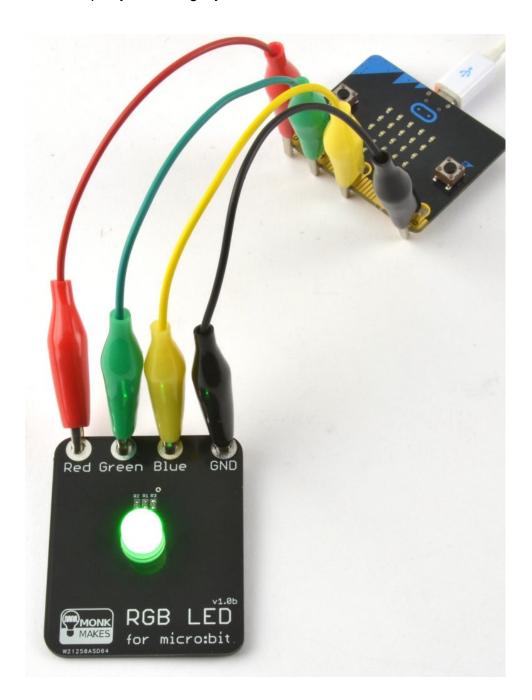
RGB LED FOR MICRO:BIT

The MonkMakes RGB LED for micro:bit provides a colorful add-on to your micro:bit. Connect it up with alligator clips and then use the three outputs of your micro:bit to control the red, green and blue channels to mix up any color of light you want.

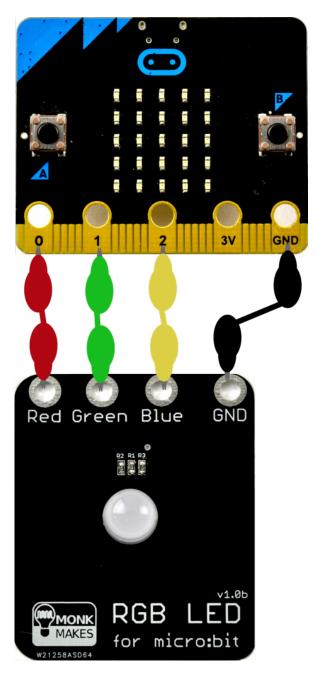


Features

- Easy to connect
- · Powered directly from micro:bit pins
- · Useful for teaching color mixing.

Getting Started Connecting to your micro:bit

Connect the RGB LED to the micro:bit as shown below. When attaching the alligator clips to the micro:bit, make sure that the clips are perpendicular to the board so that they are not touching any of the neighbouring connectors on the micro:bit edge connector.



JavaScript Blocks Editor

Traffic Signal Example

Follow the link below to open the code in the JavaScript Blocks Editor. Once it's running on your micro:bit it will cycle through the colors of a traffic signal.

```
≡ forever
                            function red
 call function red v

    analog write pin P0 ▼ to 1023

    analog write pin P1 ▼ to □

 call function orange v
                                analog write pin P2 v to [0
  Ⅲ pause (ms) ( 1000
 call function green v
                           function green
 Ⅲ pause (ms) ( 5000
                              call function orange v
                               analog write pin P1 v to 1023
  Ⅲ pause (ms) ( 1000
                              ⊚ analog write pin P2 ⊽ to 🕻 0
         function orange

    analog write pin P0 ▼ to §

                                      800

    analog write pin P1 ▼ to 100

             analog write pin P2 v to
```

MicroPython

Paste the following code into the Python window and then Download the file and copy it onto your your micro:bit

from microbit import *

```
def set_rgb(red, green, blue):
pin0.write_analog(red)
pin1.write_analog(green)
pin2.write_analog(blue)

while True:
set_rgb(255, 0, 0)
sleep(4000)
set_rgb(800, 100, 0)
sleep(1000)
set_rgb(0, 1023, 0)
sleep(5000)
set_rgb(800, 100, 0)
```

sleep(1000)