Biostatistics BT2023

Lecture 4 : plotting and DATA visualization

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Extra points

Keyboard's marking keys

Website making

Revision from previous lecture
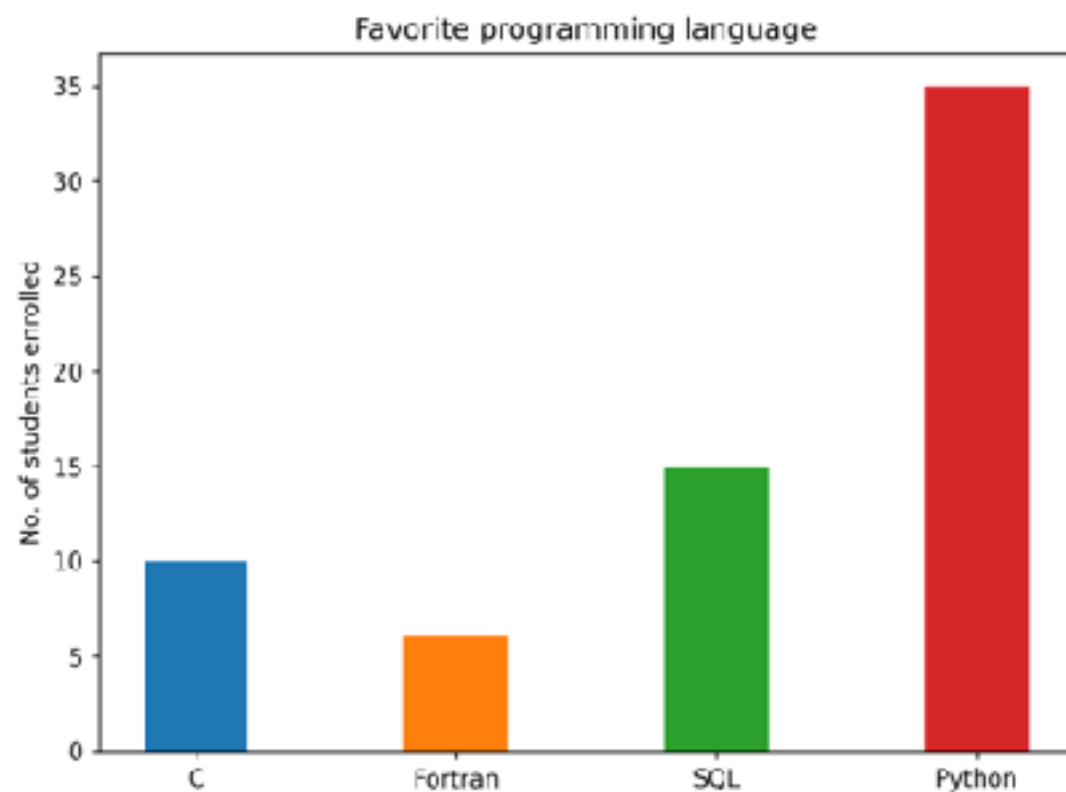
Bar plot

Pie chart

Line plot

Bar plot vs Histogram

