

EKSPLORASI OCTAVE

Disusun untuk memenuhi syarat nilai mata kuliah Pengelolaan Citra

Oleh :

Irna Restiani (1406068)



SEKOLAH TINGGI TEKNOLOGI GARUT
PROGRAM STUDI TEKNIK INFORMATIKA
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1. Membaca Citra

```
img = imread('C:\Users\USER\Pictures\irna.jpg')
```

```
Command Window
img =

ans(:,:,1) =

Columns 1 through 21:

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```

2. Mengetahui Ukuran Citra

```
img = imread('C:\Users\USER\Pictures\irna.jpg')
```

```
ukuran = size(img)
```

```
jumlahBaris = ukuran(1)
```

```
jumlahKolom = ukuran(2)
```

Output :

```
Command Window
jumlahBaris = 1280
jumlahKolom = 1440
>> irna

ukuran =

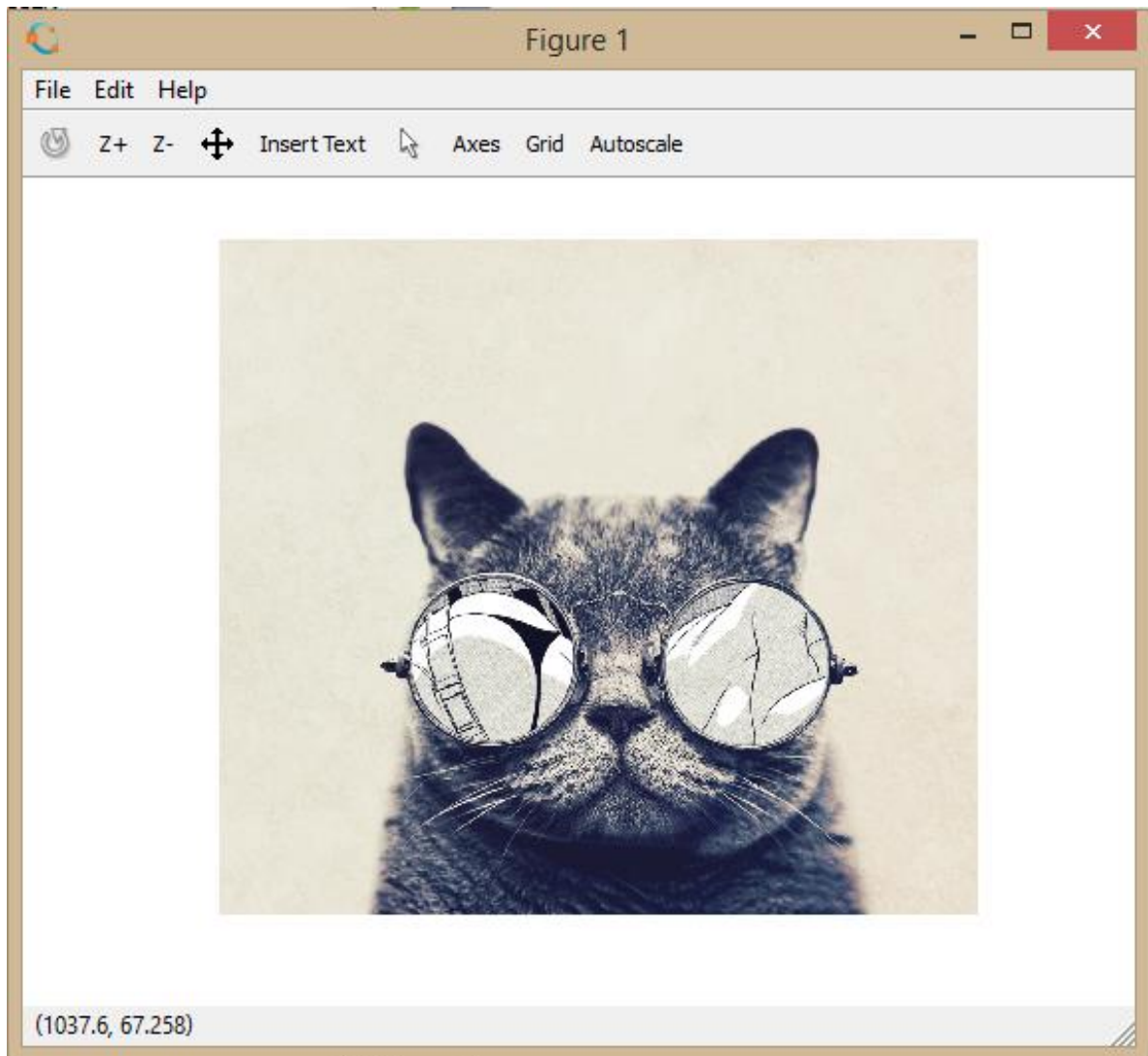
    1280    1440     3
```

3. Menampilkan Citra (1)

