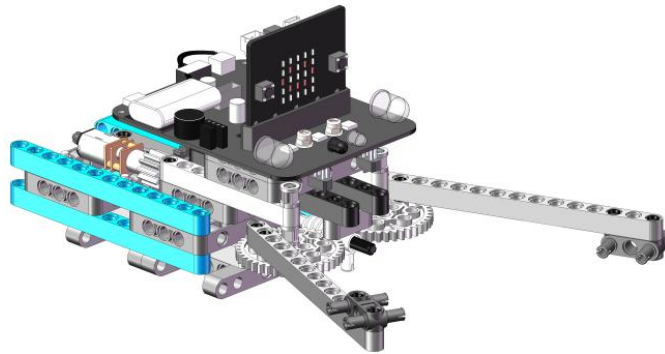


## Lesson1 Building:bit Mechanical Clip---“button control”



### 1.Experimental phenomena

After downloading the program, turn on the power switch of the Mechanical Clip, press the A button on the micro:bit main board, clamp is closed, press the B button on the micro:bit main board, clamp is opened, and press the A and B button,the motor is stopped.

### 2.Preparation before class

We needs to be ready:

Building Block Mechanical Clip\*1

USB data cable\*1

#### 2-1.Two programming methods:

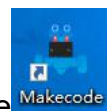
Online programming:

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

【Extensions】 , and copy the package URL:

[https://github.com/lzty634158/yahboom\\_mbit\\_en](https://github.com/lzty634158/yahboom_mbit_en) to the input field, and you can use the building blocks of the Yahboom software package.

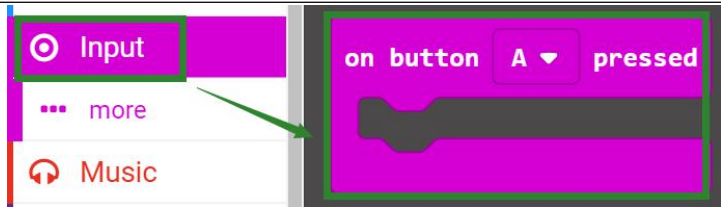
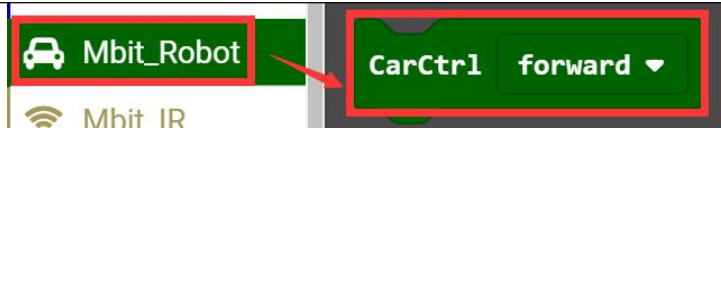
Offline programming:



Open the offline programming software [Makecode](#) , click to 【Extension】 and copy the package URL: [https://github.com/lzty634158/yahboom\\_mbit\\_en](https://github.com/lzty634158/yahboom_mbit_en) to the input field, and you can use the building blocks of the Yahboom software package.

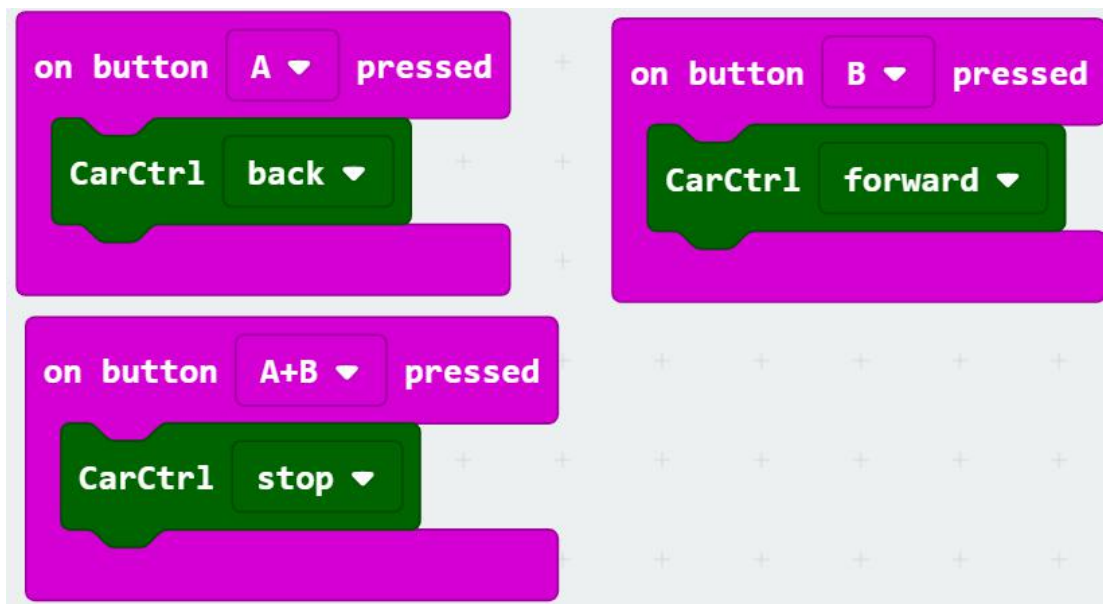
For detailed programming, please read the documentation before class 【1. Preparation before class】 ---- 【Introduction of programming method】 . We use micro:bit official website for online programming in here.

### 3.Studying blocks

Blocks	Instruction
	When the A button of the expansion board is pressed, the code inside will be executed.
	The car control forward represents the motor rotates in the positive direction and the car control back represents and the motor rotates in the opposite direction.

### 4.Programming

Next, we start write program to control Mechanical Clip, as shown below:



After writing, we need to download it to the micro:bit board.