A bar graph is the graphical representation of categorical data using rectangular bars where the length of each bar is proportional to the value they represent.
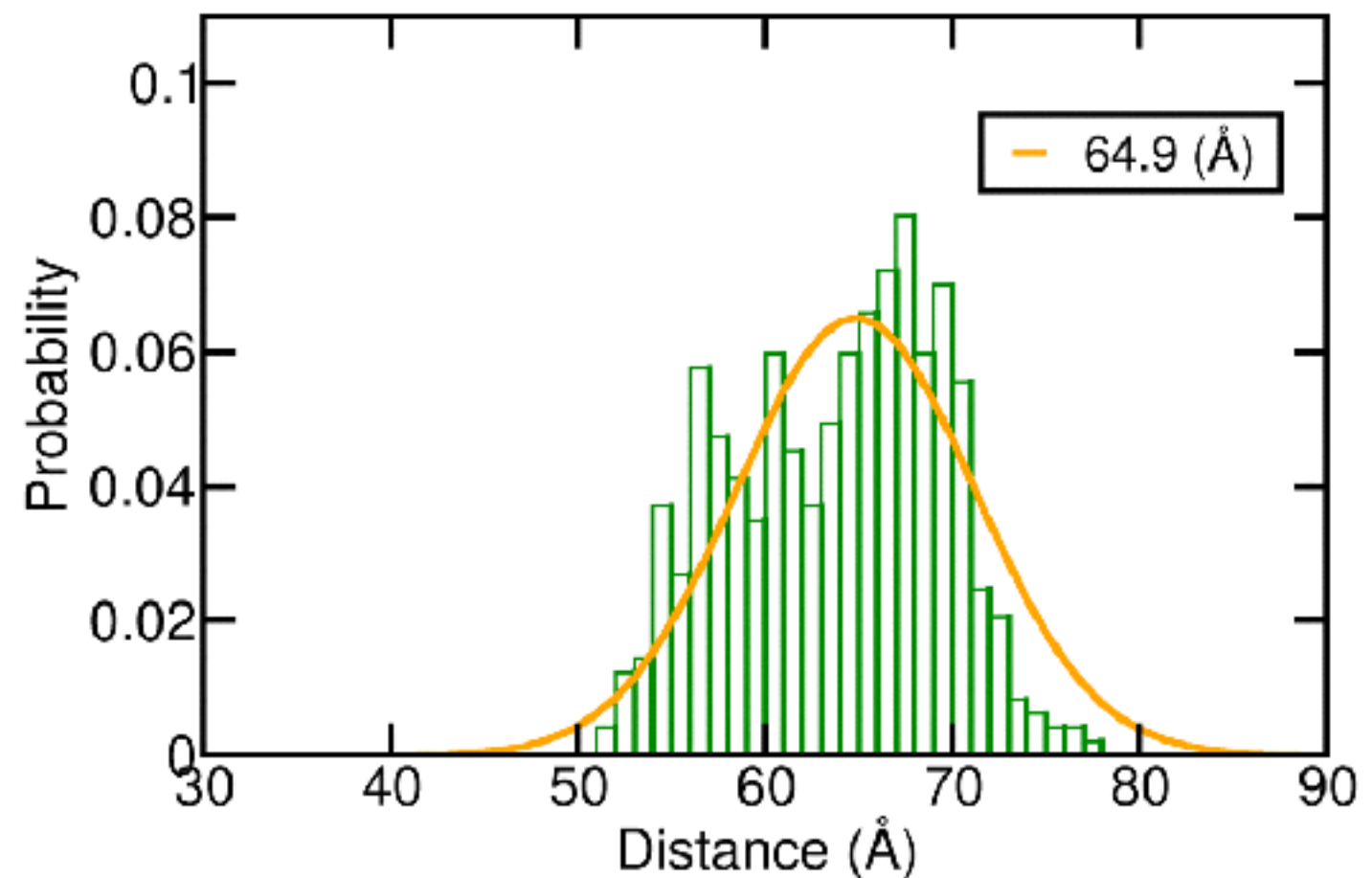
A histogram is the graphical representation of data where data is grouped into continuous number ranges

