

Vibration game

1. Purpose

In this course, we mainly learn to use 2 micro:bit boards(micro:bit-1, micro:bit-2) and vibration motor module to realize vibration game.

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. Add the Yahboom package: https://github.com/lzty634158/Croco-Kit to start programming.

Mode 2 offline programming:

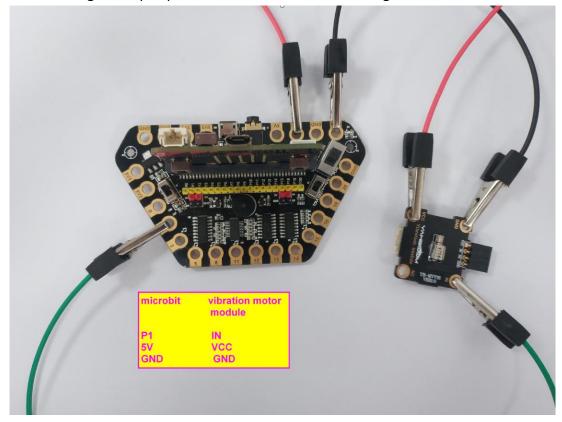
We need to open the offline programming software. After the installation is complete, enter the programming interface, click[New Project]. Add Yahboom package: https://github.com/lzty634158/Croco-Kit, you can start programming.

3. About wiring

We just connect module to micro:bit-1.

vibration motor module	Micro:bit-1
IN	P1
VCC	5V
GND	GND

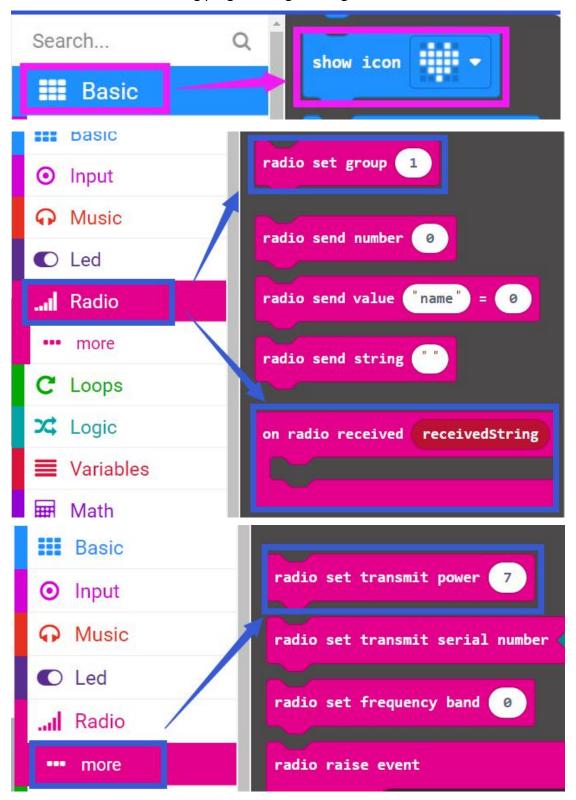
Note: Because the micro:bit cannot be directly connected to the module, we use the micro:bit alligator clip expansion board. As shown in the figure below.



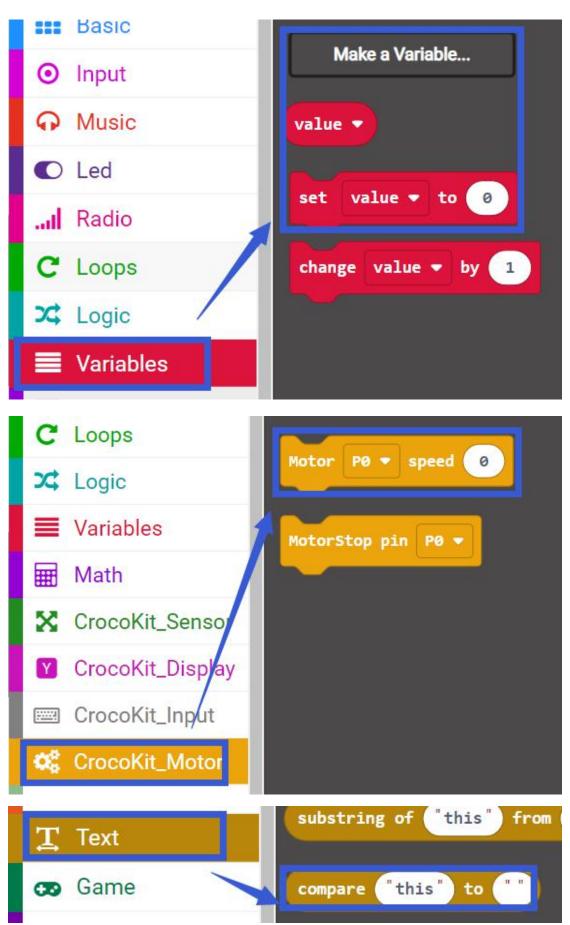


4. Combine building blocks

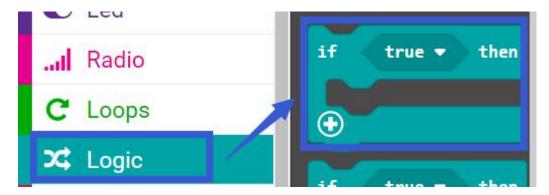
We need to use the following programming building blocks.



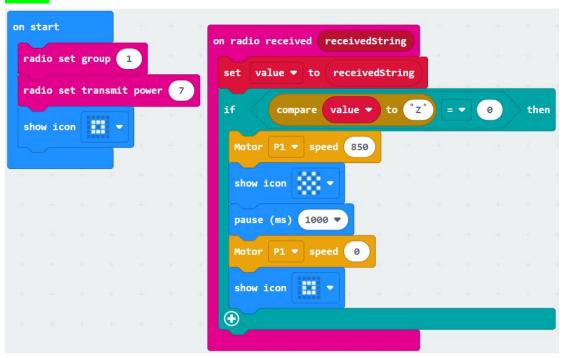




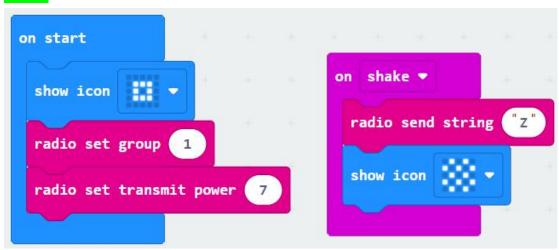




code-1



code-2



5. Experimental phenomenon



We need to download Vibration-game_1.hex into a micro:bit board-1, download Vibration-game_2.hex into another micro:bit board-2. After the program is downloaded successfully, when you shake micro:bit board-2, vibration motor module will shock.