



Updating your micro:bit firmware

What is the micro:bit firmware?

Firmware is a special kind of software that makes devices function properly. You can think of it as the software that makes a machine behave the way it does. The micro:bit has two chips on the back of it; one of them runs your code, while the other one runs the firmware to enable you to program the device.

The micro:bit will work with the firmware it came with, so if you don't need to update it head back to our [guide to the micro:bit features](#).

There may be times when you may want to update the firmware to [test out new software features](#). If that's the case, this page will show you how to do it.

How to find out the current firmware version

Before you upgrade, you'll want to find out what version of the firmware you have on your micro:bit. **Plug it in via USB**, open up the **DETAILS.TXT** file from the **MICROBIT** drive and look for the number on the line that begins 'Interface Version'.

```
# DAPLink Firmware - see
https://mbed.com/daplink Unique ID:
9900000031634e4500624014000000320000000097969901

HIC ID: 97969901
Auto Reset: 1
Automation allowed: 0
Overflow detection: 0
Daplink Mode: Interface
Interface Version: 0249
Git SHA:
682d8303e37355532402b8d93c4f240a3cec02a9
Local Mods: 0
USB Interfaces: MSD, CDC, HID, WebUSB
Interface CRC: 0x3f2b7e12
Remount count: 0
URL: https://microbit.org/device/?
```

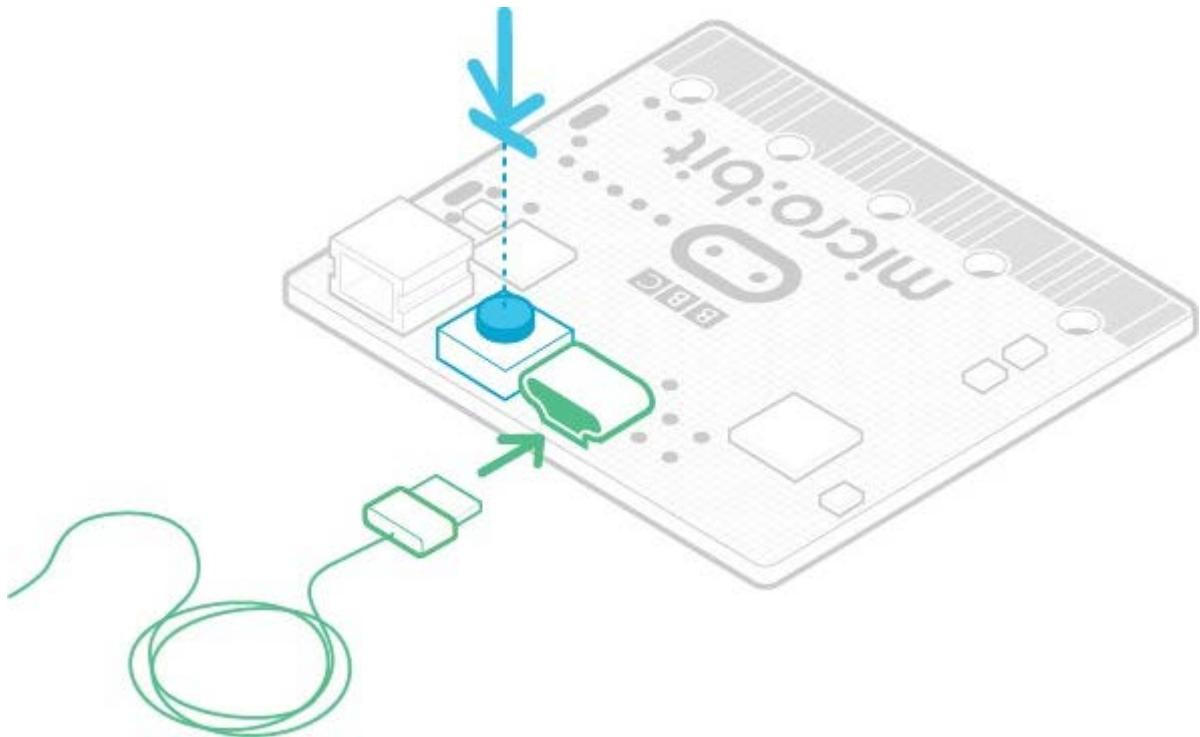
[id=9900&v=0249](#)

How to update the firmware

1. Download the hex file from this page to your computer.

[Download the latest micro:bit firmware](#)

2. Then with the battery pack removed and a USB lead connected to your computer, hold the reset button at the back of the micro:bit and plug the USB lead into the device. You should see a drive appear in your file manager called **MAINTENANCE**.



3. Drag and drop the .HEX you downloaded from this page onto the micro:bit and wait for the yellow system LED on the back of the device to stop flashing. When the upgrade is completed, the micro:bit will reset, ejecting itself from the computer and re-appear in normal **MICROBIT** drive mode.
4. Finally, check the **DETAILS.TXT** file that is on the **MICROBIT** drive and make sure that it has the same version number as the .HEX firmware that you just downloaded and flashed to the interface chip.

Previous firmware versions

Should you wish to roll back the firmware for any reason, you can download a previous version

here.

version 0241

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micro:bit community

Know more about the Micro:bit
Educational Foundation

Read the latest news

See impact and evaluation

I am a...

Student

Teacher

Developer

Policy Maker

Robot

I would like to be a...

Accessory Maker

Reseller

Global Challenger

Part of the Foundation



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