

Feedback — Quiz 1

Help

You submitted this quiz on **Sun 7 Dec 2014 1:54 AM PST**. You got a score of **4.00** out of **5.00**. You can [attempt again](#), if you'd like.

Question 1

Consider the following code for the cars data set

```
library(manipulate)
myPlot <- function(s) {
  plot(cars$dist ~ mean(cars$dist), cars$speed ~ mean(cars$speed))
  abline(0, s)
}
```

This function plots distance versus speed, each de-meaned and an associated line of slope s.

Which of the following code will make a manipulate plot that creates a slider for the slope?

Your Answer	Score	Explanation
<input type="radio"/> <code>manipulate(myPlot(s), s = slider(0, 2, step = 0.1))</code>		
<input type="radio"/> <code>manipulate(myPlot(s), x.s = slider(0, 2, step = 0.1))</code>		
<input checked="" type="radio"/> <code>manipulate(myPlot(s), slider = x(0, 2, step = 0.1))</code>	✖ 0.00	
<input type="radio"/> <code>manipulate(myPlot, s = slider(0, 2, step = 0.1))</code>		
Total	0.00 / 1.00	

Question 2

Which of the following code uses the `rCharts` package to create a sortable and searchable data table for the `airquality` data set? Assume the `rCharts` package and the `airquality` data set have already been loaded into R.

Your Answer	Score	Explanation
<input checked="" type="radio"/> <code>dTable(airquality, sPaginationType = "full_numbers")</code>	✓ 1.00	
<input type="radio"/> <code>d</code>		
<input type="radio"/> <code>airquality</code>		
<input type="radio"/> <code>head(airquality)</code>		
Total	1.00 / 1.00	

Question 3

A basic shiny data product requires:

Your Answer	Score	Explanation
<input type="radio"/> A <code>server.R</code> file only.		
<input type="radio"/> A <code>shiny.R</code> file.		
<input checked="" type="radio"/> A <code>ui.R</code> and <code>server.R</code> file or a <code>server.R</code> file and a directory called <code>www</code> containing the relevant html files.	✓ 1.00	
<input type="radio"/> A <code>ui.R</code> file only.		
Total	1.00 / 1.00	

Question 4

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

```
library(shiny)
shinyUI(pageWithSidebar(
  headerPanel("Data science FTW!"),
  sidebarPanel(
    h2('Big text')
    h3('Sidebar')
  ),
  mainPanel(
    h3('Main Panel text')
  )
))
```

Your Answer	Score	Explanation
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☐ Missing a comma in the sidebar panel ✓ 1.00

☐ The `h2` command has the wrong arguments.

☐ The `"Sidebar"` should say `"Sidebar text"`.

☐ The `h3` command should be an `h2` command.

Total 1.00 / 1.00

Question 5

Consider the following code in `ui.R`

```
shinyUI(pageWithSidebar(  
  headerPanel("Example plot"),  
  sidebarPanel(  
    sliderInput('mu', 'Guess at the mu', value = 70, min = 60, max = 80, step = 0.05,  
  ),  
  mainPanel(  
    plotOutput('newHist')  
  )  
))
```

And the following `server.R` code.

```
library(UsingR)  
data(galton)  
  
shinyServer(  
  function(input, output) {  
    output$myHist <- renderPlot({  
      hist(galton$child, xlab='child height', col='lightblue', main='Histogram')  
      mu <- input$mu  
      lines(c(mu, mu), c(0, 200), col="red", lwd=5)  
      mse <- mean((galton$child - mu)^2)  
    })  
  })
```

```
text(63, 150, paste("mu = ", mu))
text(63, 140, paste("MSE = ", round(mse, 2)))
})

}

)
```

Why isn't it doing what we want?

Your Answer	Score	Explanation
<input type="radio"/> It should be <code>mu in server.R</code>		
<input type="radio"/> The phrase "Guess at the mu value" should say "mean" instead of "mu"		
<input type="radio"/> The limits of the slider are set incorrectly and giving an error.		
<input checked="" type="radio"/> The server.R output name isn't the same as the plotOutput command used in ui.R.	✓ 1.00	
Total	1.00 / 1.00	

