**Jupyter Notebook Integration with Github**

**Follow these instructions to integrate your Jupyter Notebook assignments with a Github repository after completing the technology check from the first class.**

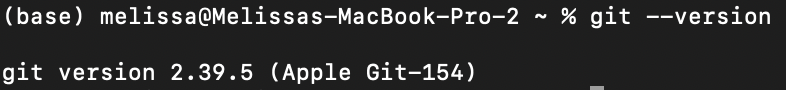
1. **Create a Github Account**

* [GitHub Account](https://github.com/) – GitHub allows you to post, collaborate and share code. Edits and versions remain visible to accommodate for package updates and software version changes. This is a great resource to demonstrate your coding abilities to future employers and share completed projects electronically.
* Share your GitHub account username with the class under our Staying Connected discussion board.
* Join the private Github repositiory for Data Gathering and Warehousing – Spring 2025 - <https://github.com/MelissaLaurino/DSSA-5102_Spring2025>
* If you attended the boot camp and our first class, we already created a Github account. Skip this step.

1. **Install Git on your Computer**
   * [Git](https://git-scm.com/) is a system software that allows you to work with Github using your terminal window. Click on the hyperlink to install the latest version, or use your terminal.
     1. Open a new terminal window.

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* + 1. Check if Git is already installed on your machine by typing:
    2. git --version
       - If it is installed, you will see the version.
       - If it is NOT installed, you will see an error.
    3. WINDOWS: Install Git via the link above that fits your machine.
    4. MAC: Install Git via Homebrew (A package that installs software for Mac)
       - Copy and paste the following:
       - /bin/bash -c "$(curl -fsSL https://raw.githubusercontent.com/Homebrew/install/HEAD/install.sh)"

brew install git

* + - * Type git --version after the installation to ensure it worked. You should now see the version.
    1. Set your username and email in the same window by typing:
    2. git config --global user.name "Your Name"
    3. git config --global user.email “[your-email@example.com](mailto:your-email@example.com)”



1. **Clone the Class Repository & Open in Jupyter Notebook**
   * Go to our class repository: <https://github.com/MelissaLaurino/DSSA-5102_Spring2025>
   * Copy the HTTPS link by clicking on the green Code button:

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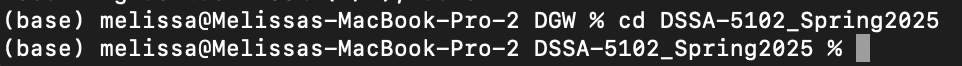
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* + Head back to your terminal window and navigate to a directory of your choice.
    1. cd = Current directory. Use cd to access or change the current directory.
    2. Type
       - cd ~/Documents/YourDirectory



* + 1. I am now in my DGW folder, within the DSSA folder, within the Documents folder.
  + Clone the Github repository
    1. Type
       - git clone [https://github.com/MelissaLaurino/DSSA-5102\_Spring2025.gitA screen shot of a computer

         AI-generated content may be incorrect.](https://github.com/MelissaLaurino/DSSA-5102_Spring2025.git)
       - This repository has been temporarily made public to avoid inputting your username and personal access token. If you are completing these steps after the repository is made private, visit <https://docs.github.com/en/authentication/keeping-your-account-and-data-secure/managing-your-personal-access-tokens#using-a-personal-access-token-on-the-command-line> for steps on how to create your personal access token.
  + If you check your directory on your machine, you should see a clone of the repository and its own folder.
  + A screenshot of a phone

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  + Change your current directory in the terminal to the newly cloned repository.
  + Type
    1. cd repository name
  + In the same terminal window, launch jupyter notebook. Type:
    1. jupyter notebook
    2. 
    3. Jupyter notebook will open in your browser within that current directory you cloned.
    4. Navigate to the file you wish to work on, in this case, I will choose Assignment #3.

1. **Adding a new file to your Github repository (That you created locally) & Adding any locally made changes to Github**
   * Set your terminal working directory to the local folder if you have not already.
   * Type
     1. git status

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This shows that it is recognized there are unpublished changes.

* + To add all changes, Type:
    1. git add .
  + Commit the changes, and Type:
    1. git commit -m "Added a test Github integration file"
  + Add the changes to your files to reflect on Github. Type:
    1. git push origin main

1. **Pulling a new file from your Github repository (That you want to be stored locally)**
   * Pull any new changes
     1. git pull origin main