Feedback - Week 2 Quiz

Thank you. Your submission for this quiz was received.

You submitted this quiz on **Sun 12 Apr 2015 8:23 PM IST**. 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?

	Score	Explanation
~	1.00	
	1.00 / 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 3 panels showing the relationship between weight and time for each diet. 	~	1.00	

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

Your Answer		Score	Explanation
_ text()			
opoints()			
Ipoints()	~	1.00	
Olines()			
Total		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
There is a syntax error in the call to xyplot().		

s not yet been printed with the appropriate 1.00
tion, by default, sends plots to the PDF
ing plotted are not found in that dataset.
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?

our Answer	Score	Explanation
print.trellis()		
splom()		
par()		
trellis.par.set()	1.00	
otal	1.00 / 1.00	
ll	1.00 / 1.00	

Question 6

What is ggplot2 an implementation of?

	Score	Explanation
~	1.00	
	1.00 / 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
<pre>qplot(Wind, Ozone, data = airquality, facets = . ~ factor(Mont h))</pre>		
\odot	✓ 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")		
Total	1.00 /	
	1.00	

Question 8

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

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

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
 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.			
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?

Your Answer	Score	Explanation
<pre>qplot(votes, rating, data = movies, panel = panel.loess)</pre>		
• qplot(votes, rating, data = movies) + geom_smooth()	1.00	
<pre>qplot(votes, rating, data = movies) + stats_smooth("loess")</pre>		

