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ECO - 602

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Week 3 Reading Questions

Q1: Which of the plot types show every data point?

The Scatter plot, and coplot, show every data point.

Q2: Which of the plot types show aggregated or summarized data?

The box plot, histograms, Cleveland dot plot, and QQplot aggregate or summarize data.

Q3: Explain what a conditional variable means in the context of graphical data exploration.

A condition variable shows the interaction between two variables such as A and B that are different from values C and D.

Q4: List at least three of the common measures of spread or dispersion that were mentioned in the readings.

Three common measures of spread or dispersion are:

1. Boxplot
2. Poisson distribution
3. Transformations

Q5: Choose two of the measures in your list and explain how they capture different aspects of the concept of spread.

The box plots capture the difference between hinges and measure the spread. It also shows us lines 1.5 or the most extreme value and the smallest value. Transformations allow the capture of distance and size variables which allows us to measure a wider spread.

Q6: List two of the important reasons to perform data exploration (numerical and/or graphical).

For each of the two reasons you identify, describe the quantities or plots you would use and the insight you would gain.

Two of the most important reasons to perform data exploration are the method to use to approach the data and approach. For example, if I wanted to see visualize my mean I would use a box plot. Whereas, if I wanted to see if my data had a standard distribution I would use a histogram.