

This problem set is intended to guide you through installation of different required software and get you familiar with GitHub classroom. It will also help me learn a bit more about your research interests.

In completing this assignment, you will be writing TeX code, either using overleaf.com or a local TeX editor like TeX Live. You will also be using Git, and publishing your work to GitHub.

You will submit your problem set by pushing the document to *your* fork of Problem Set 0, big-data-PS0. You will put this and all other problem sets in the repository big-data-PSX, where X is the problem set number. Name your files PSX_LastName.extension.

1. Create an account at [GitHub.com](https://github.com) and “star” our class repository (<https://github.com/ECON368-fall2023-big-data-and-economics>). Please add a photo of yourself to your profile; this will make it easier for all of us to interact throughout the course.
2. Fork the class repository to your own account. Once you have forked, go to “Settings” and click on “Collaborators” on the left hand bar. Enter my GitHub username so that I will be able to view your completed assignments.
3. Fork the big-data-PS0 repository to your own account. Once you have forked, go to “Settings” and click on “Collaborators” on the left hand bar. Enter my GitHub username so that I will be able to view your completed assignments.
4. Download Git and GitHub Desktop. You can download Git at <https://git-scm.com/downloads>. You can download GitHub Desktop from <https://desktop.github.com/>.
5. Download R and RStudio. You can download R from <https://cran.r-project.org/> and RStudio from <https://www.rstudio.com/products/rstudio/download/>.
6. Download TeX Live or related TeX editor. You can download TeX Live from <https://www.tug.org/texlive/>. You may also use overleaf.com or another TeX editor of your choice. I will be able to provide less guidance on how to optimize those.
7. Download Visual Studio Code (or similar text editor). You can download Visual Studio Code from <https://code.visualstudio.com/>. You may also use Sublime Text, <https://www.sublimetext.com/>, or another text editor of your choice. I will be able to provide less guidance on how to optimize those.

If using VSCode, navigate to the extensions tab on the LHS utility bar – ctrl+shift+X will also pull it up. It looks like a square with four squares inside – the top-right has been removed. Search for and install the following extensions:

1. The R extension by REditorSupport – <https://code.visualstudio.com/docs/languages/r>
2. *LaTeX Workshop* by James Yu – <https://marketplace.visualstudio.com/items?itemName=James-Yu.latex-workshop>
3. Install Anaconda – <https://www.anaconda.com/products/individual>
4. Follow the Radian installation instructions – <https://github.com/randy3k/radian>

Follow installation instructions and setup.

8. Open a new LaTeX project in your editor of choice. Use the template provided in the Solutions folder of PS0.
9. In the body of your .tex file, write a brief summary (\approx half a page) of your interests in economics & data science. What made you want to take this class? Do you have any ideas for what you would want to do for your project for this class? What are your goals for this class, and what is your plan for after graduation?
10. At the end of your document, create a new section entitled “Equation” and write the following equation in T_EX format following the directions [here](#):

$$a^2 + b^2 = c^2 \tag{1}$$

11. Issue a pull request to our class repository (note: *not* your private fork of the class repository) by adding a text file with your initials to the People/ folder. The first (and only) line of the text file should say 'hello'. For example, if I were completing this problem set, I would create a file called TR.txt in the People/ folder (after cloning the repository) and then add it to the course repository via pull request.

Note: Specific steps to complete this problem set are listed below:

- Double check that your big-data-PS0/solutions folder (in your local copy of the forked repository) has two files in it: PS0-solutions.tex and PS0-solutions.pdf.
- From the command line type the following:
 - `git add PS0-solutions.tex PS0-solutions.pdf`
 - `git commit -m "Turning in my PS0"`
 - `git push origin master`

Are you still confused about Git? I definitely recommend going through [these slides](#). I also invite you to check out the “Learn by doing” resources on <https://try.github.io/>. Also, learning Git requires patience and with enough practice, you’ll get it!