

1.1/2: Categorical Variables and Displaying Distributions with Graphs

Individuals and Variables

- **Individuals** are objects described by a set of data. Individuals may be people, but they may also be animals or things.
- A **variable** is any characteristic of an individual. A variable can take different values for different individuals.

Categorical and Quantitative Variables

- A **categorical variable** places an individual into one of several groups or categories.
- A **quantitative variable** takes numerical values for which arithmetic operations such as adding and averaging make sense.

Distribution

The **distribution** of a variable tells us what values the variable takes and how often it takes these variables.

Describing the Overall Pattern of a Distribution – Remember your SOCS

To describe the overall pattern of a distribution, address all of the following:

- **Spread** – give the lowest and highest value in the data set
- **Outliers** – are there any values that stand out as unusual?
- **Center** – what is the approximate average value of the data (only an estimation)
- **Shape** – does the graph show symmetry, or is it skewed in one direction (see below)

Outliers

An outlier in any graph of data is an individual observation that falls outside the overall pattern of the graph.

Describing the SHAPE of a distribution – Symmetric and Skewed Distributions



Time Plot

- A **time plot** of a variable plots each observation against the time at which it was measured.
- Always mark the time scale on the horizontal axis and the variable of interest on the vertical axis. If there are not too many points, connecting the points by lines helps show the pattern of changes over time.

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