Bar plot

Favorite programming language
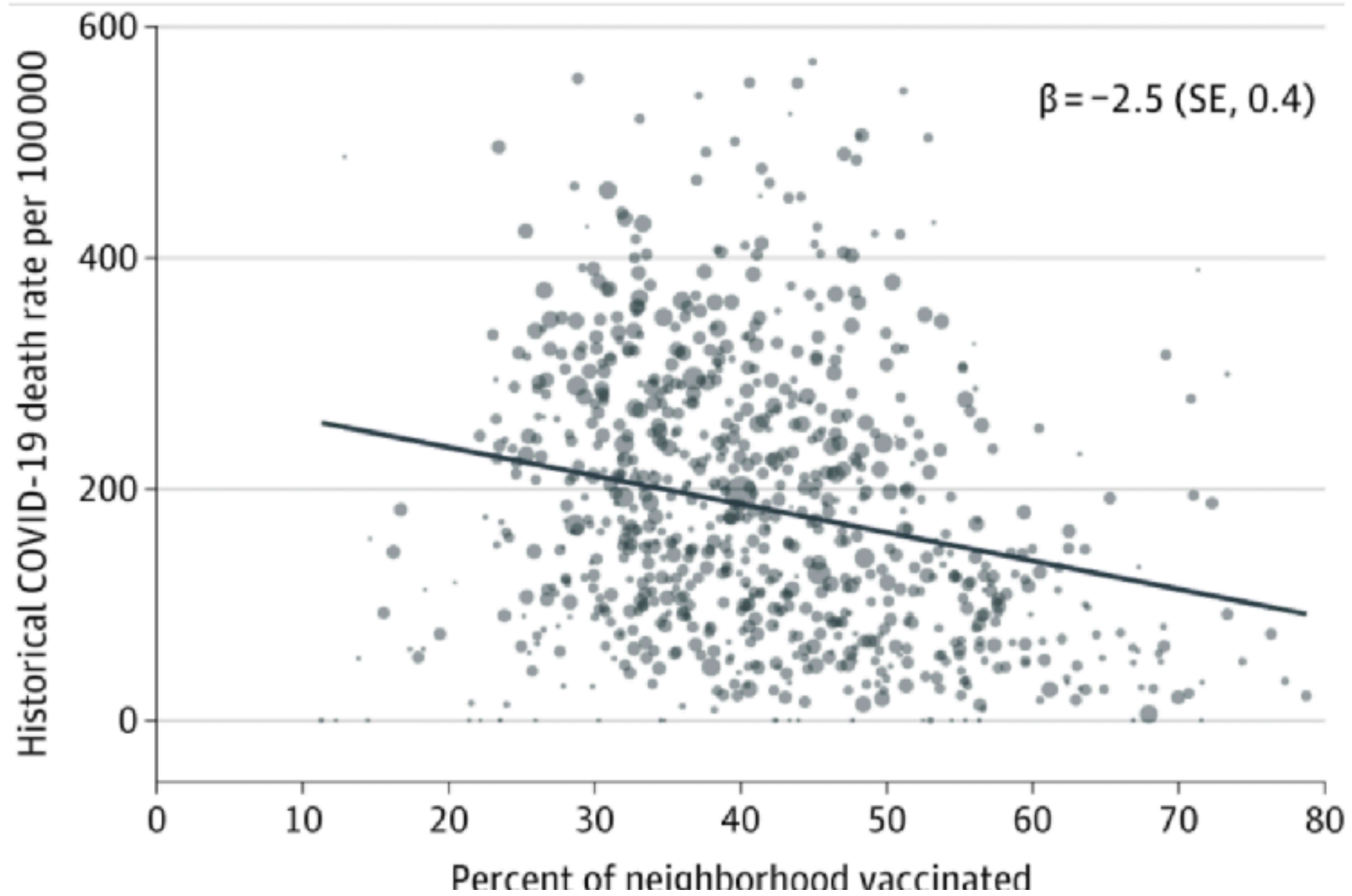
