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RGB LED for micro:bit MNK00064

The MonkMakes RGB LED for micro:bit provides a colourful 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 colour of light you want.

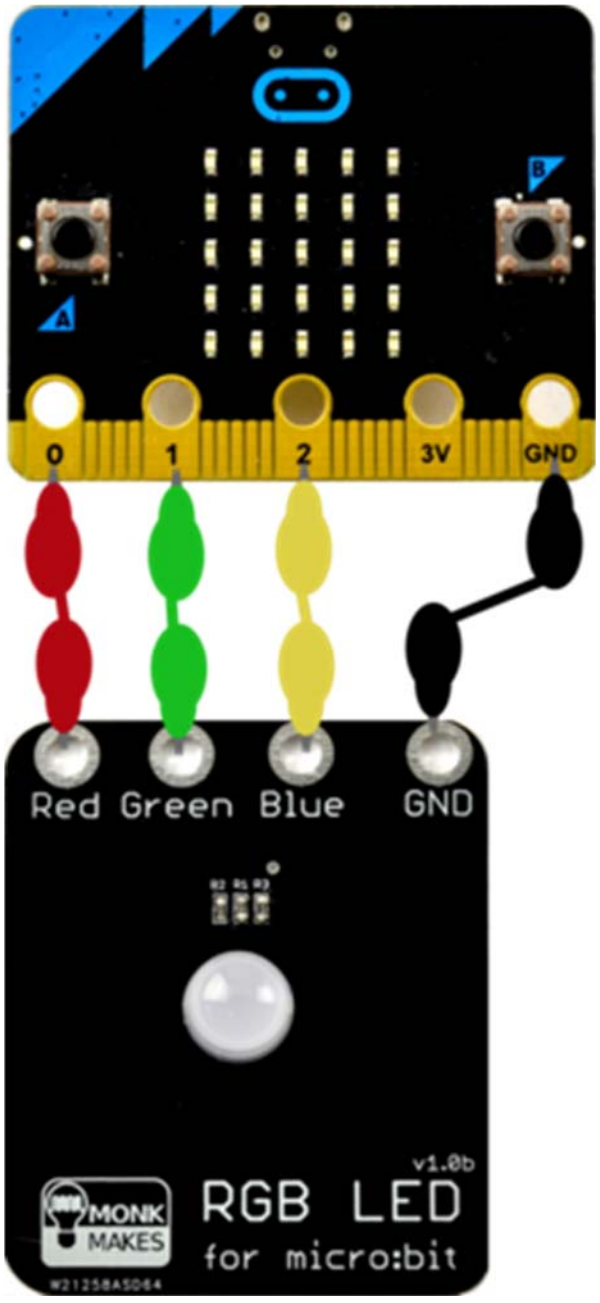
Features

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

- ## Getting Started

  ### Connecting to your micro:bit

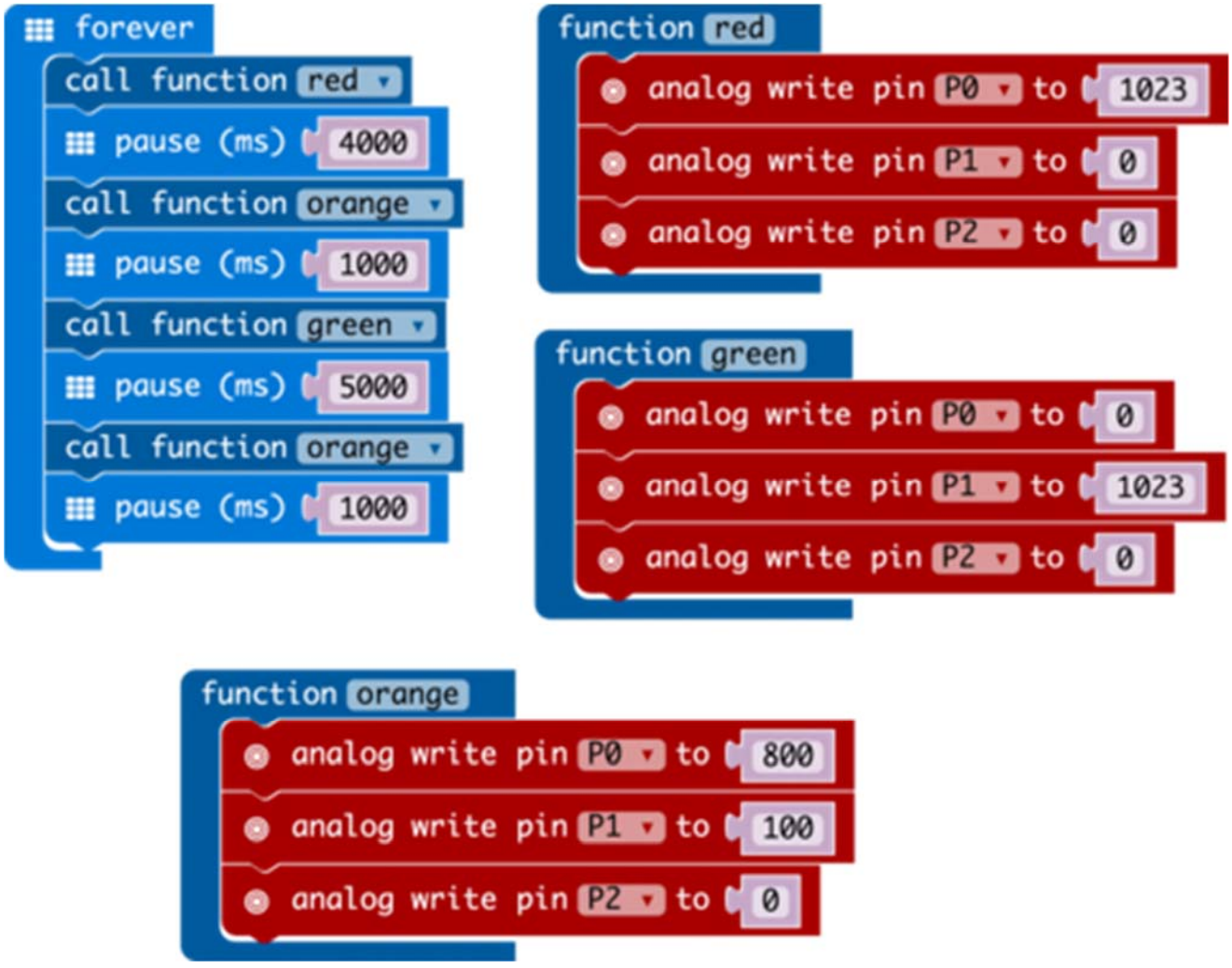
  Connect the RGB LED to the micro:bit as shown below. When attaching the alligator clips to the micro:bit, make sure that the clips are perpendicular to the board so that they are not touching any of the neighbouring connectors on the micro:bit edge connector.



JavaScript Blocks Editor

Traffic Signal Example

Click on the example below to open the code in the JavaScript Blocks Editor. Once its running on your micro:bit it will cycle through the colors of a traffic signal.



MicroPython

TRAFFIC SIGNAL EXAMPLE

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)
```