

# Introduction to Bash & GitHub Activity

AMS Bootcamp

Lewis Blake

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In this activity you will have the opportunity to apply the Bash and GitHub skills we discussed this morning. The primary objective is for each of you to gain comfort with these tools and apply them to documents and pieces of code you have written in previous portions of the bootcamp. Before we begin, it is important that you have created a GitHub account and have git downloaded and working on your machine. Once that is completed we may proceed.

You are encouraged to work together and ask questions if you get stuck. **Hint:** You will likely need to make frequent references to the presentation to complete this activity. Lots of good information is in there!

1. Choose some pieces of code (i.e., files) that you created previous part of the bootcamp (e.g., MATLAB, R, L<sup>A</sup>T<sub>E</sub>X) that you would like to keep.
2. On GitHub, create a repository where you would like to store this code. For example, you might create a repository and call it “AmsBootcamp”. You can decide for yourself, but I would set this repository as private.
3. Clone the repository to your local machine in a location which makes sense to you.
4. Either copy or move the files into your local repository. See if you can do this using the command line!
5. Using command-line git, add these files to the next commit.
6. Commit these files.
7. Push these files to GitHub.
8. Check on GitHub to see if it worked.

## **Bonus:**

- Before you work on these files again, what should you do?
- How might you clone this repository onto a different machine?
- Create a new branch for your repository, testing out some changes on your local machine, merging the new branch with the master branch, and then pushing to GitHub.
- Do you need to merge locally before pushing to GitHub? When might merging locally be a good idea and when might you not want to do it?