Histogram

diagrammatic comparison of

discrete variables
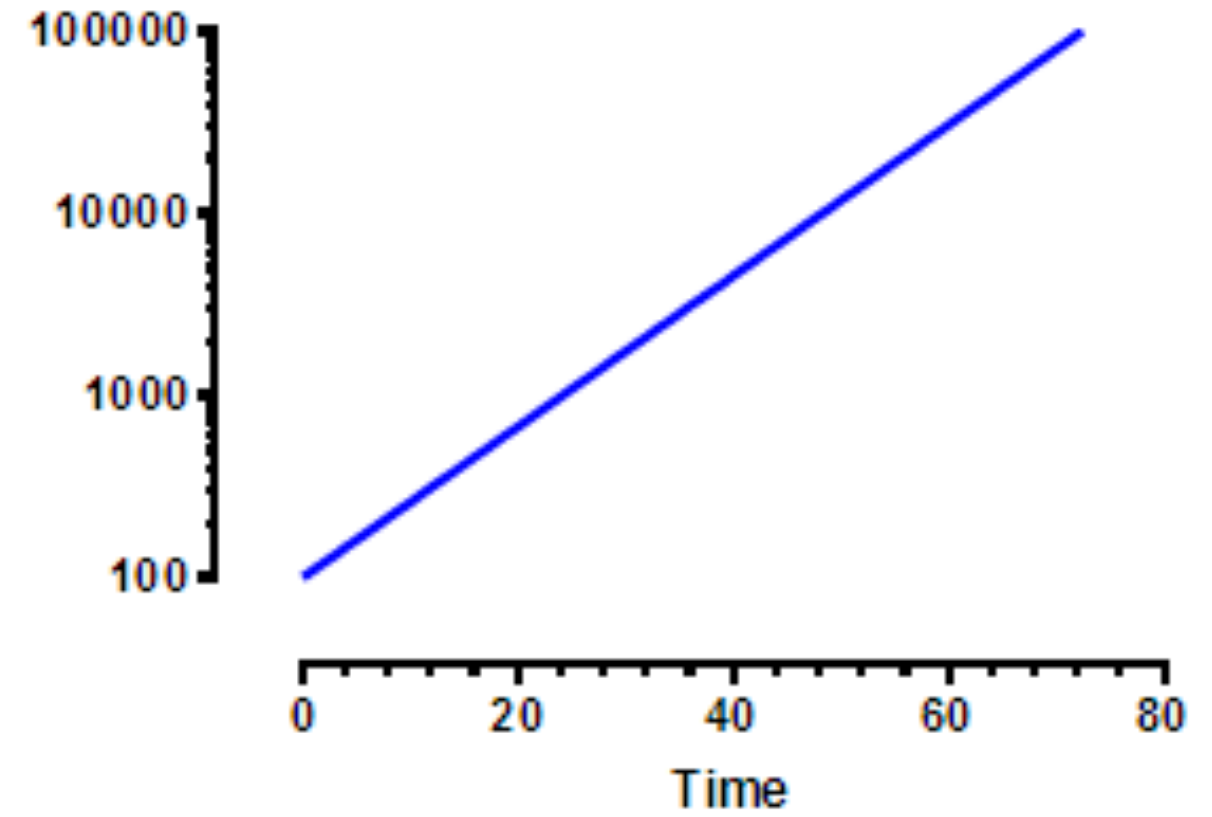
