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from skimage.io import imread, imsave
from skimage import img as float
from numpy import roll, dstack
def settings(img):
   global h, w, error
   img f = img as float(img)
  h = int(img f.shape[0]/3)
   w = img f.shape[1]
   error = int(0.05*h)
   rgb(img f)
def rgb(img):
  blue = img[error:h-error, error:w-error]
   green = img[h+error:2*h-error, error:w-error]
   red = img[2*h+error:3*h-error, error:w-error]
   overlap(blue, green, red)
def overlap(blue, green, red):
   cor = 0
   for i in range (-20, 20):
       blue i = roll(blue, i, 0)
       for j in range (-30, 30):
          blue j = roll(blue i, j, 1)
           c_blue = (blue_j*green).sum()
           if (c blue > cor):
               cor = c_blue
               by = j
               bx = i
   cor = 0
   for i in range (-20, 20):
       red i = roll(red, i, 0)
       for j in range (-20, 20):
           red_j = roll(red_i, j, 1)
           c_red = (red_j * green).sum()
           if(c red > cor):
               cor = c red
               ay = j
               ax = i
   blue = roll(blue, bx, 0)
  blue = roll(blue, by, 1)
   red = roll(red, ax, 0)
   red = roll(red, ay, 1)
   result = dstack((red, green, blue))
```

```
imsave('img/' + str(val) +'_colored.jpg', result)
img_1 = imread("img/door.jpg")
img_2 = imread("img/family.jpg")
img_3 = imread("img/table.jpg")
h = 0
w = 0
error = 0
val = 1
imgs = [img_1, img_2, img_3]
for img in imgs:
    settings(img)
    val += 1
```











