

# Control RGB Light

## 1. API Introduction

The API corresponding to the RGB light is: Arm\_RGB\_set(R, G, B)

Function: Set the color of the RGB light.

Parameter explanation:

R: Control the brightness of the red light in RGB, range is 0-255, the larger the value, the brighter the light.

G: Control the brightness of the green light in RGB, range is 0-255, the larger the value, the brighter the light.

B: Control the brightness of the blue light in RGB, range is 0-255, the larger the value, the brighter the light.

Return value: None.

## 2. Code Content

Code path:

```
~/dofbot_pro/dofbot_ctrl/scripts/01.rgb.ipynb
```

```
#!/usr/bin/env python3
#coding=utf-8
import time
from Arm_Lib import Arm_Device

# Get the robotic arm object
Arm = Arm_Device()
time.sleep(.1)

def main():
    while True:
        Arm.Arm_RGB_set(50, 0, 0) # RGB lights up red
        time.sleep(.5)
        Arm.Arm_RGB_set(0, 50, 0) # RGB green light
        time.sleep(.5)
        Arm.Arm_RGB_set(0, 0, 50) # RGB blue light
        time.sleep(.5)

        print(" END OF LINE! ")

    try :
        main()
    except KeyboardInterrupt:
        # Release the Arm object
        del Arm
        print(" Program closed! ")
```

```
pass
```

Open the code file from jupyter lab, and click the "Run entire notebook" button on the jupyter lab toolbar, you can see the RGB light on the robotic arm expansion board cycling through red, green, and blue lights every 0.5 seconds.



To exit, click the stop button on the toolbar.

