

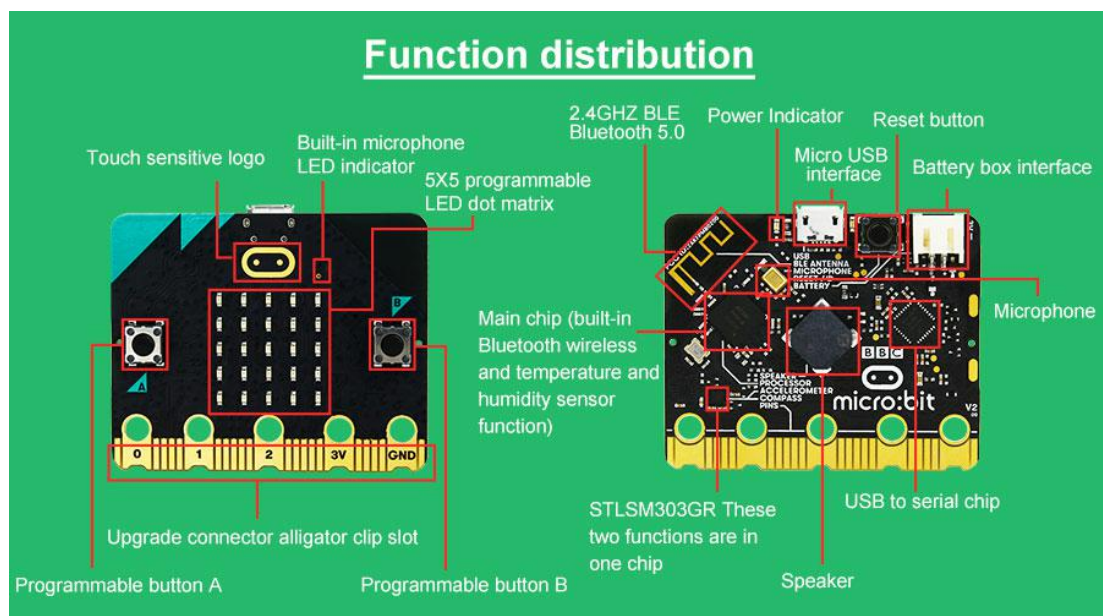
## 1. What is Micro:bit?

Micro:bit board is designed by BBC which aims to help children at or above 7 grade to learn programming better. Micro:bit board has abundant board resources, including a 5\*5 LED metric dot array, 2 programmable buttons, Compass, USB ports, Bluetooth module etc.. It is only pocket size but very powerful. You can programming, customize or control it as well.

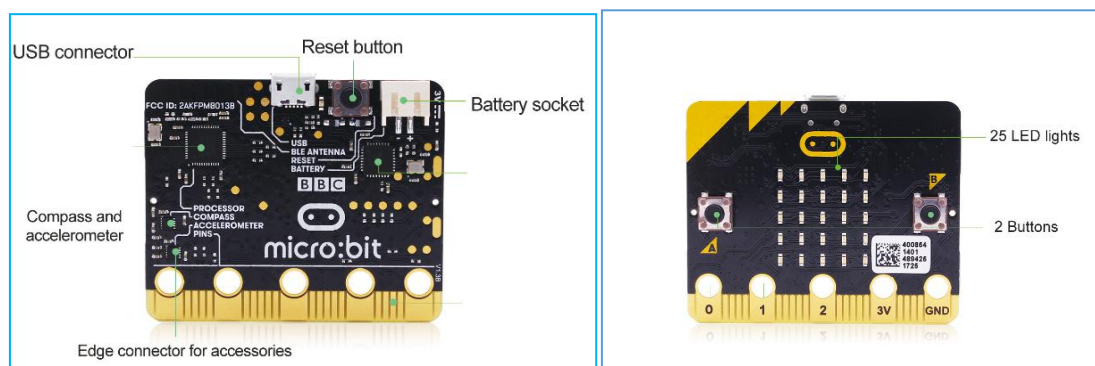
The latest Micro:bit V2 board comes with a touchable Logo and MEMS microphone on the front. A speaker is added on the back, so all kinds of sounds can be played without external equipment. The gold finger at the bottom adds a gear design to facilitate the user to better fix the alligator clip. In addition, the 2nd generation Micro:bit board also support sleep mode. Users can make it enter sleep mode by long pressing the reset button, which can reduce power consumption. The most important feature is that the CPU performance of the Micro:bit V2 board is much better than the V1 version, coupled with more RAM. So Micro:bit V2 allow users to expand more functions and create more creative works.

