

Week 1 Quiz

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The **due date** for this quiz is **Sun 9 Aug 2015 4:30 PM PDT**.

☒ In accordance with the Coursera Honor Code, I (Ankush Baburao Koratkar) certify that the answers here are my own work. **Thank you!**

Question 1

Which of the following is a principle of analytic graphics?

- ☒ Show causality, mechanism, explanation
- ☐ Make judicious use of color in your scatterplots
- ☐ Show box plots (univariate summaries)
- ☐ Only do what your tools allow you to do
- ☐ Don't plot more than two variables at at time

Question 2

What is the role of exploratory graphs in data analysis?

- ☐ They are used in place of formal modeling.

- ☐ Only a few are constructed.
- ☐ They are made for formal presentations.
- ☒ The goal is for personal understanding.

Question 3

Which of the following is true about the base plotting system?

- ☐ Margins and spacings are adjusted automatically depending on the type of plot and the data
- ☒ Plots are created and annotated with separate functions
- ☐ Plots are typically created with a single function call
- ☐ The system is most useful for conditioning plots

Question 4

Which of the following is an example of a valid graphics device in R?

- ☐ The keyboard
- ☐ A Microsoft Word document
- ☐ A file folder
- ☒ The computer screen

Question 5

Which of the following is an example of a vector graphics device in R?

- ☐ TIFF
- ☒ Postscript
- ☐ PNG
- ☐ GIF

Question 6

Bitmapped file formats can be most useful for

- ☐ Plots that are not scaled to a specific resolution
- ☐ Plots that require animation or interactivity
- ☒ Scatterplots with many many points
- ☐ Plots that may need to be resized

Question 7

Which of the following functions is typically used to add elements to a plot in the base graphics system?

- ☐ plot()
- ☐ boxplot()

- ☒ points()
- ☐ hist()

Question 8

Which function opens the screen graphics device on Windows?

- ☐ postscript()
- ☐ jpeg()
- ☒ windows()
- ☐ xfig()

Question 9

What does the 'pch' option to par() control?

- ☒ the plotting symbol/character in the base graphics system
- ☐ the orientation of the axis labels on the plot
- ☐ the line width in the base graphics system
- ☐ the size of the plotting symbol in a scatterplot

Question 10

If I want to save a plot to a PDF file, which of the following is a correct way of doing that?

- ☐ Open the PostScript device with `postscript()`, construct the plot, then close the device with `dev.off()`.
- ☒ Construct the plot on the screen device and then copy it to a PDF file with `dev.copy2pdf()`
- ☐ Open the screen device with `quartz()`, construct the plot, and then close the device with `dev.off()`.
- ☐ Construct the plot on the PNG device with `png()`, then copy it to a PDF with `dev.copy2pdf()`.

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Thank you!

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