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%Fundamental Oeperation for Image Processing in MATLAB
%Date: 14/01/2026
clc;
clear all;
close all;
%Basic Operations that clear the command window and closes the figure
>window

B= randi([0,255],8,8);
display(B);
%to create a 8*8 matrix with random numbers ranging between 0 and 255

I=imread("image.jpg");
figure
imshow(I);
%Uploading the basic input image

figure %for opening seperate window for each image
Ig=rgb2gray(I); %keyword to convert image to grayscale
imshow(Ig);
%grayscale image shown

I_red=imread("image.jpg");
I_red(:,:,2)=0; %making the pixels of green channel zero
I_red(:,:,3)=0; %making the pixels of blue channel zero
figure
imshow(I_red);
%the image is converted to red channel only
%to make it blue or green set the other two respective colour pixels to
%zero

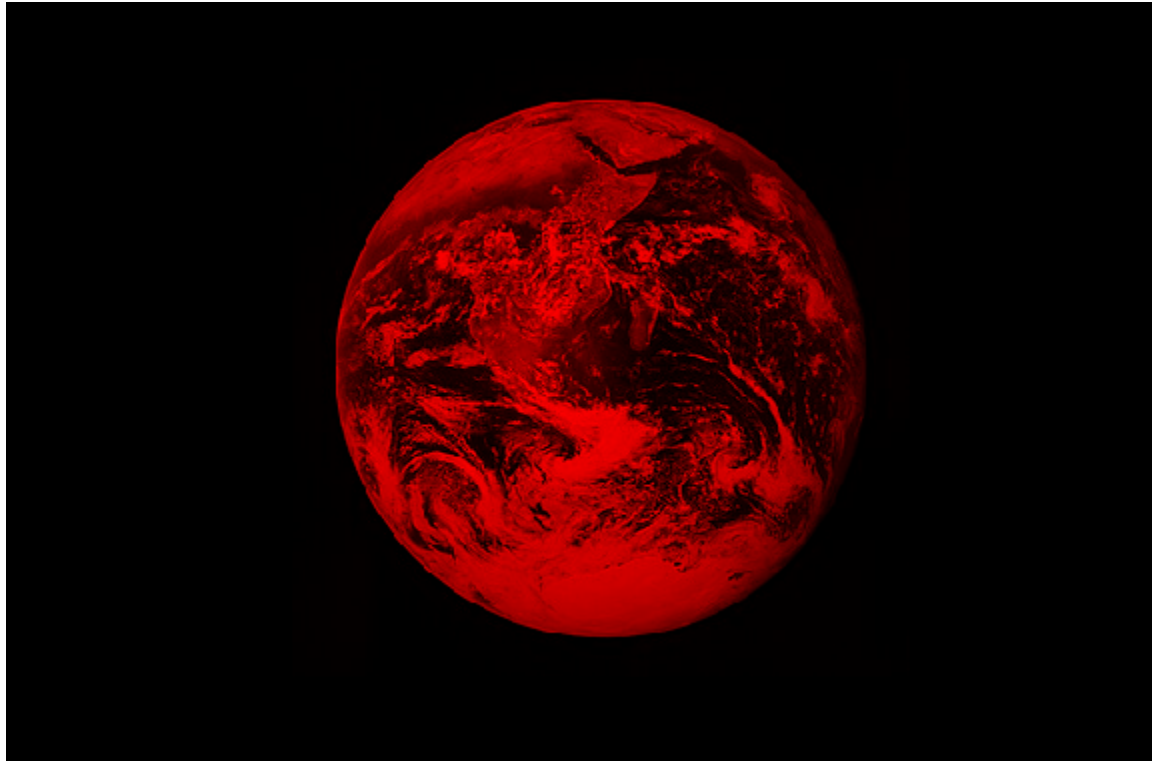
Ib=Ig>100;
figure
imshow(Ib);
%the above logical expression sets the value of pixels above 100 to 1 and
%below that to 0 to convert the image to black and white.

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B =

228	208	90	97	145	42	58	27
245	62	212	145	120	154	233	246
140	237	149	19	3	67	39	1
35	89	140	13	86	167	211	198
38	50	234	135	41	176	137	209
65	64	73	199	203	191	255	222
215	157	193	239	79	115	20	21
65	121	192	33	135	21	113	102





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