

# Read temperature humidity

---

## Read temperature humidity

1. Learning objectives
2. Sensor wiring
3. Programming
  - 3.1 Adding extension packages
  - 3.2 Building blocks used
  - 3.3 Combining blocks
4. Experimental Phenomenon

## 1. Learning objectives

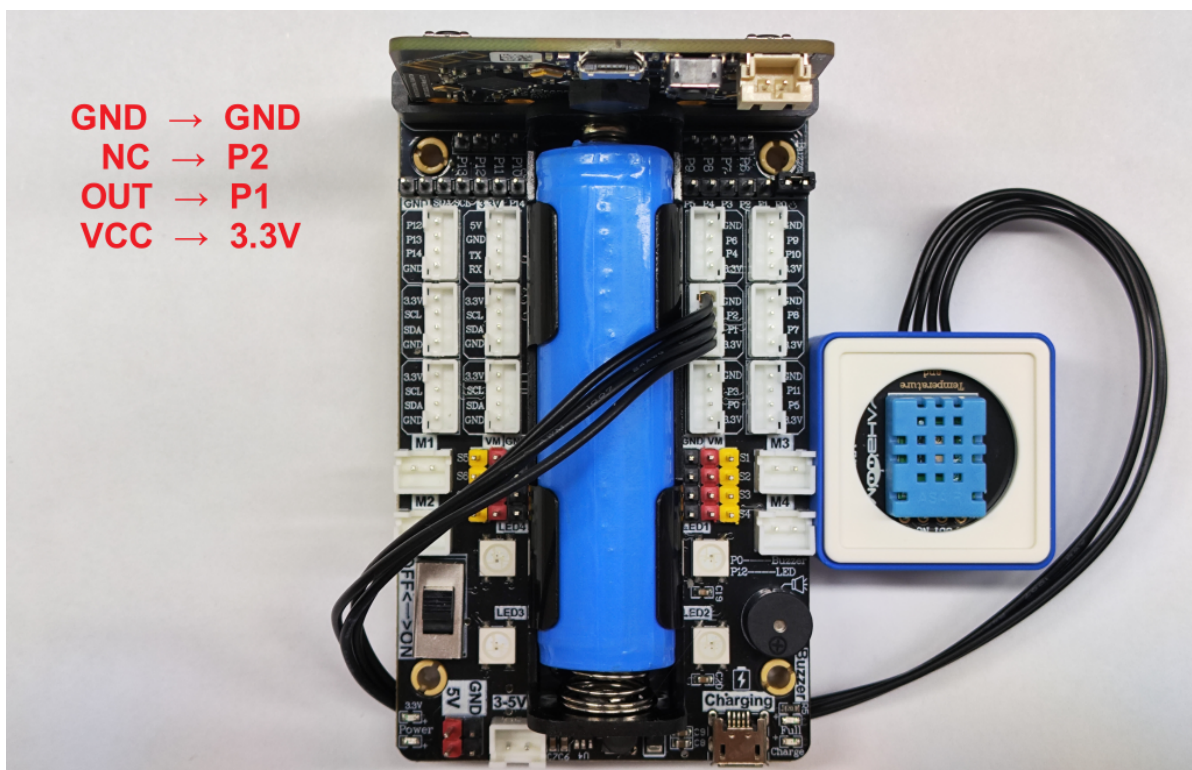
---

In this course, we mainly learn how to display temperature and humidity through MakeCode graphical programming.

## 2. Sensor wiring

---

The temperature and humidity sensor is connected to the P1P2 interface.



## 3. Programming

---

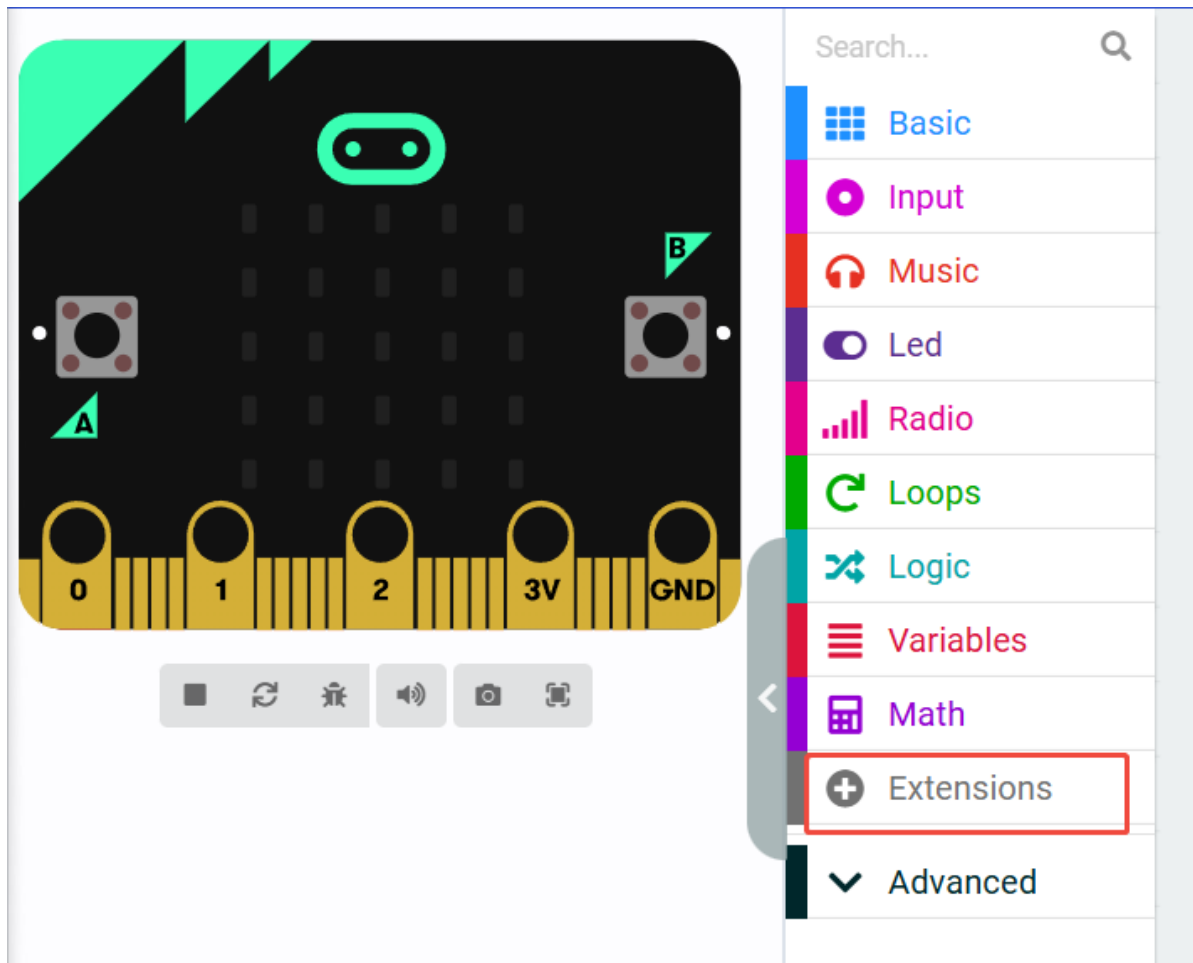
Method 1 Online programming:

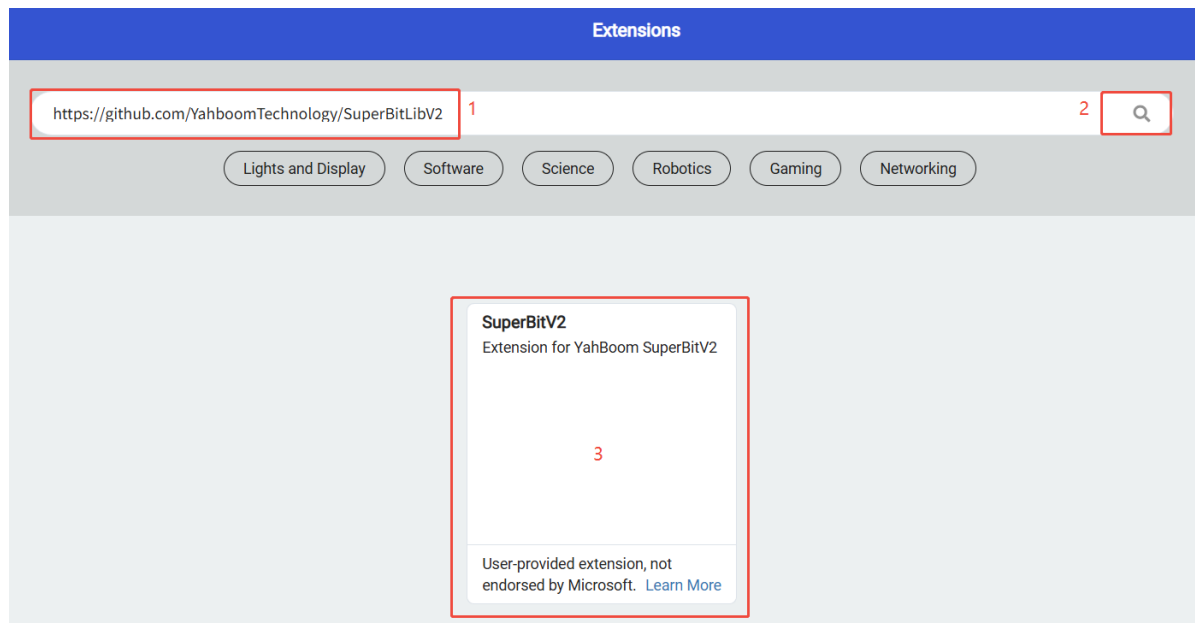
First, connect micro:bit to the computer via a USB cable, a USB flash drive will pop up on the computer, click the URL in the USB flash drive: <https://makecode.microbit.org/> to enter the programming interface. Then, add the Yahboom software package <https://github.com/YahboomTechnology/SuperBitLibV2>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

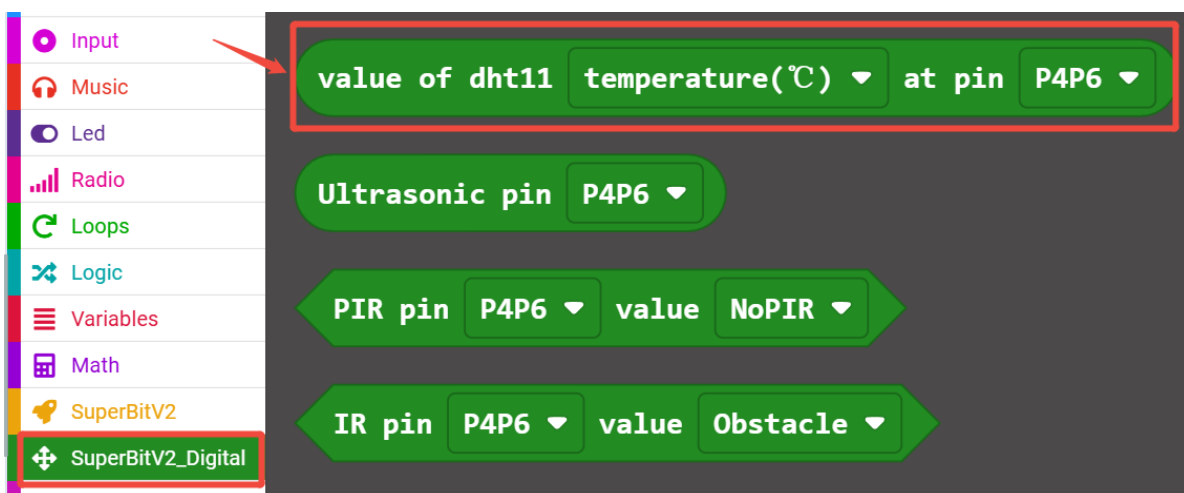
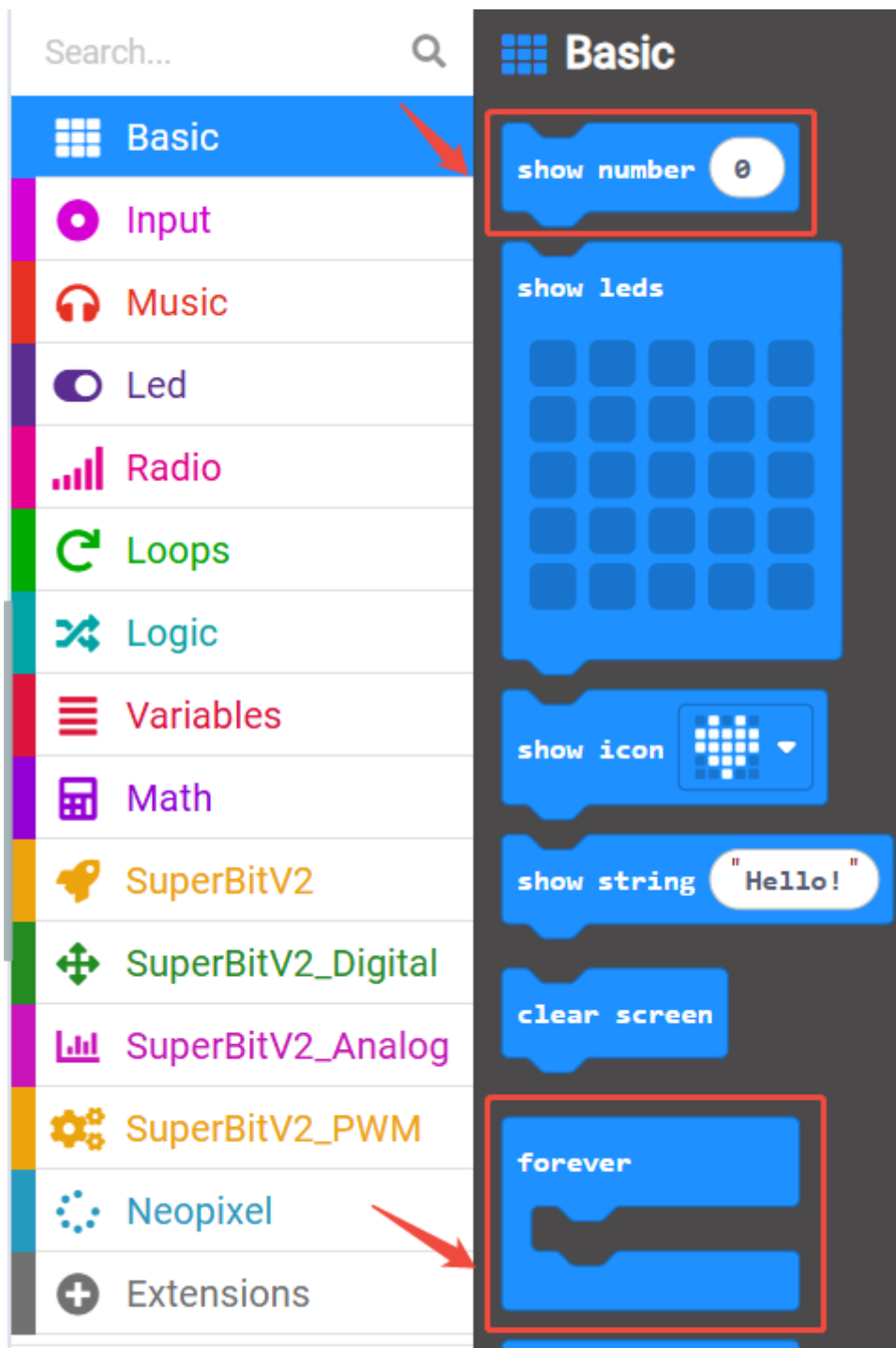
### 3.1 Adding extension packages





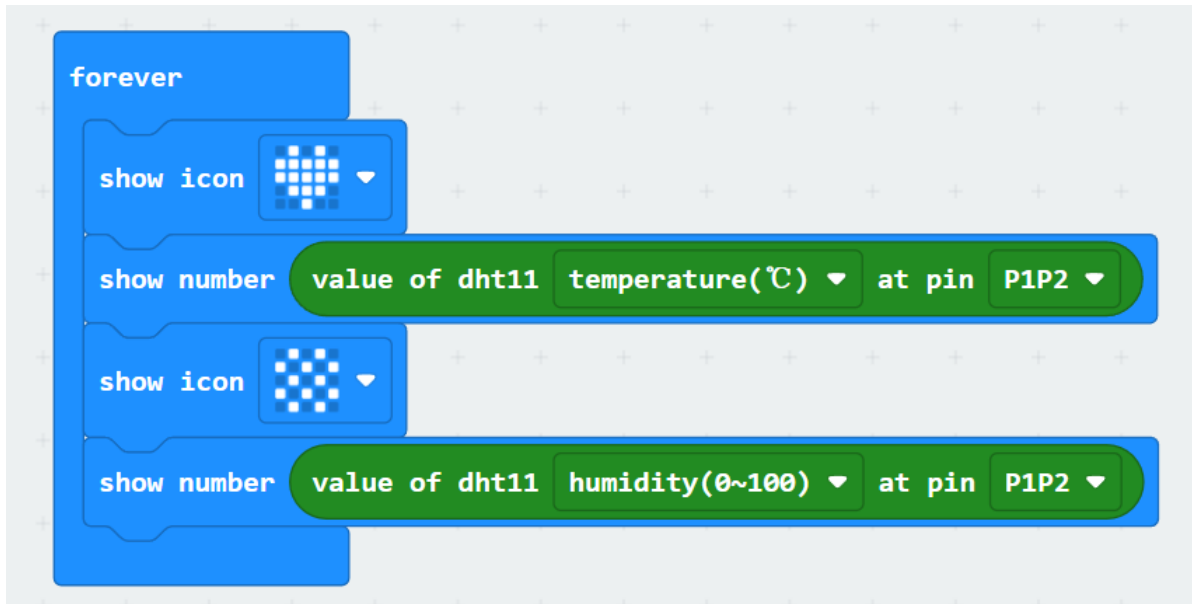
## 3.2 Building blocks used

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-temperature-humidity.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 dot matrix displays a heart, then the current temperature, then a chessboard, and then the humidity.