SLR Weight-Length Relation

Exercise - Nunavut

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

1. Load the `PG008_original.xlsx` file into a data.frame object and restrict the data to only those fish captured in **freshwater** in **2010**. 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 (i.e., two graphics).

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