

# Read the light intensity

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## Read the light intensity

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## 1. Learning objectives

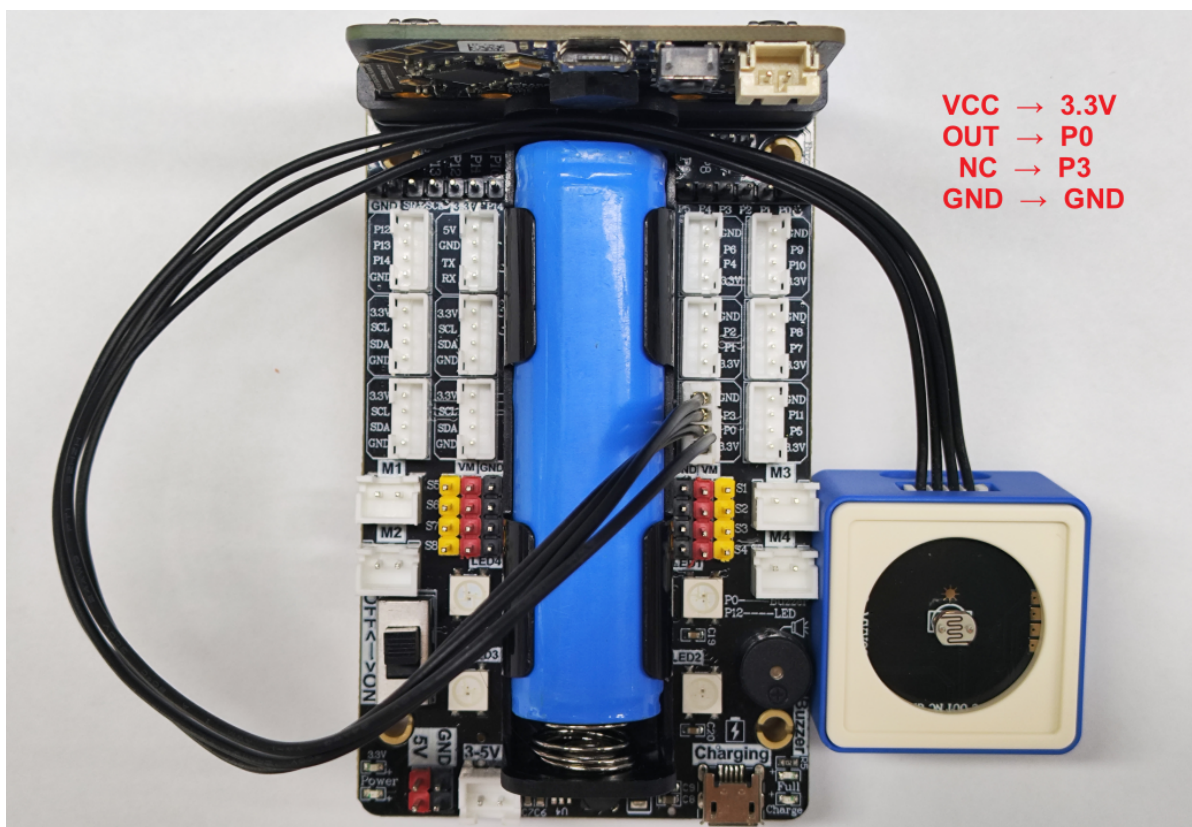
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In this course, we mainly learn how to display the intensity of light through MakeCode graphical programming.

## 2. Sensor wiring

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The photosensitive module is connected to the P0P3 interface.



