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% Pankaj Kumar (BT22ECI060)
% Basic Introduction to Image processing ---> Read an Image , RGB channels
% RGB to Grayscale image ,
clc;
clear all;
close all;
% Reading the data in a variable
colorimg=imread("/MATLAB Drive/rgb_to_grayscale/car.jpeg");
imshow(colorimg); %print the image

% Printing out different channels in an Color image (R , G , B)
% just using a variable to store the image and putting values of channels
% to 0 one by one

%img_color(:,:,2)=0;
%img_color(:,:,3)=0;
%Img_R=img_color;
%subplot(2,2,1)
%imshow(Img_R);

%img_color_2=colorimg;
%img_color_2(:,:,1)=0;
%img_color_2(:,:,3)=0;
%Img_G=img_color_2;
%subplot(2,2,2)
%imshow(Img_G);

%img_color_3=colorimg;
%img_color_3(:,:,1)=0;
%img_color_3(:,:,2)=0;
%Img_B=img_color_3;
%subplot(2,2,3)
%imshow(Img_B);

% Conveting an color image into an grayscale image by Using the inbuild
% function rgb2gray

grayImage=rgb2gray(colorimg);
montage({grayImage,colorimg}); % Showing the images side by side
saveas(gcf, 'rgb_to_grayscale_output.png'); % Save the current figure
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