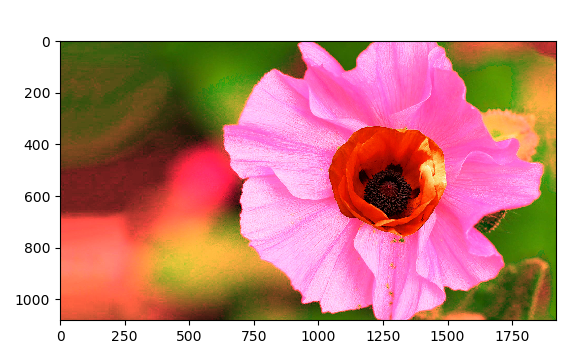


Original

Intermediate

Modified

Code

import PIL

import matplotlib.pyplot as plt

import os.path

from PIL import Image, ImageFilter

im = Image.open("C:\users\pngo\desktop\lowers.jpg")

# split the image into individual bands

source = im.split()

R, G, B = 0, 1, 2

# select regions where red is less than 100

mask = source[B].point(lambda i: i > 10 and 255)

# process the green band

out = source[B].point(lambda i: i \* 4)

# paste the processed band back, but only where red was < 100

source[R].paste(out, None, mask)

# build a new multiband image

im = Image.merge(im.mode, source)

im.save("trial.jpg")

# Open the files in the same directory as the Python script

directory = os.path.dirname(os.path.abspath(\_\_file\_\_))

#student\_file = os.path.join(directory, 'lowers.jpg')

student\_file = os.path.join(directory, 'trial.jpg')

# Open and show the student image in a new Figure window

student\_img = PIL.Image.open(student\_file)

# Open, resize, and display the oriental poppy

poppy\_file = os.path.join(directory, 'oriental\_trans.png')

poppy\_img = PIL.Image.open(poppy\_file)

poppy\_small = poppy\_img.resize((470, 440)) #eye width and height measured in plt

# Paste poppy into center of flower and display

# Uses alpha from mask

student\_img.paste(poppy\_small, (1034, 325), mask=poppy\_small)

# Display

fig3, axes3 = plt.subplots(1, 1)

axes3.imshow(student\_img, interpolation='none')

fig3.show()