

Section 2.2 — Graphical Displays of Data

Chris Godbout

Outline

Types of Data

Pie, Bar, and Pareto Charts

Histograms

Types of Data

Types of Data

Definition (Quantitative Data)

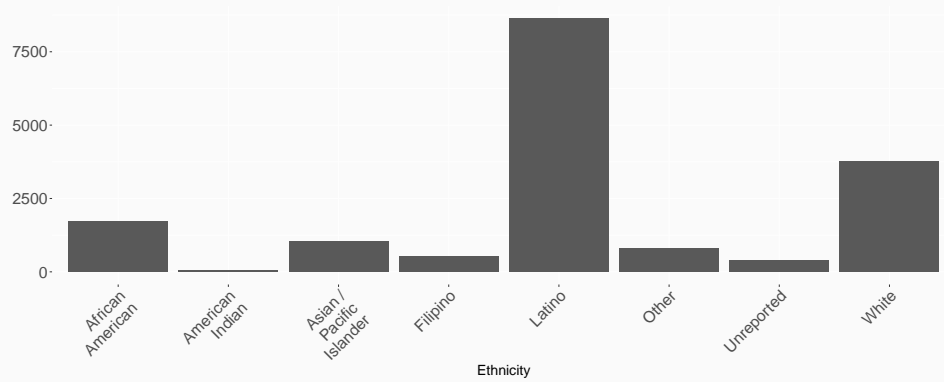
Quantitative (or **numerical**) **data** consists of numbers representing counts or measurements.

Definition (Categorical Data)

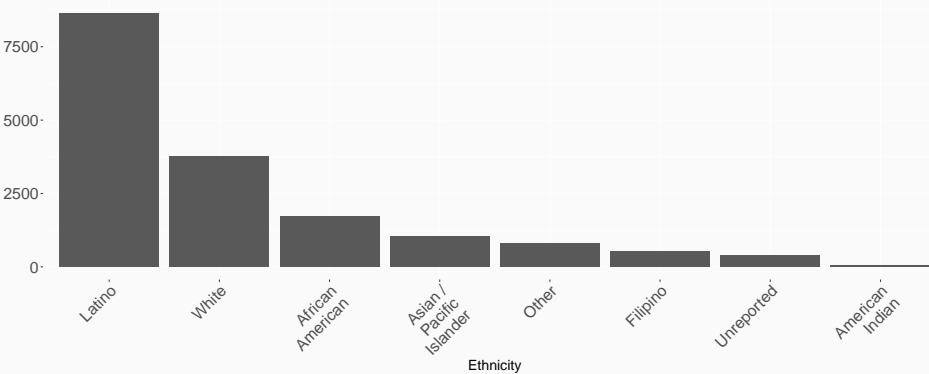
Categorical (or **qualitative**) **data** consists of names or labels that are not numbers representing counts or measurements.

