Day 2 HW: t-test & ANOVA

March 26, 2017

Exercise 1

In a lobster fishery, you collect catch data according to 3 categories:

- sublegal (too small to keep)
- legal (big enough to keep)
- berried (female with eggs)

1. Read in the data from `lobsterHI.csv`
2. Make a boxplot of `catch` by category (`status`)
3. Decide which test to use to look for differences in catch by category (t-test or ANOVA).
4. Are the assumptions for your test ok?
5. Conduct the test.
6. What is your conclusion?

Exercise 2

You sample fish in 2 time periods (1977-79 and 2001) and want to know if the fish are smaller or larger.

1. Read in the data from `BullTrout.csv`
2. Make a boxplot of `mass` by time period (`era`)
3. Decide which test to use to look for differences in `mass` by `era` (t-test or ANOVA).
4. Are the assumptions for your test ok?
5. Conduct the test.
6. What is your conclusion?