

Section 2.2 — Graphical Displays of Data

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Outline

Types of Data

Pie, Bar, and Pareto Charts

Histograms

Types of Data

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Definition (Quantitative Data)

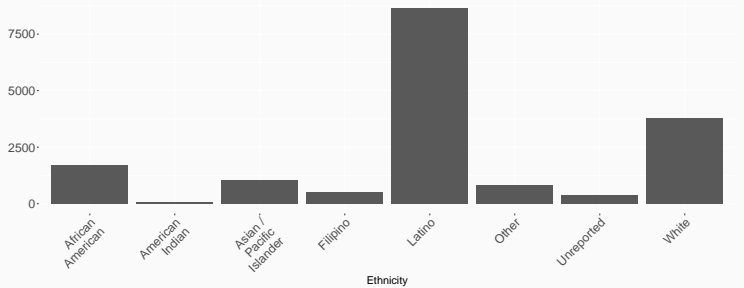
Quantitative (or **numerical**) **data** consists of numbers representing counts or measurements.

Definition (Categorical Data)

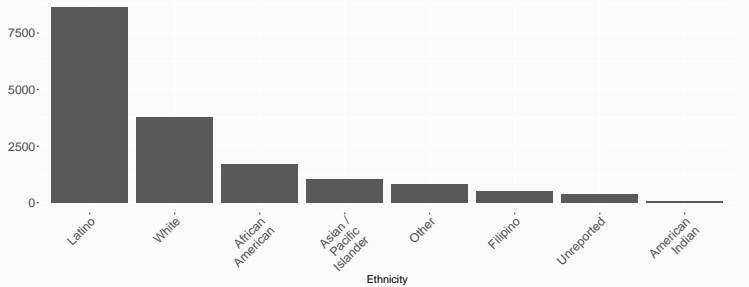
Categorical (or **qualitative**) **data** consists of names or labels that are not numbers representing counts or measurements.

Pie, Bar, and Pareto Charts

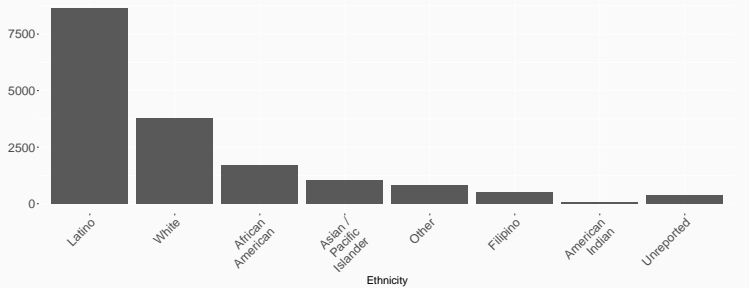
Bar Chart



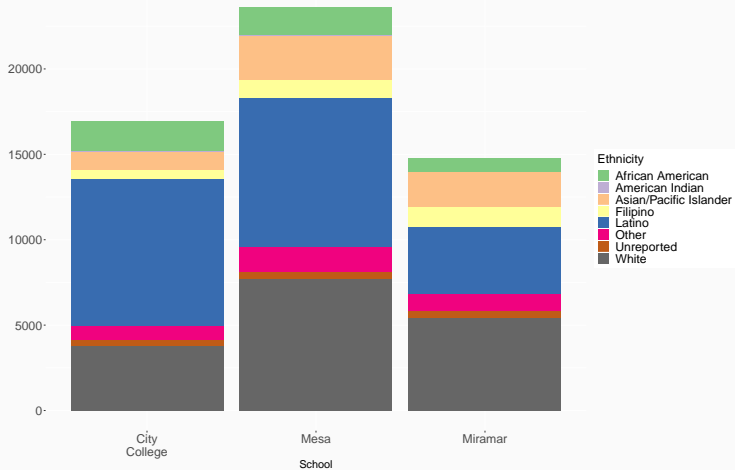
Pareto Chart



Pareto Chart

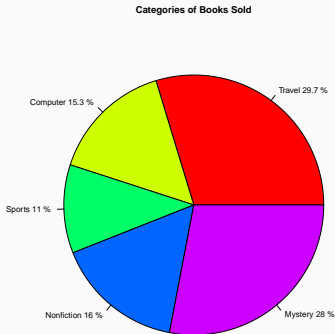


Stacked bar chart



Pie Chart

A book store sells roughly 1300 books per month. The pie chart describes the most popular categories and the percentage of sales.



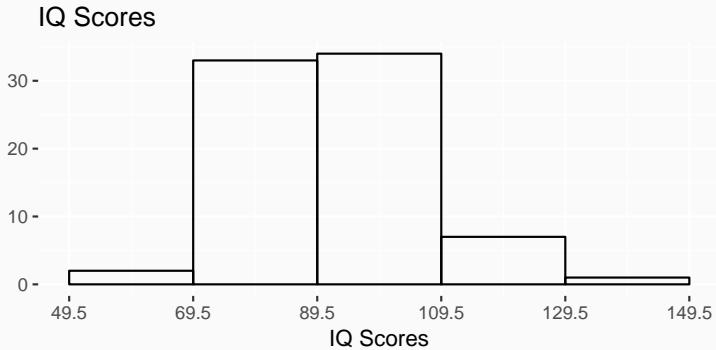
Histograms

Histograms

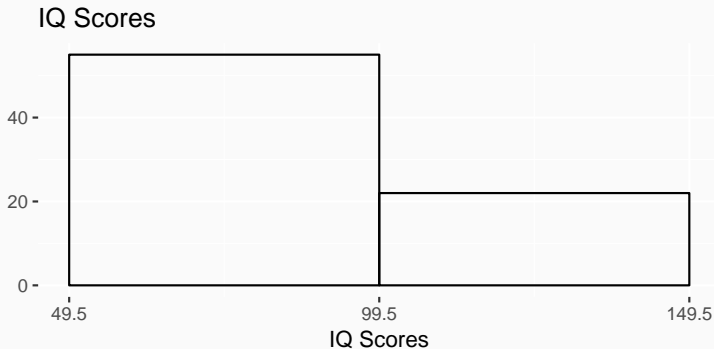
Definition (Histogram)

A **histogram** is a graph consisting of bars of equal width drawn adjacent to one another. The horizontal scale represents classes and the vertical scale represents frequencies. The heights of the bars correspond to frequency values.

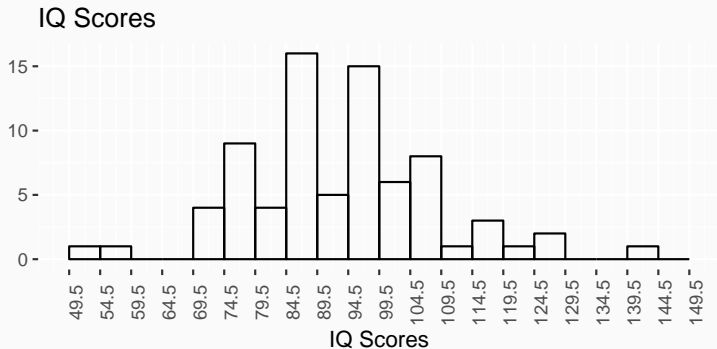
Histogram



Histogram



Histogram



Histogram

