

1.2 Methods of Graphical online programming

1. First connect the micro:bit to the computer with the data cable. At this time, the computer will have a micro:bit U disk. Open the USB flash drive and click on the micro:bit URL as shown in Figure1-1 below to enter the micro:bit official website. You can enter this web address directly in your browser: <http://microbit.org/>.

名称	修改日期	类型	大小
DETAILS	2016/3/22 16:30	文本文档	1 KB
MICROBIT	2016/3/22 16:30	360 se HTML Do...	1 KB

Figure1-1

2. After successfully entering the URL, we can click on the English at the top right of the interface as shown in Figure1-2 below to switch the language of the entire interface.

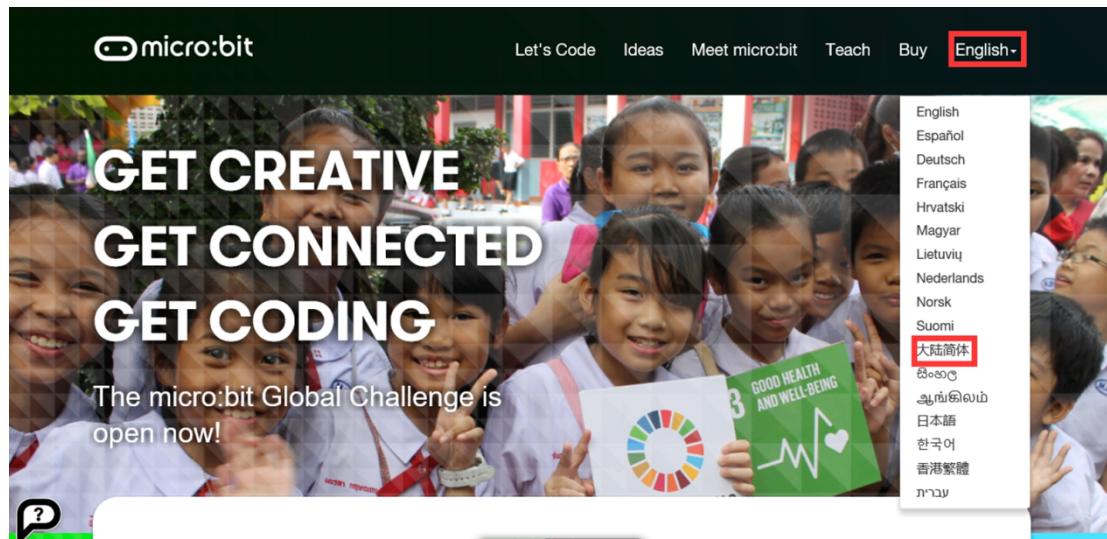


Figure1-2

3. If you don't need to switch languages, continue to click [Let's code] at the top of the interface shown in Figure 1-3. At this point we will enter a new interface.

