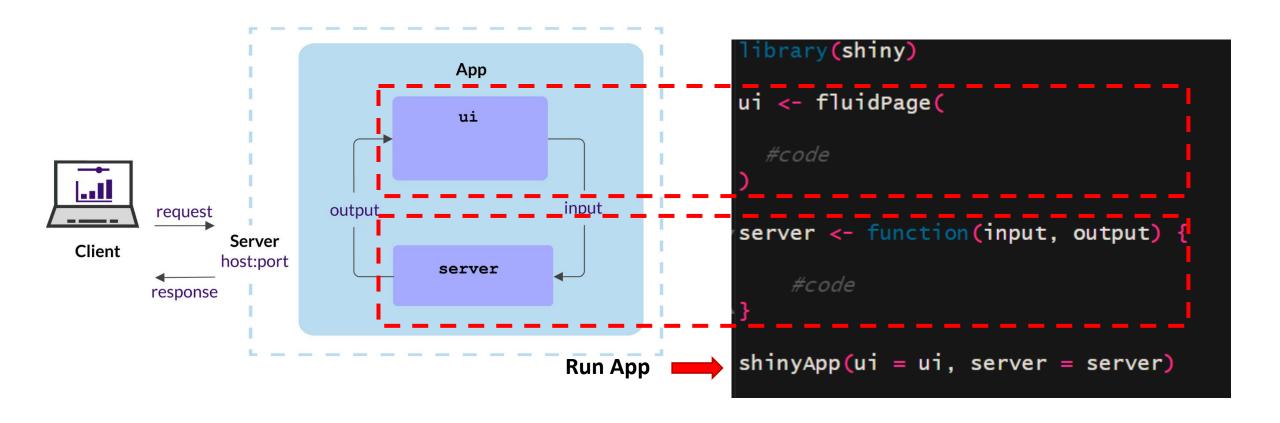
- https://github.com/HibaBenAribi/Learn\_Shiny
- https://bit.ly/Learn\_Shiny



