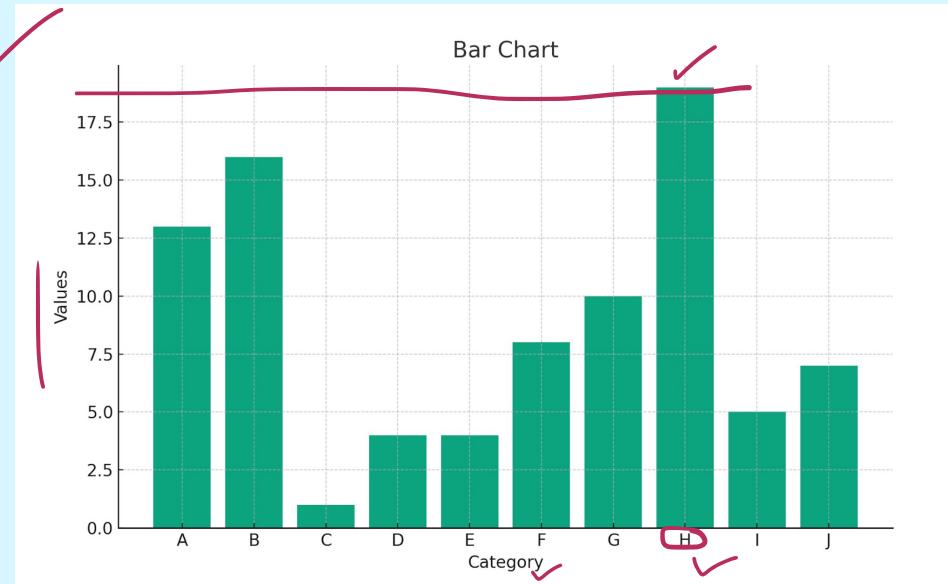


Data Visualization Methods

An overview of different data visualization methods and their uses

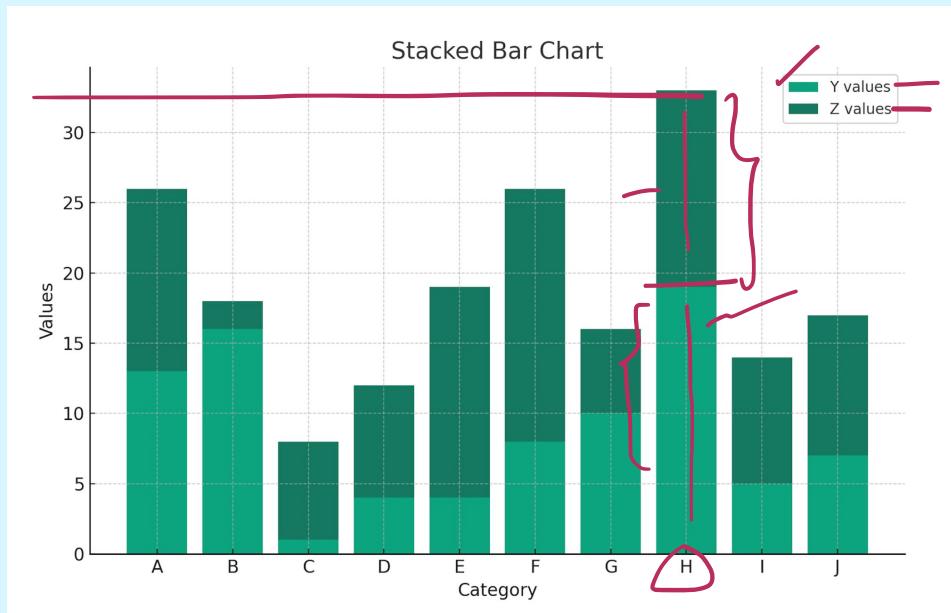
Bar Charts

- Used to compare quantities across different categories
- Each category is represented by a bar, with the length or height of the bar corresponding to its value



