**Experimental content:** Seven colors in turn

**Experiment preparation:** UNO board *1, Plugkit sensor expansion board *1, 4pin cable(PH2.0) *1, USB data cable *1, RGB module *1

**Experimental wiring:** Same as [Light up a RGB]

## Experimental steps:

1. Select the blocks we have used before, stack the RGB light modules in seven different colors and the "wait for 1 second" blocks in order and put them in the loop. Because the total program is too long, the following section shows the program.
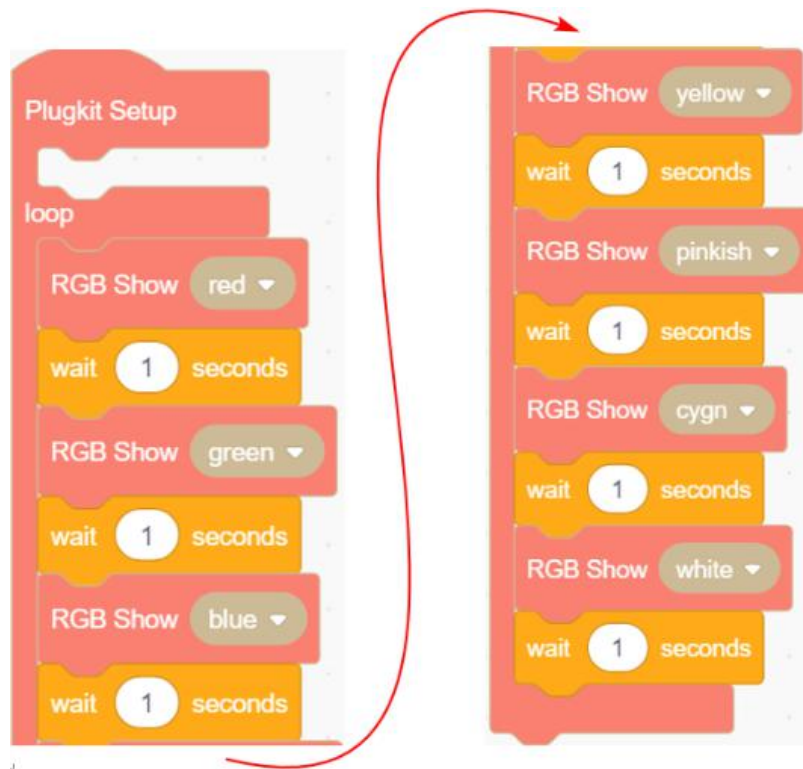


2. Compiling and uploading programs.

**Experimental phenomena:** The RGB light module changes a color every 1s and blinks alternately. The color switching time can be changed by modifying the time of the "wait for 1s" block.

RGB light module color selection building block possess a total of seven colors, which corresponding to seven RGB values, as shown in the following table.

| RGB light color | R value | G value | B value |
|---|---|---|---|
| red | 255 | 0 | 0 |
| green | 0 | 255 | 0 |
| blue | 0 | 0 | 255 |
| yellow | 255 | 255 | 0 |
| magenta | 255 | 0 | 255 |
| cyan | 0 | 255 | 255 |
| white | 255 | 255 | 255 |