# SLR Weight-Length Relation

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 and restrict the data to Walleye captured from location 1 in 2013. Use these data for the following questions.

    a. Fit an appropriate (i.e., assess the assumptions) weight-length relationship to these data.

    b. What is the $r^2$ for the fitted relationship?

    c. Provide a table of parameter estimates (and 95% confidence intervals) for the weight-length relationship regression.

    d. Predict (with 95% prediction interval) the **weight** of a fish with a given length (i.e., choose a reasonable length)?

    e. Provide summary graphics of the weight-length relationship regression on two scales.

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2. [*Time Permitting*] Repeat the above analyses for some other subset of Walleye.

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