Feedback — Week 2 Quiz

Help

You submitted this quiz on **Fri 2 Jan 2015 6:31 PM PST**. You got a score of **10.00** out of **10.00**. However, you will not get credit for it, since it was submitted past the deadline.

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 "trellis"	~	1.00	
an object of class "plot"			
an object of class "lattice"			
nothing; only a plot is made			
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 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

1.00

and time for each diet.

A set of 3 panels showing the relationship between weight and time for each rat.

Total

1.00 /
1.00

Question 3

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?

1.00	
1.00	
1.00	
1.00	
1.00 / 1.00	
	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		Score	Explanation
The object 'p' has not yet been printed with the appropriate print method.	~	1.00	

 The variables being plotted are not found 	in that dataset.
The xyplot() function, by default, sends plot device.	ots to the PDF
There is a syntax error in the call to xyplot	t().
Total	1.00 /
	1.00
	1.00

Question 5

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

Question 6

What is ggplot2 an implementation of?

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

Question 7

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
	~	1.00	
airquality = transform(airquality, Month = factor(Month))			
qplot(Wind, Ozone, data = airquality, facets = . ~ Month)			
qplot(Wind, Ozone, data = airquality)			
qplot(Wind, Ozone, data = airquality, geom = "smooth")			
qplot(Wind, Ozone, data = airquality, facets = . ~ factor(Mont			
h))			
Total		1.00 /	
		1.00	

Question 8

What is a **geom** in the ggplot2 system?

Your Answer		Score	Explanation
a plotting object like point, line, or other shape	~	1.00	
a statistical transformation			
a method for mapping data to attributes like color and size			
a method for making conditioning plots			
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 dataset is too large and hence cannot be plotted to the screen.		
• ggplot does not yet know what type of layer to add to the plot.	1 .00	
There is a syntax error in the call to ggplot.		
The object 'g' does not have a print method.		
Total	1.00 /	
	1.00	

Question 10

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?

Total	1.00 / 1.00	