

# data.frames II

## Exercise - Walleye

---

Answer the following questions by creating an R script and iteratively running the code in RStudio. For the filtering/subsetting questions, make sure to provide some evidence to support that your filter/subset was successful.

1. Load the `WalleyeErie2.csv` file into a `data.frame` object and answer the following questions.
    - a. For this application, remove the `setID` and `grid` variables.
    - b. Add variables that convert the `tl` measurements from mm to inches and the `w` values from grams to pounds.
    - c. Add a new variable that records the sex of the fish as `M` for “male” and `F` for “female.”
    - d. Add a new variable that contains the capture year as a factor-type variable. How many levels of this variable are present in the `data.frame`?
    - e. Create a new `data.frame` that contains only male fish. [*Show two ways to create this data.frame.*]
    - f. Create a new `data.frame` that contains all fish captured in 2005, 2009, and 2013.
    - g. Create a new `data.frame` that contains only females captured in 2010.
    - h. Create a new `data.frame` that contains only female fish larger than 750 mm.
    - i. Create a new `data.frame` that contains only males captured in 2013 for which a weight was NOT recorded.
    - j. Create a new `data.frame` that contains only males for which an age WAS recorded.
-