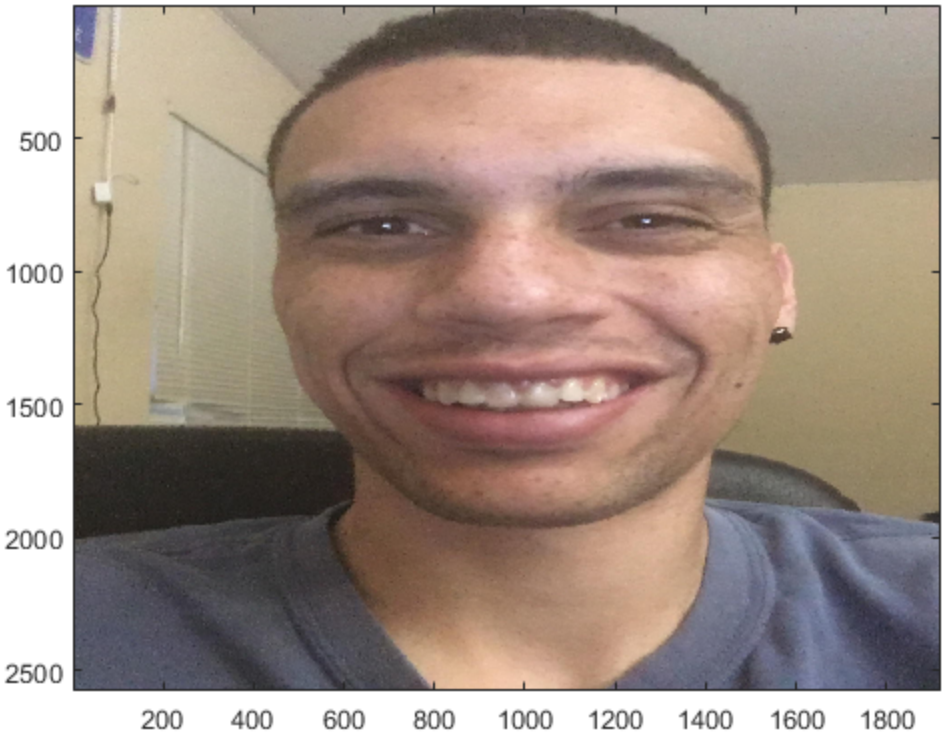
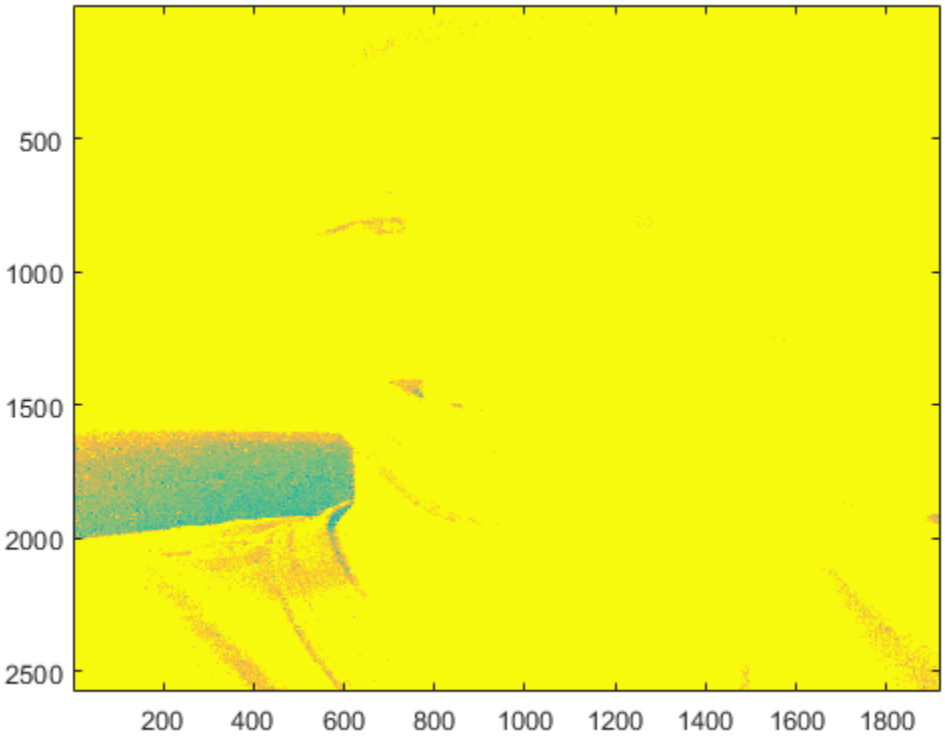
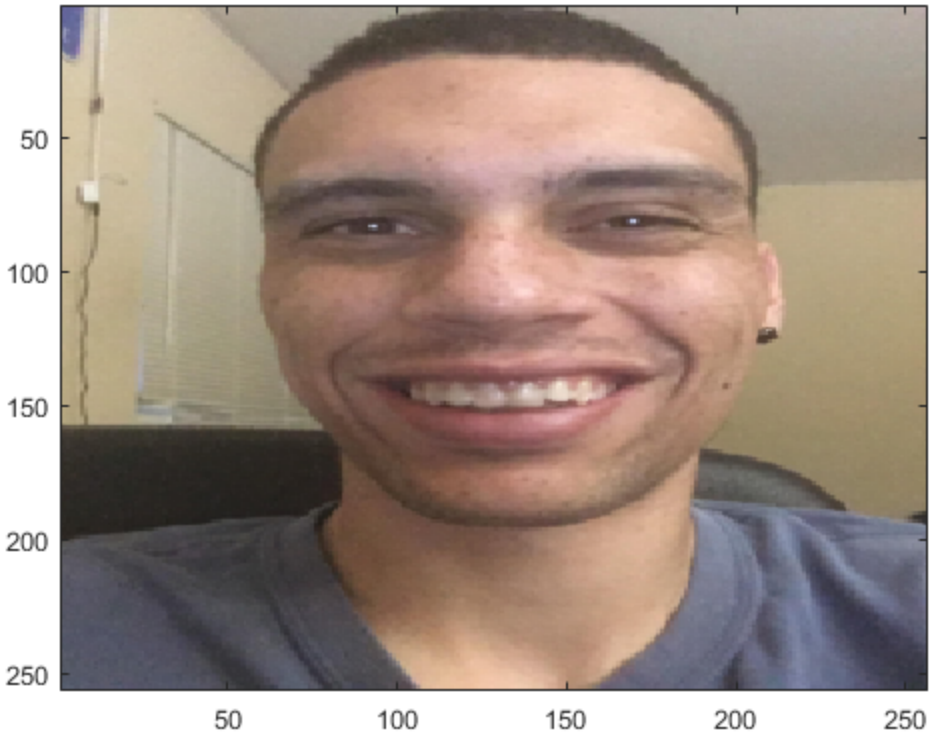
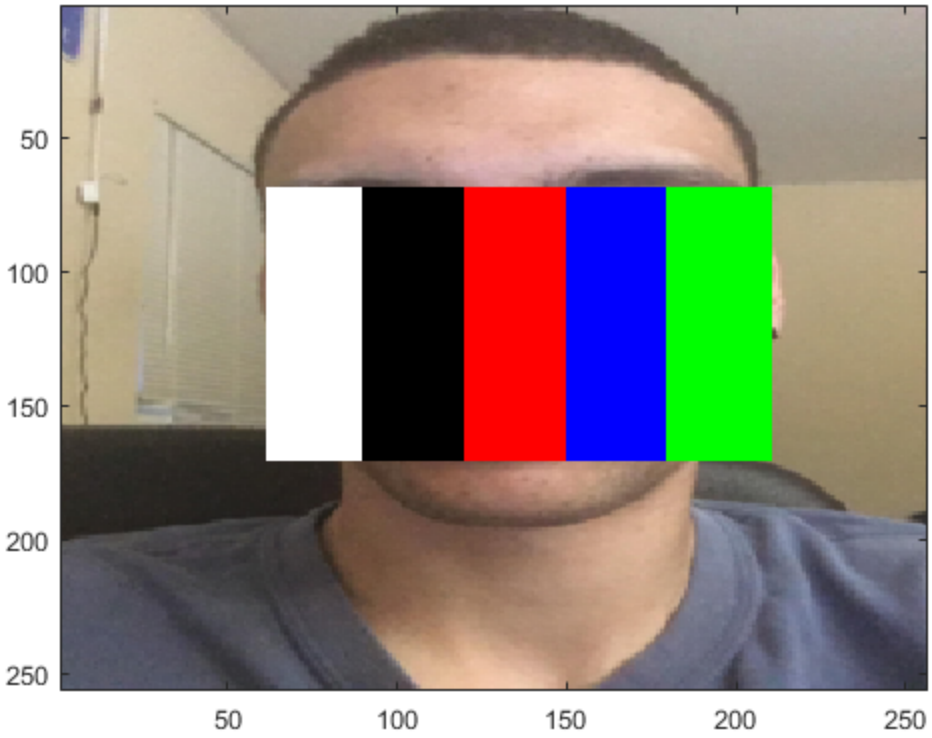
```
A = imread ('Anthony.jpg');
image(A);
figure()
B = rgb2gray(A);
image(B);
figure();
C = imresize(A, [256 256]);
image(C);
figure();
stripe_face = C(67:168,61:200,:);
image(stripe_face);
figure();
copystripe_face = C(:,:,:);
copystripe_face(69:170,62:90,1:3) = 255;
copystripe_face(69:170,90:120,1:3) = 0;
copystripe_face(69:170,120:150,1) = 255;
copystripe_face(69:170,120:150,2) = 0;
copystripe_face(69:170,120:150,3) = 0;
copystripe_face(69:170,150:180,1) = 0;
copystripe_face(69:170,150:180,2) = 0;
copystripe_face(69:170,150:180,3) = 255;
copystripe_face(69:170,180:210,1) = 0;
copystripe_face(69:170,180:210,2) = 255;
copystripe_face(69:170,180:210,3) = 0;
image(copystripe_face);
figure();
D = imresize(stripe_face, [64 64]);
image(D);
figure();
imwrite(C, 'ResizedFull.jpg');
imwrite(D, 'ResizedFace.jpg');
only_red = double(A(:,:,1));
only_green = double(A(:,:,2));
only_blue = double(A(:,:,3));
X = 50;
[count_red, centers_red] = hist(only_red(:), X);
[count_green, centers_green] = hist(only_green(:), X);
[count_blue, centers_blue] = hist(only_blue(:), X);
plot(centers_red, count_red, 'Red', centers_green,
 count_green, 'Green', centers_blue, count_blue, 'Blue');
figure();
subplot(3,1,1), bar(centers_red,count_red,'r');
subplot(3,1,2), bar(centers_green,count_green,'g');
subplot(3,1,3), bar(centers_blue,count_blue,'b');
```