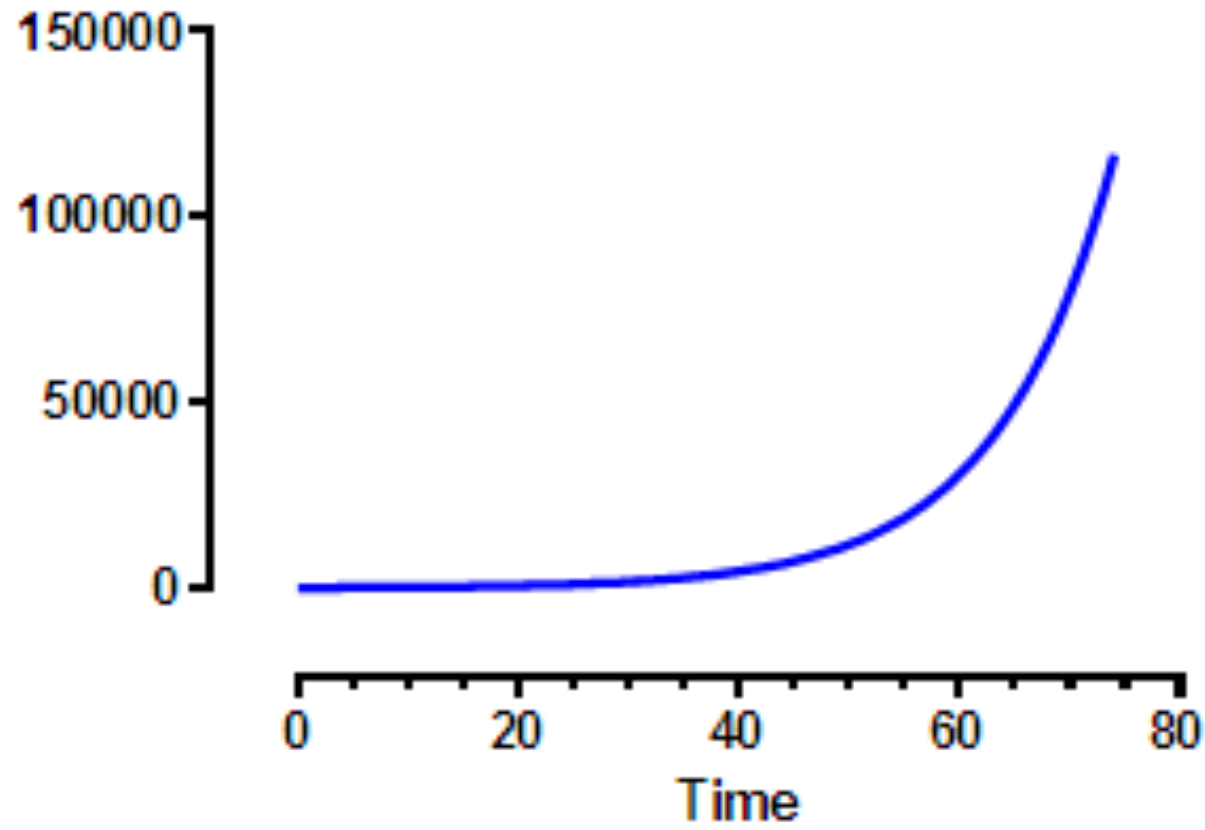frequency distribution of

