

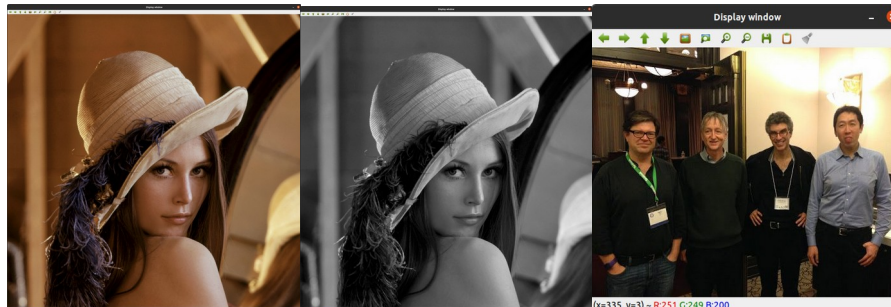
Lab 1: 11/03/2024

Task 1: Execution command: `./Task1 Image_name`

If the two conditions violated, these errors will occur:

```
Terminal: Local x + v
rastin@Rastin-PC:~/CLionProjects/Lab_1_24$ ./Task1
Image filename shall be provided!
rastin@Rastin-PC:~/CLionProjects/Lab_1_24$ ./Task1 unknown.img
Could not open or find the image!
rastin@Rastin-PC:~/CLionProjects/Lab_1_24$
```

The outputs are:



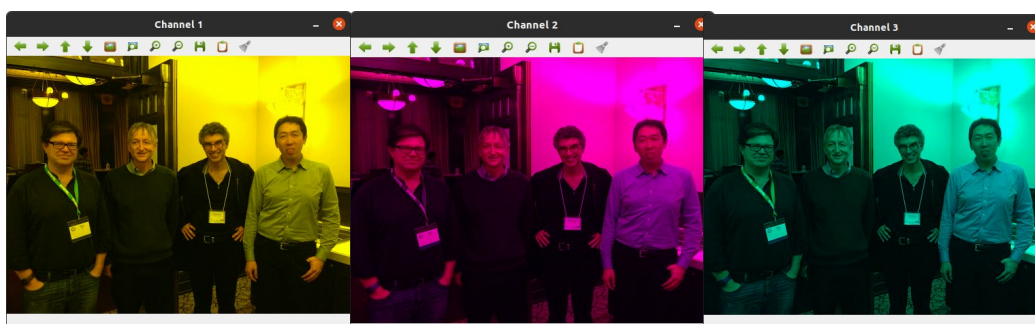
Task 2: Execution command: `./Task2 Image_name`

The instruction is same as task 1 but It will print the number of channels of input image and the output of waitkey.

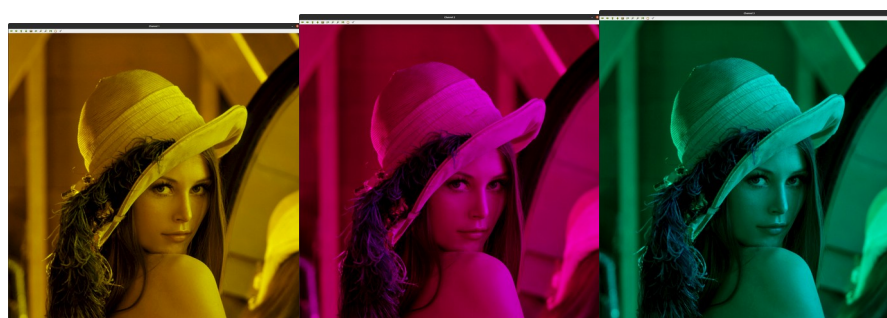
```
Terminal: Local x + v
rastin@Rastin-PC:~/CLionProjects/Lab_1_24$ ./Task2 Lena_color.jpg
Number of channels: 3
Waitkey output: a
rastin@Rastin-PC:~/CLionProjects/Lab_1_24$ ./Task2 Lena_grayscale.jpg
Number of channels: 3
Waitkey output: b
rastin@Rastin-PC:~/CLionProjects/Lab_1_24$ ./Task2 DL_gurus.jpg
Number of channels: 3
Waitkey output: c
```

Task 3: Execution command: `./Task3 Image_name numb_of_channel(0,1 or 2)`

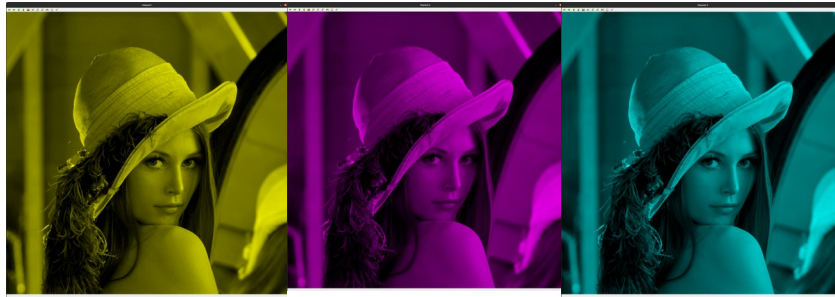
For the three images, when we set first channels to 0 we missed the blue color, when we set second channel to 0 we missed the green color and when we set third channel to 0 we missed the red color. Because the Opencv reads the image with BGR format.



DL_gurus.jpg



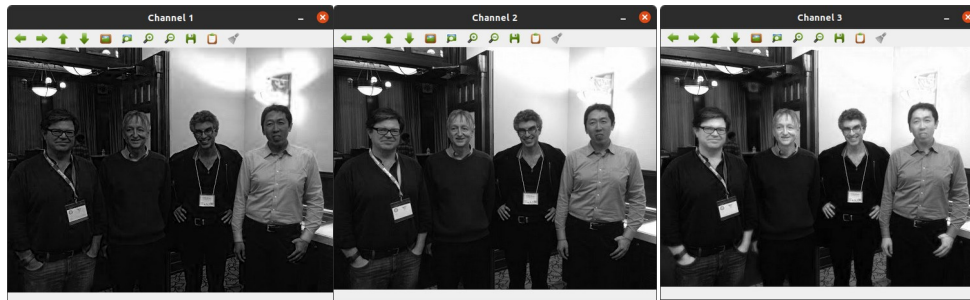
Lena_color.jpg



Lena_grayscale.jpg

Task 4: Execution command: `./Task4 Image_name`

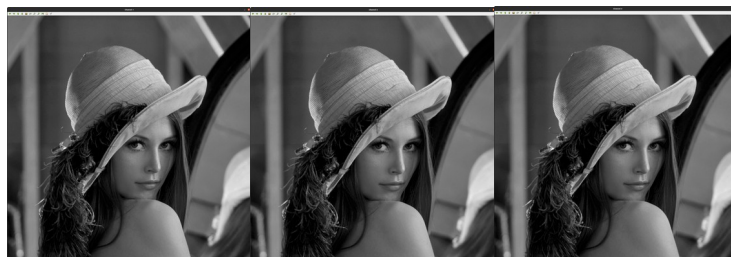
For the first 2 images the outputs are dark to light but for the grayscale image all the outputs are the same.



DL_gurus.jpg



Lena_color.jpg



Lena_gray.jpg

Task 5: Execution command: `./Task5`

