

Account

Dashboard

Courses

Calendar

Notes

History

Comments

Help

Return

3

11 point

matrix(c(0,0,1,1,0,0,1,1,2,2,0,0,2,2,0,0), nrow=4)

✓

matrix(c(0,0,1,1,0,0,1,1,2,2,0,0,2,2,0,0), nrow=4, byrow=TRUE)

3

11 point

Match the "grammar of graphics" category to the ggplot2 element.

Aesthetics

Geometries

Theme

Data

x vector, y vector

Plot type

Background

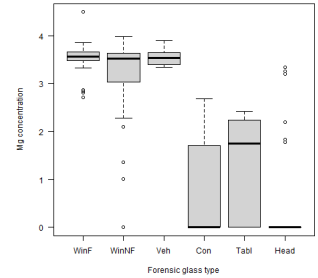
Data frame

4

11 point

The box plots below were generated with the command plot(x=fgl\$type, y=fgl\$Mg) where type is the glass type, and Mg the Magnesium oxide concentration. List all parameters that were added as arguments of the plot command.

Magnesium oxide concentration
for different glass types in the fgl dataset



☐ xlab, ylab, subtitle, main

☐ xlab, ylab, main, cex

☒ xlab, ylab, main, las

☐ xlab, ylab, title

5

11 point

What is the output of the following paste command?

n <- 50
paste("It's ", n, "days till Christmas..")

☐ "It's 50 days till Christmas."

☐ "It's n days till Christmas."

☒ "It's 50 days till Christmas."

☐ It's 50 days till Christmas.

6

11 point

You can save ggplot2 plots as objects in R but you cannot print them.

☐ True

☒ False

7

11 point

What type of plot array can you create with this layout matrix?

0 0 1 1
0 0 1 1
2 2 0 0
2 2 0 0

☐ 1 plot in the upper right and 2 smaller plots in the lower left

☐ 1 plot in the upper right and 1 double-sized plot in the lower left

☐ None because the layout vector is missing

☒ 2 plots of equal size, one in the upper right and the other one in the lower left

8

11 point

What is the "tidyverse"?

✗

A cleaner ("tidier") version of base R

Correct Answer: A bundle of R packages including ggplot2

☐ A modern implementation of the "grammar of graphics"

☐ A single package of functions and data sets

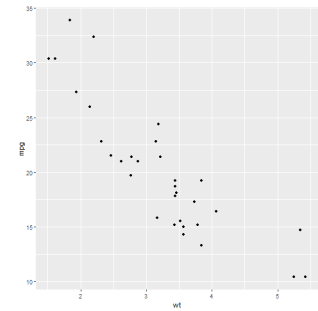
☐ A bundle of R packages including ggplot2

9

11 point

The command below should produce the plot shown but it only produces an empty plot. What's wrong?

library(ggplot2)
ggplot(data=mt.cars, aes(wt, mpg))



☐ You need to load ggplot not ggplot2

☐ You need to store the plot first

☒ You need to add + geom_point()

☐ The aesthetic is missing

10

11 point

The fgl data set in the MASS package characterizes forensic glass samples by type. The vehicle window glass samples are labeled by the level "veh". How many samples in this data frame come from vehicle window glass?

☐ fgl\$type == "veh"

☐ which(fgl\$type == "veh")

☐ nrow(fgl\$type=="veh")

☒ sum(fgl\$type == "veh")