

Bivariate Data:

Example:

Scatter Plot:

Independent variable vs. dependent variable:

Random vs. non-random:

Correlation vs. causation:

Linear vs. nonlinear:

Freehand regression line:

To find the equation of a line we need:

- 1.
- 2.

Two steps:

- 1.
- 2.

Examples:

WARNING:

Method of Least Squares:

Making predictions – Interpolation and extrapolation:

Correlation:

Correlation coefficient:

Estimating the correlation coefficient:

Some notes:

- 1.
- 2.
- 3.
- 4.
- 5.
- 6.