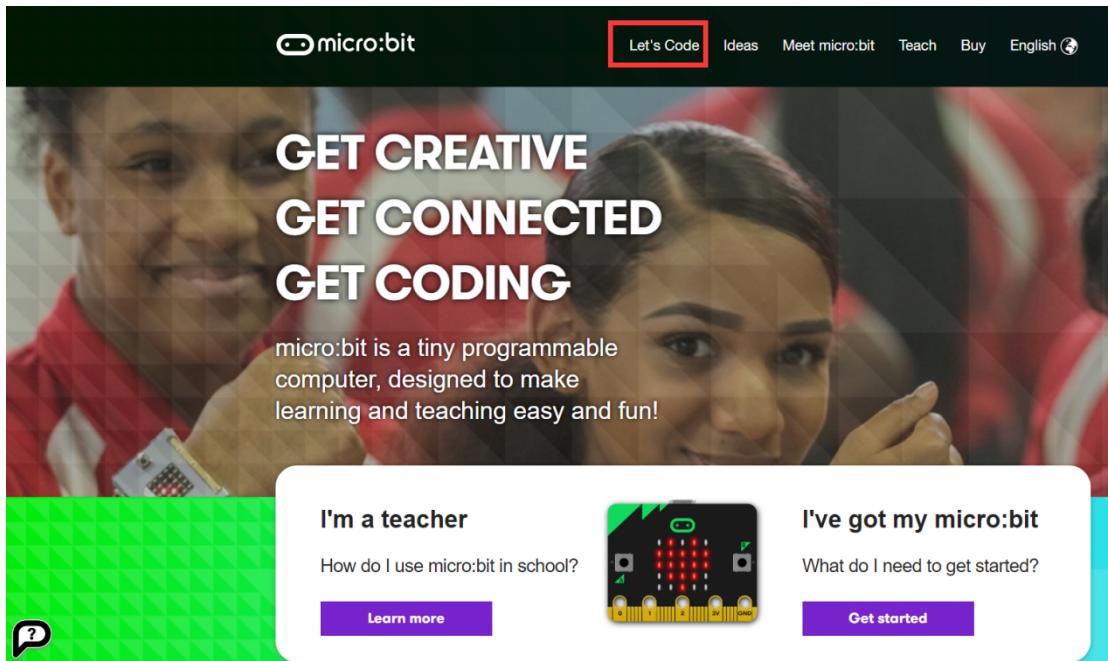


Figure1-3

4. After entering a new page, click [Let's code] at the bottom of the interface shown in Figure1-4 below, and you will be able to enter the MakeCode editor.

The screenshot shows the 'Let's Code' section of the micro:bit website. It features a green header with the text 'Power your imagination with code'. Below the header is a white callout box containing a small micro:bit icon and the text: 'Did you know that you can code your BBC micro:bit using Blocks, JavaScript, and Python? If you have never used a BBC micro:bit try our [Quick Start Guide](#).'. To the right of this is a large image of the Microsoft MakeCode editor interface. The editor shows a script for the micro:bit board, including an 'on start' block with 'show string "Hello!"' and 'show number 1', and an 'on:shake' block with a 'if' condition. The sidebar on the left lists categories like Basic, Input, Music, Led, Radio, Loops, Logic, Variables, Math, and Advanced. At the bottom right of the editor are buttons for 'Let's Code' (highlighted with a red border) and 'Reference'.

Figure1-4

5. After clicking, we will enter the interface shown in Figure1-5 below. We need to click [New Project] in the lower left corner to enter the MakeCode editor.

