```
i = imread("IMG-20191216-WA0102.jpg");
g = rgb2gray( i );
imshow(g);
```



```
Image = imresize(g,2);
%Original Image and its properties
figure(1)
subplot(1,2,1)
imshow(Image)
title('Original Image');
Histogram = imhist(Image);
figure(1)
subplot(1,2,2)
imhist(Image);
title('Histogram of original image');
%OTSU Method
p = Histogram/sum(Histogram, 'all');
maxsigma = 0;
for T=1:length(p)-1
    P1 = sum(p(1:T)); %Total sum of normalized freq (till T)
    P2 = sum(p(T+1:length(p))); %Total sum of normalized freq (T+1 onwards)
    m1 = sum(reshape([0:T-1],[],1) .* p(1:T), 'all')/P1; %Class1 mean
    m2 = sum(reshape([T:length(p)-1],[],1) .* p(T+1:length(p)), all')/P2; %Class2 mean
    mg = sum(reshape([0:length(p)-1],[],1) .* p(1:length(p)), 'all'); %Global mean
```

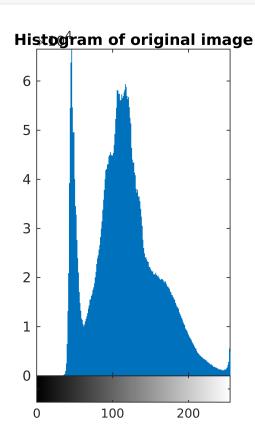
Threshold =

```
disp(Threshold);
```

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```
saveas(figure(1),'Original.jpeg');
```

Original Image



```
saveas(figure(2),'Segmented.jpeg');
```

