

## Feedback — Quiz 1

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You submitted this quiz on **Sun 10 May 2015 7:56 AM PDT**. 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 = x(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 = slider(0, 2, step = 0.1))</code>		
<input type="radio"/> <code>manipulate(myPlot(s), x.s = slider(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**

`dTable(airquality, sPaginationType = "full_numbers")` ✓ 1.00

`d`

`airquality`

`head(airquality)`

Total

1.00 / 1.00

## Question 3

A basic shiny data product requires:

**Your Answer****Score****Explanation**

A `shiny.R` file.

A `ui.R` file only.

A `ui.R` and `server.R` file or a `server.R` file and a directory called `www` containing the relevant html files. ✓ 1.00

A `server.R` file only.

Total

1.00 /  
1.00

## Question 4

What is incorrect about the followig 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**

- The "Sidebar" should say "Sidebar text".
- The `h3` command should be an `h2` command.
- The `h2` command has the wrong arguments.
- 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 = 0.05,)
  ),
  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"/> The phrase "Guess at the mu value" should say "mean" instead of "mu"		
<input type="radio"/> It should be <code>mu in server.R</code>		
<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	

