

## Feedback — Quiz 1

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Thank you. Your submission for this quiz was received.

You submitted this quiz on **Mon 2 Feb 2015 10:55 PM PST**. You got a score of **5.00** out of **5.00**.

### 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 = slider(0, 2, step = 0.1))</code>		
<input checked="" type="radio"/> <code>manipulate(myPlot(s), s = slider(0, 2, step = 0.1))</code>	✓ 1.00	
<input type="radio"/> <code>manipulate(myPlot(s), x.s = slider(0, 2, step = 0.1))</code>		
<input type="radio"/> <code>manipulate(myPlot(s), slider = x(0, 2, step = 0.1))</code>		
Total	1.00 / 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 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.		
<input type="radio"/> A <code>shiny.R</code> file.		
<input type="radio"/> A <code>server.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
<input type="radio"/> The <code>h3</code> command should be an <code>h2</code> command.		
<input type="radio"/> The <code>h2</code> command has the wrong arguments.		
<input type="radio"/> The <code>"Sidebar"</code> should say <code>"Sidebar text"</code> .		
<input checked="" type="radio"/> Missing a comma in the sidebar panel	✓ 1.00	
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 = 0.0
5,)
  ),
  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</code> in <code>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 <code>server.R</code> output name isn't the same as the <code>plotOutput</code> command used in <code>ui.R</code> .	✓ 1.00	
Total	1.00 /	

