

Lesson 8 Statistics!: Statistical Tests

Goals for Today

- Today we're going to be talking about simple statistical tests, such as tests between proportions and t -tests.

Readings for Today

Required

- OpenIntro Statistics, **All of Chapters 5 and 6, 7.1 + 7.3**
 - Note: **yes**, this looks like a lot of reading - but when you remember that you do not have to do the exercises, this cuts down substantially on the actual page count. Focus specifically on understanding **concepts** (such as “what is a point estimate” and “what is a hypothesis test”) versus trying to worry about memorizing any formulae.
 - Other note: you can skip the sections about the Central Limit Theorem unless you'd like to have a deeper technical understanding of some of the stuff we're going to be doing.

Optional

- If you're a little uncomfortable with math (and that's okay!), some of these YouTube videos could help as refreshers:
 - [Khan Academy - Point Estimates and Margins of Error](#)
 - [Khan Academy - Hypothesis Testing](#)
 - [Khan Academy - \$p\$ -values and Significance Testing](#)

Important Links and Files

- The file we worked on in class is available [here](#)
- You'll need the Metal Bands dataset! It's available [here](#)