Due by Feb. 8th, 2019

VIA 515E

HW 1

You may use your favorite programming environment/language/tool for the following exercises.

1. Download 256x256 colored "Lena" image.

2. Obtain the gray scale image, I, by taking the average values of R, G, B channels.

3. Obtain the histogram, h, of the gray scale image, I.

4. Inspect h and propose a threshold value, T, to segment the image into two parts and hence obtain a binary image, B:

    i. Part I: Pixels with intensity values above T.

    ii. Part II: Pixels with intensity values below T.

5. Present the output image B.