

Homework 1

Due Date, electronic portion: 11:59:59 pm on Thursday, September 10

Due Date, paper portion: beginning of class on Monday, September 14

Electronic Portion [45 points]

Follow the instructions below and turn in a zip file via Canvas by the due date above.

1. Create a folder called `myHomeworkOne` on your Desktop.
2. Download the file `hw1.zip` from the course web page. On Firefox, doing a **right-click** on the file lets you download and store it in the `myHomeworkOne` folder.
3. Click on the file to unzip it. This will create another folder called `hw1` within `myHomeworkOne`.
4. All files/folders should start with a letter, have no spaces, and reflect the contents of the file. Rename any files/folders that do not follow these rules.
5. Change the file extension on `something.webp` to `.txt`, as it is actually a text file. Read the contents of the file using an appropriate text editor.
6. Move all image files to the appropriate image folder. This folder should contain **only** image files.
7. Within the image folder, move all appropriate images to the `scenery` folder.
8. All non-image files should reside in the `hw1` folder.
9. Create a Word document. This document should have three lines: the first is your name, the second is the full path name for the Webster Lake image, and the third should be the text that is stored in the `something.txt` file.
10. Call this document `path.docx` and store it in the `hw1` folder.
11. Zip all of the files and folders in the `myHomeworkOne` folder and call it `lastNameHW1.zip`, where `lastName` is replaced by your last name. For example, my submission would be `gousieHW1.zip`. Note the capitalization and that there are no spaces in the filename.
12. Submit the zip file via Canvas before midnight on the due date.

Paper Portion[45 points]

Do this portion of the homework on paper; don't forget to put your name at the top. Show your work for maximum points. If you have multiple pages, please staple them together. Do not turn in paper with "fringes." For full credit, show your work; writing just the final answer is not sufficient. At the bottom of your homework, please write and **sign** the Honor Code pledge:

I have abided by the Wheaton College Honor Code in this work.

1. What is 1110011_2 in decimal?

2. What is 111_{16} in decimal?
3. What is 254_{10} in binary?
4. What is $BF7_{16}$ in decimal?
5. What is 54333_{10} in hexadecimal?
6. The size of an image is listed as 7.5MB on a Mac. **Exactly** how many bytes is that?
7. In two words, describe what color $\#EEEEEE$ represents.
8. In two words, describe what color $\#FB2EB1$ represents.
9. Show the hex value that represents the color of Concord grape.

Miscellaneous[10 points]

Be sure to follow the details in both portions of this homework.