Color recognition machine

1. Learning target

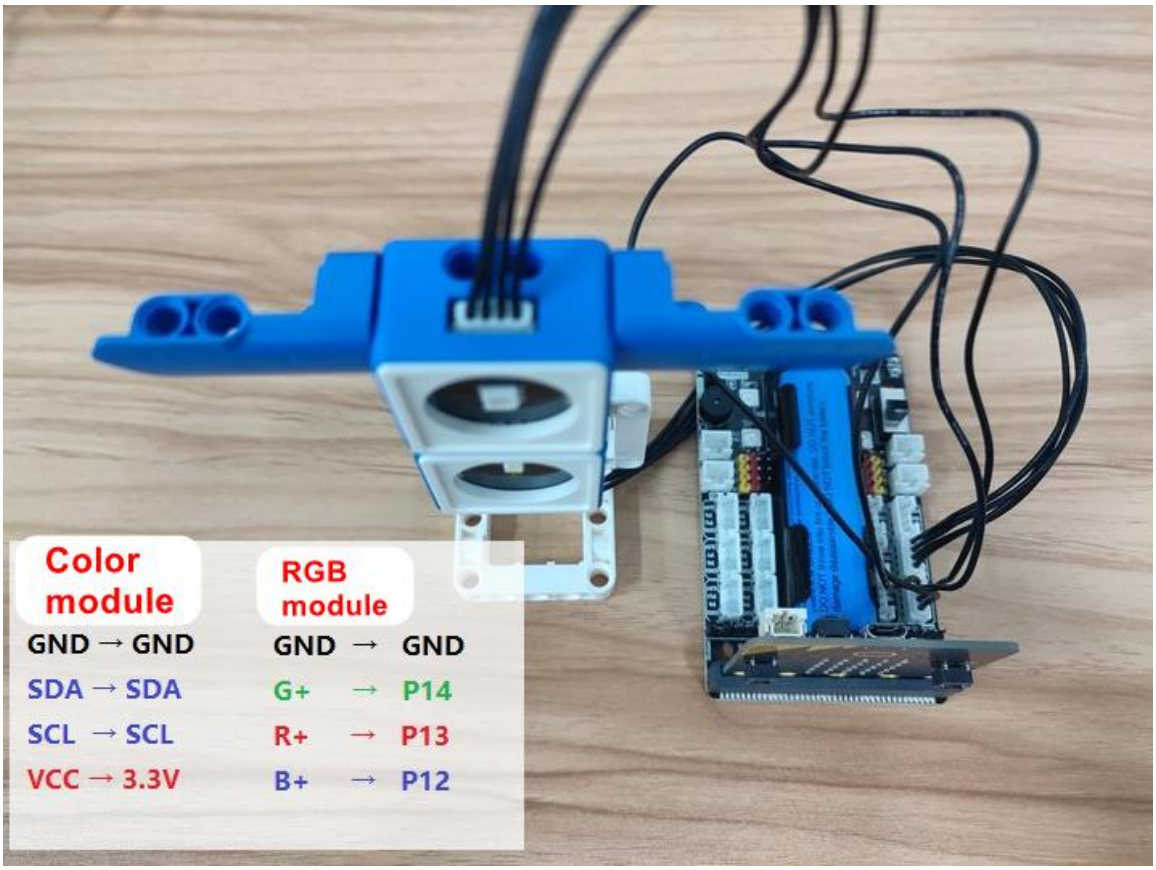
In this course, we will learn how to use Micro:bit and color recognition module to make a color recognition machine.

2. Preparation

Connect the module to Micro:bit board by expansion board, as shown below.

Note: The RGB module used in this course needs to be purchased additionally.

Link:https://category.yahboom.net/products/world-of-module



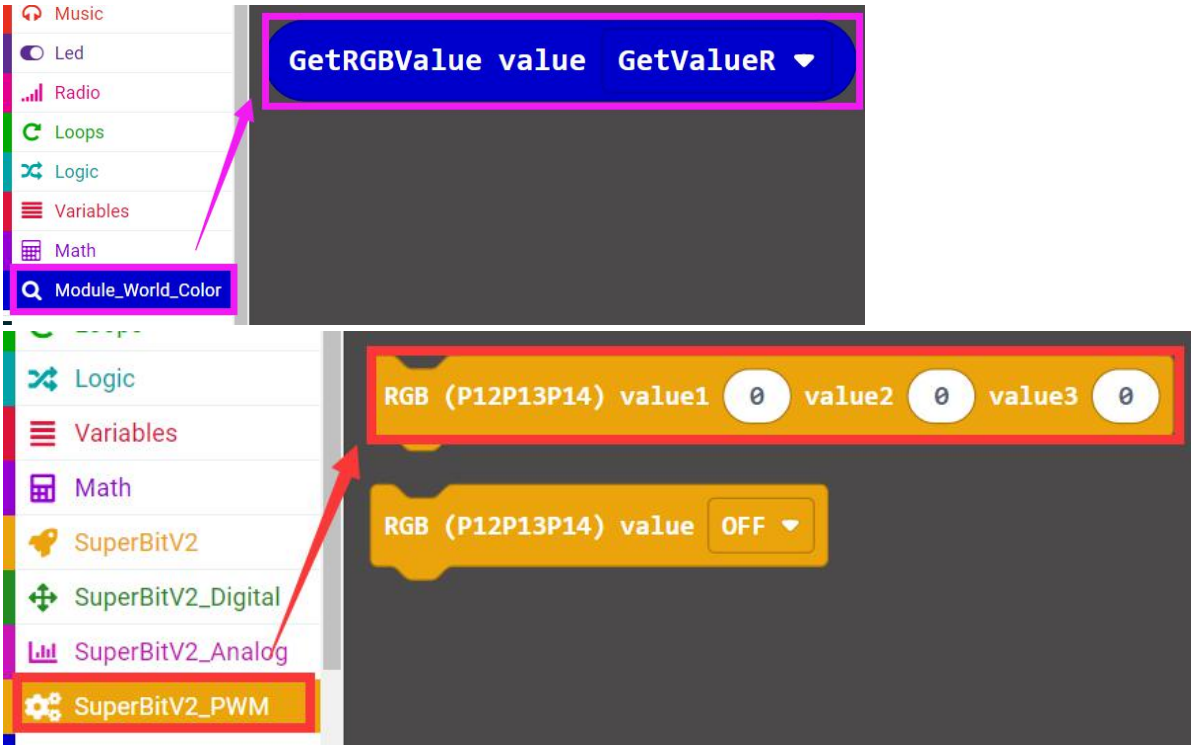
3.Programming method

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/YahboomTechnology/module_world_color and https://github.com/YahboomTechnology/SuperBitLibV2 to program.

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/YahboomTechnology/module_world_color and https://github.com/YahboomTechnology/SuperBitLibV2, you can start programming.

4.Looking for blocks

The following is the location of the building blocks required for this programming.



5.Combine block

The summary program is shown below.

5. Phenomenon

After the program is downloaded successfully. RGB lights will turn on different color light according to the recognized colors.