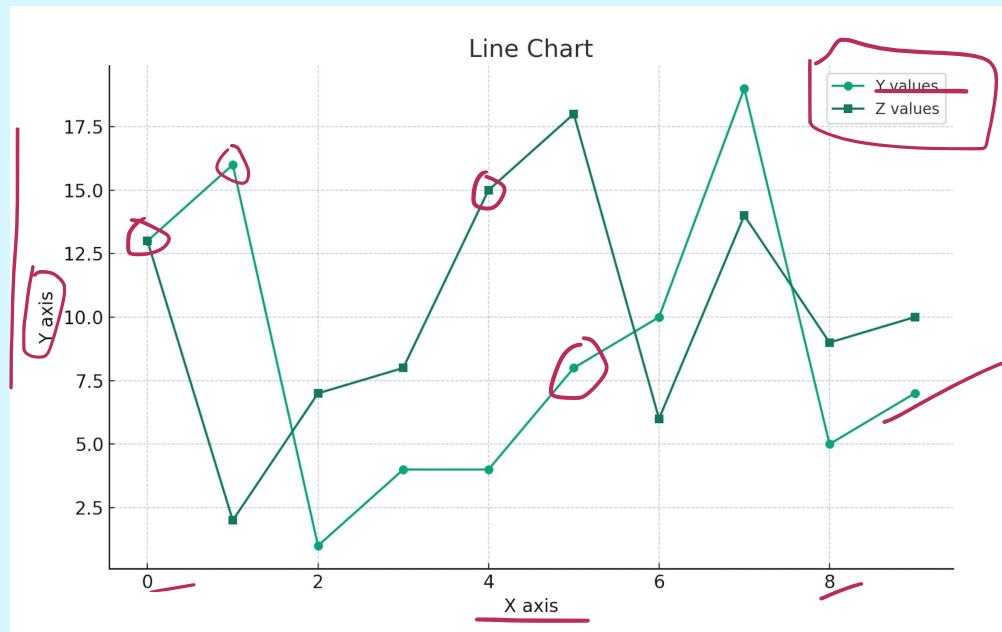
Stacked Bar Charts

- Allows comparison of the total amounts across different groups
- Illustrates the composition of those totals out of different sub-categories within those groups



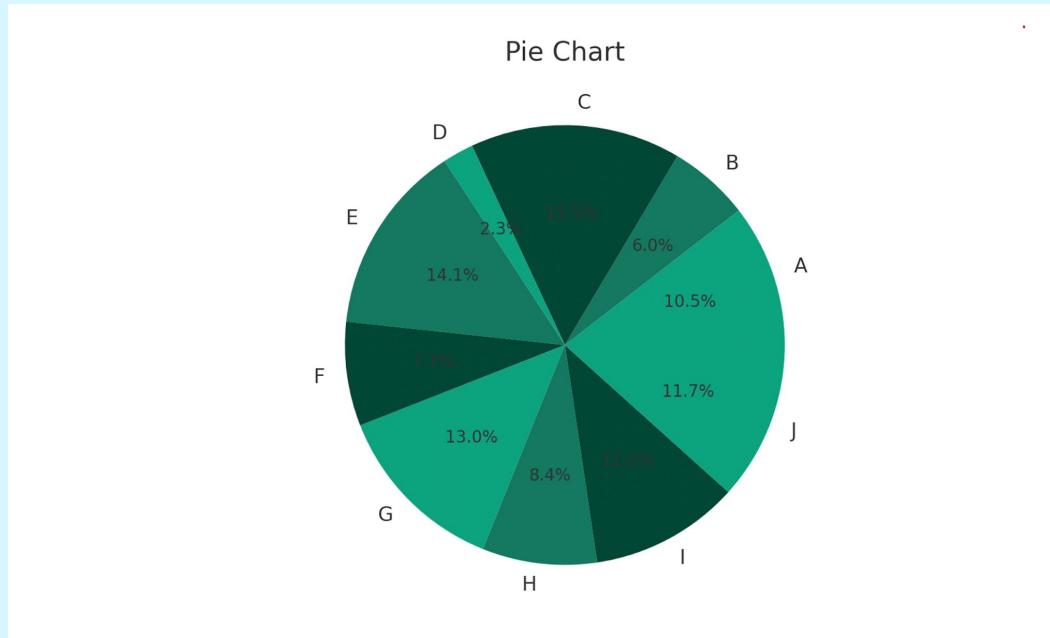
Line Graph

- Ideal for showing trends over time
- Points are plotted on the graph to represent data points, and these points are connected by lines to show changes in the data over time



