

Homework 11

Use the `lterdatasampler::and_vertebrates` dataset to determine whether the coastal giant salamanders sampled in 1999 are longer (`length_1_mm`) in the stream coded MACKCC or MACKOG. Derive those stream IDs from the `sitecode` column. **Ignore all other variables in the data set.**

You will be graded on 1) how polished the knitted html file is, 2) data processing prior to analysis, 3) justification of the statistical test you choose to use, 4) description of whether assumptions of the analysis are met with appropriate figures/stats, 5) an appropriate and polished results table for the analysis, 6) two final plots of differing styles depicting the analysis result, and 7) usual criteria associated with code annotation and conciseness.

Provide a narrative outside of the code chunks as needed to describe the analysis and its results. I expect students to select differing approaches to their analysis. I'm more concerned with robust justification of the analytical choices you make than whether they exactly follow the way I would approach the analysis.

Please note the length of time you spent on this assignment at the bottom of your script.