```
img = imread('C:\Users\USER\Pictures\irna.jpg')
```

```
imshow(img)
```

Output :



4. Menampilkan Citra (2)

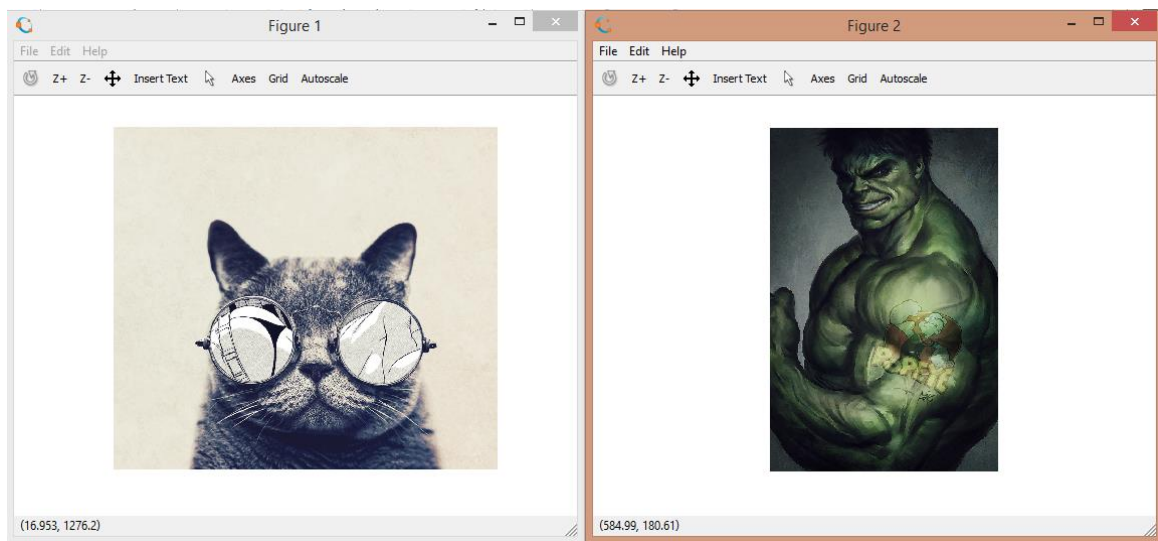
```
img1 = imread('C:\Users\USER\Pictures\irna.jpg')
```

```
img2 = imread('C:\Users\USER\Pictures\irna2.jpg')
```

```
figure(1);imshow(img1);
```

```
figure(2);imshow(img2);
```

Output :



5. Menampilkan Citra (3)

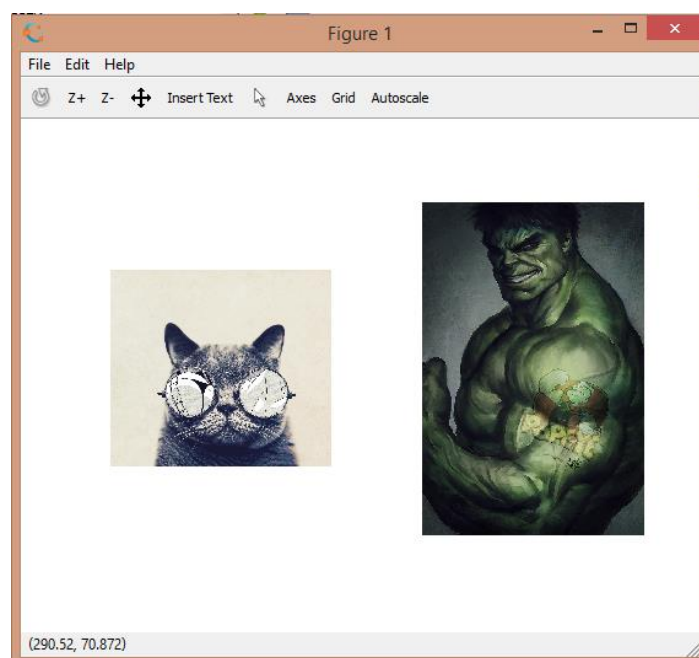
```
img1 = imread('C:\Users\USER\Pictures\irna.jpg')
```