Pie, Bar, and Pareto Charts

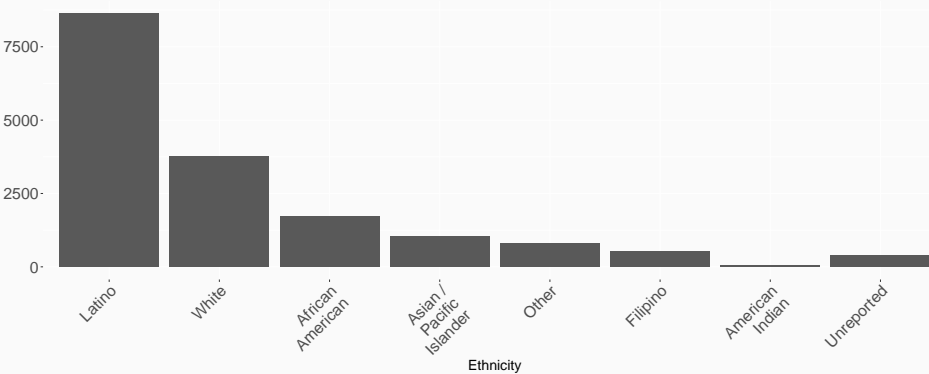
Bar Chart



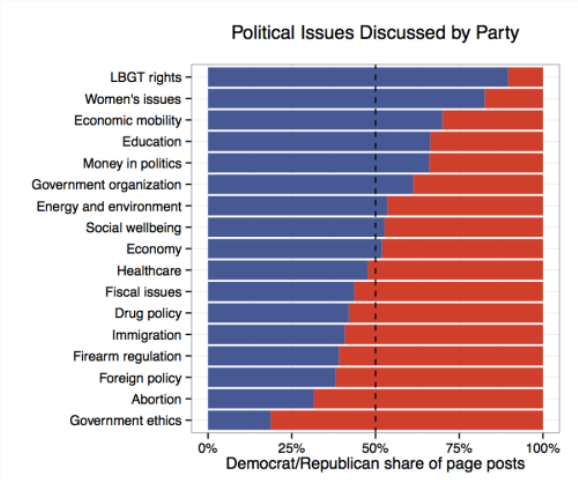
Pareto Chart



Pareto Chart

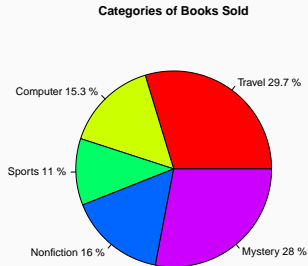


Stacked bar chart



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

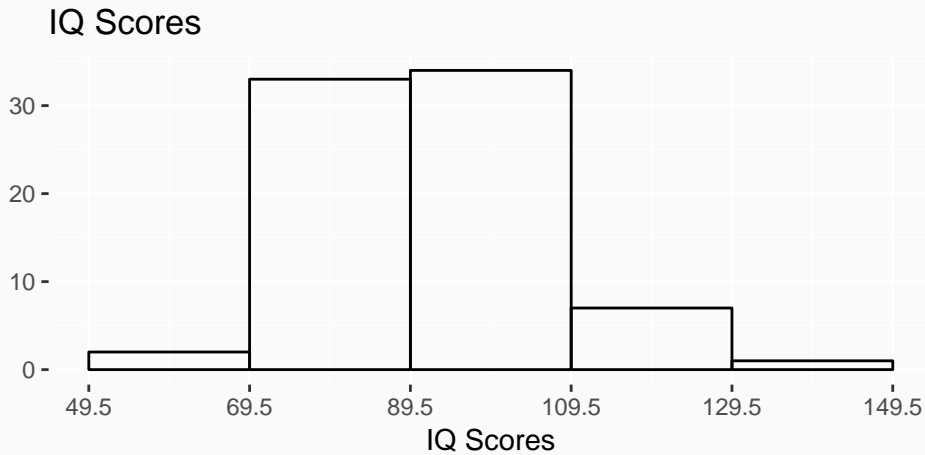
Definition (Histogram)

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.

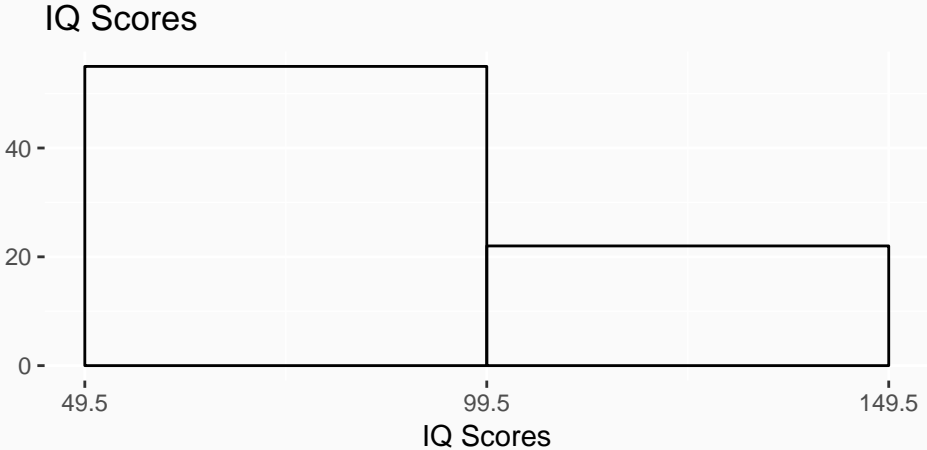
IQ Scores

50	56	70	72	73	74	75	76	76	76	76	76	77
77	78	80	80	80	84	85	85	85	85	86	86	86
86	87	87	88	88	88	89	89	89	91	92	93	94
94	94	95	96	96	96	96	96	96	96	97	97	98
99	99	99	99	100	101	101	102	104	104	105	105	106
107	107	107	107	108	111	115	115	118	120	125	128	141

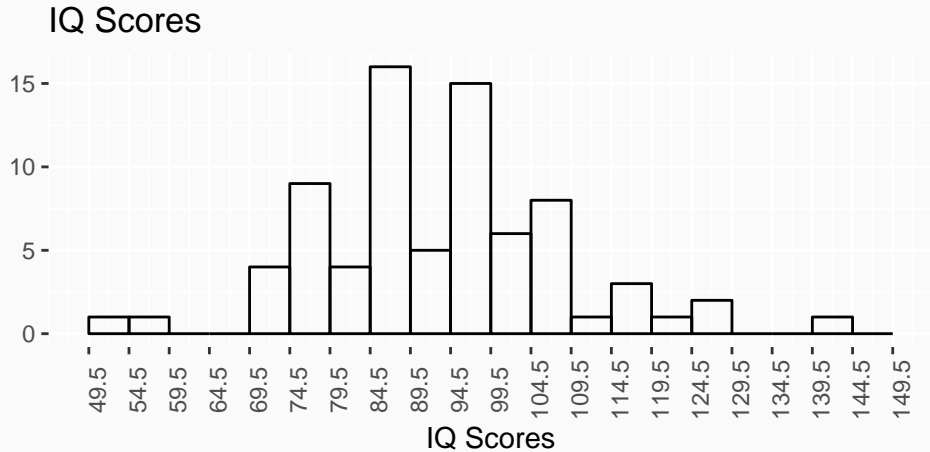
Histogram



Histogram



Histogram



Histogram

