



✓ **Congratulations! You passed!**

TO PASS 75% or higher

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ggplot2 Introduction and Scatter Plots

TOTAL POINTS 6

1. Which of these is NOT a component of a ggplot figure?

1 / 1 point

- ☐ A faceting specification
- ☐ A theme
- ☐ A coordinate system
- ☐ Data
- ☐ Layers of geometric elements and statistical transformations
- ☒ Interactivity
- ☐ Scales that map data in the data space to values in the aesthetic space

✓ **Correct**

Correct! ggplots are static. Interactivity is implemented by other R packages, but not ggplot.

2. What is facetting?

1 / 1 point

- ☐ Analyzing data by focusing on statistical significance in different subsets of the variables.
- ☒ Creating tables of graphics by splitting the data into subsets and displaying the same graph for each subset.
- ☐ Creating figures composed of multiple plot types, thereby giving readers multiple ways of looking at the same data.

✓ **Correct**

Correct!

3. What is the first argument in the ggplot() function?

1 / 1 point

- ☐ Aesthetic mapping
- ☐ geom type
- ☒ Data

✓ **Correct**

Correct! When you call up ggplot, the first argument is the data source you are going to use for the plot.

4. What kind of data would be the best candidate for plotting using a scatter plot?

1 / 1 point

- ☒ Two continuous variables
- ☐ Two categorical variables
- ☐ One categorical and one continuous variable
- ☐ One continuous variable
- ☐ One categorical variable

✓ **Correct**

Correct! Scatter plots are best with x and y values that are continuous

5. Say you had data saved to an object in R named "my_data" that looked like this:

1 / 1 point

Height	Weight	Gender
5	120	Male
5.5	130	Female

and so on.

What is the correct ggplot() command for creating a scatter plot with weight on the x axis, height on the y axis, and the changing the color of the point based on gender?

- ☐ ggplot(my_data,aes=c(weight,height,color=Gender))+geom_scatter()

- ☒ `ggplot(my_data,aes(Weight,Height,color=Gender))+geom_point()`
- ☐ `ggplot(aes(Weight,Height),color=Gender,data=my_data,geom="point")`



Correct

Correct! Note that you can exclude the x= and y= if you want.

6. What does it mean to set the aesthetic mappings in ggplot?

1 / 1 point

- ☒ Aesthetic mapping connects visual elements of the figure with variables in the data.
- ☐ Aesthetic mapping tells ggplot to add themes to a figure to make it more visually appealing.
- ☐ Aesthetic mapping is a way of planning your visualizations, helping you organize your data and find the most effective way to do display it visually.



Correct

Correct!