Negative Image2

December 12, 2019

1 Homework 0

[1]:
```
from PIL import Image, ImageFilter
import os, os.path
import glob
from copy import deepcopy
import numpy as np
```

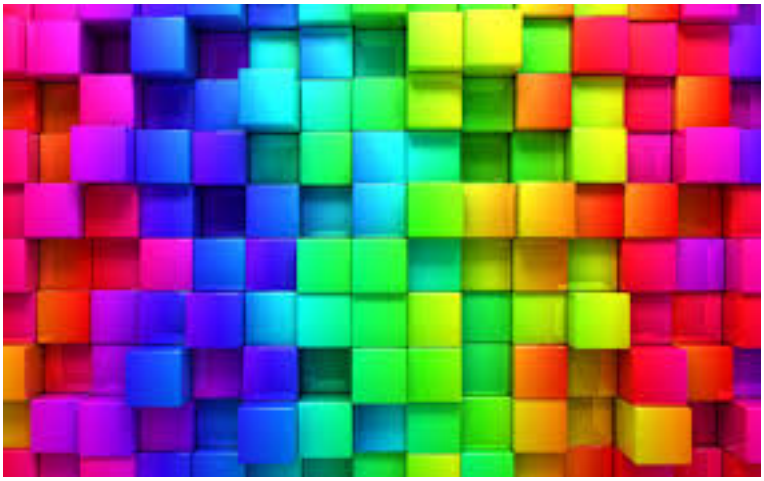
[2]:
```
ima = []
for filename in glob.glob('images/*.jpg'): #assuming gif
    im=Image.open(filename)
    ima.append(im)
```

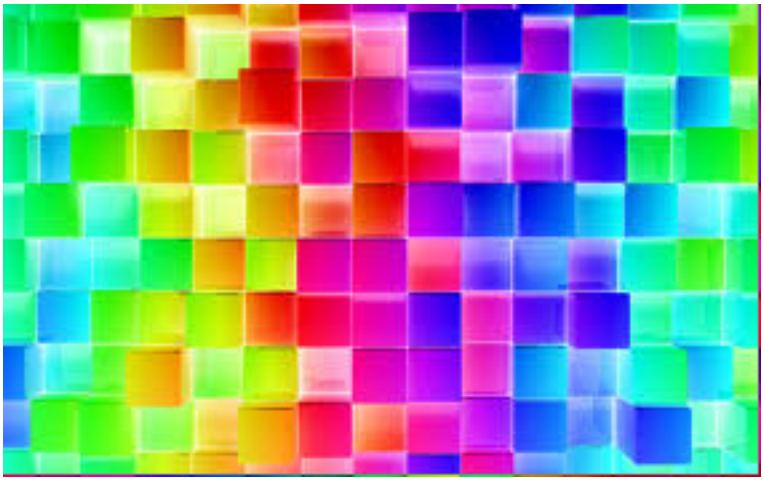
[3]:
```
def negImageRGB(myImage):
    Image = deepcopy(myImage)
    for k in range(len(Image)):
        for i in range(0, Image[k].size[0]-1):
            for j in range(0,Image[k].size[1]-1):
                pixVal = Image[k].getpixel((i,j))

                r = 255 - pixVal[0]
                g = 255 - pixVal[1]
                b = 255 - pixVal[2]
                Image[k].putpixel((i,j),(r,g,b))
    return Image
```

[4]:
```
negIms = negImageRGB(ima)
```

[5]:
```
for i in range(len(ima)):
    display(ima[i])
    display(negIms[i])
```



