#### Feedback — Week 2 Quiz

Help Center

Thank you. Your submission for this quiz was received.

You submitted this quiz on **Tue 10 Mar 2015 6:51 PM PDT**. You got a score of **10.00** out of **10.00**.

### **Question 1**

Under the lattice graphics system, what do the primary plotting functions like xyplot() and bwplot() return?

Your Answer		Score	Explanation
an object of class "plot"			
an object of class "lattice"			
nothing; only a plot is made			
an object of class "trellis"	~	1.00	
Total		1.00 / 1.00	

### **Question 2**

What is produced by the following code?

library(nlme)
library(lattice)
xyplot(weight ~ Time | Diet, BodyWeight)

Your Answer Score Explanation

A set of 16 panels showing the relationship between weight

A set of 3 panels showing the relationship between weight and time for each rat.		
A set of 11 panels showing the relationship between weight and diet for each time.		
A set of 3 panels showing the relationship between weight and time for each diet.	~	1.00
Total		1.00 /
		1.00

Annotation of plots in any plotting system involves adding points, lines, or text to the plot, in addition to customizing axis labels or adding titles. Different plotting systems have different sets of functions for annotating plots in this way. Which of the following functions can be used to annotate the panels in a multi-panel lattice plot?

our Answer		Score	Explanation
points()			
lines()			
panel.Imline()	~	1.00	
text()			
- otal		1.00 / 1.00	

## **Question 4**

The following code does NOT result in a plot appearing on the screen device.

library(lattice)

```
library(datasets)
 data(airquality)
 p <- xyplot(Ozone ~ Wind | factor(Month), data = airquality)</pre>
Which of the following is an explanation for why no plot appears?
 Your Answer
                                                                                   Explanation
                                                                       Score
 The variables being plotted are not found in that dataset.
 The object 'p' has not yet been printed with the appropriate
                                                                      1.00
 print method.
 The xyplot() function, by default, sends plots to the PDF
 device.
 There is a syntax error in the call to xyplot().
 Total
                                                                       1.00 /
                                                                       1.00
```

In the lattice system, which of the following functions can be used to finely control the appearance of all lattice plots?

Your Answer		Score	Explanation
● trellis.par.set()	~	1.00	
print.trellis()			
par()			
splom()			
Total		1.00 / 1.00	

#### **Question 6**

Your Answer		Score	Explanation
the Grammar of Graphics developed by Leland Wilkinson	~	1.00	
the S language originally developed by Bell Labs			
the base plotting system in R			
a 3D visualization system			
Total		1.00 / 1.00	

Load the `airquality' dataset form the datasets package in R.

```
library(datasets)
data(airquality)
```

I am interested in examining how the relationship between ozone and wind speed varies across each month. What would be the appropriate code to visualize that using ggplot2?

Your Answer		Score	Explanation
0			
qplot(Wind, Ozone, data = airquality, facets = . ~ factor(Month))			
0			
<pre>qplot(Wind, Ozone, data = airquality, geom = "smooth")</pre>			
•	~	1.00	
airquality = transform(airquality, Month = factor(Month))			
qplot(Wind, Ozone, data = airquality, facets = . ~ Month)			
0			
qplot(Wind, Ozone, data = airquality)			
Total		1.00 / 1.00	

What is a geom in the ggplot2 system?

Your Answer		Score	Explanation
<ul> <li>a plotting object like point, line, or other shape</li> </ul>	~	1.00	
a method for mapping data to attributes like color and size			
a method for making conditioning plots			
a statistical transformation			
Total		1.00 / 1.00	

## **Question 9**

When I run the following code I get an error:

```
library(ggplot2)
g <- ggplot(movies, aes(votes, rating))
print(g)</pre>
```

I was expecting a scatterplot of 'votes' and 'rating' to appear. What's the problem?

Your Answer		Score	Explanation
The object 'g' does not have a print method.			
There is a syntax error in the call to ggplot.			
• ggplot does not yet know what type of layer to add to the plot.	~	1.00	
The dataset is too large and hence cannot be plotted to the screen.			
Total		1.00 /	
		1.00	

The following code creates a scatterplot of 'votes' and 'rating' from the movies dataset in the ggplot2 package. After loading the ggplot2 package with the library() function, I can run

```
qplot(votes, rating, data = movies)
```

How can I modify the the code above to add a smoother to the scatterplot?

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