

DS UA 112: Data Visualization Discussion 5 Supplement

February 23, 2020

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.