Biostatistics: Problem Set 3 – Introductory Statistics

Name: _Maggie Layman_____   Score = _21.5_____ /25

GitHub repo: _https://github.com/melaym22/PS3-Applying-Stats.git_____

Submitted on time?   ⦿ Y   ◯ N

Project element	Value	Pts earned	Comments
Successfully fork a GitHub repository and create a new RStudio project from fork • Project called "Lastname-PS3"	1	0.5	Please name project correctly
Set up project and workspace, pull in and examine data, fix mistakes • Lastname-PS3.qmd • Use at least 2 functions • Assign data types • Error checking	2	1.5	Qmd not named properly. You should be using histograms to check for outliers in numeric data.
Analyze Q1: Does body mass differ b/w these 5 species of bats, and if so, how does body mass differ b/w species? • Nature of P and R vars • Analysis method explained • More polished figure • Clear, written interpretation	4	3.5	Line 91 - try to guess the means before building the model. Line 105 - I'd like to know HOW you are making the intepretations based on autoplot() - what are you seeing? Check fig 5.11 in book for ideas on final plot. Error bars look strange plotted on points. Also fix y-axis label.
Analyze Q2: Does body length differ b/w species and, if so, how ? • Nature of P and R vars • Analysis method explained • More polished figure • Clear, written interpretation	4	3.5	Again, line 168 - guess your means. Similar feedback to Q1.
Analyze Q3: Is the number of ticks found on the bats associated with their sex or age? • Nature of P and R vars • Analysis method explained • More polished figure • Clear, written interpretation	4	3.5	Good to use chi-square. Final plot (lines 269) not running - sumbats3 does not have meanbats or sebats so won't make final plot.

Analyze Q4: Disregarding species, is there a relationship in bats b/w tail length and body length? • Nature of P and R vars • Analysis method explained • More polished figure • Clear, written interpretation	4	3.5	There are some curvy lines in your autoplot that you didn't address. I'm ok with you ignoring them, but I'd like to see more depth on interpreting autoplot for at least one of your analyses. Fix axis labels on last plot. Also, more interpretation. What is adj R2 and what does it tell you?
Thought processes are well documented outside of code blocks, code is well commented, all steps prior to data analysis	4	4	good
Successfully open a pull request to add your changes to the forked repository • Commit changes • Open PR • Link pasted in Canvas	1	0.5	Forgot to paste link on canvas
Code represents material we have covered in GSWR Chs 3-5 and not elsewhere	1	1	good

Additional feedback