Lecture 20 setup

1.0 Get files

Lecture files are available in Canvas Modules and Canvas Files. Download the files to your `~/Downloads` directory.

2.0 Copy/move lecture files using the terminal

❗ if you have yet to create the suggested SI 506 directory structure see Appendix A below. If you opt for your own directory structure you will need to adjust the paths listed below accordingly.

1. Open your terminal (either Terminal.app or Git Bash)
2. Issue the following terminal commands:

```
cd Downloads
mkdir ../Documents/umich/courses/SI506/lectures/lecture_20/
cp lecture_20_setup.md lecture_20.md lecture_20.py fxt_films_ranked.json
fxt_films_ratings.json rotten_tomatoes-star_wars.json swapi_films.json
../Documents/umich/courses/SI506/lectures/lecture_20/
cd ../Documents/umich/courses/SI506/lectures/lecture_20/
ls
```

The above commands perform the following operations:

1. Change directory from your home directory to `~/Downloads` directory.

   💡 recall that `~/` is shorthand for your home directory.

2. Create a new subdirectory directory in your SI 506 `lectures` directory named `lecture_20`.

3. Copy (`cp`) the downloaded files to the `lecture_20` directory.

   💡 You can copy the files one at a time but that's less efficient.

   ❗ You can also move (`mv`) the files but the copy operation is safer in the sense that if you move the files to the wrong target directory, you will have to figure out where you moved them, then change directories, and move them from their new location. I recommend that you copy (`cp`) the files rather than move them. If you accidently copy the files to the wrong directory, you can reissue the the copy command again from your `~/Downloads` directory with an updated path.

4. Navigate (`cd`) to your `lecture_20` directory.

5. Confirm "that the contents of the `lecture_20` directory are as expected (i.e., it contains copies of today's lecture files).

3.0 VS Code

Open your SI 506 workspace in VS Code.

❗ If VS Code does not open your SI 506 workspace, click the blue "Open folder" button and navigate to your `~/Documents/umich/courses/SI506` directory.

1. Hover over `lecture_20.md`, right-click, and select "Open Preview".
2. Hover over `lecture_20.py`, right-click, and select "Open to the Side".
3. Click on the files icon in the left-side activity bar to close the file viewer pane.

❗ If you have yet to create a VS Code "workspace" now would be a good time to do so. Click on *File -> Save Workspace As...* and change the default filename from `workspace.code-workspace` to `SI506.code-workspace`. Make sure you save the file to your `~/Documents/umich/courses/SI506` directory.

Appendix A. SI 506 directory structure

From your home directory `/Users/< your account name >` (macOS) or `c/Users/< your account name >` (Windows) create the following directory structure to hold SI 506 content.

```
Documents/
    umich/
        courses/
            SI506/
                assignments/
                lectures/
```

Issue the following commands from the terminal:

```
mkdir -p Documents/umich/courses/SI506/assignments/
mkdir -p Documents/umich/courses/SI506/lectures/
cd Documents/umich/courses/SI506/lectures/
```

💡 the `mkdir -p` command option or flag will create all required intermediate directories on the specified path.