continuous variables.

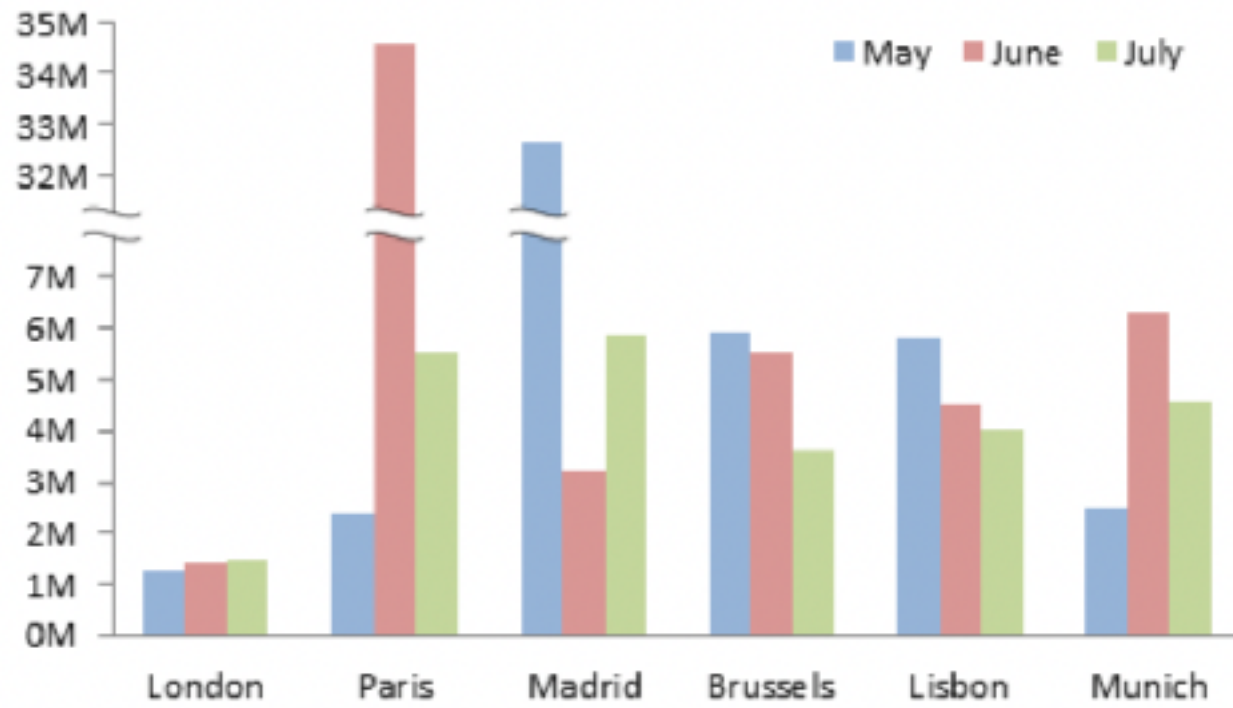# Scatter plot

Histogram