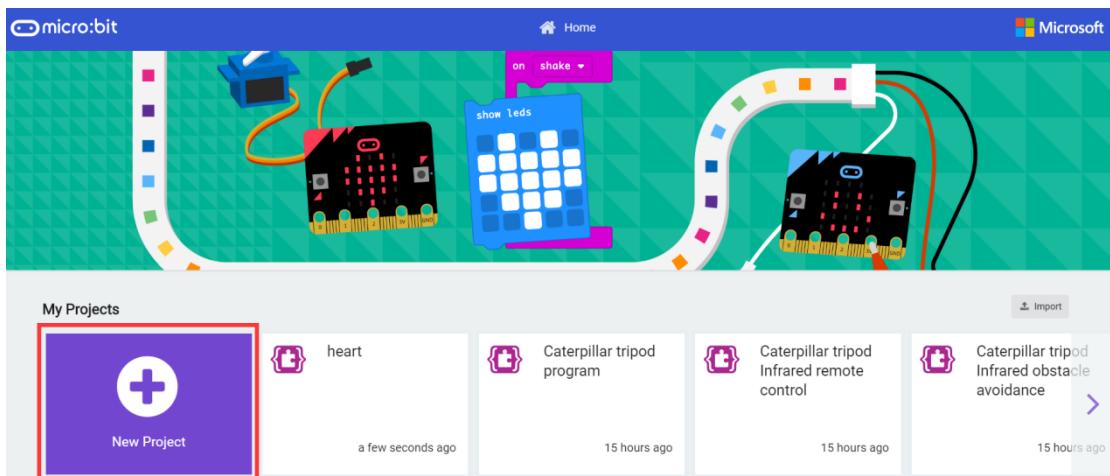


Figure1-5

6. The interface shown in Figure1- 6 below is the micro:bit online programming interface we need to use.

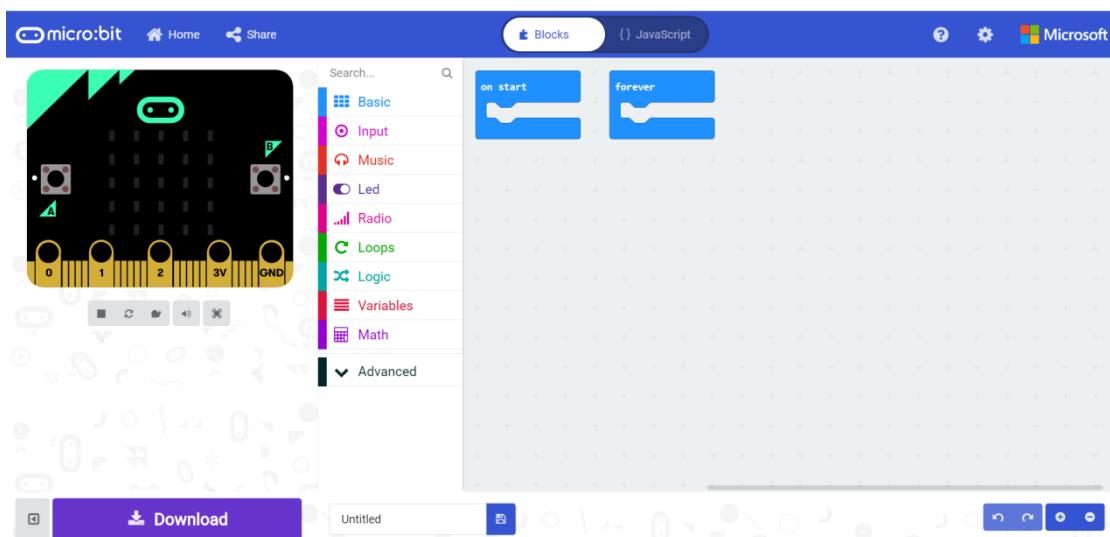


Figure1-6

7. We need to add the Yahboom package. In the interface shown in Figure 1-7 below, click [Advanced], then click [Extensions], an interface will pop up.

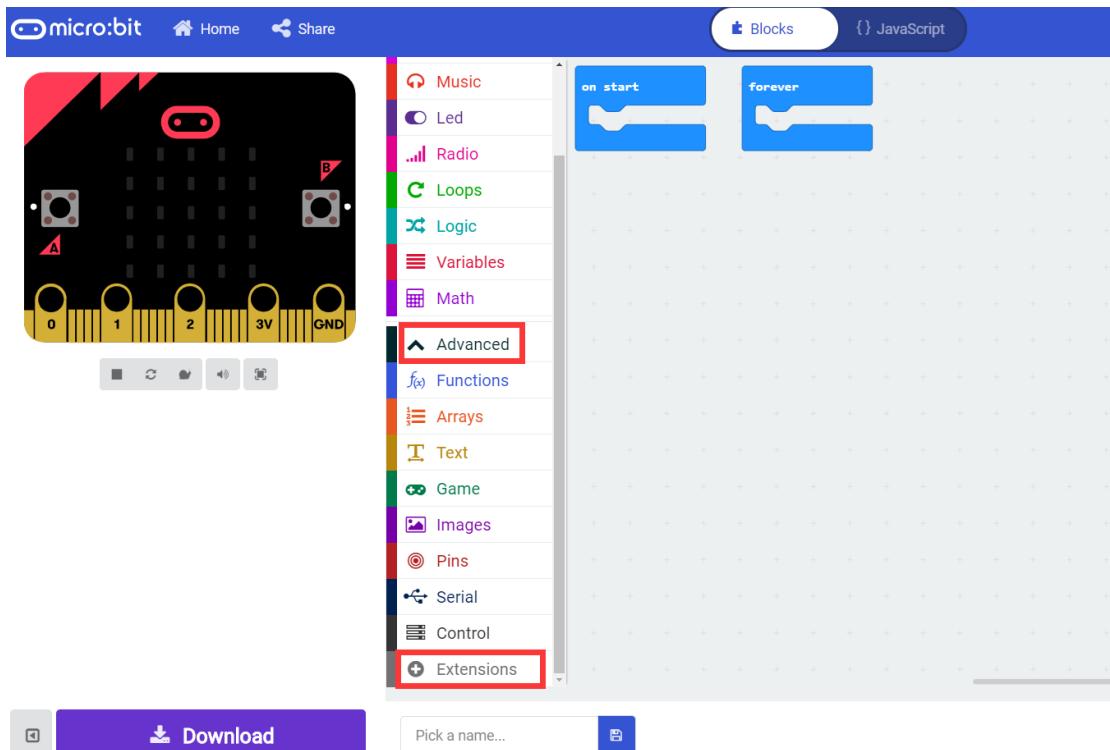


Figure 1-7

8. Enter the URL in the input field of the pop-up interface:

<https://github.com/lzty634158/SuperBit>. Then click the icon on the right or press the "Enter" key on the keyboard, as shown in Figure 1-8. You can search for the software Yahboom package, and then click piano, as shown in Figure 1-9, you can successfully add the software package.