```
img2 = imread('C:\Users\USER\Pictures\irna2.jpg')
```

```
subplot(1,2,1);imshow(img1);
```

```
subplot(1,2,2);imshow(img2);
```

Output :



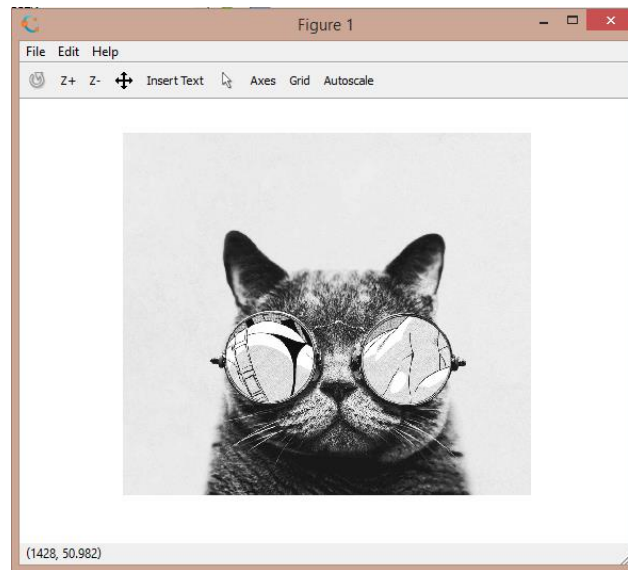
6. Menampilkan Gambar dengan Intensitas Keabuan

