

# Summarization I

## Exercise - Walleye

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

1. Load the `WalleyeErie2.csv` file into a `data.frame` object, create factor versions of the `loc` and `year` variables, and answer the following questions.
    - a. How many fish were collected from each location?
    - b. What percent of all fish collected were from each location? [*Show results as a table rounded to one decimal place and as a figure.*]
    - c. Construct a table that shows the percentage (to one decimal) of females (and males) collected by year.
    - d. Construct a table that shows the number of females (and males) collected by year and location.
  2. Isolate the Walleye captured at location 1 in 2014. Use these data to answer the questions below.
    - a. Construct a length frequency graphic. [*Experiment with different bin widths*]
    - b. Summarize (numerically) the length measurements.
    - c. Construct an age frequency graphic.
    - d. Summarize (numerically) the age estimates.
    - e. Examine the length-age relationship.
    - f. Examine (graphically and numerically) the log-log transformed weight-length relationship.
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