Lab 1
CST 205

Task 1

Put an image (of your face) on iLearn and an appropriate image of your choosing on Slack. (You may not have to do anything.)

Task 2

If you haven't done so already, introduce yourself on our Slack channel.

Task 3

Using only a terminal emulator (as described in class), carefully perform the following:

1. Create a new directory called `cst205` in your Desktop directory.
2. From within the `cst205` directory, create a new file called `test.cst`
3. On *Windows*, open this file from PowerShell using Notepad, with:

    ```
    notepad test.cst
    ```

    On *macOS / Linux*, open this file using nano or `vim`. (Ask for help if needed!)
4. Type a few fun facts about the others in your breakout room and save and close the file.
5. Rename the file `hello.205`
6. Verify the file contents using `cat`
7. On *Windows*, issue the following command:

    ```
    0..2 | % { Get-Random -min 0 -max 255} > color.txt
    ```

    On *macOS / Linux*, issue the following command:

    ```
    for ((n=0; n<3; n++)); do echo $((RANDOM % 255)); done > color.txt
    ```
8. `cat` the file and enter the three values as the R, G, B values on <u>this website</u>. On the fourth line of `color.txt`, write down the hex value provided (starts with #), for example, #C5B257.
9. Enter in your hex value (without the #) at the end of the URL <u>https://www.colorhexa.com/</u> to learn more about your color.

Task 4

For your respective operating system, research and explain how the command in line 7 of Task 3 works. You can add this information to you `color.txt` file.

If you finish early, please help others in your group.

Deliverable

Submit `hello.205` and `color.txt` on iLearn.

Note: If you do not complete Task 1, you will not get credit for the lab.