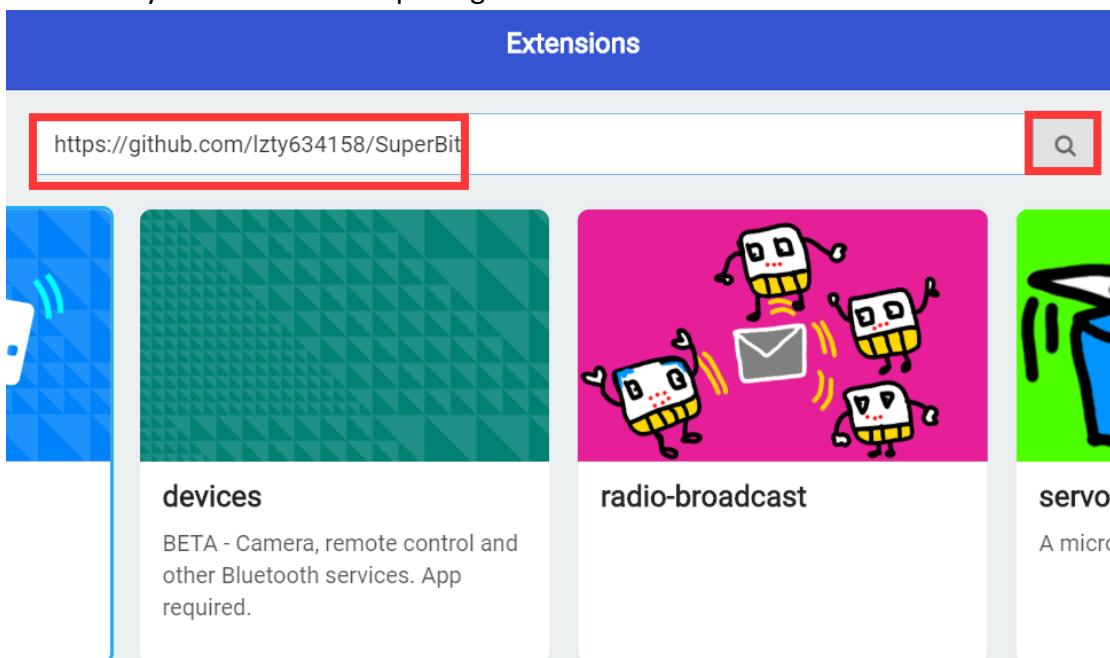


Figure 1-8

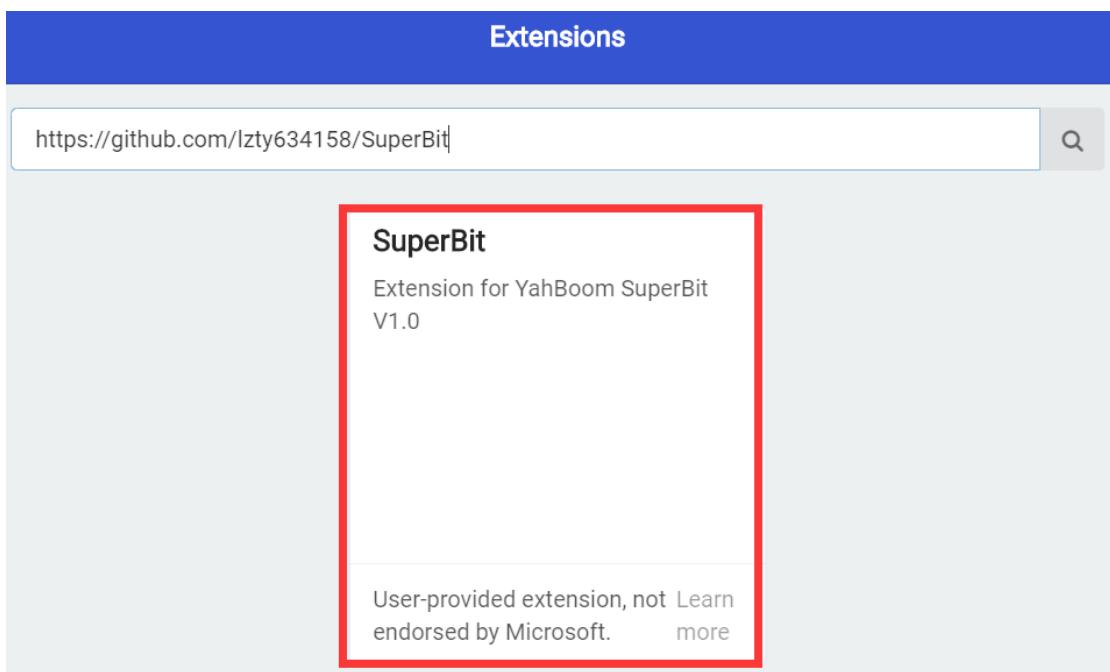


Figure 1-9

9. After loading the package, we can see that the program bar has loaded the building blocks made by Yahboom, as shown in Figure 1-10.