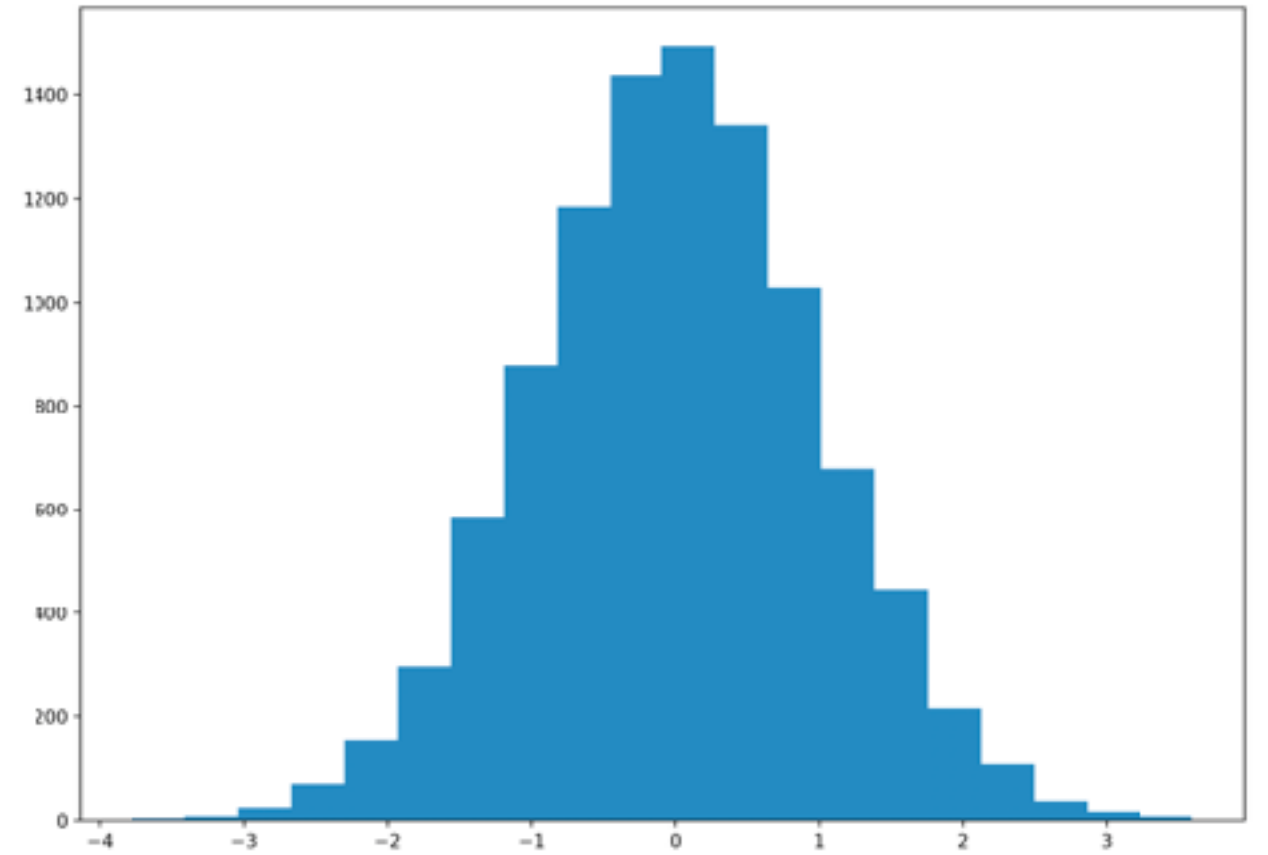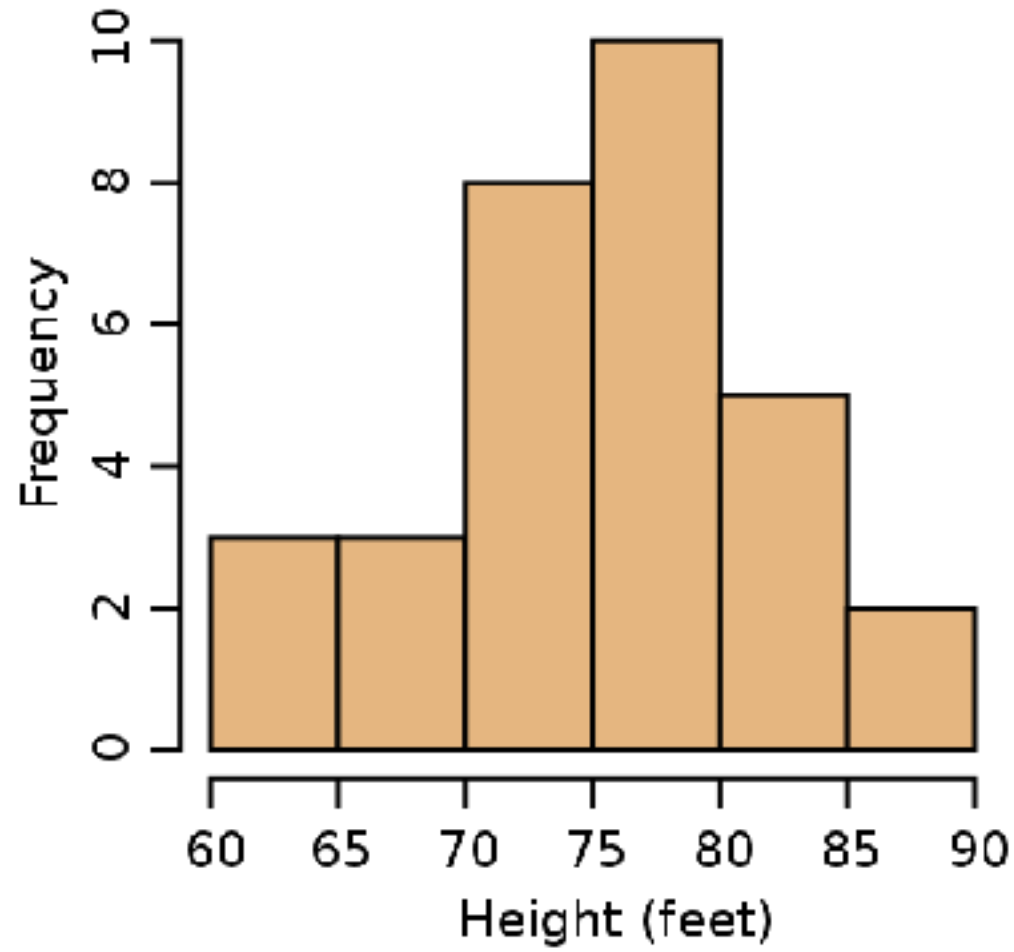
Log log scale

