For Lab 7

2023-10-24

Learning goals

- Using R's buil-in loop functions: `apply`, `lapply` and contrasting them with `for` loops
- Investigate sampling error; see that larger samples have less sampling error.
- Visualize confidence intervals.
- Adding error bars to plots
- Conditional statements
- Functions

Sources

- Materials from last year (this applies to all of these topics)
- For CIs, there are some good ideas here: https://whitlockschluter3e.zoology.ubc.ca/RLabs/R_tutorial_Describing_data.html#confidence_intervals_of_the_mean and here https://whitlockschluter3e.zoology.ubc.ca/RExamples/Rcode_Chapter_4.html#approximate_confidence_intervals
- For SEM, there are some good ideas here: https://whitlockschluter3e.zoology.ubc.ca/RExamples/Rcode_Chapter_4.html#standard_error_of_the_mean and lab6 from last year;
- Error bars: https://whitlockschluter3e.zoology.ubc.ca/RExamples/Rcode_Chapter_4.html#error_bars_fig_44-1
- Writing functions: lab6 last year;