

Play music

1. Purpose

In this course, we mainly learn to use micro:bit board drive passive buzzer.

2. Programming method

Mode 1 online programming:

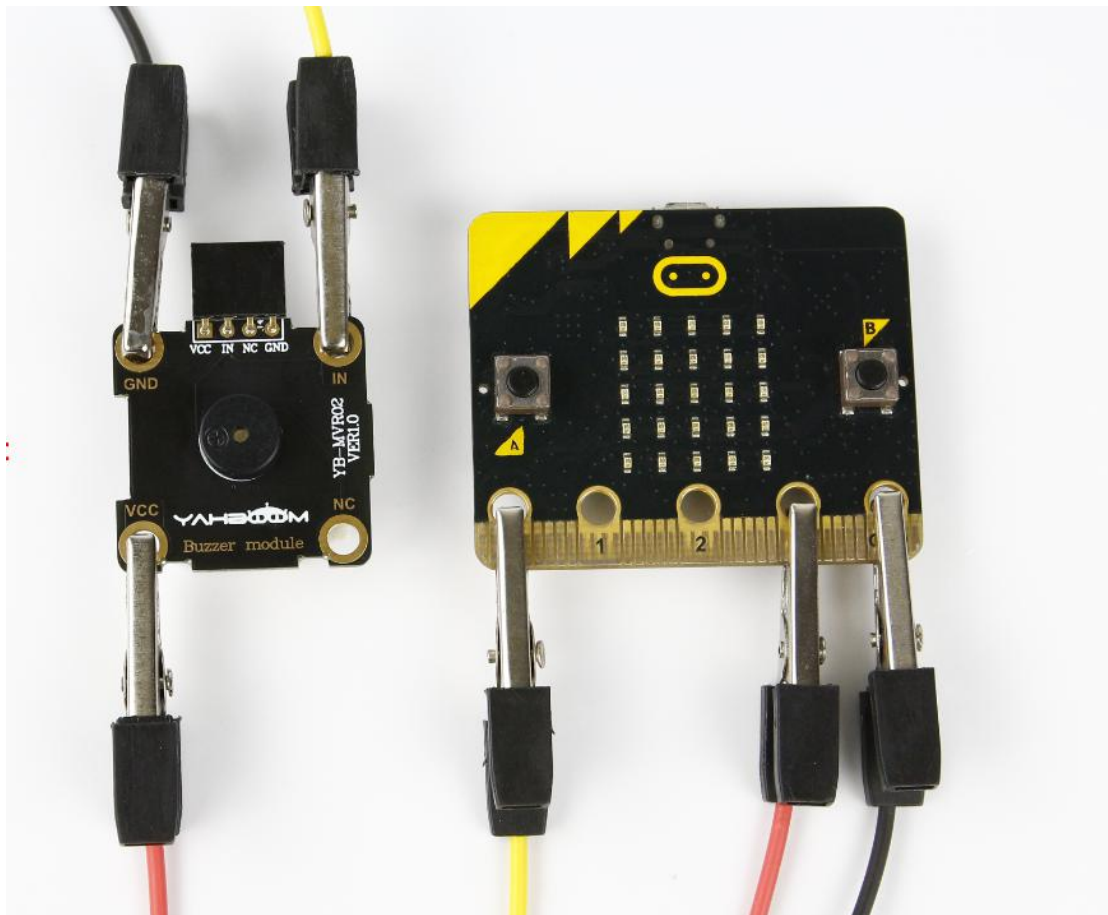
First, we need to connect the micro:bit to the computer by USB cable. The computer will pop up a USB flash drive and click on the URL in the USB flash drive:
<http://microbit.org/> to enter the programming interface.

Mode 2 offline programming:

We need to open the offline programming software. After the installation is complete, enter the programming interface, click[New Project]. you can start programming.

3. About wiring

Passive buzzer module	Micro:bit
IN	P0
VCC	5V
GND	GND



4. Combine building blocks

We need to use the following programming building blocks.

The first screenshot shows the 'Music' category selected in the block palette. The 'set tempo to (bpm) 120' block is added to the workspace. The 'start melody' block is added with the melody 'dadadum' and set to repeat 'once'.

The second screenshot shows the 'Basic' category selected. The 'show icon' block is added to the workspace.

The third screenshot shows the final program structure. The 'on start' block contains the 'show icon' block, the 'start melody birthday repeating forever' block, and another 'show icon' block.

5. Experimental phenomenon

After the program is downloaded successfully, micro:bit dot matrix will display music pattern, buzzer will play birthday song.