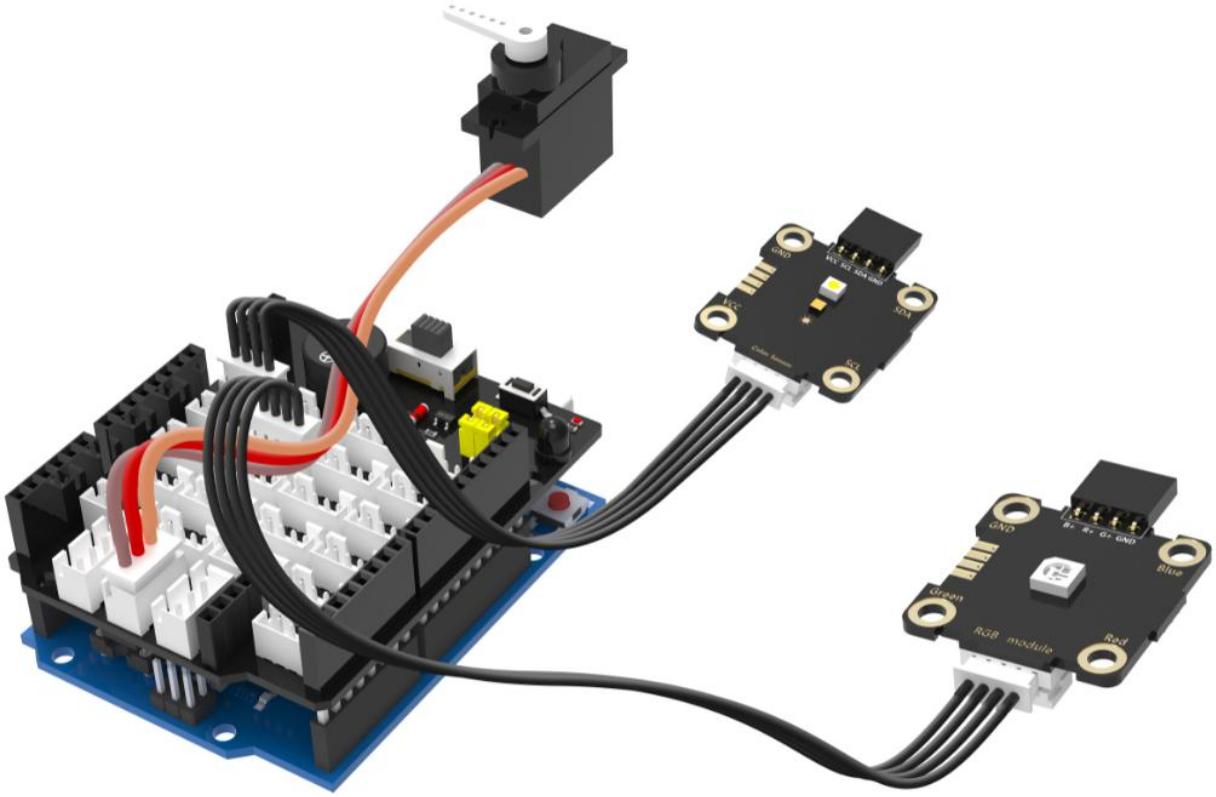
Experimental content: Sorting out objects of different colors, and RGB lights will display the currently recognized.

Experiment preparation: UNO board *1, Plugkit sensor expansion board *1, USB data cable *1, Color recognition sensor module *1, 9G metal digital servo *1, RGB light module *1, 4pin cable(PH2.0) *2.

Experimental wiring:

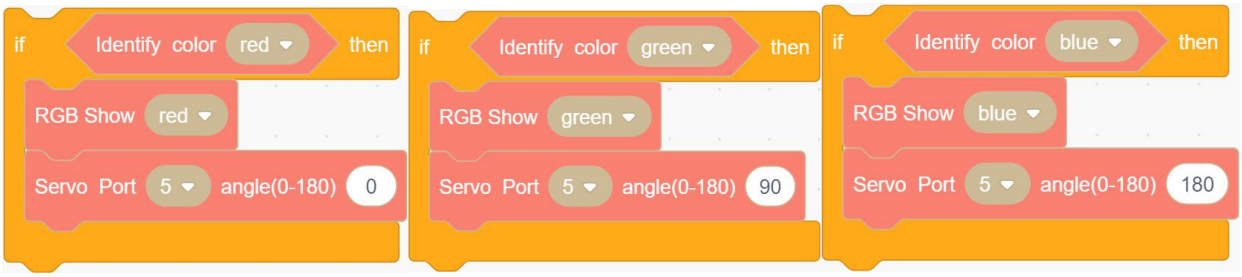


Servo is connected to the interface of the sensor expansion board with silk screen (~5, 5V, GND).

