
Table of Contents

.....	1
.....	1
INITIALIZATION	1
.....	1
CALCULATIONS	1
.....	2
OUTPUTS	2
.....	3
ACADEMIC INTEGRITY STATEMENT	3

```
%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
% ENGR 133
% Program Description: Convert image to grayscale & invert it
%
% Assignment Information
%   Assignment:      Ma4 Task5
%   Team ID:        LC1-04
%   Contributor:     Roshan Sundar
%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
```

INITIALIZATION

```
orig_img = imread('block.png');
```

CALCULATIONS

```
%Calculate grayscale
redVals = orig_img(:,:,1);
greenVals = orig_img(:,:,2);
blueVals = orig_img(:,:,3);

gray_img = 0.2126*double(redVals) + 0.7152*double(greenVals) +
    0.0722*double(blueVals);
gray_img = uint8(gray_img);

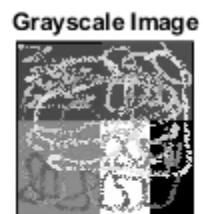
invert_img = 255 - gray_img;
invert_img = uint8(invert_img);
```

OUTPUTS

```
figure(1)
imshow(orig_img)
title('Original Image')

figure(2)
imshow(gray_img)
title('Grayscale Image')

figure(3)
imshow(invert_img)
title('Inverted Image')
```



ACADEMIC INTEGRITY STATEMENT

I have not used source code obtained from any other unauthorized source, either modified or unmodified. Neither have I provided access to my code to another. The project I am submitting is my own original work.

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