Some plotting software

- GNUPLOT

- MATLAB

- MATHMATICA

- XMGRACE

- ORIGIN

- PYTHON (MATPLOTLIB PYPLOT)

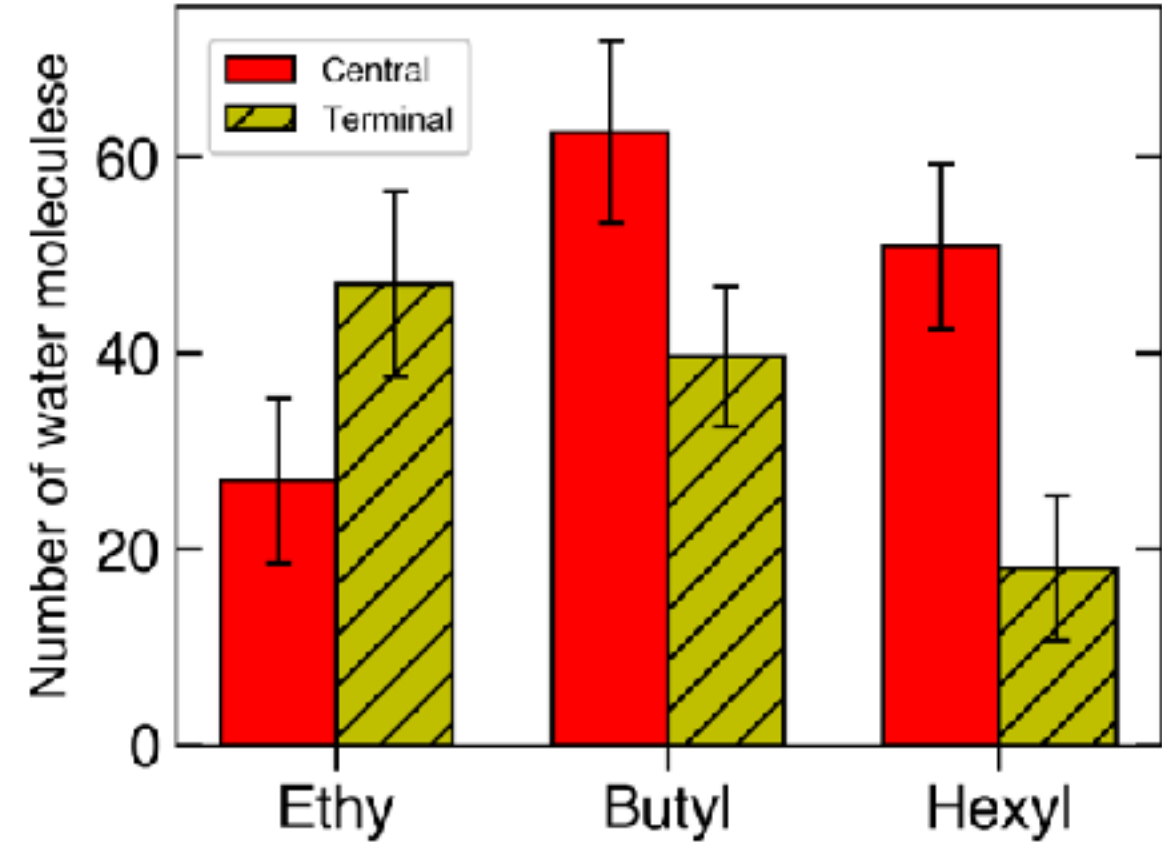# Some more about bar plot

Broken axis

Error bars

Arithmetical mean

y=ax

y=a+x

y=a+cx

Next Class

4 PM Tuesday, 22 August 2023

Measurements of central tendencies