Experimental steps:

1.Select the following blocks in the [Plugkit].

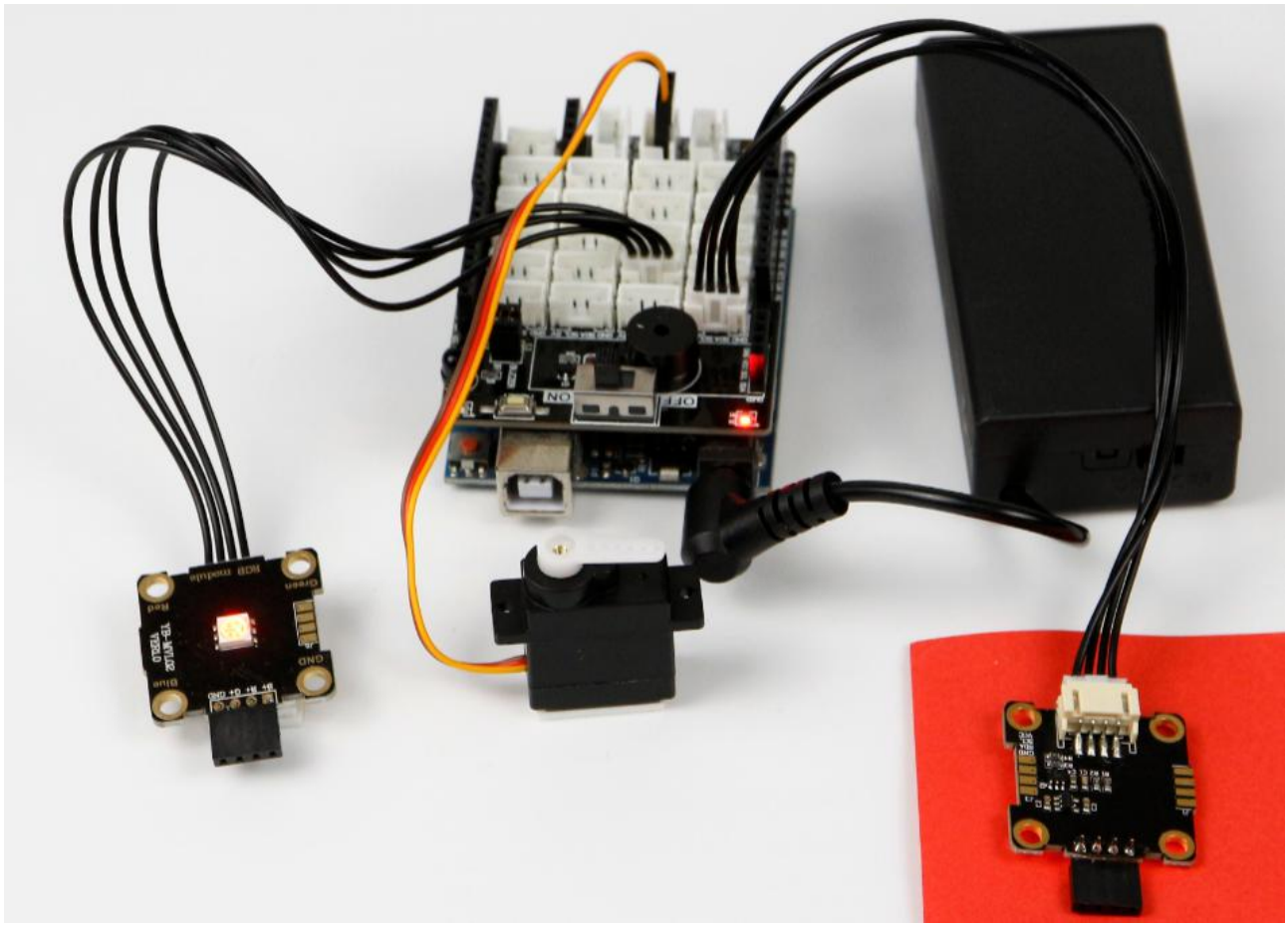
2.If the color is red, then the RGB light will become red and the servo turns to 0 °. If the color is green, the RGB light become green and the servo turns to 90 °. If the color is blue, the RGB light become blue and servo turn to 180 °.



3.Put the block combination of step 2 into the loop block.

4.Compiling and uploading programs.

Experimental phenomena: If the color is red, then the RGB light become red and the servo turns to 0 °. If the color is green, the RGB light become green and the servo turns to 90 °. If the color is blue, the RGB light turns blue and servo turn to 180 °. We can sort different colored objects by turning the servo.


RGB module
Green
Red
Blue
GND
ON
OFF