Kolby Boyd
Prof. Patricia McManus
ITAI 1378
L02

GitHub x Jupyter Notebook

The Setup:

1. **The initial setup of my GitHub account** was straightforward, and I noticed that there were many features that were available to me. I could choose a paid or free plan, and personalize my account to better fit my needs. Since I'm not sure what I will be using GitHub for just yet, I skipped personalization and got straight to work on this project.
    a. Some issues I faced: I was unsure where to start when greeted with my GitHub dashboard. It was all new to me at first, but I closed the ads at the top and found the modules to create my first repository and a README within that repository.
2. **Creating my first repository in GitHub** was a simple process. I was guided by the process and successfully created a repository entitled, *jupyter-exploration* and began to practice making edits and commits to the main branch.
    a. There were no issues during this step of the process.
3. **Installing the Jupyter Notebook** was also simple, but it took some time for the Anaconda installer to complete, although I could not find the Anaconda Navigator on my desktop or in the Start Menu, and when attempting to open from the command prompt or from navigating to the containing folder, the Navigator briefly flashed and immediately closed.
    a. Due to this issue, I went to this website (https://docs.anaconda.com/free/anaconda/install/verify-install/) to verify that my installation was completed correctly. I ended up searching my Local Disc C: to find the folder and created a shortcut on my desktop and taskbar. Then I did some research on GitHub and StackOverflow to discover if anyone else had the same or similar problems which they did. I discovered an article (https://pythoninoffice.com/how-to-fix-anaconda-doesnt-launch/) that described the problem and provided a workable fix by uninstalling PYWIN32 via the command prompt. This didn't work so I uninstalled and reinstalled the Anaconda Navigator. After much troubleshooting, we finally can see the Navigator dashboard in all its glory.
    b. I also needed to install Jupyter Notebook via the Command Prompt for Anaconda to be able to open it.
4. **Performing Basic Operations**
    a. Markdown Cells are cells that hold text. These cells use a language similar to Hypertext Markup Language (HTML), so many of the same functions can be used.
    b. Code Cells are cells that house code, in this case python. When the notebook is run, the code will generate its desired function.
    c. I've learned some basic Markdown Syntax as can be viewed in the Jupyter Notebook.

What I Learned:

1. Concepts
    a. Markdown Language is a very similar, yet lightweight version of HTML (Markup Language).
    b. Combining GitHub and Jupyter Notebooks is unparalleled in its ease of use in collaboration.
2. Tools
    a. GitHub is a great place to store public and private projects for others to collaborate and view.
    b. Jupyter Notebook is a great place to write breakdowns of code and can be stored in a GitHub Repo for others to view and/or collaborate on.

Links & Resources:

1. GitHub Repository: https://github.com/kolbydboyd/jupyter-exploration