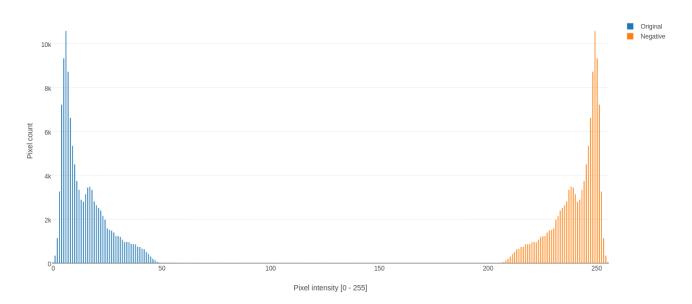
Tim Hung thung1@binghamton.edu CS 455 Assignment 1 Programming Design Writeup

- 0. Purpose: To explore different implementations and applications of image enhancement.
- I. Image gray-scale transformation and enhancement
- 1. Negative transformation function: y = 255 x



2) Histogram of original and negative

Negative Gray-scale Transformation

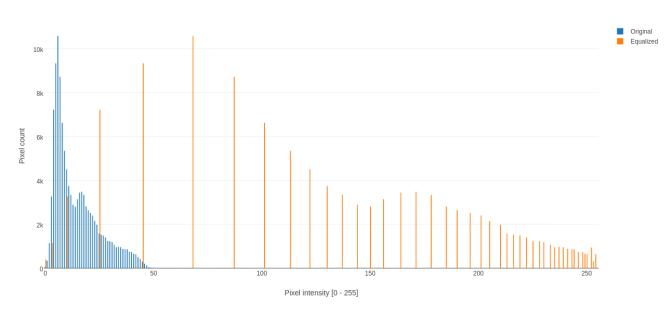


3. Histogram equalization 1



Histogram of original image and histogram equalized image



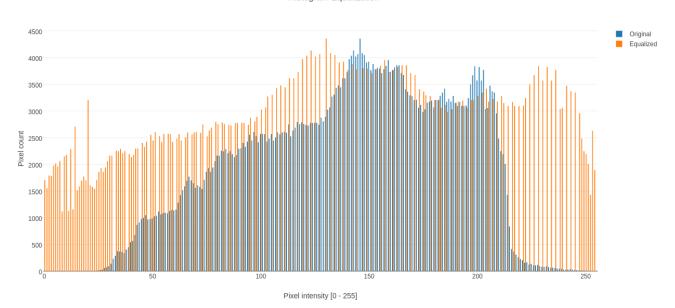


4. Histogram equalization 2



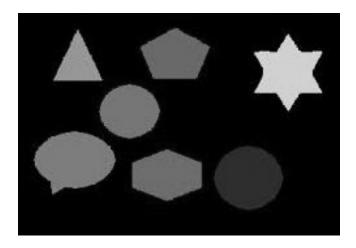
Histogram of original image and histogram equalized image

Histogram Equalization

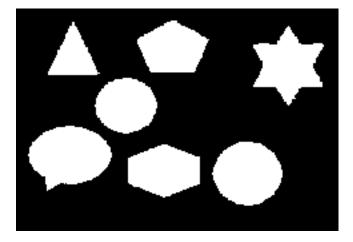


- I. Region detection
- 1. Shapes

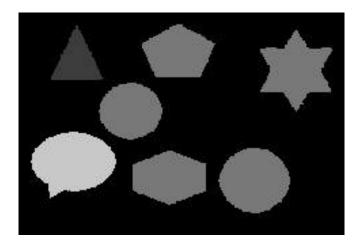
Original Image:



Binary image transformation:



Region coloring by size:



2. Binary image transformation 2

Original Image:



Binary image transformation:



Region coloring by size:

