

AREA CALCULATION: DONT MEASURE 04

Welcome again as you have seen that we constructed an image from given RGB values now we will do the other way around suppose we are given an image and we need to find the RGB values of the dominant colours here so how can we do it? Well that is fairly easy so here will be taking our previous image only our test one dot png images png image in which we had orange colour at the left hand side and blue colour at the right hand side so i will just write the code in python on how to calculate the RGB values of a given image. So let us start with that. So first of all you need to import the image library so i will just do that from pil import image from pil import image after that what i will do here is i will open my image so i will just have im is equal to image dot open our image name is test one dot png so i will just write test one dot png after that i will convert my image to RGB so how can you do that? You just convert you just write some variable here suppose i wrote RGB underscore im is equal to im dot convert so this will convert my im image to RGB values to matrix here so this is done now i need to calculate the particular RGB values so i will just write r comma g comma b is equal to RGB underscore im dot get pixel so get pixel is basically a function as i already explained that each cell in the matrix of an image represent a pixel and each pixel represented by a colour so they get pixel here only fetch the correct RGB values from the particular image they get pixel function will fetch the RGB values from the matrix of a given image so the given image here is test one dot png we already know the RGB values so let us check that whether it is right or not so i will just print the RGB values here i will write print r comma g comma b so let us try to run this. Yes! It is giving us the right values we had two fifty five, one twenty eight zero as the orange colour and zero zero two fifty five as the blue colour so here we have the correct RGB values of the orange colour we have two fifty five, one twenty eight and zero now if i change the x and y coordinates here we can also get the blue colour so i will just write till hundred it was orange colour after that it was blue colour. So i will just write one fifty here so that we can get to know whether it is giving the correct RGB values of blue colour also so i will just run it again yes it is giving us the correct RGB values of blue colour too so we have zero zero and two fifty five here so i will explain oyu again what i have done so far first of all we import image library from pil package after that we need to open that particular image so i will just wrote the function image dot open and in argument you need to pass the you need to pass the image name so we pass test one dot png after that you need to convert your image to RGB values to RGB matrix so you need to write im that is the variable name im dot convert and in bracket you need to pass RGB after that you need to print the particular RGB values so i stored these values in this three variables r for red, g for green and b for blue so i just wrote RGB is equal to RGB underscore im that is the converted image dot get pixel. The pixel is basically colour here so it would comprise of particular attributes that is RGB so after that you need to pass the x and y values here the x and y values would fetch a particular pixel and print its RGB value so then i wrote print RGB so as to check whether it is giving us the right Value or not so in this way in python you can find the RGB value of a image. This is the way which you can do by implementing in python with while there is an easy way too, there are many websites that are present on the internet in which you just have to upload your image and they will just give you the RGB value of the dominant colour present in your image. I will just show you one of the websites in fact there

are many you can refer many so i will just show you one as an example here. So as you see i have uploaded an images our images test one dot png and on the left hand side we have orange on right hand side we have blue so if i need to know the RGB values of the particular colour i will just over my mouse here on that particular colour and i get the particular RGB value these are basically called colour pickers so we have on orange we have the RGB values as two fifty five, one twenty eight, zero as we discussed earlier and on the blue one we have zero, zero two fifty five yes our program is giving us the same output as this so if you don't want the pythonic way of calculating the RGB values of the image you can go by this method too but i will suggest you to write a code for this and then you will get to know what are the RGB values so i hope that this method is clear to you, clear to all of you we will be implementing this method we will be using this method in our forth coming programming screen cast relate to area calculation so if you have any doubts please please please post on discussion form. Thank you.