Section 2.3 — Analyzing Graphs

Chris Godbout

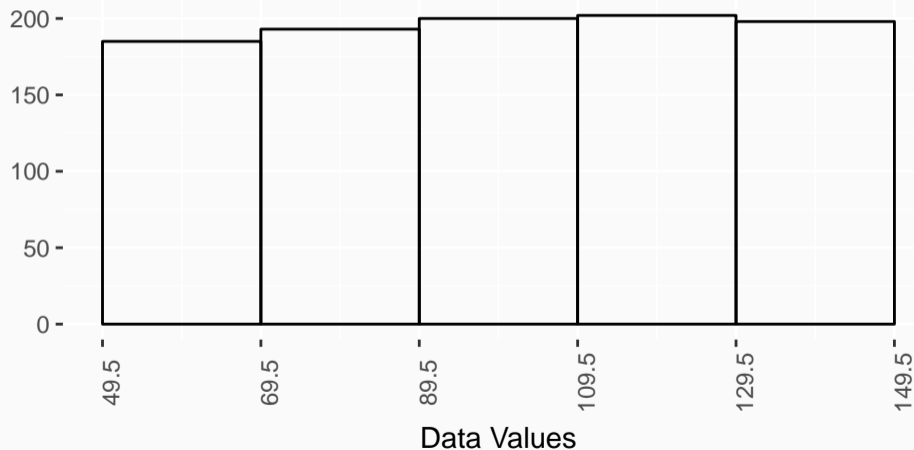# Outline

Shape

Uniform Distribution

Everything happens with the same frequency.

Definition (Tail)

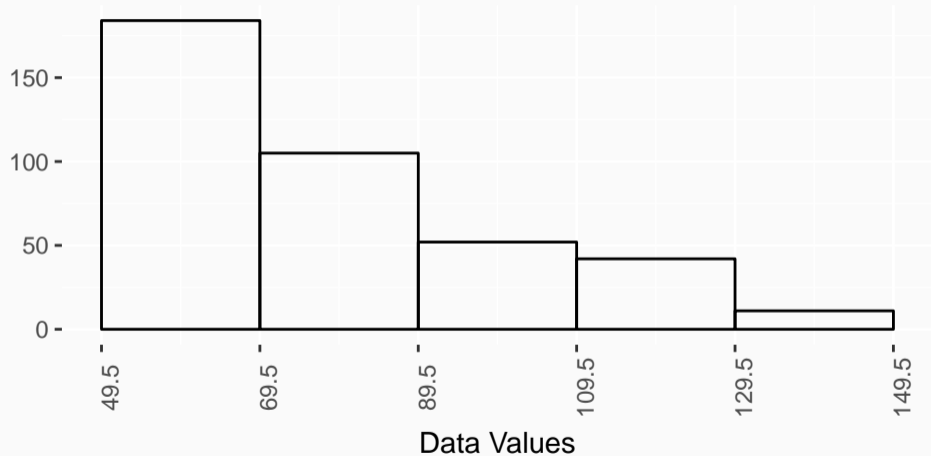The tail of a histogram refers to the extreme regions (both left and right)

Skewness

Definition (Tail)

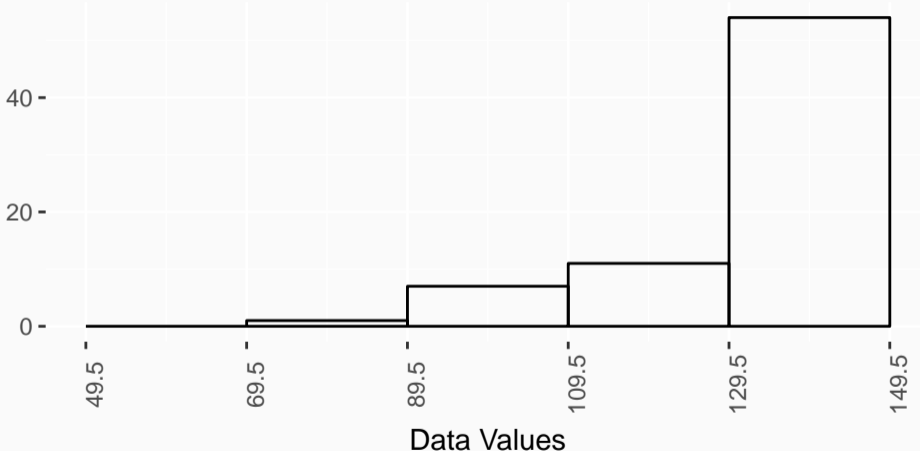The tail of a histogram refers to the extreme regions (both left and right)

Definition (Skewed)

Data is skewed to the right or positively skewed if it has a longer right tail. It is skewed to the left or negatively skewed if it has a longer left tail.
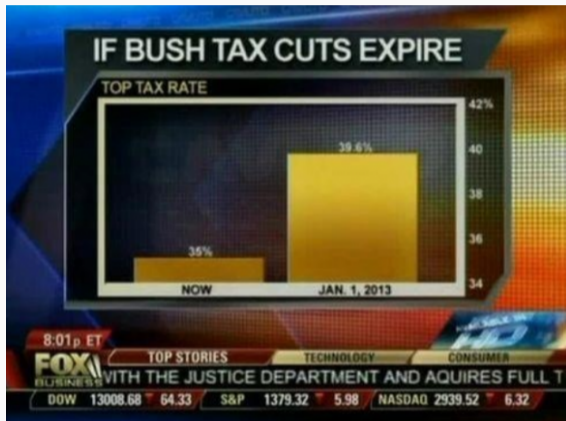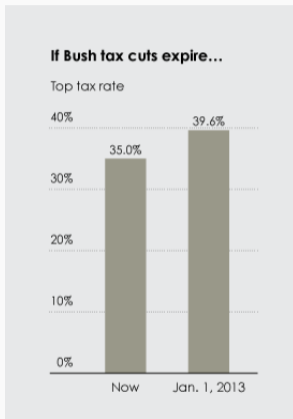
Right-Skewed

Left-Skewed

Data Values

Graphs that Deceive

Nonzero Axis

6

Nonzero Axis

Pictographs

Figure 1. Number of students who like chocolate chip cookies best

Figure 2. Purchasing power of the Canadian dollar, 1980 to 2000

1980 = $1.00

1985 = $0.70

1990 = $0.56

1995 = $0.50

2000 = $0.46