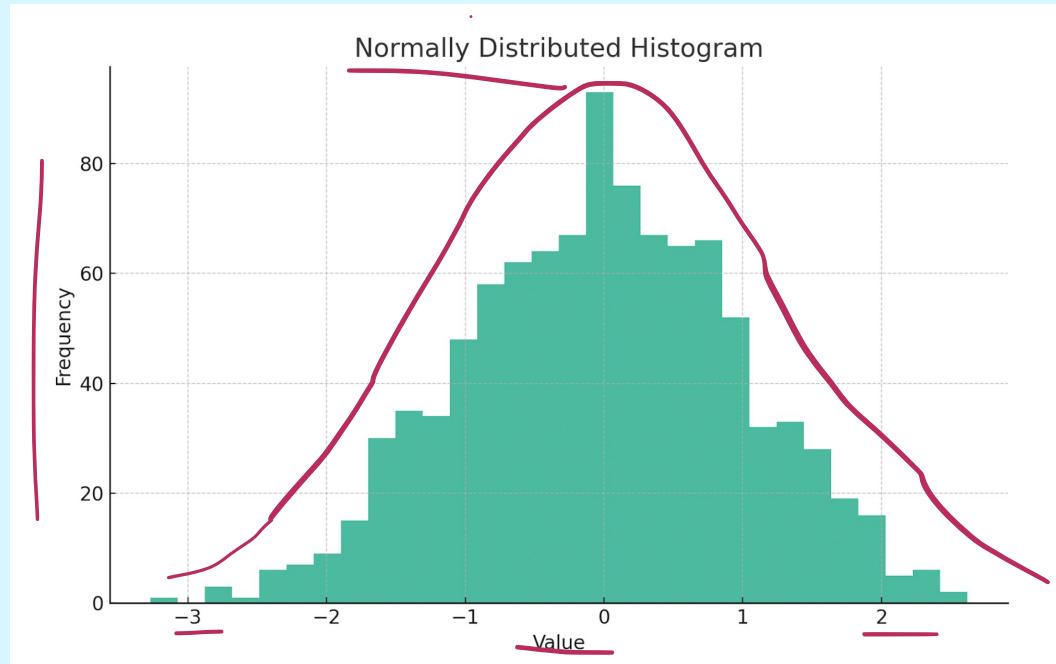
Pie Chart

- A circle is divided into slices to illustrate the numerical proportion of each category
- Useful for showing proportions or percentages



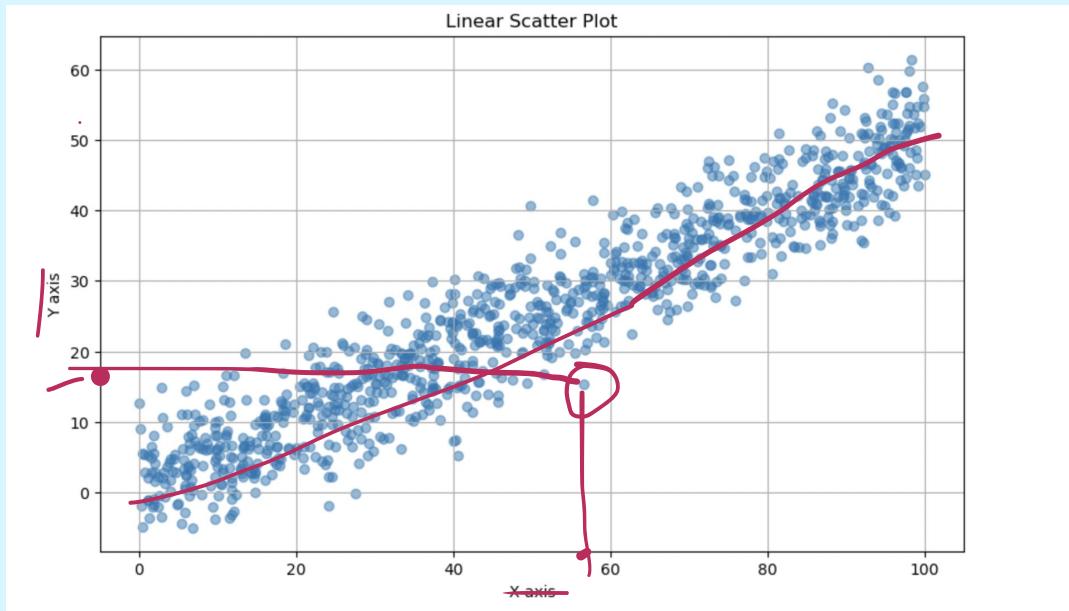
Histogram

- Particularly useful for understanding the distribution of a variable and identifying outliers or patterns
- Used for showing the distribution of a dataset



