

# Introduction to Data Science

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## MODULE 8 QUIZ

### Question 1

Which of the following describes a need for data visualization in a data science project?

- (a) Refine your selection of feature variables that will be used later for machine learning
- (b) Obtain confidence in your data to a point where you're ready to engage a machine learning algorithm
- (c) Discover new patterns and associations between variables
- (d) All of the above**

### Question 2

Which one of the following best characterizes exploratory graphs?

- (a) Communicate results to other people
- (b) The goal is for personal understanding**
- (c) Serve as a permanent record of the data science project
- (d) None of the above

### Question 3

Which graph type serves to visualize relationships between quantitative variables?

- (a) barplot
- (b) boxplot
- (c) scatterplot**
- (d) histogram

### Question 4

Which best describes the purpose of the `pairs()` plot in R?

- (a) Plots the quantiles of one variable against another
- (b) A plot where color intensity represents how large a data value is
- (c) A useful way of displaying the pairwise relations between variables in a dataset**
- (d) A plot of an observation variable that is a graphical representation based on its quartiles, as well as its smallest and largest values.

#### Question 5

Which of the following best characterizes expository graphs?

- (a) Used to communicate the data's story to other people
- (b) Size and color should be used to communicate information
- (c) Should include large, easy-to-read titles, axes and legends
- (d) All of the above**