

Biostat 561: Homework 5

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Homework due November 9, 2 p.m.

Link to Homework 5 submission: <https://classroom.github.com/a/NFYEsha0>

A completed homework will involve 5 files: three `pdfs`, one `tex` and one `Rmd`.

You will need to download a LaTeX compiler (e.g., MacTeX, MiKTeX). I used TexShop for 7 years, then switched in July to using the `latextools` package in Atom. I expect you to be using RStudio for RMarkdown, which makes everything easier.

Question 1: LaTeX

Write up one of your BIOST 514 Homework assignments using LaTeX! If you are not taking 514, choose another class with a quantitative element and write up one of those homeworks instead.

<https://www.latex-project.org/get/> is a good resource to get started with compilers.

Your submission must include

- A list (bulleted or numbered)
- A figure with an appropriate caption (no need to upload the figure)
- A labeled table that is referenced in the text
- At least one in-line math symbol
- At least one stand alone equation
- At least one footnote

If you didn't need one of these elements in your homework, use a toy example to illustrate how you would do it for next time. Upload both your `tex` and `pdf` files.

Question 2: Markdown and tryCatch

Write a mini presentation (5-10 slides) on `tryCatch` using RMarkdown. Explain what this function is for and give a good example (not one from class!) showcasing how you might use it.

<http://rmarkdown.rstudio.com/lesson-1.html> is a good resource to get started with RMarkdown.

Your submission must include

- At least one slide with a header
- At least one use of italicized or bolded text
- A list (bulleted or numbered)
- At least one code chunk with the option `echo = TRUE`
- At least one code chunk with the option `echo = FALSE`
- One or more instances of inline R code

Upload both your `Rmd` and `pdf` files.

Question 3: Mid-quarter feedback

Complete the following questions in a new **pdf** file based on your experience of this class:

1. I have found the material to be [all new/all familiar/sometimes new and sometimes familiar]
2. I have found the material to be [challenging/easy/occasionally easy and occasionally challenging]
3. One thing I have learned in this class that I didn't know before was [...]
4. The most confusing thing covered so far was [...]
5. One thing that's making it easy for me to learn is [...]
6. One thing that's making it challenging for me to learn is [...]
7. One thing that I would like to see covered before the end of the quarter is [...]

The survey is only for the purpose of improving this class for you and your classmates; your responses will be treated as confidential.