## 3. Programming

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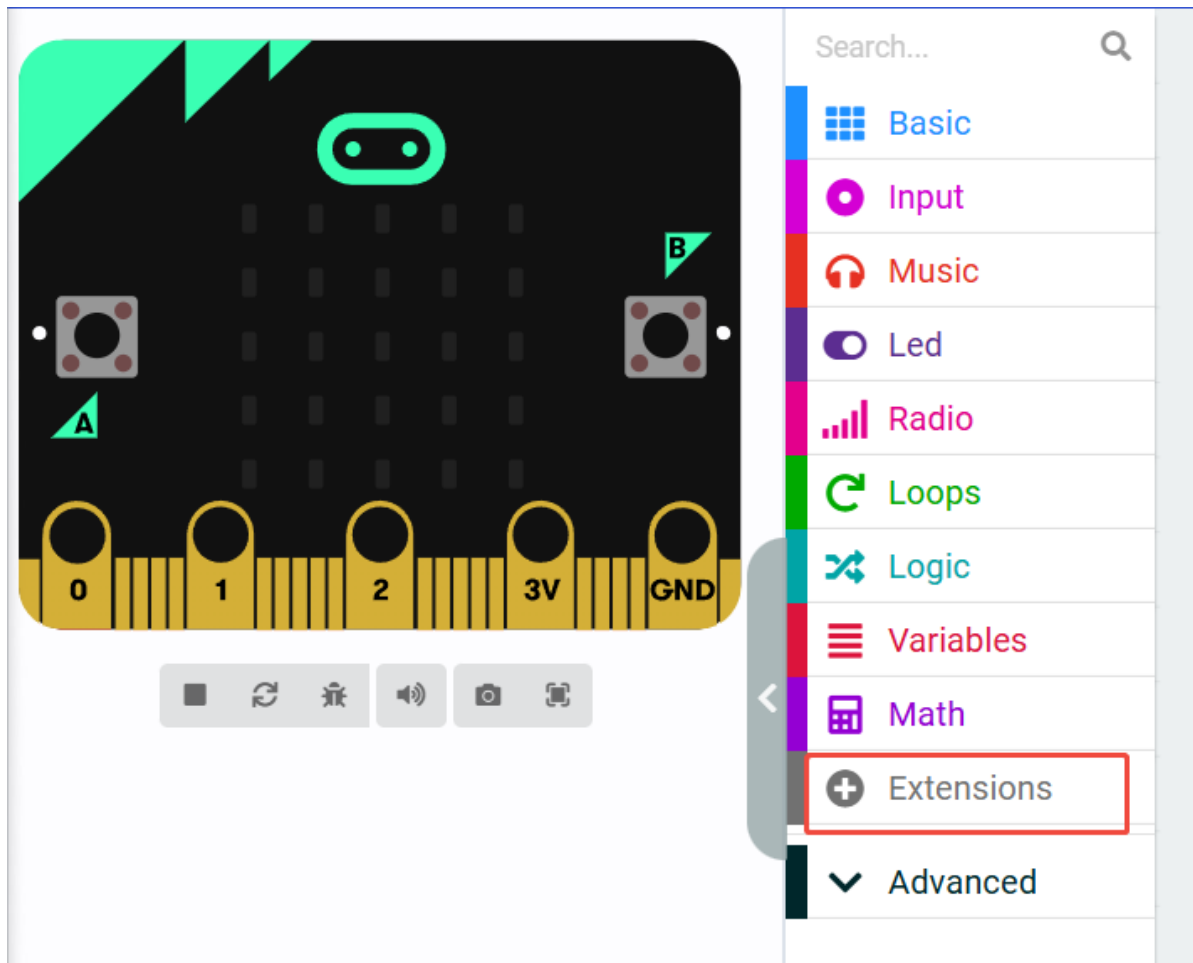
Method 1 Online programming:

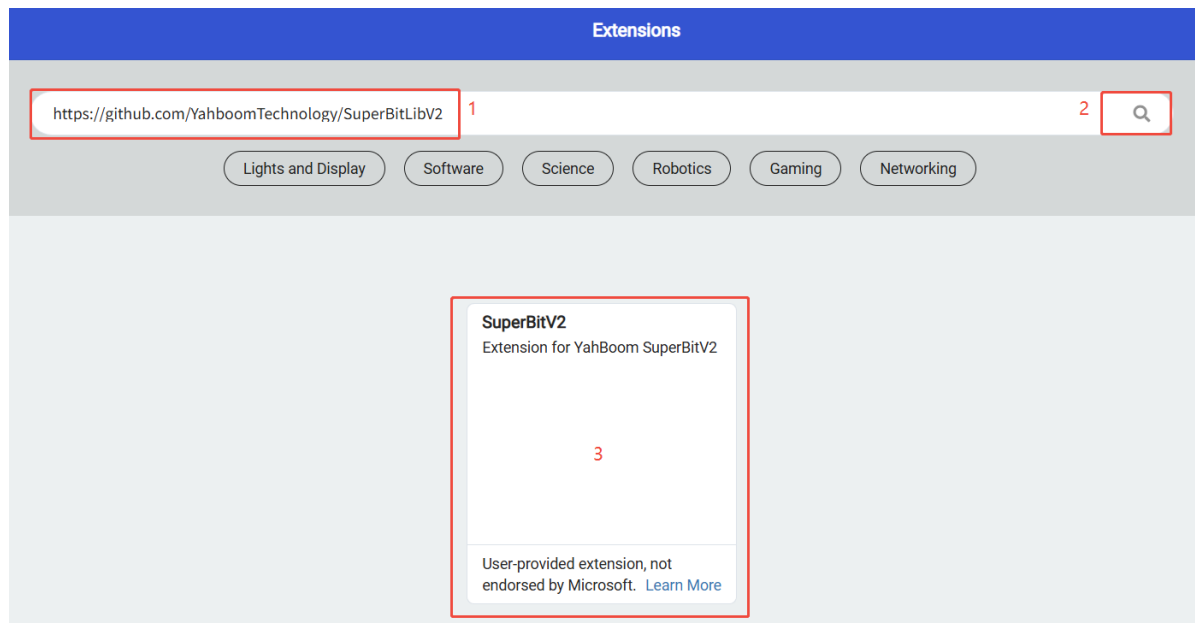
First, connect micro:bit to the computer via a USB cable, a USB flash drive will pop up on the computer, click the URL in the USB flash drive: <https://makecode.microbit.org/> to enter the programming interface. Then, add the Yahboom software package <https://github.com/YahboomTechnology/SuperBitLibV2> to start programming.

