DS-GA-1007 Programming for Data Science Assignment 3

Instructions

You will need to use the VirtualBox image to complete the first part of this assignment. Submit your answers directly to the NYUClasses site.

Shell Practice

- 1. Explore the filesystem tree using cd, ls, pwd, and cat. Look in /bin, /usr/bin, /usr/lib, /tmp, and /boot. What is the path of the python2.7 directory?
- 2. Explore the /dev directory. This directory contains files that are not ordinary files and not directories. What do you think they are? (Hint: Use the man command to see a description of the ls command's long format)
- 3. Set your current directory to your home directory. Create subdirectories called work and play. Delete the subdirectory called work. Copy the file /etc/hosts into your home directory. Move it into the subdirectory play. Copy the entire play directory into a new directory called work. What command did you use to copy the play directory? (Hint: use the "man cp" command to see the extra options available.)
- 4. What command would you use to copy all the files in the current directory that start with the sequence nyu followed by two numbers and that end with any sequence of three characters, into the immediate parent directory.
- 5. What command would you use to display the number of files in the current directory?
- 6. What command would you use to display the number of characters in a file?
- 7. What option to the ls command can be used to show hidden files (those beginning with a ".")

Git Practice

- 1. Use a shell to create a new directory and initialize a repository in it. This will be the repository working directory. Ensure the repository is correctly configured.
- 2. Create a subdirectory in the working directory that is your Net ID.

- 3. Download the file2play.txt file from NYU Classes, copy into the new subdirectory, and commit it.
- 4. Edit the content of file2play.txt by creating a second row in the file using a text editor, modifying the original content. Save the file and then commit the change.
- 5. Create a new branch called **testing** and switch to that branch.
- 6. Change the file2play.txt file once again by creating a third row, save the file, then commit the change.
- 7. Now merge the change back into the **master** branch.
- 8. Change file2play.txt by creating a fourth row, save the file, then commit the change to the **testing** branch.
- 9. Merge the **testing** branch back into the **master** branch. Assume the master branch version is the correct version.
- 10. Sign up for your GitHub account.
- 11. Push your **master** branch to your repository
- 12. Copy the output of the command "git log" in a solution file and upload it in NYU Classes