**Week 2, Day 1**

* Station 2 – EDA with R
* Intro Stats Review: Inference
  + What is inference?
  + Tools:
    - Confidence intervals
    - Hypothesis testing
    - Making predictions
  + CI process:
    - State parameter you’re interested in
    - Determine what type of CI you’re making
    - Check conditions of interval
    - Calculate interval
    - Interpret interval in context, referencing population & parameter
  + Testing process:
    - State parameter you’re interested in
    - State hypotheses (Ho/Ha) about that parameter (RQ is usually Ha)
    - Determine what type of test you’re doing
    - Check conditions of test
    - Calculate p-value
    - Make conclusion in context/Answer RQ

***These steps are the same regardless of the CI/test performed!***

* + How does EDA fit into this?
  + Central Limit Theorem: What is it and why does it matter?
    - CLT: For random samples with a “sufficiently large” sample size, the distribution of many sample statistics is normally distributed and is centered at the true value of the population parameter. Also tells us the mean and SD of those statistics (which are themselves RVs).
    - Why does it matter?
  + Discussion of p-values and the 0.05 “rule”

For Thursday:

* Read Chapter 1
* Complete Station 2 (one per pair)
* Take Intro Stats Review Quiz

**Other Announcements:**

* Frazier’s office hours:
* Morgan’s office hours:
* Justin’s office hours: