Statistics in R!

We’ll be going over some basic Statistics now! Here are some useful definitions/explanations.

* Null hypothesis: The observed results are within the possibility of happening **due to randomness**.
* P-value: Probability of getting your observed result just based on randomness. p<0.05 says **observation occurs randomly <5% of the time**.
* T-test: Test **comparing means of two groups**; significance says the two means are different enough to reject the null hypothesis
* ANOVA: Analysis of Variance; comparing **means of >2 groups**; expands t-test

1. a) Describe Standard Deviation in your own words.

b) What information does the *summary* function give you?

c) What is a normal distribution? What does rnorm(20,1,0.25) do?

1. Describe the following functions from Base R and Tidyverse in your own words (<= 1 or 2 sentences)

* Base R:
  + length:
  + dim:
  + class:
  + seq:
  + rep:
  + c():
  + head:
  + tail:
* Tidyverse:
  + filter:
  + select:
  + Mutate: