

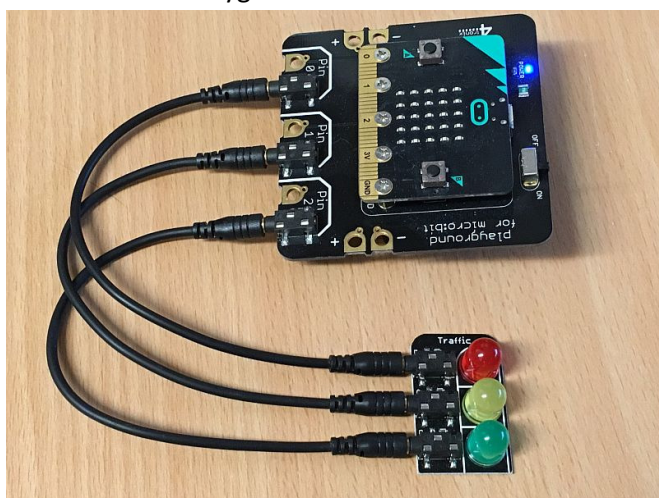
## Using the Traffic Light Gizmo with Playground for micro:bit

### Requirements:

- Playground for micro:bit, with micro:bit and batteries installed
- Traffic Light Gizmo
- 3 x Connection cable

### Connections:

1. Switch Playground OFF
2. Plug 3 connection cables into Gizmo and Pin 0, 1 and 2 on Playground
3. Switch Playground ON



### Simple Software Demo:

This is a very simple Traffic Light sequence.

```
forever loop
  digital write pin P0 to 1
  pause (ms) 3000
  digital write pin P1 to 1
  pause (ms) 1000
  digital write pin P0 to 0
  digital write pin P1 to 0
  digital write pin P2 to 1
  pause (ms) 3000
  digital write pin P2 to 0
  digital write pin P1 to 1
  pause (ms) 1000
  digital write pin P1 to 0
```

### Micropython Sequence

We can do much the same using micropython by using the `write_digital ()` function for each pin:

```
from microbit import *
while True:
    pin0.write_digital(1)
    sleep(3000)
    pin1.write_digital(1)
    sleep(1000)
    pin0.write_digital(0)
    pin1.write_digital(0)
    pin2.write_digital(1)
    sleep(3000)
    pin2.write_digital(0)
    pin1.write_digital(1)
    sleep(1000)
    pin1.write_digital(0)
```