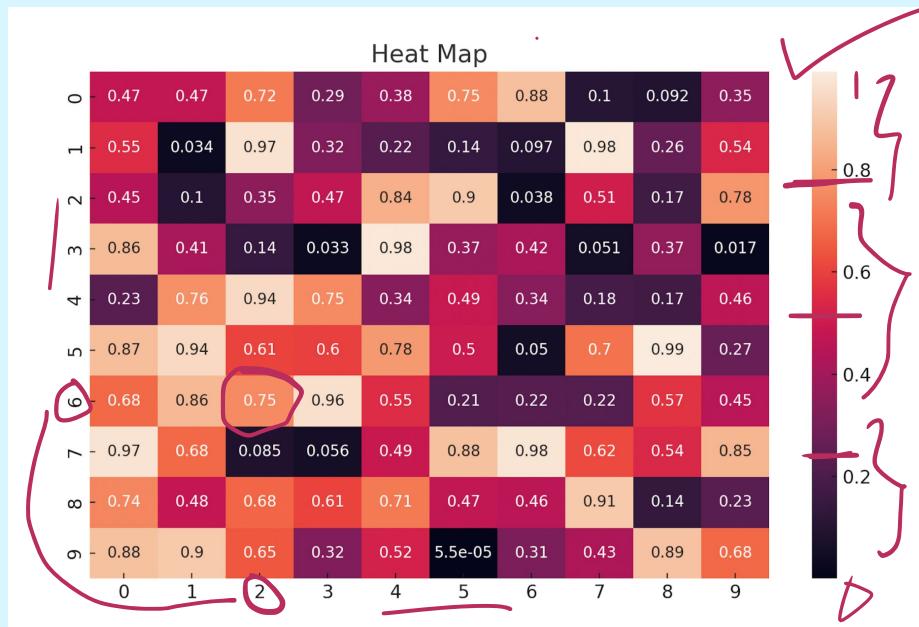
Scatter Plot

- Used to show the relationship between two variables
- Each point on the plot corresponds to one data point in the dataset, with the position determined by the values of the two variables



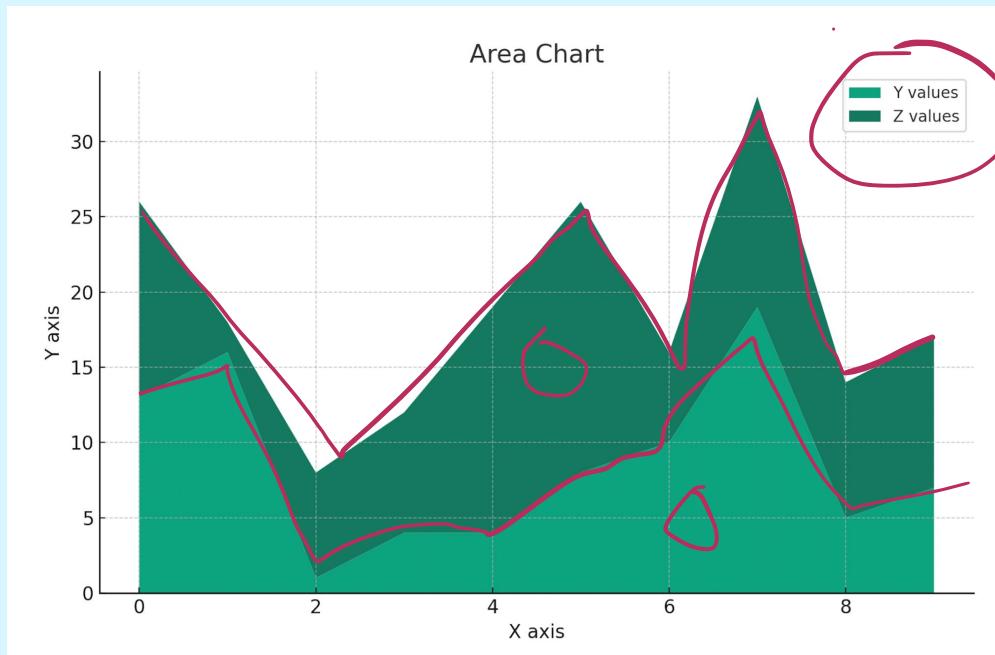
Heat Map

- Shows magnitude of a phenomenon as color in two dimensions
- The variation in color may be by hue or intensity, giving visual cues to the reader about how the phenomenon is clustered or varies over space



