

Stage background brightness

Hardware requirements:

mBot/mCore Control Panel

Implementation:

Online debugging (serial/Bluetooth connection)

Example programs

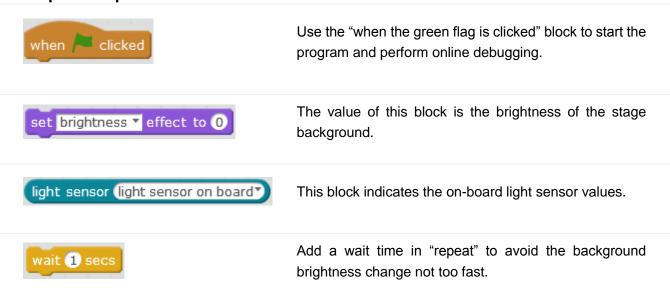
```
when clicked

forever

set brightness effect to light sensor light sensor on board / 5 - 100

wait 1 secs
```

Script description



Knowledge points

The brightness range of the light sensor is different from that of the stage background, so it needs conversion.

Light sensor value ranges from 0 to 1000. The higher the brightness of the surrounding environment is, the larger the value is. mBlock stage background brightness ranges from -100 to 100. When the brightness changes gradually from -100 to 100, the background changes from black to pure white.

As the range of values of the light sensor is different from that of stage background,



conversion is needed (the value of the light sensor/5-100) to match the light sensor values with the stage background

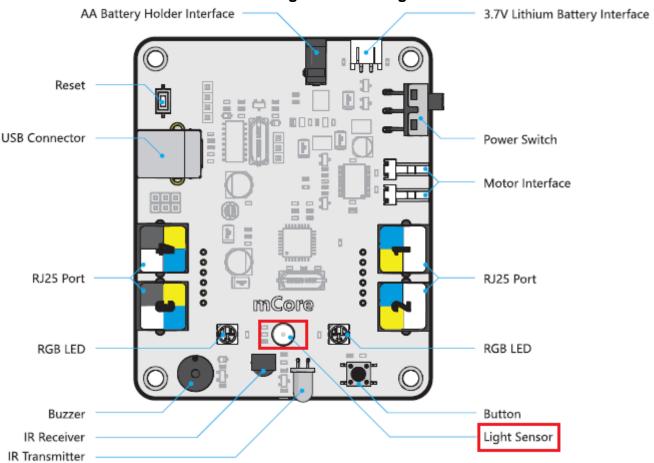


Extended tasks

Task
1 Stop the sample program to replace the "brightness" in Block
with other effects, such as color, , ultra wide angle lens and then execute the program to see the effects.

Task
Let the light sensor to control the brightness of the panda character

Attached -mCore main control board light sensor diagram



Download: Control the stage background brightness.sb2