

Data Science Techniques (MAT 339)
Homework 1 - 10 Points

Note the due dates for the different parts of this assignment below and that you will compile the entire assignment in one **LaTeX** document.

Do the following tasks **before our first class meeting**. Check the box to indicate you completed the task where applicable.

1. ☐ Create a GitHub account (if you do not already have one), by going to <http://www.github.com>.
2. ☐ Fill out my form asking for your **GitHub ID**.
3. ☐ Install **GitHub Desktop** (available from <https://desktop.github.com/download/>) and/or get **Git from the Terminal** operational on your machine (see course GitHub guide **Accessing Course Content using GitHub.docx**).
4. ☐ I will add you as a "collaborator" to 1 of 3 repo's https://github.com/ifrommer/github_basics_A (or `_B` or `_C`) repository depending on your last name. You should see an invitation email from me. When you receive it, **clone that repo**. That repo is for our lesson on Day 1; it is different from our course content repo.

The rest of the assignment is due at the beginning of class on Wednesday, January 21, 2026.

5. Take screen shots of these 3 things:
 - (a) you logged into github.com showing your respective github_basics_A, B or C repo
 - (b) GitHub desktop or Git from the terminal showing the current repository as github_basics_A, B or C
 - (c) windows explorer showing the files in your local copy of the repo
6. Choose one or more students who were assigned to your github_basics repo. This was based on last name:
 - B-H in github_basics_A
 - J-P in github_basics_B
 - R-W in github_basics_C

Following the script demonstrated in class, make changes to the repo first by taking turns and then overlapping. When overlapping, resolve the conflict and merge the changes. Write up a brief recap of these activities as your answer to this question.

7. Looking over the topics listed on the Course Plan section of our Course Description, pick one to two topics of interest to you. Do some research about the topic(s) online, using books, and/or by interviewing an expert and write at least 150 words about what you have learned about the topic, why it is important, and particular applications of it you are interested in.

8. Combine the various elements required for this homework in a single **LaTeX document**. I will supply you with the LaTeX for the questions at the top with the check boxes. You include the screen shots and your typed answer to the other question.
9. Print your document. You can either check the boxes by hand or figure out the LaTeX commands to check them. Hand the hard copy document in at the beginning of class on the due date.
10. In addition to submitting the hard copy, upload your LaTeX **.tex** file to this assignment's Canvas page.