色彩科學導論與應用

色彩轉移練習

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Implement the RGB color transfer algorithm using the code provided in the url link https://github.com/jrosebr1/color transfer

1. Using a standard Kodak image database containing 25 images. You can select any two of images within this database as the source and target image, respectively, and produce the color transfer results. Please submit FOUR cases and please STRICTLY follow the naming rules.

FOUR CASES:

- Input: four source images; for example; sou1.bmp, sou2.bmp, ..., sou4.bmp
- Input: four target images; for example; tar1.bmp, tar2.bmp, ..., tar4.bmp
- Output: four color transfer images with the name entitled ult1.bmp, ult2.bmp, ...,
 ult4.bmp

In addition, you need to submit another two cases, where source images and target images are selected by yourselves. The naming rules are as below:

TWO CASES:

- Input: two source images; for example; sou5-self.bmp, sou6-self.bmp.
- Input: two target images; for example; tar5-self.bmp, tar6-self.bmp.
- Output: two color transfer images with the name entitled ult5-self.bmp, ult6-self.bmp.

You can download the Kodak images, if you prefer, using the following url link http://r0k.us/graphics/kodak/

Please submit the following materials. Please do not compress your materials; rather

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please submit each file.
1. your python program. for example, 學號-03-color-transfer.py
2. SIX cases, where each case has three images. A total of 18 images.
For example, three images in the first case you submit will be as follows:
sou1.bmp
tar1bmp
ult1.bmp.
Surely, three images in the second case you submit will be as follows:
sou2.bmp
tar2.bmp
ult2.bmp.
In another example, three images submitted in the fifth case using your own images
will be as follows:
sou5-self.bmp
tar5-self.bmp
ult5-self.bmp.

Obviously, three images in the sixth case you submit will be as follows:

sou6-self.bmp tar6-self.bmp

ult6-self.bmp.