# data.frames II

Exercise

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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 NOT recorded.

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Answer the following questions by creating an R script and iteratively running the code in RStudio.

2. Load the **NUNAVUT BASED EXCEL** file into a data.frame object. Make sure to use a method that creates easily usable variable names and useful data types.