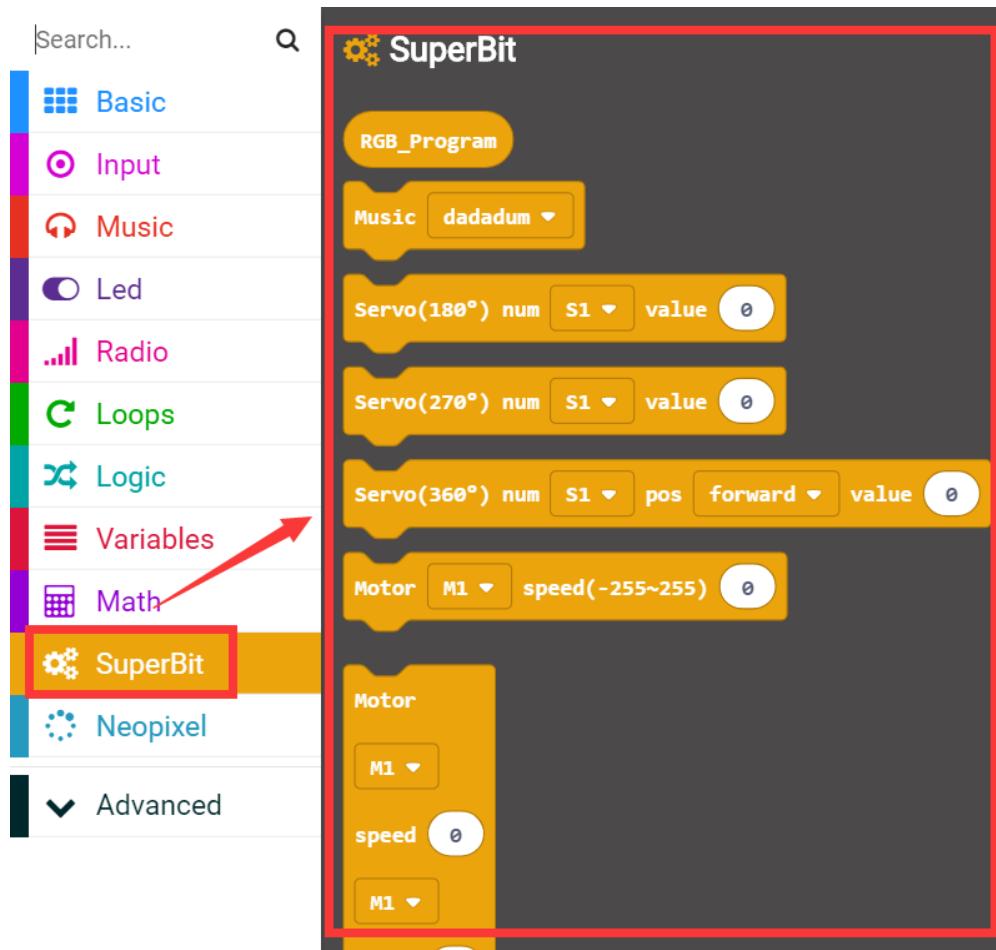


Figure 1-10

10. You can build your own building blocks for programming. After setting up the program blocks, we can set a name for the program, and then click 【Download】 to download the program, as shown in Figure 1-11. We can set the download path to a micro:bit U disk, or you can download it directly to your computer and copy it to the micro:bit U disk.

