

ETC1010

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Quiz name

Reading week 4 (DUE: Tues Aug 22 9:00am)

1

MULTIPLE CHOICE

Edit

"The greatest value of a picture is when it forces us to notice what we never _____ to see." John Tukey

Answer choices

A expected

B wanted

C agreed

D tried



2

MULTIPLE CHOICE

Edit



An _____ is a visual property of the objects in your plot. Aesthetics include things like the size, the shape, or the color of your points.

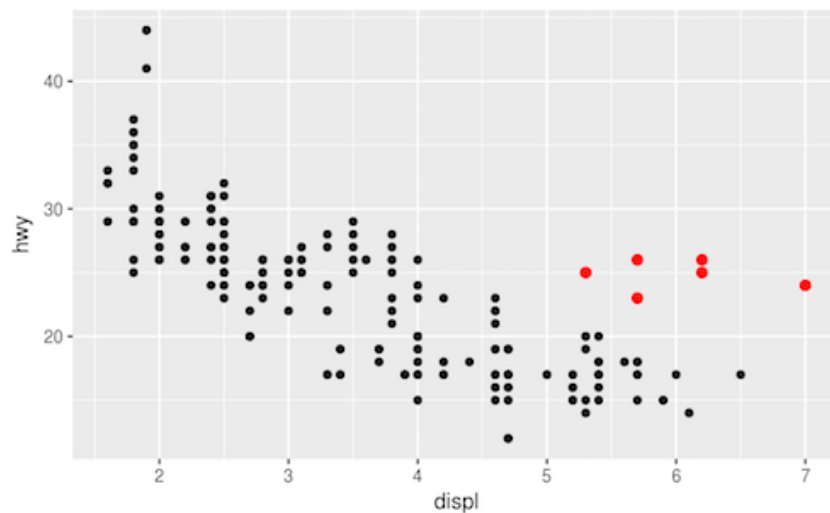
Answer choices

A	geom
B	aesthetic
C	facet
D	mapping

3

MULTIPLE CHOICE

Edit



In the above plot, of hwy miles per gallon against displacement (cu.in.), of the mtcars data set (available in the ggplot2 R package) what is the best explanation of the points in red?

Answer choices

A	Cars that have low fuel efficiency.
B	Cars that have lower fuel efficiency than we might expect given the main trend in the association between the two variables.
C	Cars that have higher fuel efficiency than we might expect given the main trend in the association between the two variables.
D	Cars that have larger displacement than we might expect given their relatively low highway fuel usage.

4

MULTIPLE CHOICE

Edit

_____ is a way to compare subsets of the data by displaying them in different plots.

Answer choices

A	Wrapping
B	Mapping
C	Plotting
D	Facetting

5

MULTIPLE CHOICE

Edit

One of the key aspects of comparing subsets using facetting is that the scale of the ____ across plots is the same.

Answer choices

A	axes
B	points
C	lines
D	text

6

MULTIPLE CHOICE

Edit



A _____ is the geometrical object that a plot uses to represent data.

Answer choices

A	axis
B	geom
C	label
D	aesthetic

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MULTIPLE CHOICE

Edit



Which of the following are geoms available in the ggplot2 package? (Select all that apply.)

Answer choices

A	point
B	line
C	smooth
D	boxplot
E	rug
F	errorbar
G	histogram
H	contour
I	polygon
J	violin
K	spoke
L	tile

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MULTIPLE CHOICE

Edit

Bar charts, histograms, and frequency polygons _____ your data and then plot bin counts, the number of points that fall in each bin.

Answer choices

A	box
B	balance
C	bin
D	count

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MULTIPLE CHOICE

Edit

Boxplots compute a robust summary of the _____ and then display a specially formatted box, whiskers and outliers.

Answer choices

A	bins
B	boxes
C	bags
D	distribution

10 | **MULTIPLE CHOICE**[Edit](#)

position = "_____" places overlapping objects directly beside one another. This makes it easier to compare individual values.

Answer choices

A	identity
B	fill
C	dodge
D	jitter

**11** | **MULTIPLE CHOICE**[Edit](#)

coord_____() sets the aspect ratio correctly for maps. This is very important if you're plotting spatial data

Answer choices

A	flip
B	quickmap
C	polar
D	fixed



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MULTIPLE CHOICE

Edit



The seven parameters in the template compose the grammar of graphics, a formal system for building plots. What are the seven parameters? (Select all that apply.)

