

Summarization I

Exercise - Nunavut

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

1. 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.
 - a. How many fish were collected from each year?
 - b. What percent of all fish collected were from each year? [*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 in each maturity stage collected by year and sex.
 2. Isolate the Arctic Charr captured 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. Summarize the weight measurements.
 - d. Examine the weight-length relationship.
 - e. Examine (graphically and numerically) the log-log transformed weight-length relationship.
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