

Steps for using GitHub in BME2315

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Dr. Groves

When setting up a new repository through GitHub classroom

- ❑ Ensure you are a member of the organization **ENG-BME-2315-001**.
- ❑ Follow the **GitHub classroom link** sent by the instructor to accept a new assignment.
- ❑ If the assignment is a pair assignment, either:
 - ❑ Make a team called "LastName1_LastName2" for you and your partner **OR**
 - ❑ Join your partner's team if they have already made one.
- ❑ This should make a GitHub repo in the ENG-BME-2315-001 organization that you can access.
- ❑ Go to **GitHub Desktop** and **clone** the repository to your local folder for this class. Remember to put the repository folder **INSIDE** your class folder on your computer.
- ❑ In **GitHub Desktop**, make a new branch for your own code (with your name) and **publish branch** or **push origin**. You will be pushing and pulling to this branch until you are happy with your code, at which point you will do a **pull request**.
- ❑ After this set up, follow the steps on the next slide.

Every time you code

- ❑ Go to **GitHub Desktop**
 - ❑ Make sure your current **branch** is your own
 - ❑ **Pull origin** to get any changes from the remote repository.
 - ❑ If your partner has pushed code to the main branch that you want to fetch into your branch, click on Current branch and then "Choose a branch to merge into YourName." Then **merge main** into **YourName**. (See right). Alternatively, you can open and close branches for each coding session (so you would always make a branch from **main** before coding).
- ❑ Open **VS Code**.
 - ❑ Open your **folder** (from the intro to python lecture) for this class. Look into the appropriate repository subfolder (where you've clone the repo).
 - ❑ Open your files that you want to edit or make a new file.
 - ❑ Make sure your environment is correct (you should see your conda environment "**base**" and the Python version in the bottom right or upper right corner)
 - ❑ Code & save the files!
- ❑ Open **GitHub desktop** again.
 - ❑ You should see the changes you've made.
 - ❑ Write a commit message (summary), **commit**, and **push origin**.
 - ❑ You can now double check on Github.com that the remote version of your branch is the same as what's on your local computer. If it is, the instructors and your partner can see your changes!



When you are ready to add code from your branch to the main branch

- ❑ Open **GitHub desktop**. Make sure you are on your own branch.
- ❑ Open a **pull request**.
 - ❑ Follow the screens (clicking blue or green buttons) to make the pull request (it will automatically open **github.com** in the internet browser)
 - ❑ Add comments to explain what the pull request is doing.
- ❑ Wait for your partner to **accept** your pull request or add **comments**.
 - ❑ **Merge** your code into the **main** branch if your partner hasn't yet.
- ❑ Go back to **GitHub desktop**. Your main branch and personal branch should now be the same.
 - ❑ Remind your partner to **pull main** to get your code!

This is an example of a **single repository** with **multiple branches**. Remember that this means there are multiple versions of the same project code.

