

Microbit è un mini computer. Puoi programmarlo e controllarlo per dare vita alle tue idee digitali.

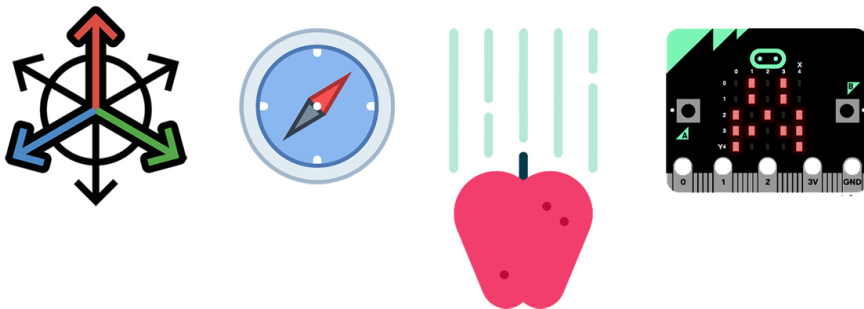
<https://www.microbit.co.uk/td/quick-start/>

SENSORI

Microbit è dotato di **accelerometro** a 3 assi, **magnetometro** 3D, leds e pulsanti.

È in grado di percepire il movimento, l'orientamento e la caduta libera.

Grazie al **bluetooth** integrato puoi utilizzarlo come telecomando per il tuo smartphone, o metterlo in comunicazione con un altro microbit e scambiare messaggi facendoli scorrere sul display a matrice di led.



PROGRAMMALO IN 30 SECONDI

Scegli il linguaggio con cui iniziare e accedi all'editor dedicato. Impara Javascript, MicroPython, Microsoft Blocks.

È adatto a tutte le età, dai 7 anni in su.

Lo programmi in un attimo dal web, utilizzando il tuo browser, da PC, tablet e persino dallo smartphone, grazie al bluetooth integrato.

You can use your BBC micro:bit for all sorts of cool creations, from robots to musical instruments - the possibilities are endless.

This little device has an awful lot of features, like 25 red LED lights that can flash messages.

There are two programmable buttons that can be used to control games or pause and skip songs on a playlist.

Your BBC micro:bit can detect motion and tell you which direction you're heading in, and it can use a low energy Bluetooth connection to interact with other devices and the Internet.

Software

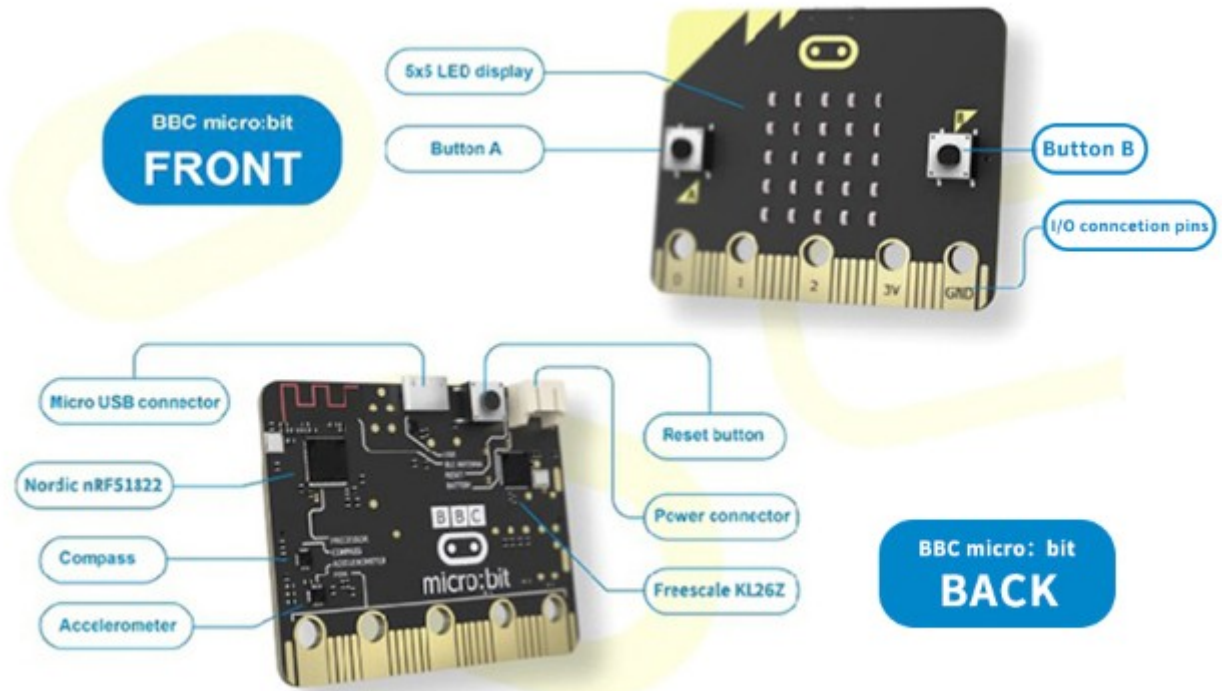
1. Supports Microsoft PXT graphical editor available on Windows, macOS, iOS and Android
online programming, needs no more compiler
download/debug your code on PC via USB
download/debug your code on mobile devices via Bluetooth
2. Supports multi popular languages like Javascript, Python, Mbed C, etc.
Microsoft TouchDevelop IDE
Microsoft Blocks
CodeKingdoms Javascript
MicroPython
mbed enable

Hardware

1. Nordic nRF51822
-16 MHz 32-bit ARM Cortex-M0 microcontroller
-Bluetooth 4.0 low energy/2.4GHz RF SoC
-16kB RAM
-256kB Flash
2. Freescale KL26Z - 48 MHz ARM Cortex-M0+ MCU
3. Compass - Freescale MAG3110 3-axis magnetometer, I2C interface
4. Accelerometer - Freescale MMA8652 3-axis accelerometer, I2C interface
5. Power connector - 3V power supply
6. Reset button - reset the system
7. Micro USB connector - for connecting PC, download code, serial communication, etc.

8. 5*5 LED display -5*5 LED grid
9. Button A/B * programmable buttons
10. I/O connection pins * 5 I/O rings and 20-pin edge connector, including SPI, UART, I2C, Analog, PWM, etc.
11. Dimensions - 5cm * 4cm





PINOUTS