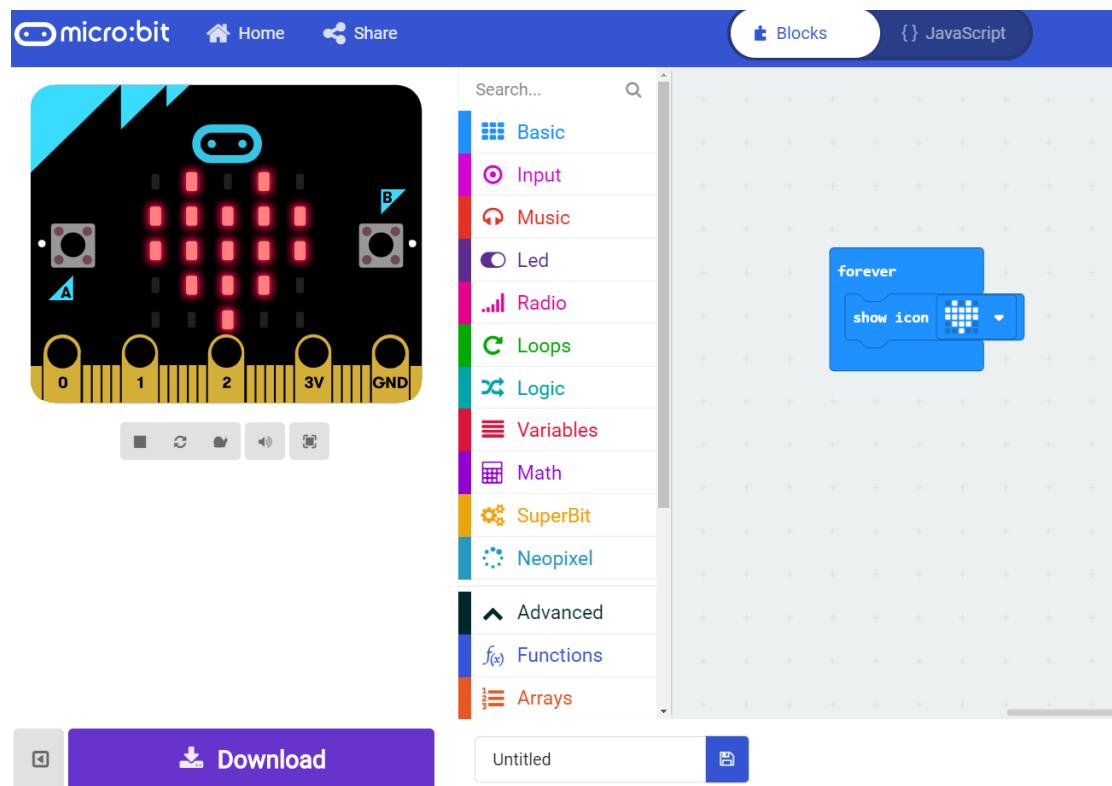


Figure 1-11

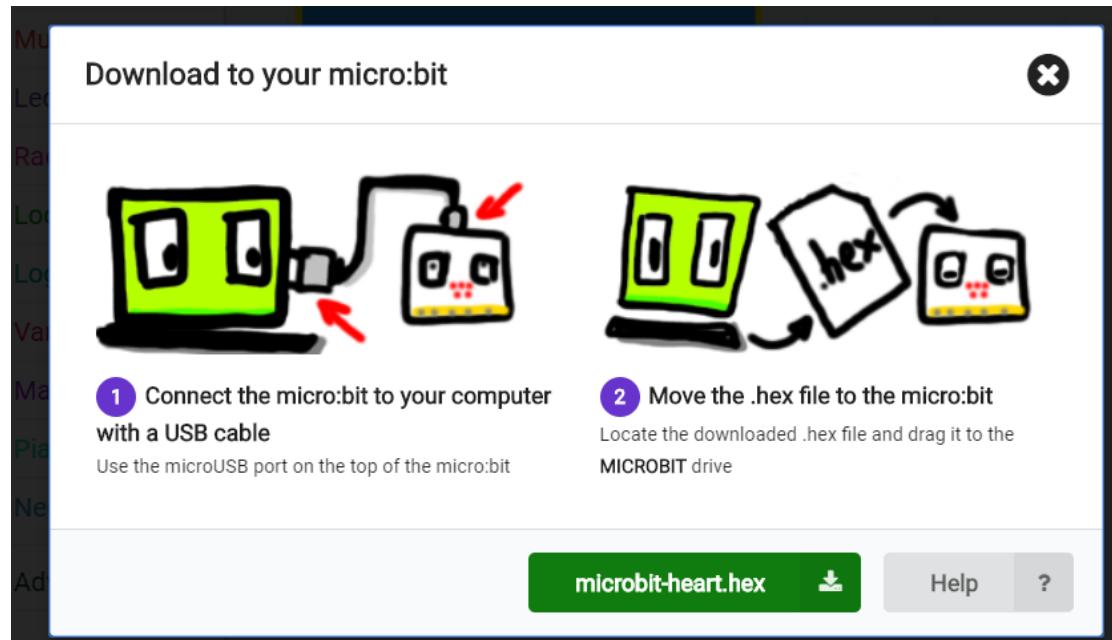


Figure1-12-1

This PC > Local Disk (C:) > Users > Administrator > Downloads

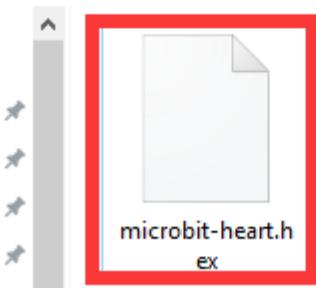


Figure1-12-2

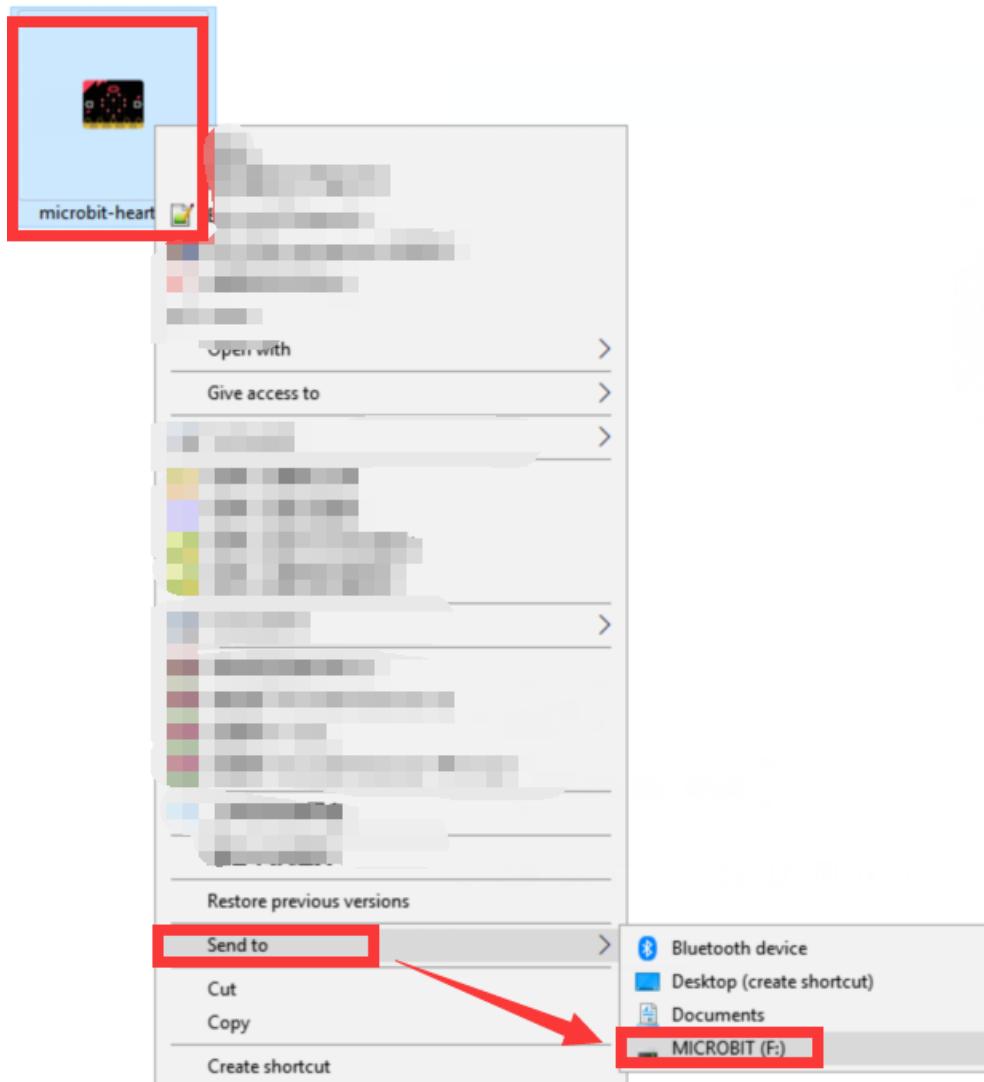


Figure1-12-3

11. During the download, the indicator light on the back of the micro:bit board will flash. After the download is complete, the indicator light stops flashing and we can see the corresponding experimental phenomena and effects.