

Variability and Sampling

Data is everywhere. In its raw form, pages, it's in our science classes, it shows up in economics, statistics and anywhere else that variability occurs. Variability is simply the property of outcomes being different. The tools of statistics are designed to explain this variability. There are many types of variability. It is good to understand these various in order to understand their origin, how we measure variability.

Example 1 The following types of variability can change variability of a data set. For each, give an example that may hold.

- (a) **Observational or Measurement Variability:** Variability that is introduced due to either our measuring instruments and being present enough to distinguish as have two different people read the measurement.

2 students measure time for a ball to roll down a ramp
→ different reaction times

- (b) **Natural Variability or Inherent Individual Variability:** Variability that occurs due to the fact that members of populations are simply different.

2 people work out same amount of time
→ different people use different amounts of weight

- (c) **Random Variability:** This type of variability is the result of noise and error. It can be because our tools assigned our populations or samples to two or more treatment groups and then observing the variability between the groups.

2 groups taking a test, one group allowed to sleep 8 hours, other group only 4 hours → different scores

- (d) **Sample Variability:** This is the type of variability that occurs when we take multiple samples. There is population variability. There is going to still be difference due to the variability of the samples or means.

Multiple samples of people surveyed to determine political candidate preference.

Remember, through all of our work in this book, we are really trying to explain the variability of data within either a population or a sample and then using this to determine if the variability was the introduced to one of the factors chosen or the variability of the others.

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Zhe Xu



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