```
img1 = imread('C:\Users\USER\Pictures\irna.jpg')
```

```
R = img1(:,:,1);
```

```
figure(1); imshow(R);
```

Output :



7. Menampilkan Histogram

```
img1 = imread('C:\Users\USER\Pictures\irna.jpg')
```

```
Ukuran = size(img1);
```

```
jum_baris = Ukuran(1);
```

```
jum_kolom = Ukuran(2);
```

```
Histog = zeros(256,1);
```

```
for baris=1:jum_baris
```

```
    for kolom=1:jum_kolom
```

```
        Histog(img1(baris,kolom)+1) = Histog(img1(baris,kolom)+1)+1;
```

```
    end
```

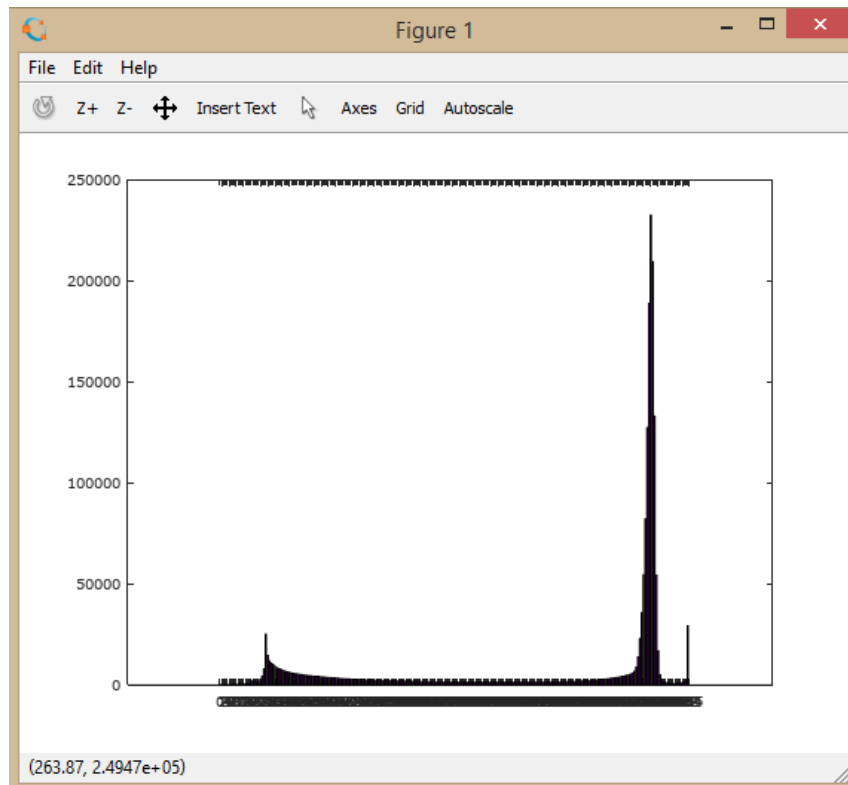
end

%Tampilan dalam diagram batang

Horis = (0:255);

bar(Horis,Histog);

Output :



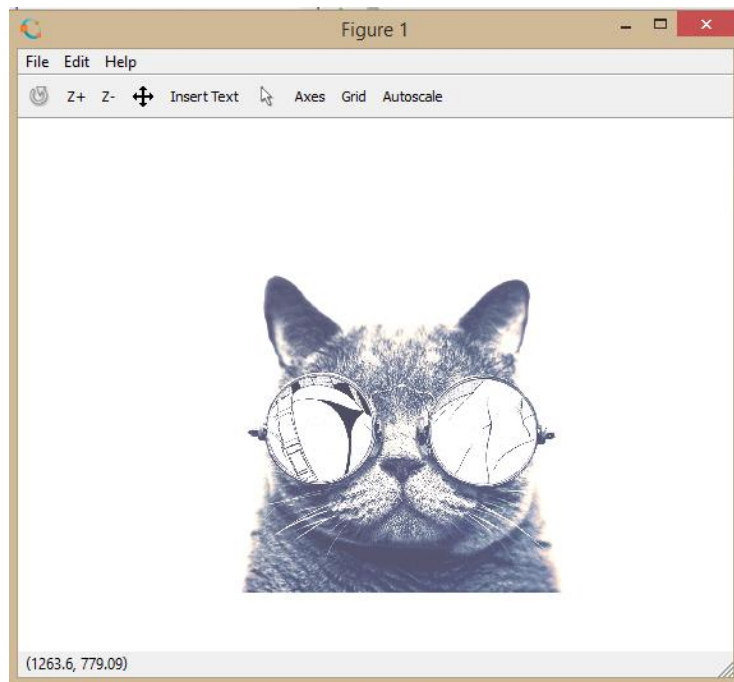
8. Meningkatkan Kecerahan

img1 = imread('C:\Users\USER\Pictures\irna.jpg')

C = img1+60;

imshow(C);

Output :



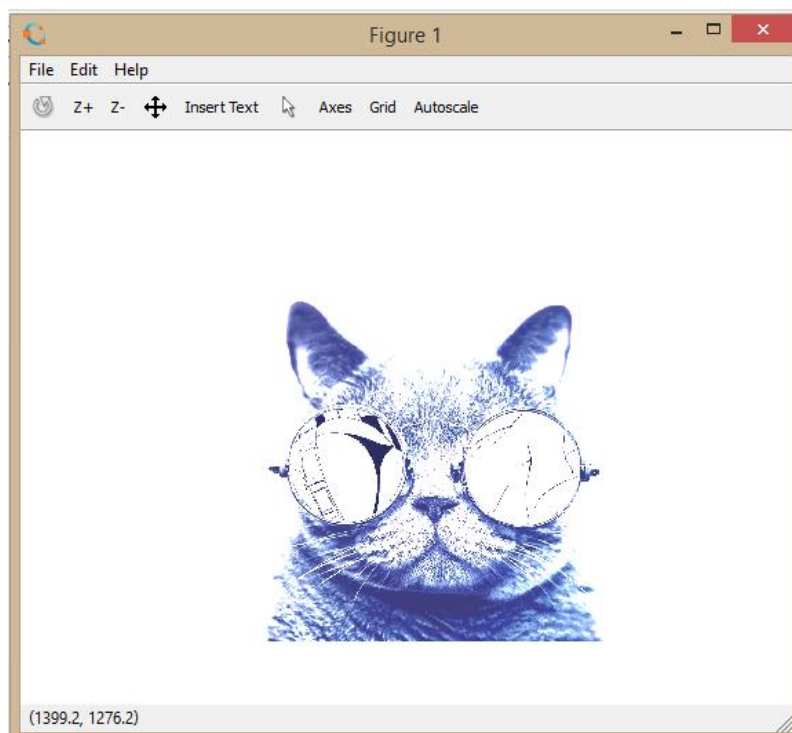
9. Meregangkan Kontras

```
img1 = imread('C:\Users\USER\Pictures\irna.jpg')
```

```
K = img1*2.5;
```

```
imshow(K);
```

Output :



10. Kombinasi Kecerahan dan Kontras

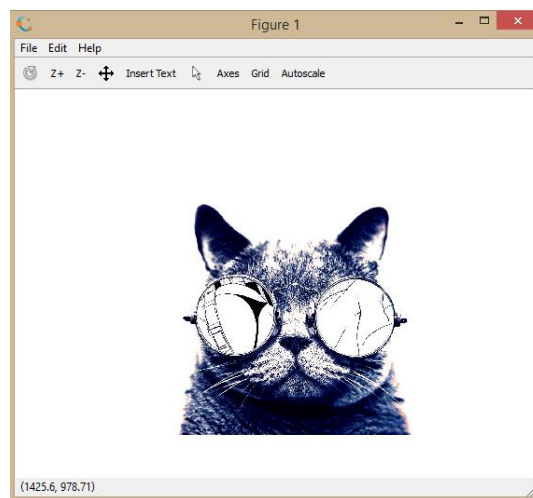
```
img1 = imread('C:\Users\USER\Pictures\irna.jpg')
```

```
C = img1-45;
```

```
K = C*2;
```

```
imshow(K);
```

Output :



11. Membalikkan Citra

```
img1 = imread('C:\Users\USER\Pictures\irna.jpg')
```

```
neg = 255-img1;
```

```
imshow(neg);
```

Output :

