

Homework 0

STAT 625 Fall 2022

Helpful by September 8, 2020, 12:30pm

1 Reading

- Begin to read Chapter 1 of the text.
- Review the group norms adopted last year on Moodle. Consider what you'd like to keep or change for our class, for discussion Thursday.
- Review the **Review of STAT 516** document. Think about which questions are easy/hard familiar/unfamiliar to you, and which you would most like to discuss in class. These won't be graded, but knowing these concepts will be helpful for your learning in this class.

2 Actions

(Do not turn in homework this Thursday. Do complete the background survey and take these actions to prepare for next class.)

1. Following the guidelines [here](#), install R and RStudio on your own computer.
2. We will be using RMarkdown to create .pdf files of our work to turn in on Gradescope. Watch the brief video about RMarkdown [here](#). You may use the rest of this page as reference later, but you should be able to do what you need with other materials in the class.
3. Create a directory for this course on your local computer.
4. Download the file `Homework1_template.Rmd` from Moodle and place it in your directory for this course. Click on this file to open it. It should automatically open in RStudio, with working directory set to the location of this file.
5. Install the `alr4` R package using the command `install.packages('alr4')`. Since you only need to do this once, you can do it in the console in the lower left of your RStudio display. You may also type this line into your RMarkdown file, then comment it out after it has successfully executed.
6. If you do not yet have a version of LaTeX installed on your computer, install the 'tinytex' R package using the following two R commands, executed successively:

```
install.packages('tinytex')
tinytex::install_tinytex()
```

Again, you need only do this once, and can just do it in the console. *Hint: sometimes the special characters don't copy-paste well. You may need to type these lines yourself.*

7. Attempt to "knit" the file to .pdf. With the Homework 1 template opened in RStudio, click "knit" to create a .pdf output file. Next week, after you have filled in the answers to all the questions, you will need the resulting .pdf to turn in your homework. If you can get it to "knit" now, that's great. We will also have a little time for possible troubleshooting in class on Tuesday.
8. Sign up for our course [gradescope](#) page using entry code 57RJK6.
9. **Head Start:** If you are new to R or want a refresher, begin to review Chapter 0 pages 1-31 of the Computing Primer [here](#) and at least pages 1-14 of Chapter 1 of the supplemental text available online here: https://www.sagepub.com/sites/default/files/ubinary/38502_Chapter1.pdf. To do this, I recommend using `File -> New -> RMarkdown` to create a new file for this exercise. Type the code in the new RMarkdown file and execute it. Completing these will be part of next week's homework.

3 Online Questions

For this week's online questions, please complete the poll on your background and interests [here](#) if you have not already. It is also linked from Moodle.