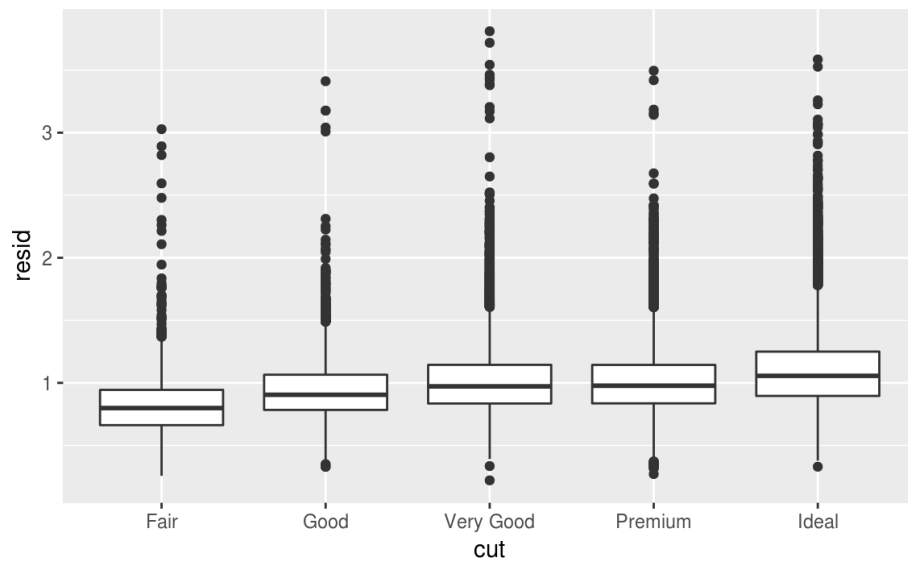
Answer choices

A	DATA
B	GEOM_FUNCTION
C	MAPPINGS
D	STAT
E	POSITION
F	COORDINATE_FUNCTION
G	FACET_FUNCTION
H	THEME

13

MULTIPLE CHOICE

Edit



In the plot above, what is mapped to the horizontal and vertical axes, and what geom is used?

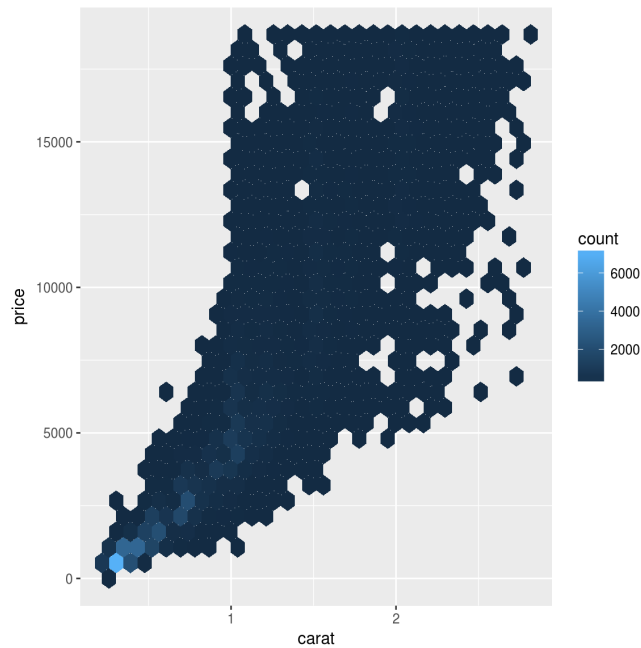
Answer choices

- A** cut, resid, boxplot
- B** resid, cut, boxplot
- C** cut, resid, polygon
- D** resid, cut, polygon

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MULTIPLE CHOICE

Edit



In the plot above, what is mapped to the horizontal and vertical axes, colour and what is the geom?

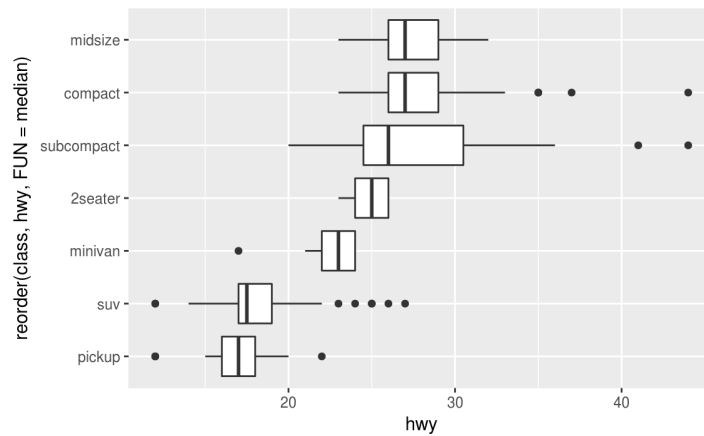
Answer choices

A	price, count, carat, tile
B	carat, price, count, tile
C	price, count, carat, hex
D	carat, price, count, hex

15

MULTIPLE CHOICE

Edit



What coordinate system is used to produce this plot?

Answer choices

- A coord_map
- B coord_equal
- C coord_flip
- D coord_polar

+ Multiple Choice

+ True/False

+ Short Answer