
Methods and Techniques Used

- We first read the image file we want by using the Pandas python package.
- We use a callback function which is called when the user uses their mouse on the image displayed by the window.
- We use `mouse_coord()` which calculates the values of the rgb of pixel where the mouse was clicked on and we initialize these values. In this function we check the coordinates of the mouse in terms of (x,y) and calculate the corresponding rgb values from the function.
- We use another function `calc_color()` to obtain the name of the colour we clicked on the screen. This is achieved by calculating the distance of the rgb values we clicked and the actual rgb values in our data file. They are then summed up and we chose the value which is least distant from the actual value and return the color name.
- A window emerges after running the code which displays the picture. The user can then click on any part of the image and the corresponding color is displayed.