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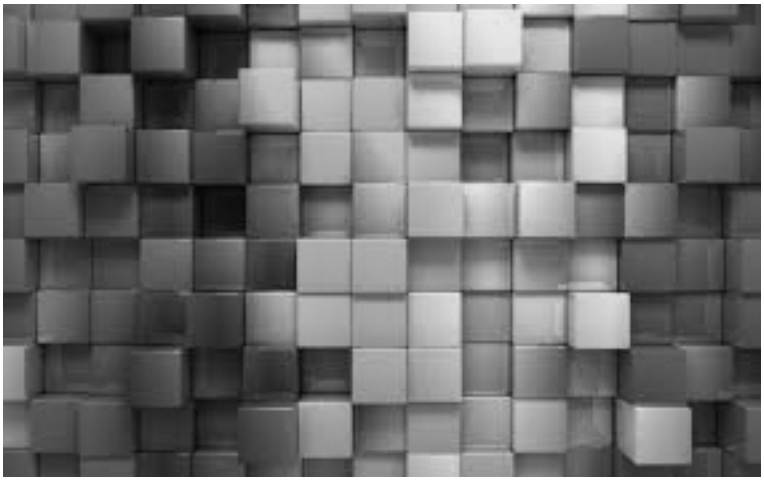
[6]:
```
def negImageBW(myImage):
    Image = deepcopy(myImage)
    for k in range(len(Image)):
        for i in range(0, Image[k].size[0]-1):
            for j in range(0,Image[k].size[1]-1):
                pixVal = Image[k].getpixel((i,j))
                p = 255 - pixVal
                Image[k].putpixel((i,j),p)
    return Image
```

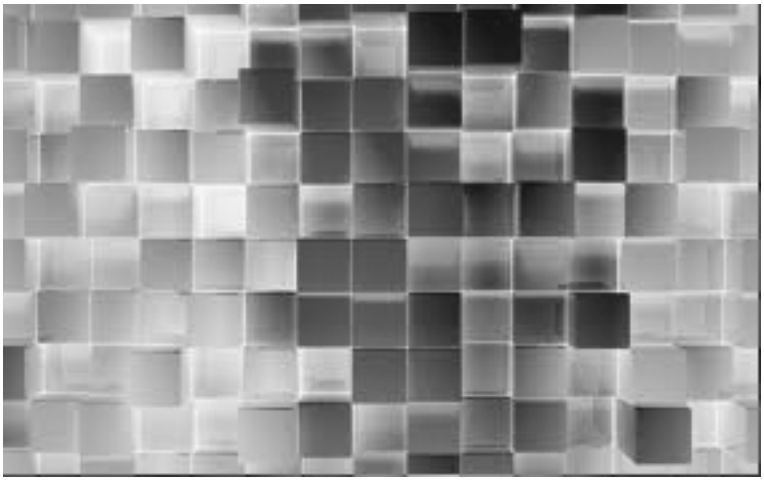
[7]:
```
ima = []
for filename in glob.glob('images/*.jpg'): #assuming gif
    im=Image.open(filename)
    im = im.convert('L')
    ima.append(im)
```

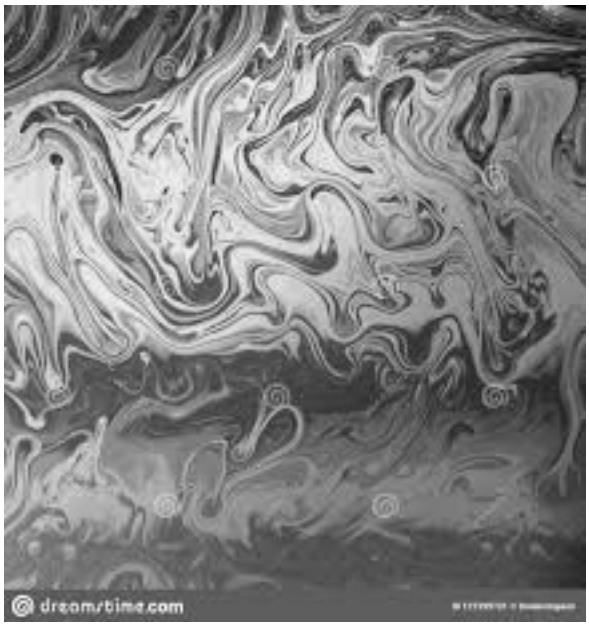
[8]:
```
#negIms = deepcopy(ima)
```

[9]:
```
negIms = negImageBW(ima)
```

[10]:
```
for i in range(len(ima)):
    display(ima[i])
    display(negIms[i])
```



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