Proficient Carrier handle remote control

In this lesson we will learn to use the Handle to remotely control the building blocks Proficient Carrier.

1. Programming method:

Mode 1 online programming: First, we need to connect the micro:bit to the computer by USB cable. The computer will pop up a USB flash drive and click on the URL in the USB flash drive: **http://microbit.org/** to enter the programming interface. Add the Yahboom package https://github.com/lzty634158/SuperBit and https://github.com/lzty634158/GHBit to programming.

Mode 2 offline programming: We need to open the offline programming software. After the installation is complete, enter the programming interface, click【New Project】, add Yahboom package: https://github.com/lzty634158/SuperBit and https://github.com/lzty634158/GHBit, you can program.

2. About Proficient Carrier code:

Please refer to the **Handle code** file of this experiment.

Please refer to the **Proficient Carrier code** file of this experiment.

3. Steps:

3.1 Handle rocker control

First, we need to download the **microbit-Proficient-Carrier-handle-remote-control.hex** to micro:bit of Proficient Carrier, you can see that the micro:bit dot matrix shows an pattern as shown in Figure 1.1.

we need to download the **microbit-Handle_rocker_control.hex** to micro:bit of Handle, you can see that the micro:bit dot matrix shows an “heart” as shown in Figure 1.2. Then, it will display “X” pattern.

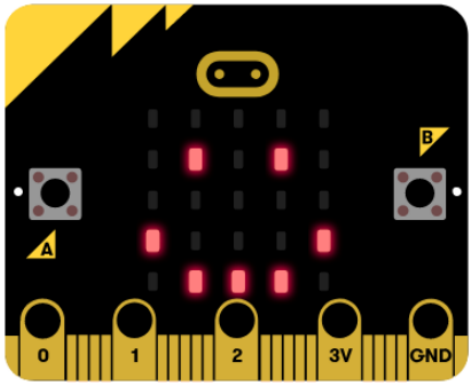


Figure 1.1

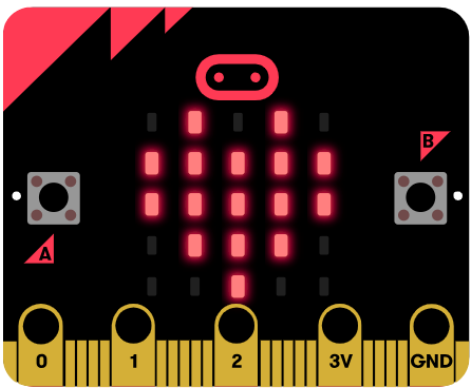


Figure 1.2

Then, open the micro:bit handle. After the handle is connected with the

micro:bit building block Proficient Carrier, you can use the joystick to control the forward, backward, turn left, and turn right .
And use the handle button to switch the Color of RGB light. Press the rocker to turn off the RGB light.

3.2 Handle gravity control

First, we need to download the **microbit-Proficient-Carrier-handle-remote-control.hex** to micro:bit of Proficient Carrier, you can see that the micro:bit dot matrix shows an pattern as shown in Figure 1.3.
we need to download the **microbit-Handle-rocker-control.hex** to micro:bit of Handle, you can see that the micro:bit dot matrix shows an “heart” as shown in Figure 1.4. Then, it will display “X” pattern.

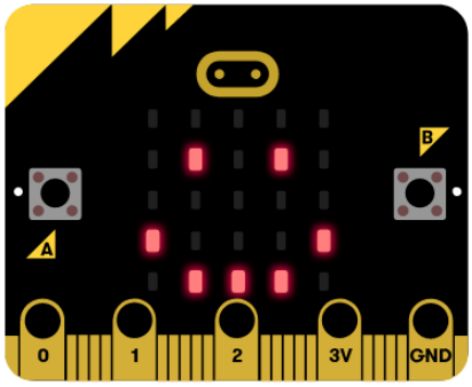


Figure 1.3

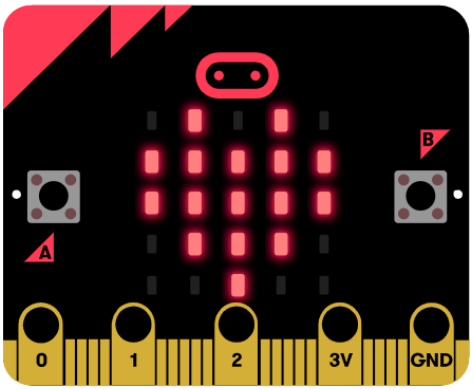
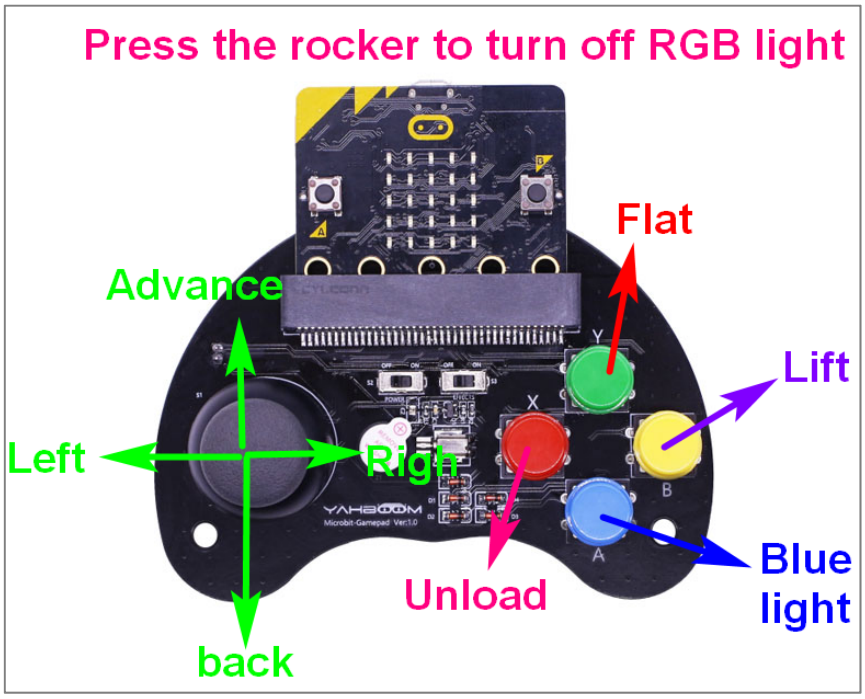


Figure 1.4

Then, open the micro:bit handle. After the handle is connected with the micro:bit building block Proficient Carrier, you can shake handle to control the forward, backward, turn left, and turn right .
And use the handle button to switch the Color of RGB light. Press the rocker to turn off the RGB light.


Press the rocker to turn off RGB light
Flat
Advance
Lift
Left
Righ
Unload
Blue
light
back