An implementation of the binary image thresholding algorithm.

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INTRODUCTION

Actually, image thresholding is a simple form of image segmentation. It is a way to create a binary image from a grayscale or full-color image

This is typically done in order to separate "object" or foreground pixels from background pixels to aid in image processing.

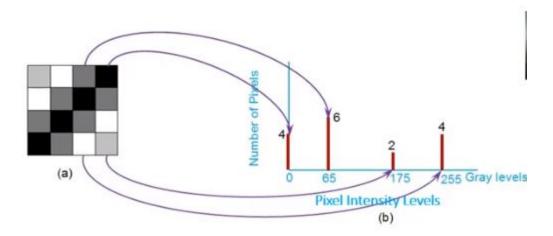
SOFTWARES USED

VS Code: i used VS Code because it is a EduA free IDE for learning and teaching programming with Python

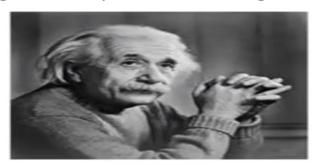
Histogram

- Histogram:- Histogram is a graph of distribution data.
- Image Histogram :- Basically it's a graphical representation of tonal distribution in a digital image.

Data plotted



Perform histogram analysis on this image .

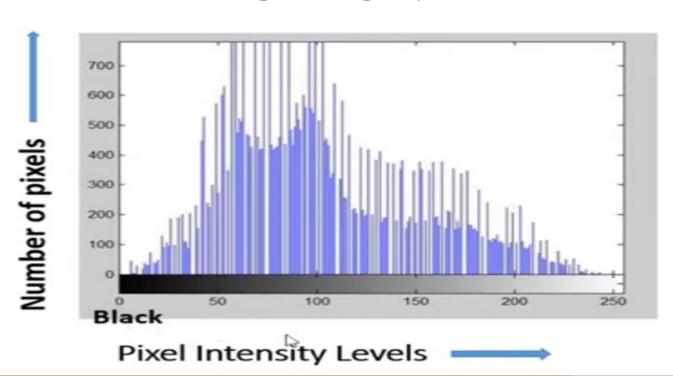


Grey Image

Number of pixel intensities = 256



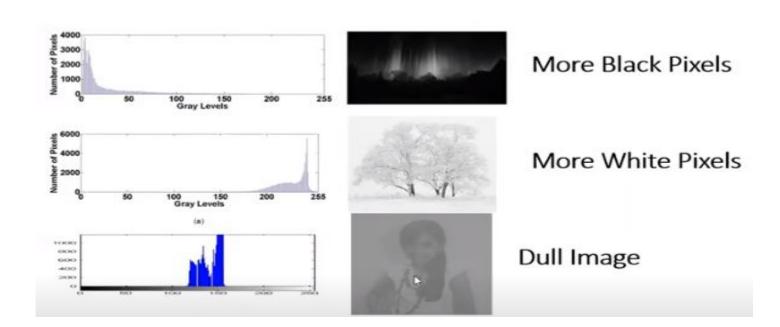
Histogram graph



Thresholding

- Thresholding plays a very important role in segmentation this makes a difference between object & background of image.
- Thresholding can be defined as:-
 - 01. Single level thresholding
 - 02. Multi level thresholding

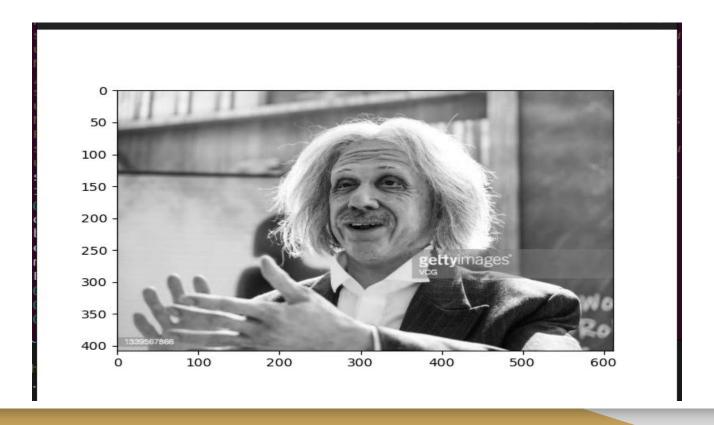
Now different type of images



Let's perform thresholding on below image:-



Show the grayscale image:



Show the thresholding image :-



Source Code:

https://github.com/sakirhussain51/Binary-thresholding/edit/main/README.md

THANK YOU