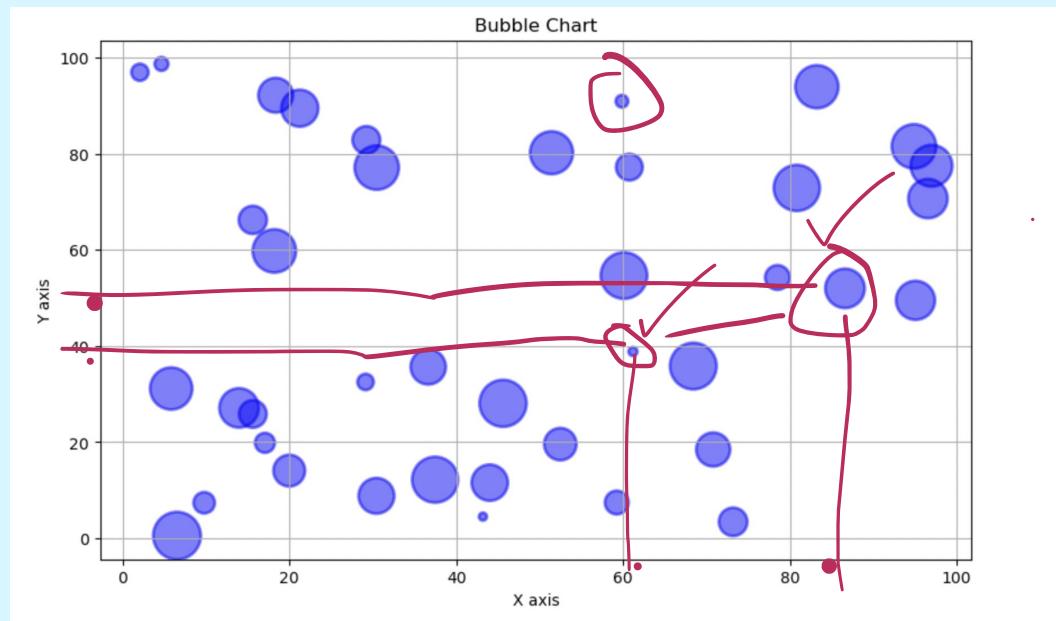
Area Chart

- Similar to line graphs but with the area below the line filled in
- Useful for illustrating the magnitude of change over time and can be used to show multiple quantities by stacking different areas



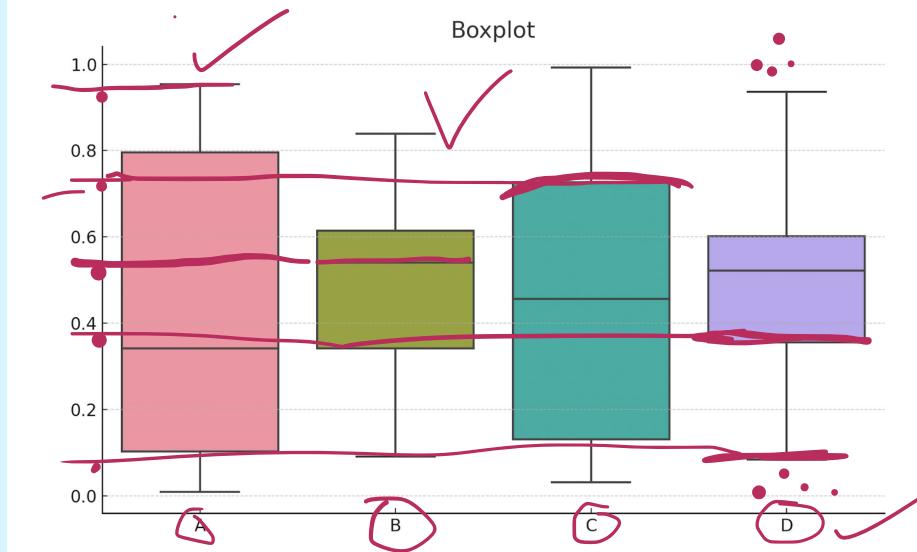
Bubble Plot

- A variation of the scatter plot
- Each data point is represented by a bubble, and the size of the bubble can represent an additional dimension of the data



Box Plot

- Show the distribution of quantitative data
- Facilitates comparisons between variables or across levels of a categorical variable
- The box shows the quartiles of the dataset while the whiskers extend to show the rest of the distribution, except for points that are determined to be 'outliers'



• Thank you for your time and
attention 😊

