

3.1: Scatterplots and Correlation

Explanatory and Response Variables

A **response variable** measures an outcome of a study. An **explanatory variable** attempts to explain the observed outcomes. The explanatory variable is sometimes referred to as the *independent* variable and is typically symbolized by the variable x . The response variable is sometimes referred to as the *dependent* variable and is typically symbolized by the variable y .

Scatterplot

A **scatterplot** shows the relationship between two quantitative variables measured on the same individuals. The values of the explanatory variable appear on the horizontal axis, and the values of the response variable appear on the vertical axis. If there is no clear explanatory/response relationship between the two variables, then either variable can be placed on either axis. Each individual in the data set appears as a single point in the plot fixed by the values of both variables for that individual.

Examining a Scatterplot

In any graph of data, look for patterns and deviations from the pattern. Describe the overall **pattern** of a scatterplot by the **form**, **direction** and **strength** of the relationship.

- **Form** can be described as **linear** or **curved**.
- **Direction** can be described as **positive** or **negative** or **neither**.
- **Strength** can be described as **weak**, **moderate** or **strong**.

A **deviation** from the overall pattern of a scatterplot is called an **outlier**.

Association

- Two variables are **positively associated** if as one increases the other increases.
- Two variables are **negatively associated** if as one increases the other decreases.

Correlation

Correlation measures the strength and direction of the relationship between two quantitative variables. Correlation is usually represented by the letter r .

Facts about Correlation

1. When calculating correlation, it makes no difference which variable is x and which is y .
2. Correlation is only calculated for quantitative variables, not categorical.
3. The value of r does not change if the units of x and/or y are changed.
4. Positive r indicates a positive association between x and y . Negative r indicates a negative association.
5. Correlation is always a number between -1 and $+1$. Values close to $+1$ or -1 indicate that the points lie close to a line. The extreme values of $+1$ and -1 are only achieved when the points are perfectly linear.
6. Correlation measures the strength of a linear relationship between two variables, not curved relationships.
7. Correlation, like the mean and standard deviation, is nonresistant. Recall that this means that it is greatly affected by outliers.

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Minjie Lin



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