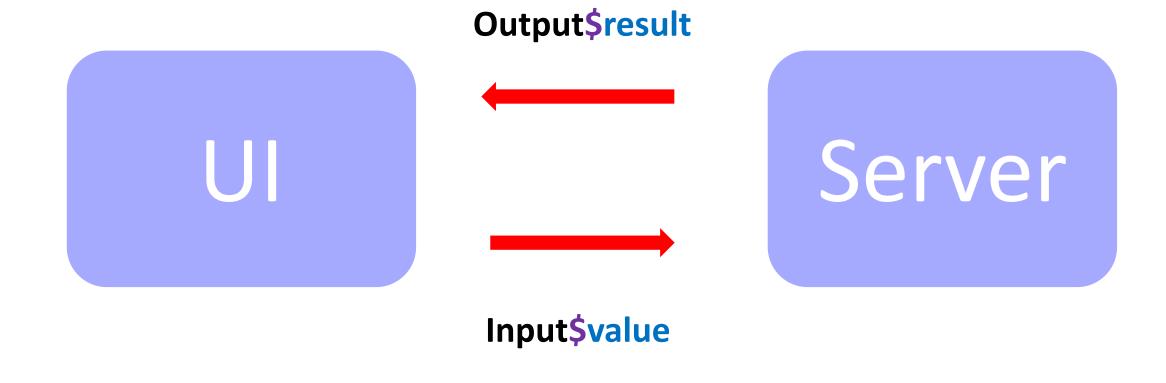
# Requirements

- Install R
- Install R studio
- Install dependencies

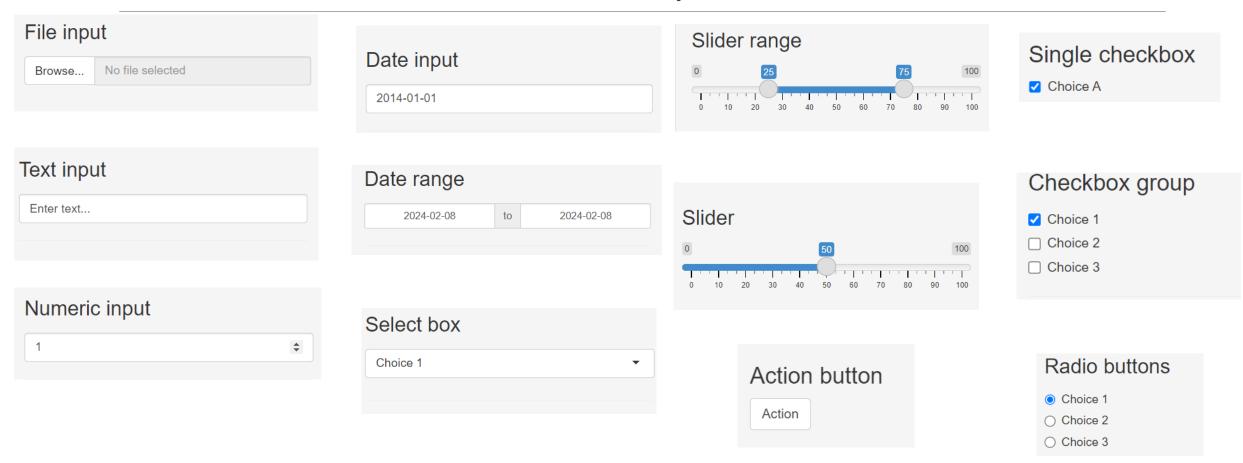
# Shiny App Layout

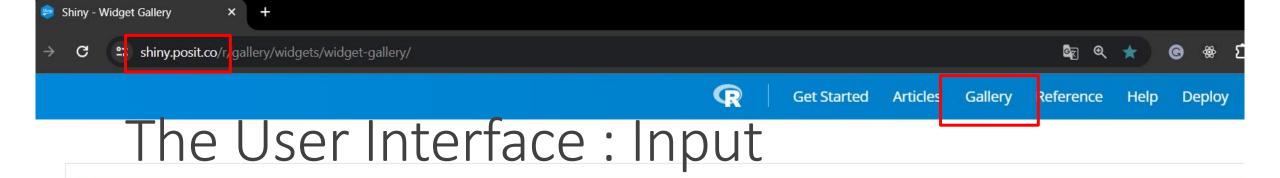


```
library(shiny)
                                        ui <- fluidPage(
                                            titlePanel(" Title "),
                                            sidebarLayout(
                                                 sidebarPanel(
           ui
output
                     input
                                                 mainPaneī(
         server
                                        server <- function(input, output) {</pre>
                                          # code
                                        shinyApp(ui = ui, server = server)
```



