t-tests in R

Types of *t*-tests

Single Sample *t*-test

- Comparing a value to a group mean
- Compare a sample mean to the population mean

Independent *t*-test

- Compare the means of two separate groups

Dependent *t*-test

- Compare the means of two groups that are related
  - Same person/thing over time
  - Siblings, couples

t-tests in R

t.test()

- Same function, three tests!

- Single sample
  - mu =

- Dependent
  - paired = TRUE

- Independent
  - paired = FALSE
  - (though not required)

t.test()

- Independent / Dependent
  - alternative = "two.sided" : 2 tailed test
  - alternative = "greater" : 1 tailed, higher than the mean
  - alternative = "less" : 1 tailed, lower than the mean

  - var.equal=FALSE
    - Default
    - For when your variance isn't equal
  - var.equal=TRUE