DS UA 112: Data Visualization Discussion 5 Supplement

October 1, 2019

1 Ordinal Data

The best way to plot ordinal data would likely be:

☐ A histogram

☐ A density plot

☐ A bar chart

☐ Using a color scale

2 Quantitative Data

When trying to understand the distribution of scores on an assignment in a large class in which many different scores are assigned, which of the following plots would be most appropriate?

☐ A pie chart

☐ A density plot

☐ A bar chart

☐ A scatter diagram

3 Comparison

Which of the following kinds of plot would be useful for comparing the distribution of scores for second-year and third-year students?

☐ A violin plot

☐ A box plot

☐ A scatter diagram

☐ A lollipop chart

4 Scatter Diagrams

Which of the following are uses of a scatter plot matrix?

☐ Compare every pair of quantitative variables in a dataset

☐ Identify associations between pairs of quantitative variables

☐ Visualize more than two quantitative variables at a time

5 Overplotting

Which of the following are instances of overplotting?

☐ Multiple points in a scatter diagram have the same position, making it difficult to determine how many elements appear at that position.

☐ Too many dimensions of the data are included in the same figure, making it difficult to determine the associations between different variables.

☐ Histograms for several different variables are overlaid in one figure, making it difficult to determine the height of each histogram.