

Quiz 1

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1.

Which of the following are absolutely necessary for creating a functioning shiny app? (Check all that apply)



A server.R file containing a call to shinyServer()



Correct



A ui.R file that contains information about the CSS and styling of the App



Un-selected is correct



A ui.R file containing a call to shinyUI()



Correct



A server.R file that sets configuration options for hosting the App



Un-selected is correct



A shiny.R file containing calls to shinyServer() and shinyUI()



Un-selected is correct



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points

2.

What is incorrect about the following syntax in ui.R?

```
1 library(shiny)
2 shinyUI(pageWithSidebar(
3   headerPanel("Data science FTW!"),
4   sidebarPanel(
5     h2('Big text')
6     h3('Sidebar')
7   ),
8   mainPanel(
9     h3('Main Panel text')
10  )
11 ))
```

☐ The h2 command does not take text arguments

☒ Missing a comma in the sidebar panel



Correct

☐ Missing comma after the h3 command

☐ The h3 command should be an h2 command



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points

3.

Consider the following in ui.R

```
1 shinyUI(pageWithSidebar(  
2   headerPanel("Example plot"),  
3   sidebarPanel(  
4     sliderInput('mu', 'Guess at the mu',value = 70, min = 60, max = 80, step =  
       0.05,)) ,  
5   mainPanel(  
6     plotOutput('newHist')  
7   )  
8 ))
```

And the following in server.R

```
1 library(UsingR)  
2 data(galton)  
3  
4 shinyServer(  
5   function(input, output) {  
6     output$myHist <- renderPlot({  
7       hist(galton$child, xlab='child height', col='lightblue',main  
         ='Histogram')  
8       mu <- input$mu  
9       lines(c(mu, mu), c(0, 200),col="red",lwd=5)  
10      mse <- mean((galton$child - mu)^2)  
11      text(63, 150, paste("mu = ", mu))  
12      text(63, 140, paste("MSE = ", round(mse, 2)))  
13    })  
14  })
```

Why isn't it doing what we want? (Check all that apply.)

- ☐ The phrase "Guess at the mu value" should say "mean" instead of "mu"
- ☒ The server.R output name isn't the same as the plotOutput command used in ui.R.

Correct

- ☐ The limits of the slider are set incorrectly and giving an error.
- ☐ It should be

```
1 mu <- input$mean
```

in server.R



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points

4.

What are the main differences between creating a Shiny Gadget and creating a regular Shiny App?
(Check all that apply)



☒ Shiny Gadgets are designed to be used by R users in the middle of a data analysis.



Correct

☐ Shiny Gadgets are smaller programs and therefore run faster than Shiny Apps.



Un-selected is correct

☐ Shiny Gadgets can be run on a user's personal computer, unlike a regular Shiny App which needs to be hosted online.



Un-selected is correct

☐ Shiny Gadgets are specially designed for use on mobile phones and tablet computers.



Un-selected is correct

☐ Shiny Gadgets are designed to have small user interfaces that fit on one page.



Correct



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points

5.

Consider the following R script:

```
1 library(shiny)
2 library(miniUI)
3
4 pickXY <- function() {
5   ui <- miniPage(
6     gadgetTitleBar("Select Points by Dragging your Mouse"),
7     miniContentPanel(
8       plotOutput("plot", height = "100%", brush = "brush")
9     )
10  )
11
12  server <- function(input, output, session) {
13    output$plot <- renderPlot({
14      plot(data_frame$X, data_frame$Y, main = "Plot of Y versus X",
15           xlab = "X", ylab = "Y")
16    })
17    observeEvent(input$done, {
18      stopApp(brushedPoints(data_frame, input$brush,
19                            xvar = "X", yvar = "Y"))
20    })
21  }
22
23  runGadget(ui, server)
24 }
25
26 my_data <- data.frame(X = rnorm(100), Y = rnorm(100))
27
28 pickXY(my_data)
```

Why isn't it doing what we want?

- ☐ The input data is defined in such a way that it is not compatible with pickXY()
- ☐ The wrong column names are passed to brushedPoints()
- ☒ No arguments are defined for pickXY()

Correct

- ☐ The call to plot() references the column names of the data frame in the wrong order.