

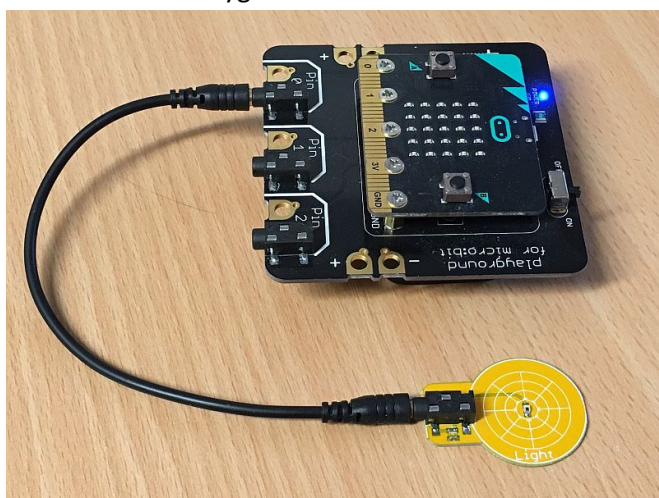
Using the Light Sensor Gizmo with Playground for micro:bit

Requirements:

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

Connections:

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



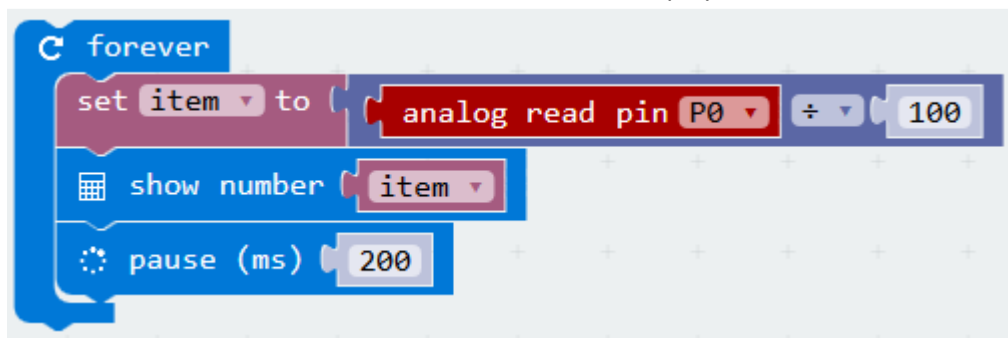
Without Software:

Cover the light sensor so it is dark and then gradually let more light reach it. Shine a torch directly at it for highest data reading

➔ LED on Pin 0 of Playground will start lighting as the light gets brighter

PXT Software Demo:

We can use the same demo as for the Dial Gizmo, to display a number from 0 to 9



MicroPython

We can do the same thing in micropython as follows:

```
from microbit import *  
while True:  
    value = int(pin0.read_analog()/100)  
    display.show(str(value))  
    sleep(200)
```

As before, we have to explicitly convert the result of the division into an integer so that only one digit is shown on the display.