

Shiny – Part 1

Shiny App – Skeleton

```
library(shiny)
library(bslib)

# Define user interface
ui <- page_sidebar(
  # App title
  title = "APP TITLE HERE",
  # Sidebar
  sidebar = sidebar(
    width = 350,
    "Description of app here",
    # widget code here

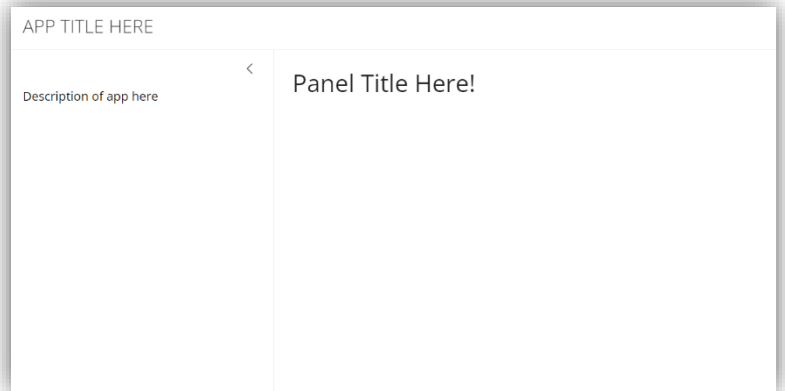
  ),
  # Main Panel
  titlePanel("Panel Title Here!"),

)

# Define server logic
server <- function(input, output) {

}

# Run the app
shinyApp(ui = ui, server = server)
```

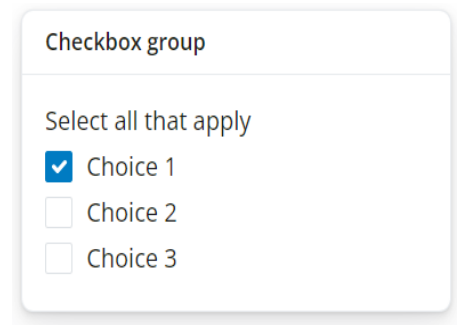


Widgets

Checkbox Group

Codes:

```
card(  
  card_header("Checkbox group"),  
  checkboxGroupInput(  
    inputId = "checkGroup",  
    label = "Select all that apply",  
    choices = list("Choice 1" = 1, "Choice 2" = 2, "Choice 3" = 3),  
    selected = 1)  
)
```



Checkbox group

Select all that apply

☒ Choice 1

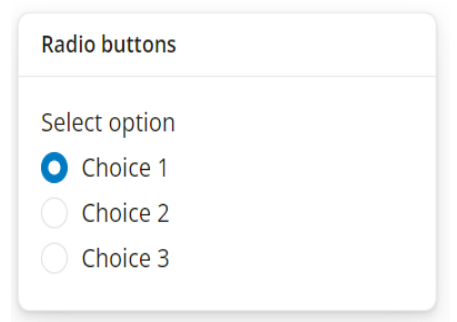
☐ Choice 2

☐ Choice 3

Radio Buttons

Codes:

```
card(  
  card_header("Radio buttons"),  
  radioButtons(  
    inputId = "radio",  
    label = "Select option",  
    choices = list("Choice 1" = 1, "Choice 2" = 2, "Choice 3" = 3),  
    selected = 1)  
)
```



Radio buttons

Select option

☒ Choice 1

☐ Choice 2

☐ Choice 3

Select Box

Codes:

```
selectInput(  
  inputId = "select",  
  label = "Select option",  
  choices = list("Choice 1" = 1, "Choice 2" = 2, "Choice 3" = 3),  
  selected = 1),
```

Select option

Choice 1 ▼

Select option

Choice 1 ▲

Choice 1

Choice 2

Choice 3

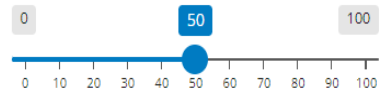
Sliders

Codes:

```
card(  
  card_header("Sliders"),  
  sliderInput(  
    inputId = "slider",  
    label = "Set value",  
    min = 0,  
    max = 100,  
    value = 50)  
),
```

Sliders

Set value



To Recreate 1

File Name: shiny_app_widget_checkbox

My First App!

My name is Widad Abdalla, and I am very excited to make my first shiny app! :D.

Can't wait to see what goes on this panel!

Countries

From the following, what countries have you traveled to? Check all that apply:

- ☐ Canada
- ☐ UAE
- ☒ USA
- ☐ Brazil
- ☐ UAE
- ☐ China

To Recreate 2

File Name: shiny_app_widget_radio_button

Best Singers

In this app, users will choose their favorite singer.

Timeline of Singers

Best Singers

Who is/are the best singer/s?

- ☒ Elvis Presley
- ☐ The Beatles
- ☐ If you selected The Beatles, you will get an automatic F in this class!

To Recreate 3

File Name: shiny_app_widget_select_box

Zodiac Signs App

<

In this app, people will choose their zodiac sign, and the app will tell them an interval of when their birthday happens.

What is your Zodiac Sign?

Capricorn

Birthday Range

Closer look at the widget

What is your Zodiac Sign?

Capricorn

Aries

Taurus

Gemini

Cancer

Leo

Virgo

Libra

To Recreate 4

File Name: shiny_app_widget_slider

How Old Are You?

<

This app will give you information based on the age a specific person is.

Age

How old are you?

5

27

95

5

14

23

32

41

50

59

68

77

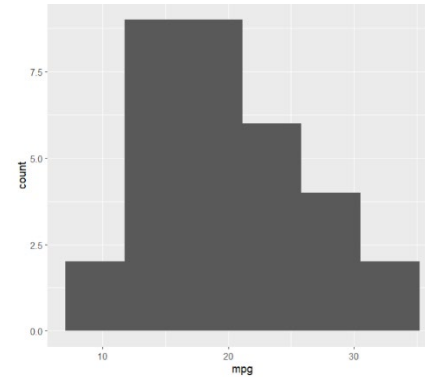
86

95

Information

Shiny – Part 2

```
plot_1 <- mtcars %>%  
  ggplot(aes(x = mpg)) +  
  geom_histogram(bins = 6)  
plot_1
```



Shiny App – Skeleton

```
library(shiny)  
library(bslib)  
  
# Define user interface  
ui <- page_sidebar(  
  
  # App title  
  title = "APP TITLE HERE",  
  
  # Sidebar  
  
  sidebar = sidebar(  
    width = 350,  
    "Description of app here",  
  )  
)
```

```
# widget code here

),

# Main Panel

titlePanel("Panel Title Here!"),

plotOutput(outputId = "display_plot")

)

# Define server logic
server <- function(input, output) {

  output$display_plot <- renderPlot({

  })

}

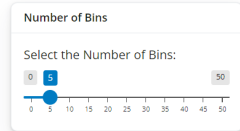
# Run the app
shinyApp(ui = ui, server = server)
```


To Recreate 1

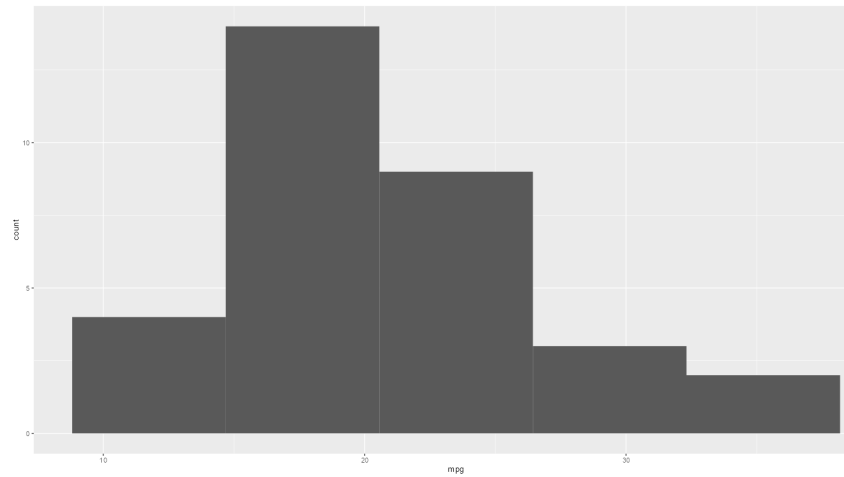
File Name: shiny_app_histogram_1

Hello Shiny!!!

On this app, you can choose the number of bins for the histogram. The dataset is mtcars and the variable is mpg.



Histogram for MPG

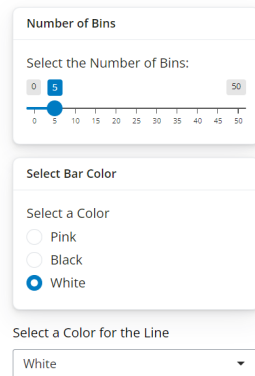


To Recreate 2

File Name: shiny_app_histogram_2

Hello Shiny!!!

On this app, you can choose the number of bins for the histogram. The dataset is mtcars and the variable is mpg.



Histogram for MPG

