

# Computer Assignment 1

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## 1.1 Color Conversion

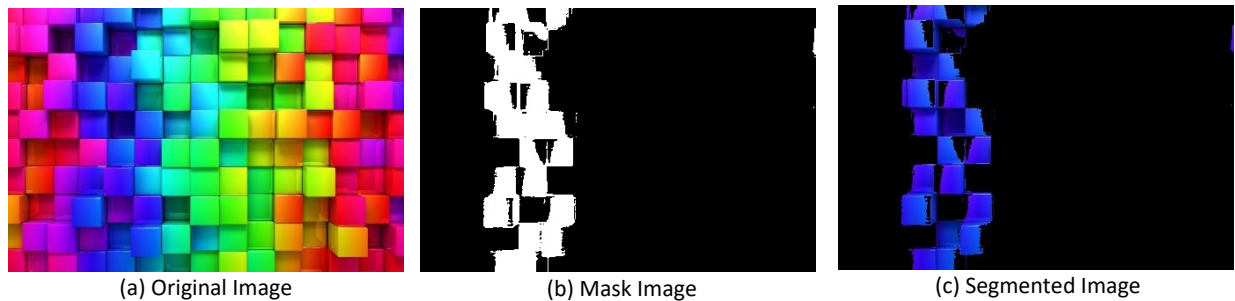


Figure 1: Resulting Figures

The following steps can be used to find threshold for any color [1]:

1. Convert color to HSV format
2. Lower Threshold =  $[H-10, 100, 100]$
3. Upper Threshold =  $[H+10, 100, 100]$

## 1.2 Histogram Operations

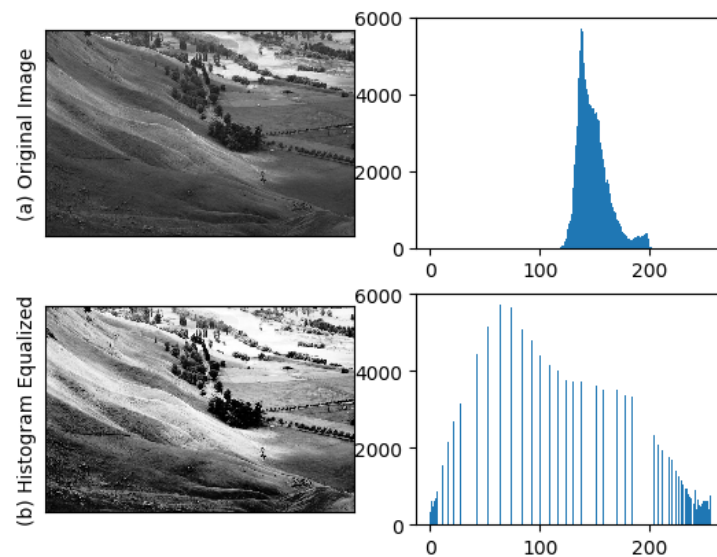


Figure 2: Resulting Figures

Fig. 2 shows the original images and histogram equalization applied to original image and their respective histograms.

## 1.3 References:

- [1] Mordvintsev, Alexander, and Abid K. "Changing Colorspaces." OpenCV-Python Tutorials, 17 Jan. 2014, [opencv-python-tutroals.readthedocs.io/en/latest/py\\_tutorials/py\\_imgproc/py\\_colorspaces/py\\_colorspaces.html#how-to-find-hsv-values-to-track](https://opencv-python-tutroals.readthedocs.io/en/latest/py_tutorials/py_imgproc/py_colorspaces/py_colorspaces.html#how-to-find-hsv-values-to-track).