import cv2

import numpy as np

import pandas as pd

img\_path = 'buildimage.jpg'

img = cv2.imread(img\_path)

img=cv2.resize(img,(700,500))

clicked = False

r = g = b = xpos = ypos = 0

index=["color","color\_name","hex","R","G","B"]

csv = pd.read\_csv('colors.csv', names=index, header=None)

def getColorName(R,G,B):

minimum = 10000

for i in range(len(csv)):

d = abs(R- int(csv.loc[i,"R"])) + abs(G- int(csv.loc[i,"G"]))+ abs(B- int(csv.loc[i,"B"]))

if(d<=minimum):

minimum = d

cname = csv.loc[i,"color\_name"]

return cname

def draw\_function(event, x,y,flags,param):

if event == cv2.EVENT\_LBUTTONDBLCLK:

global b,g,r,xpos,ypos, clicked

clicked = True

xpos = x

ypos = y

b,g,r = img[y,x]

b = int(b)

g = int(g)

r = int(r)

cv2.namedWindow('color detection by programming\_fever')

cv2.setMouseCallback('color detection by programming\_fever',draw\_function)

while(1):

cv2.imshow("color detection by programming\_fever",img)

if (clicked):

cv2.rectangle(img,(20,20), (750,60), (b,g,r), -1)

text = getColorName(r,g,b) + ' R='+ str(r) + ' G='+ str(g) + ' B='+ str(b)

cv2.putText(img, text,(50,50),2,0.8,(255,255,255),2,cv2.LINE\_AA)

if(r+g+b>=600):

cv2.putText(img, text,(50,50),2,0.8,(0,0,0),2,cv2.LINE\_AA)

clicked=False

if cv2.waitKey(20) & 0xFF ==27:

break

cv2.destroyAllWindows()