Coursera Stats Video Lecture – Random Sampling and Random Assignment

Week 1, Video 5

1. Random Sampling
   1. occurs when subjects are being selected for a study
   2. study results can be generalizable to the whole population if the samples were random
2. Random Assignment
   1. only in experimental settings
   2. The sample is first observed for blocking variables, then the sample is broken into groups via random assignment
   3. observational units are randomly assigned to the control group or the treatment group
   4. Causality can be inferred from such an experimental design
3. Sampling happens first, assignment happens second