## 2. Introduction of Micro:bit hardware distribution diagram

Micro:bit V2 board

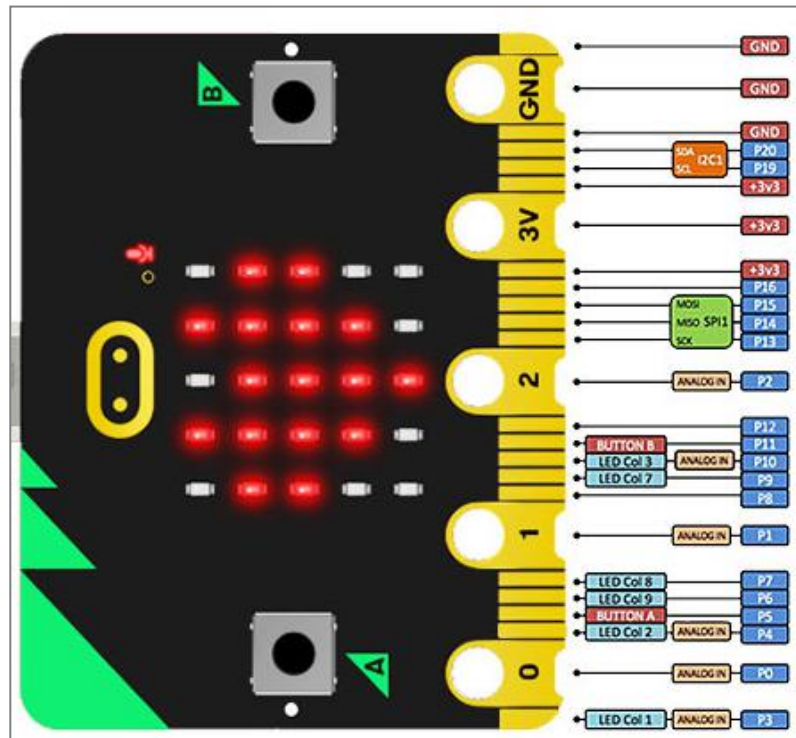


Micro:bit V1 board

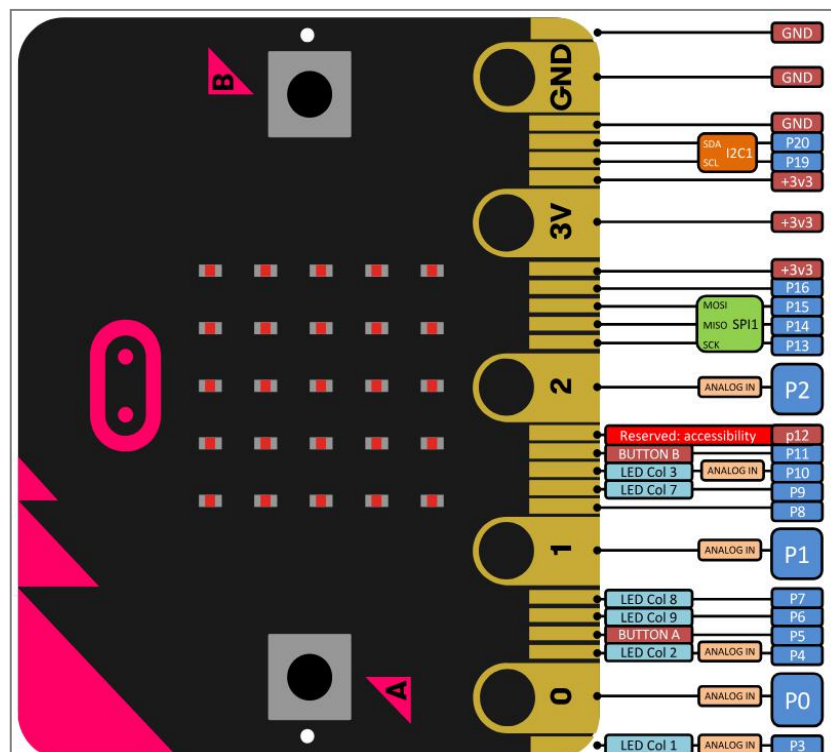


### 3. The function introduction of Micro: bit pin,as shown below.

Micro:bit V2 board

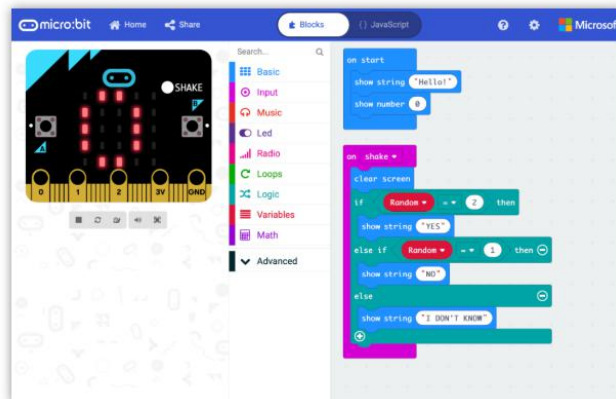


Micro:bit V1 board



The micro:bit is a tiny computer that makes coding tangible and promotes digital creativity.

About the programming environment, the BBC provides an online programming website <https://microbit.org/code/>, which has an easy-to-use graphical programmer MakeCode.



## MakeCode Editor

The MakeCode editor provided by Microsoft makes it easy to program your micro:bit with blocks and JavaScript. Find out more about the [latest features in MakeCode](#).

If you're having issues accessing the editor, or want to use it offline, [check out the FAQ](#).

Let's Code

Reference

Lessons

It also support Python programming.

## Python Editor

Our Python editor is perfect for those who want to push their coding skills further. A selection of snippets and a range of premade images and music give you a helping hand with your code. Powered by the global Python Community. Find out more about the [latest features in version 2 of the Python Editor](#).

Let's Code

Reference