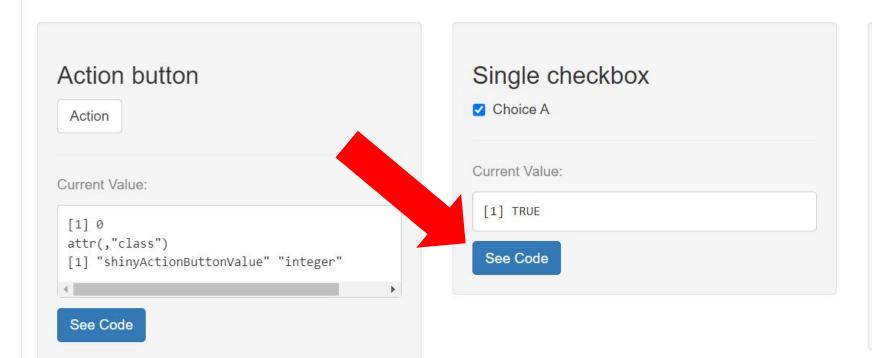
# The User Interface: Input





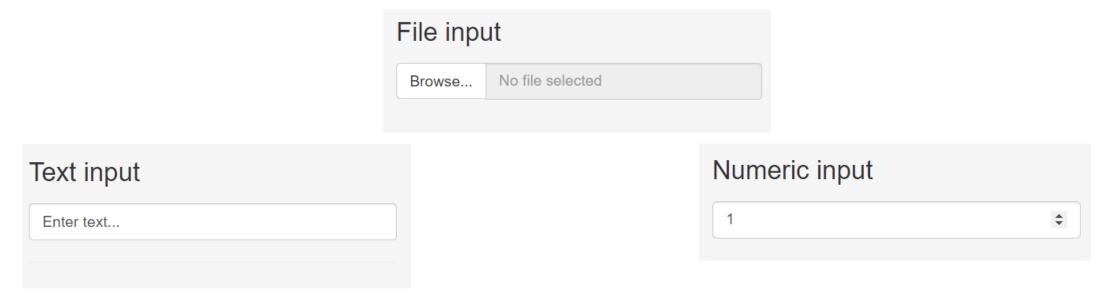
#### Shiny Widgets Gallery

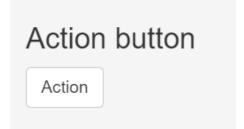
For each widget below, the Current Value(s) window displays the value that the widget provides to shinyServer. Notice that the values change as you interact with the widgets.



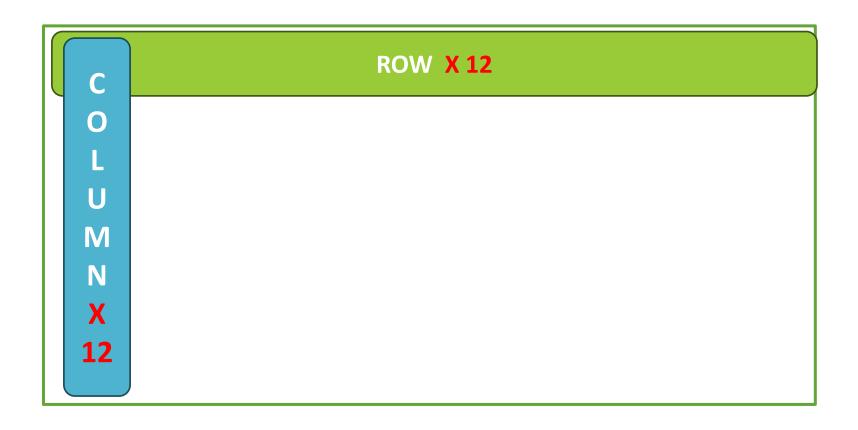
Checkbox group
✓ Choice 1
Choice 2
☐ Choice 3
Current Values:
[1] "1"
See Code

# The User Interface: Input

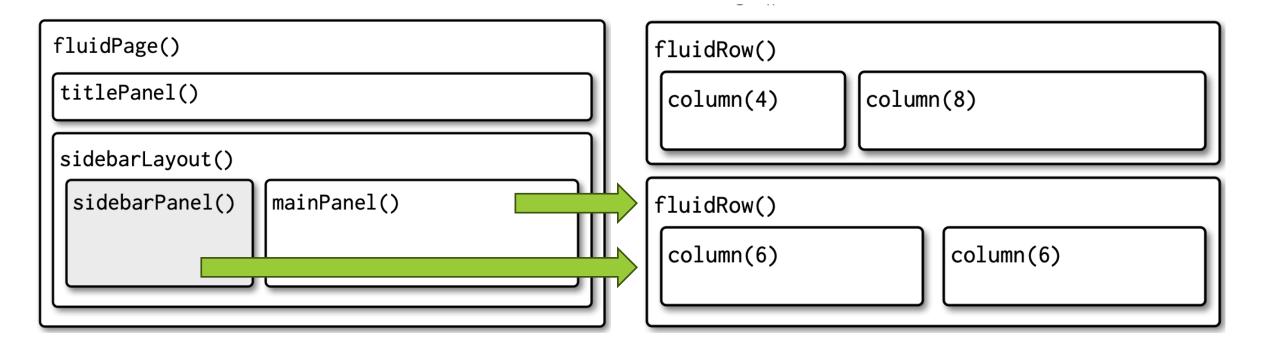




## The User Interface: columns and rows



### The User Interface: columns and rows



# Advanced design

https://shiny.posit.co/r/getstarted/build-an-app/customizing-ui/theming.html

https://shiny.posit.co/r/articles/build/dashboards/

https://rstudio.github.io/shinydashboard/get\_started.html

https://daattali.com/shiny/shinycssloaders-demo/

https://github.com/daattali/shinycssloaders

Let's create a Shiny Application for gene expression data visualization

#### Contact me

Hiba Ben Aribi

Email: benaribi.hiba@gmail.com

Linkdeen: Hiba Ben Aribi

https://www.linkedin.com/in/hibaben-aribi-b29634239/

# Thank you for your attention