Overview

**Introduction to hypothesis testing**: This week, you will learn how randomization tests are used to evaluate statistical hypotheses and claims.

Learning Objectives

Upon completion of these activities, you will:

* correctly specify a null model given a research question
* use resampling methods to simulate selecting a sample from a hypothetical population described by a null model
* conduct randomization tests using StatKey
* interpret results from randomization tests such as the *p*-value

Assignments

Assigned readings and lessons:

* Read the following sections from the *Statistical Thinking* book
  + Modeling Sampling Variation
  + Sampling Variation and the Bootstrap Test
  + Experimental Variation and the Randomization Test
  + Quantifying Results: *p*-Value
* Watch the three *Example Hypothesis Test* videos

Required submissions:

* Complete the individual component of *Discussion Assignment #5* (due Thursday)
* Complete the group component of *Discussion Assignment #5* (due Sunday)

Other:

* Begin working on *Lab Assignment #3*(due next Thursday)