

```

clear all

X = imread( 'lenna256.jpg' ); % Unsigned 8-bit integer for storage
XX = double( X ); % double precision variable for floating point operations
whos

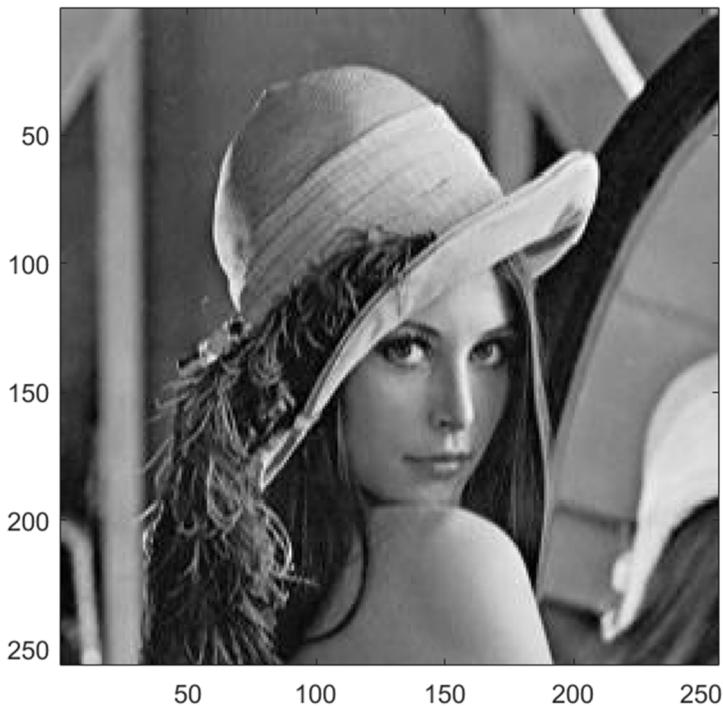
```

Name	Size	Bytes	Class	Attributes
X	256x256	65536	uint8	
XX	256x256	524288	double	

```

mn = min( min( XX ) )
mn = 0
mx = max( max( XX ) )
mx = 239
sz = size(XX)
sz = 1x2
256 256
entry = XX(100,150)
entry = 173
XM = X + 1.22;
XXM = XX + 1.22;
test1 = min( min( XM ) )
test1 = uint8
1
test2 = min( min( XXM ) )
test2 = 1.2200
imagesc( XX )
colormap( gray ( 256 ) )
axis image

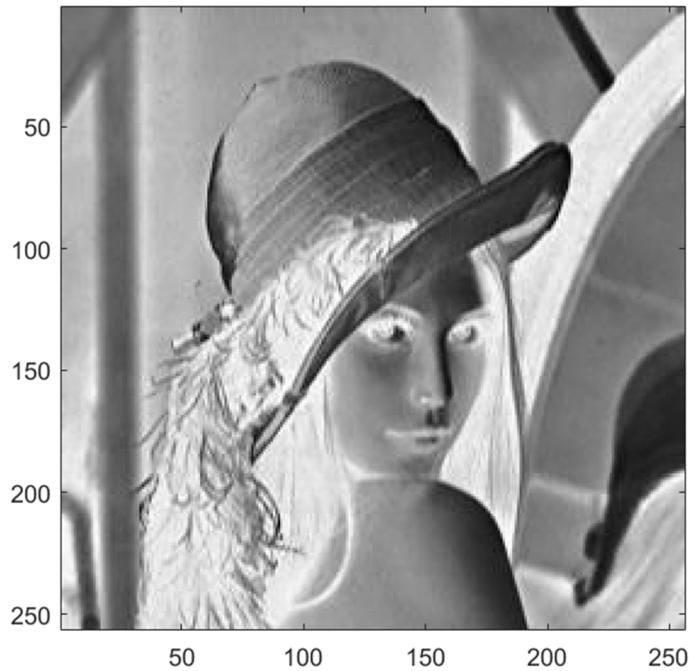
```



```

Y = max( max( XX ) ) - XX;
imagesc( Y )
colormap( gray ( 256 ) )
axis image

```



```
save lenna256neg.mat Y
clear all
whos % No variables in workspace
load lenna256neg.mat % Create variable Y
whos
```

Name	Size	Bytes	Class	Attributes
Y	256x256	524288	double	

```
imwrite(Y,gray(256),'lenna256neg.bmp','bmp')
dir *.bmp
lenna256neg.bmp
imshow('lenna256neg.bmp')
colormap( gray ( 256 ) )
```



```
Z = imcomplement( Y ); % In image processing toolbox  
imagesc( Z )  
axis image
```