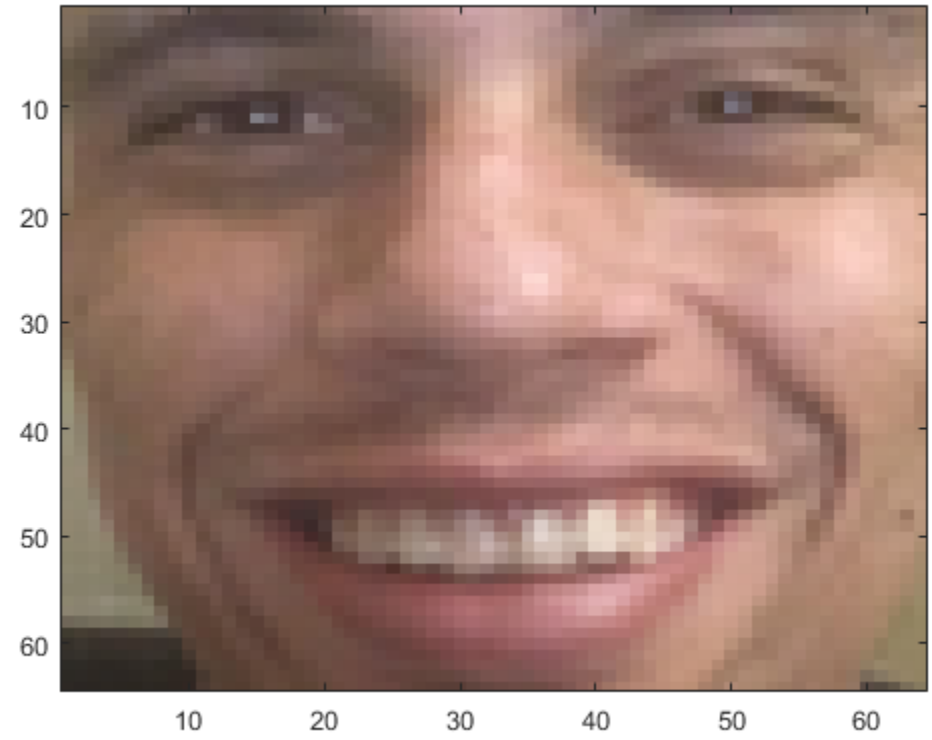

500
1000
1500
2000
2500
200
400
600
800
1000
1200
1400
1600
1800

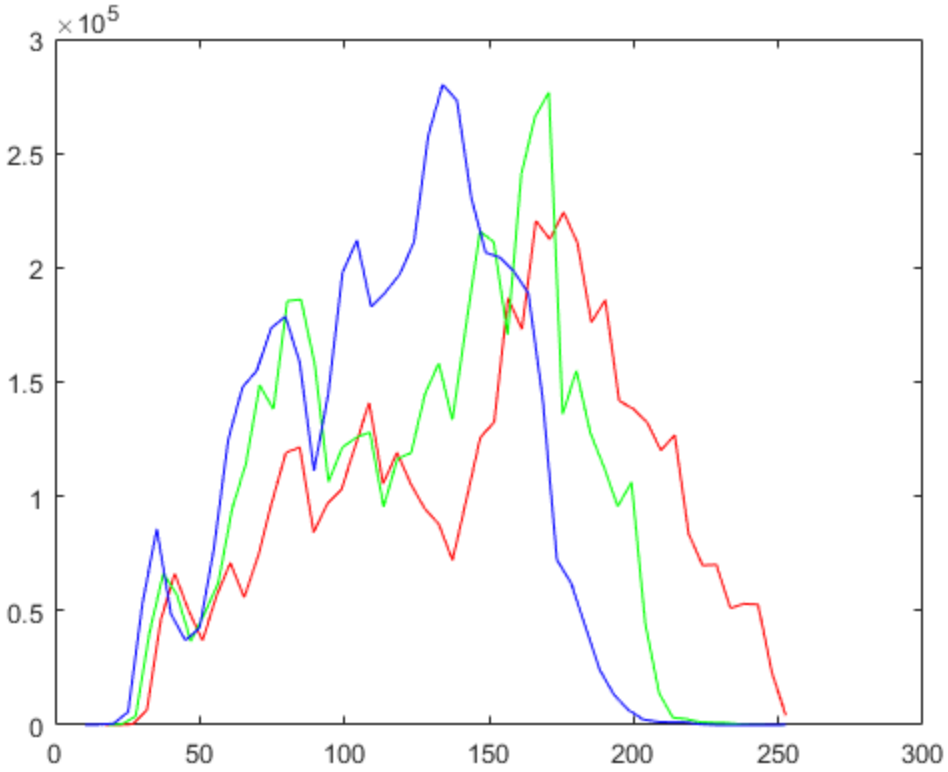

500
1000
1500
2000
2500
200
400
600
800
1000
1200
1400
1600
1800

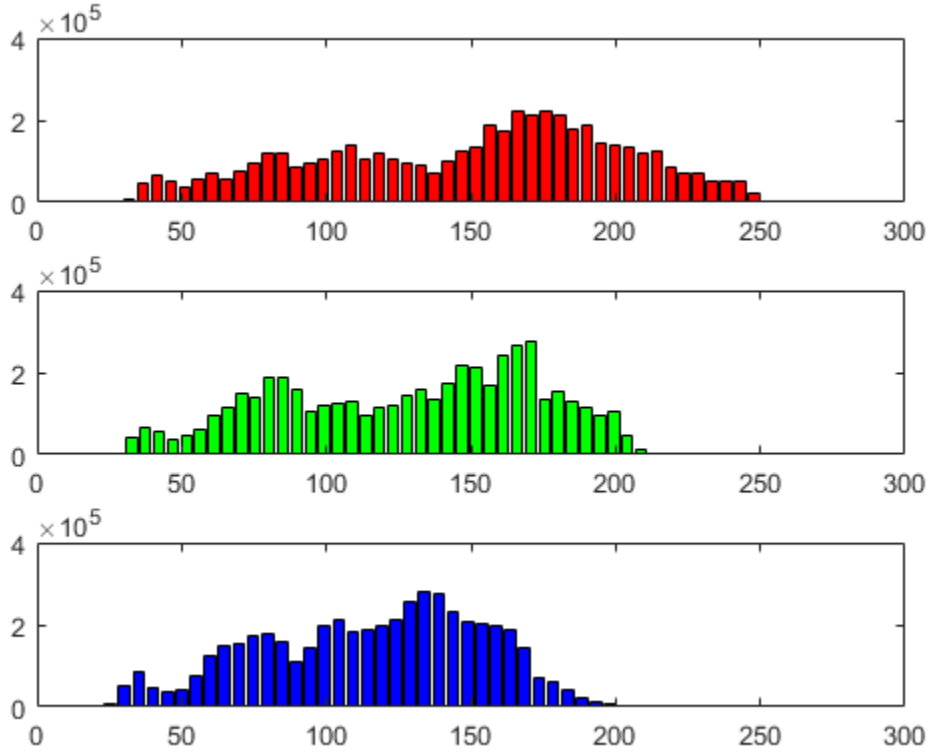

50
100
150
200
250
50
100
150
200
250


10
20
30
40
50
60
70
80
90
100
20
40
60
80
100
120
140


50
100
150
200
250
50
100
150
200
250


10
20
30
40
50
60
10
20
30
40
50
60


×10^5
3
2.5
2
1.5
1
0.5
0
0
50
100
150
200
250
300


×10^5
4
2
0
0
50
100
150
200
250
300
×10^5
4
2
0
0
50
100
150
200
250
300
×10^5
4
2
0
0
50
100
150
200
250
300

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