Feedback — Week 2 Quiz

Help

You submitted this quiz on **Sat 17 May 2014 11:19 AM CEST**. 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
nothing; only a plot is made			
an object of class "plot"			
an object of class "lattice"			
an object of class "trellis"	~	1.00	
- otal		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 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.			
A set of 11 panels showing the relationship between weight and diet for each time.			

```
A set of 16 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
points()			
text()			
ollines()	~	1.00	
lines()			
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
The xyplot() function, by default, sends plots to the PDF device.		
There is a syntax error in the call to xyplot().		

The variables being plotted are not found in that dataset.	
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
par()			
oprint.trellis()			
splom()			
<pre>@trellis.par.set()</pre>	~	1.00	
Total		1.00 / 1.00	

Question 6

What is ggplot2 an implementation of?

Your Answer		Score	Explanation
ethe Grammar of Graphics developed by Leland Wilkinson	~	1.00	
a 3D visualization system			
the S language originally developed by Bell Labs			
the base plotting system in R			
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
•			
qplot(Wind, Ozone, data = airquality, geom = "smooth")			
•	~	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, facets = . ~ factor(Month))		
Total		1.00 / 1.0	0

Question 8

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

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

```
Your Answer

qplot(votes, rating, data = movies, smooth = "loess")

qplot(votes, rating, data = movies) +
stats_smooth("loess")

qplot(votes, rating, data = movies) + geom_smooth()

qplot(votes, rating, data = movies, panel = panel.loess)
```

Total	1.00 /
	1.00

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