

Assignment 2

Concerning the Basics of Python and Selected Image Processing Methods

Due: Monday, February 2, before 5:00 PM.

Do the following exercises from the reading chapters (and also exercise Y), giving most of your answers in a document file in one of the following formats: PDF (preferred), raw text (.txt), or Microsoft Word. You should turn in a total of 4 files, with the first one containing your answers for the exercises from Chapters 6-9, two files for Chapter 11 and one file for Chapter 12. Exercises marked below with an asterisk will provide you with an item for your portfolio.

Chapter 6:

6, 8, 9*.

Optional challenges: 1, 2*, 4.

Chapter 7:

2, 3, 5*, 7*.

Y*: Also, using one or more PixelMath formulas, create an image that combines the following elements: (a) two or more of the colors chartreuse, indigo, salmon, burnt sienna, ochre, ruby, aquamarine; (b) two or more of the geometric forms line, circle, ellipse, parabola, hyperbola; and (c) parts of one or more photographs that you either took yourself or have written permission to use. Feel free to use web resources such as Wikipedia for RGB representations of particular colors.

Chapter 8:

2, 5*.

Optional: 4*.

Chapter 9:

1, 7*, 8*.

Optional: 4*, 9*.

Chapter 11:

2. (Turn in the code for this as a file named `FourWindows.py`.)

Either Exercise 3 or 4 (your choice). (Turn in either a file `Exercise11-3.py` or `Exercise11-4.py`).

Chapter 12:

1, 2, 6. For these, turn in a single file `Chapter12Ex.txt` with the Python code and the textual answers combined.

Submit the document electronically that contains your answers to the Assignment 2 DropBox at Catalyst CollectIt. <https://catalyst.uw.edu/collectit/dropbox/tanimoto/34051>