#### Method 2 Offline programming:

Open the offline programming software MakeCode and enter the programming interface. Click [New] and add the Yahboom software package <https://github.com/YahboomTechnology/SuperBitLibV2> to start programming.

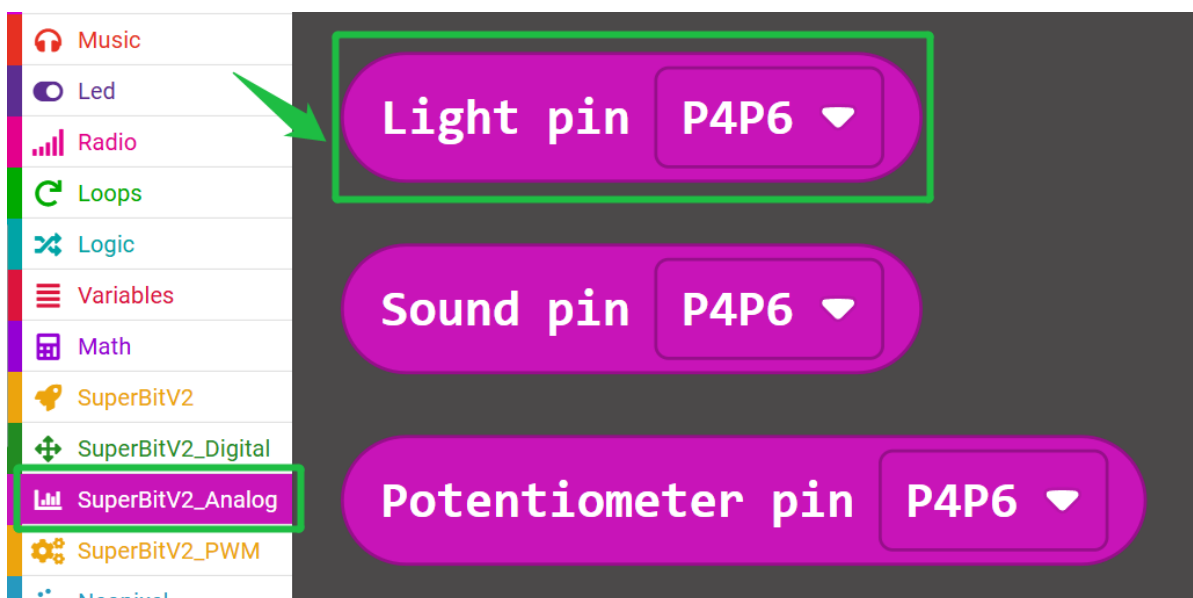
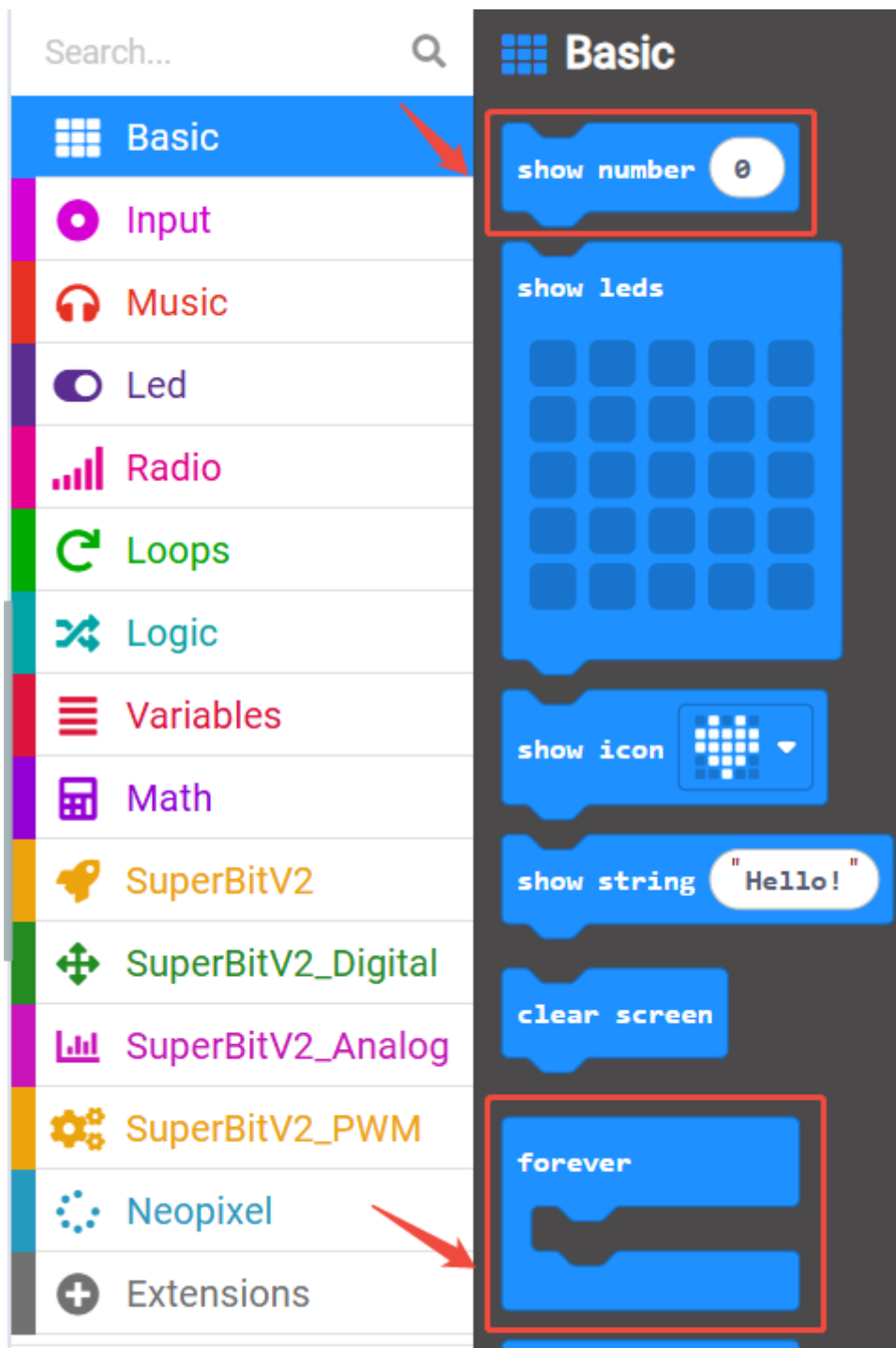
### 3.1 Adding extension packages





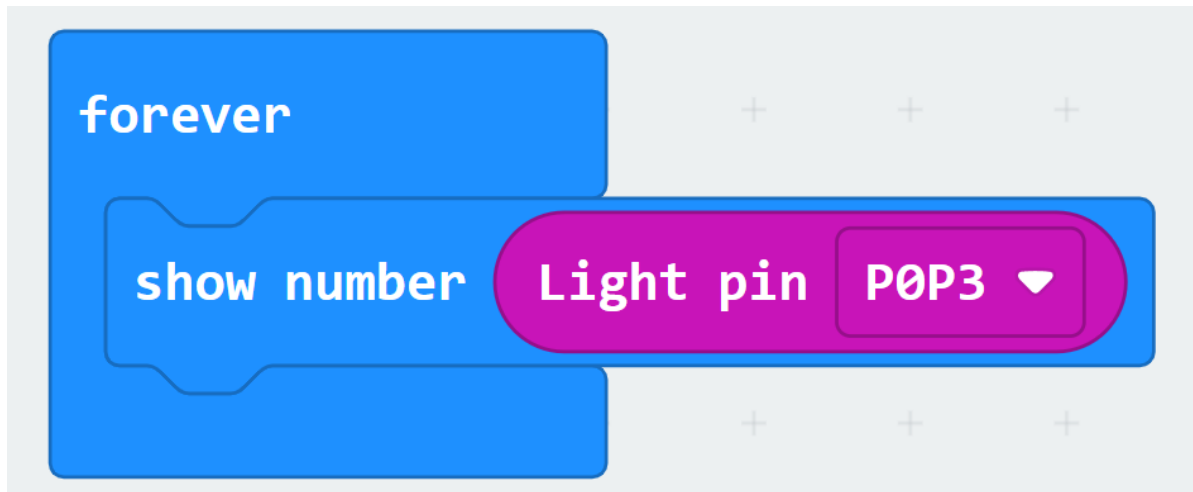
## 3.2 Building blocks used

The locations of the building blocks required for this programming are shown in the figure below.



### 3.3 Combining blocks

The summary procedure is shown in the figure below.



You can also directly open the **Read-the-light-intensity.hex** file provided in this experiment and drag it into the browser that opens the URL, and the program diagram of this project source code will be automatically opened.

## 4. Experimental Phenomenon

After the program runs successfully, the microbit dot matrix displays the current light intensity.