

Christian R. Garcia

Section One:

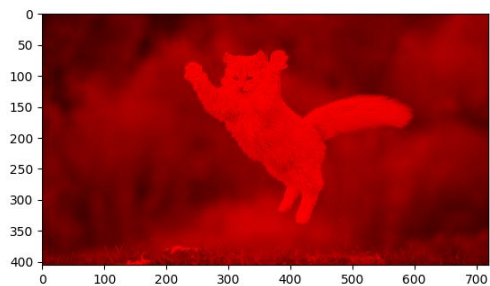
Using split function: 0.000958999999999993

Using indexing: 1.4999999999876223e-05

Indexing is faster than split function

Section Three:

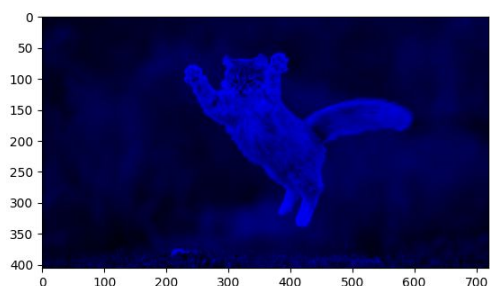
Estimated 415 particles



Red part of Image



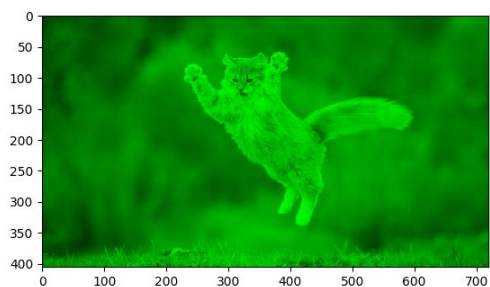
Read RGB Image



Blue part of Image



Directly Read Grayscale



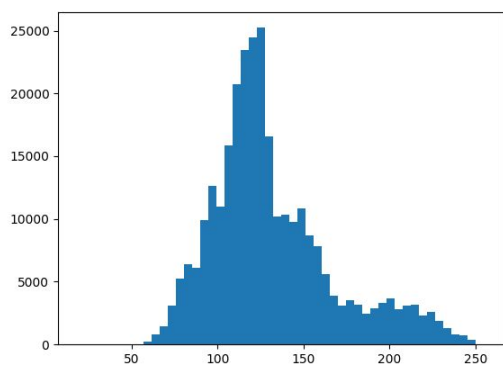
Green part of Image



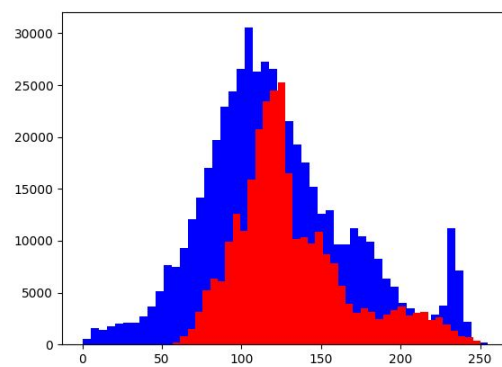
Convert RGB to Grayscale



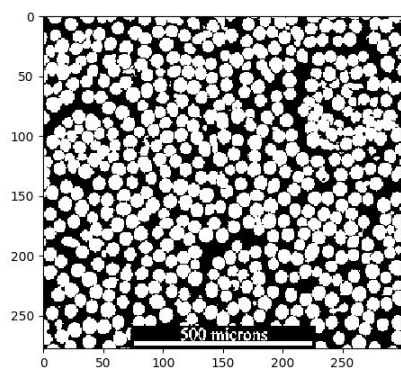
Cut Image



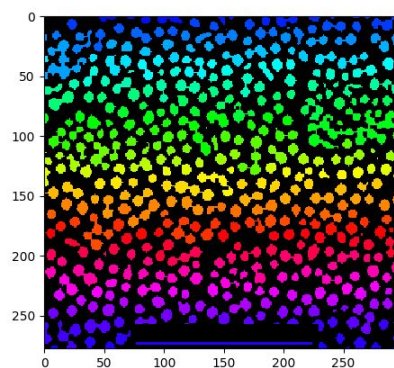
Histogram of grayscale



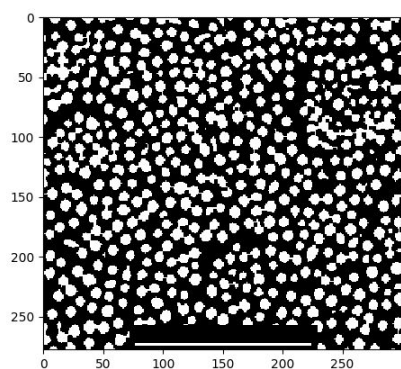
Comparing the histogram of two images



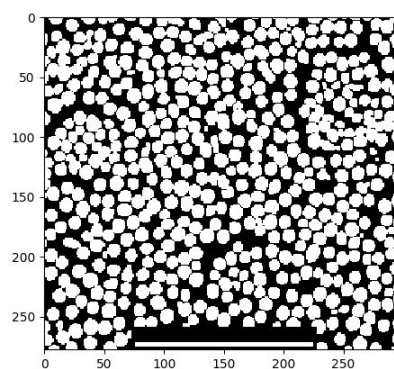
Binary Thresholding



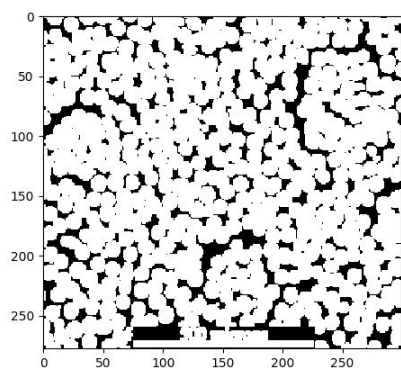
Connected Component Labeling (w/ Hue)



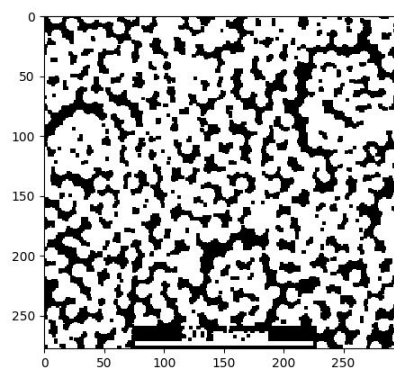
Erosion



Opening



Dilation



Closing