

# Week 1 Quiz

測驗, 10 個問題

**10/10 分 (100%)**

✓ 恭喜！您通過了！

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1 / 1 分

1。

Which of the following is a principle of analytic graphics?



Describe and document the evidence



正確



Only do what your tools allow you to do



Don't plot more than two variables at at time



Show box plots (univariate summaries)



Make judicious use of color in your scatterplots



1 / 1 分

2。

What is the role of exploratory graphs in data analysis?



They are used in place of formal modeling.



Axes, legends, and other details are clean and exactly detailed.



The goal is for personal understanding.



正確



Only a few are constructed.

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3。

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



Plots are created and annotated with separate functions

**正確**

Functions like 'plot' or 'hist' typically create the plot on the graphics device and functions like 'lines', 'text', or 'points' will annotate or add data to the plot.



Plots are typically created with a single function call



The system is most useful for conditioning plots



Margins and spacings are adjusted automatically depending on the type of plot and the data



1 / 1 分

4。

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



A file folder



A socket connection



A PDF file

**正確**

The keyboard



1 / 1 分

5。

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



Postscript

**正確**

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**10/10 分 (100%)**☐ TIFF☐ JPEG☐ PNG☐ GIF

1 / 1 分

6 °

Bitmapped file formats can be most useful for

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

正確



1 / 1 分

7 °

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

☐ hist()☐ boxplot()☒ lines()

正確

☐ plot()

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10/10 分 (100%)

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8。

Which function opens the screen graphics device for the Mac?

- ☐ bitmap()
- ☐ png()
- ☐ pdf()
- ☒ quartz()



正確



1 / 1 分

9。

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

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



正確



1 / 1 分

10。

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

- ☒ Construct the plot on the screen device and then copy it to a PDF file with dev.copy2pdf()



正確

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Open the PostScript device with `postscript()`, construct the plot, then close the device with `dev.off()`.

10/10 分 (100%)

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

