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1 import numpy as np
2 from PIL import Image
3 im = Image.open("IMAGE HERE")
4 rgb_im = im.convert('RGB')
5 zero = "0"
6 width, height = im.size
7 def color(x):
8     if len(str(x)) == 1:
9         x_2 = zero + zero + str(x)
10        return str(x_2)
11    elif len(str(x)) == 2:
12        x_3 = zero + str(x)
13        return str(x_3)
14    else:
15        return x
16 def total(d,y,z):
17     total_1 = str(d) + str(y) + str(z)
18     return total_1
19 set1 = []
20 array = []
21 for original in range(1, int(height)*int(width) +1):
22     in_array = []
23     for values in range(int(height)*int(width), 0, -1):
24         in_array.append(original ** (values - 1))
25     array.append(in_array)
26 for y in range(0, int(height)):
27     for x in range (0, int(width)):
28         r, g, b = rgb_im.getpixel((x, y))
29         print(r,g,b)
30         initial = total(color(r), str(color(g)), str(color(b)))
31         set1.append(float(initial))
32 sol = np.linalg.solve(array, set1)
33 for x,y in zip(range(int(height) * int(width) -1, -1, -1),
34               range(0, int(height) * int(width))):
35     print(sol[y], "x**", x)

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