Get started with the Micro:bit
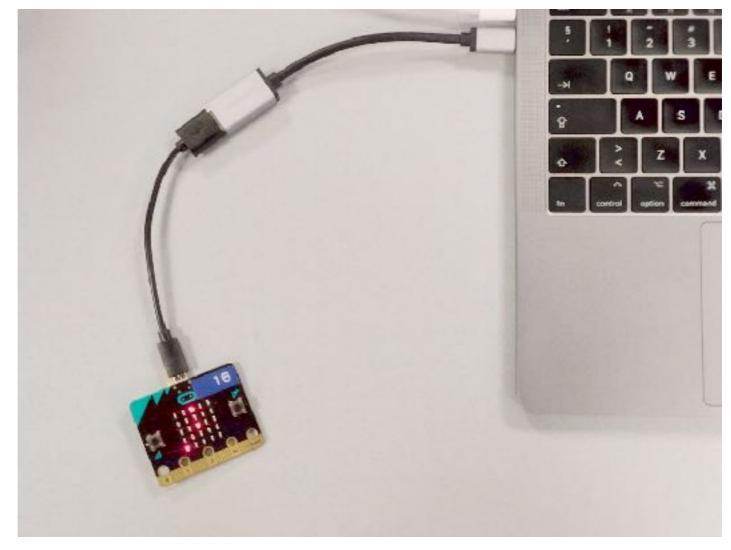
The Micro:bit

Display, 5x5 pixels

Light meter

Button A

Button B

Connections (P0-P2)   3V   Ground

Reset

Bluetooth-
Antenna   Micro-USB

3V
Power supply

Processor,
Temperature

Compass

Accelerometer

Connect

When you connect the micro:bit with the USB cable, a drive named MICROBIT should appear. Sometimes you have to disconnect from time to time before it appears.

Firmware

For efficient code transfer and other features, you should have the latest firmware version. This is updated about once a year.

Check the DETAILS.TXT file located on the MICROBIT disk.

If the "interface version" is older than 0253, you should upgrade the firmware.

DAPLink Firmware - see https://mbed.com/daplink
Unique ID: 9901000052284e450066300c0000005700000000097969901
HIC ID: 97969901
Auto Reset: 1
Automation allowed: 0
Overflow detection: 0
Daplink Mode: Interface
Interface Version: 0253
Bootloader Version: 0243
Git SHA: 64359f5c786363065a41ec15c348e3d53568da03
Local Mods: 0
USB Interfaces: MSD, CDC, HID, WebUSB
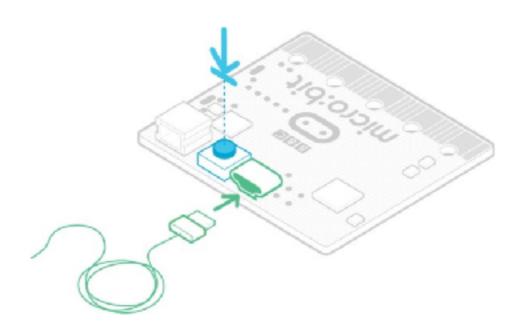Bootloader CRC: 0x32eb3cfd
Interface CRC: 0x53375800
Remount count: 0
URL: https://microbit.org/device/?id=9901&v=0253

Upgrading is easy: Hold reset while connecting the micro:bit to the PC
And you will get up a station called MAINTENANCE.
For this, copy the latest version of firmware. You can find this file at
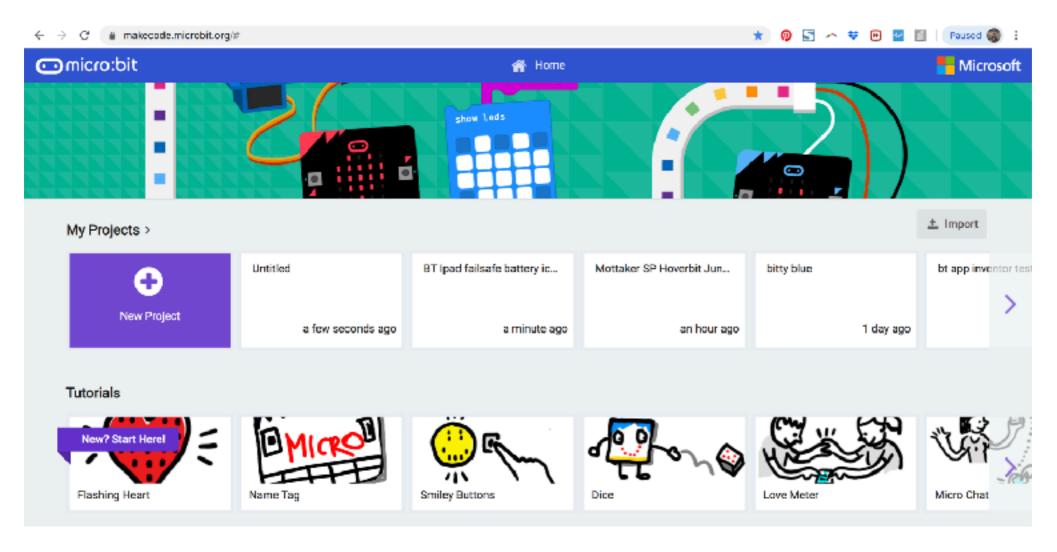https://microbit.org/guide/firmware/
For example 0253_kl26z_microbit_0x8000

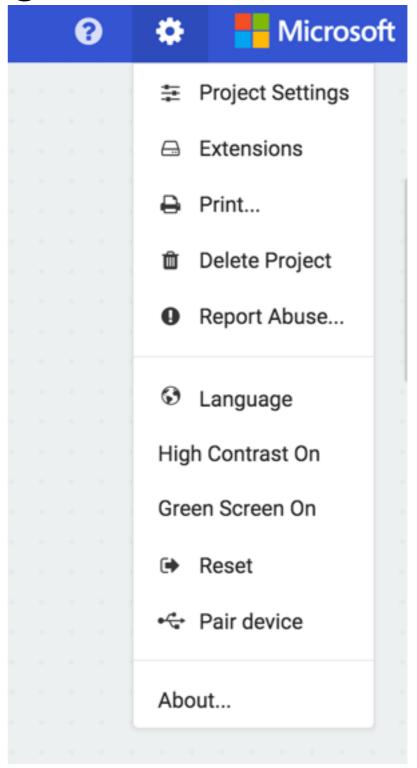The coding tool can be found at makecode.microbit.org
You need to use Chrome as your browser for full functionality

You start a new project by pressing "New project".
Below you will find many good interactive tasks you can try.
The simplest can be found on the far left.

Configuration of language

In this guide, we use English as a code language. Click on the gear, select "Language" or "Language" to change the language.
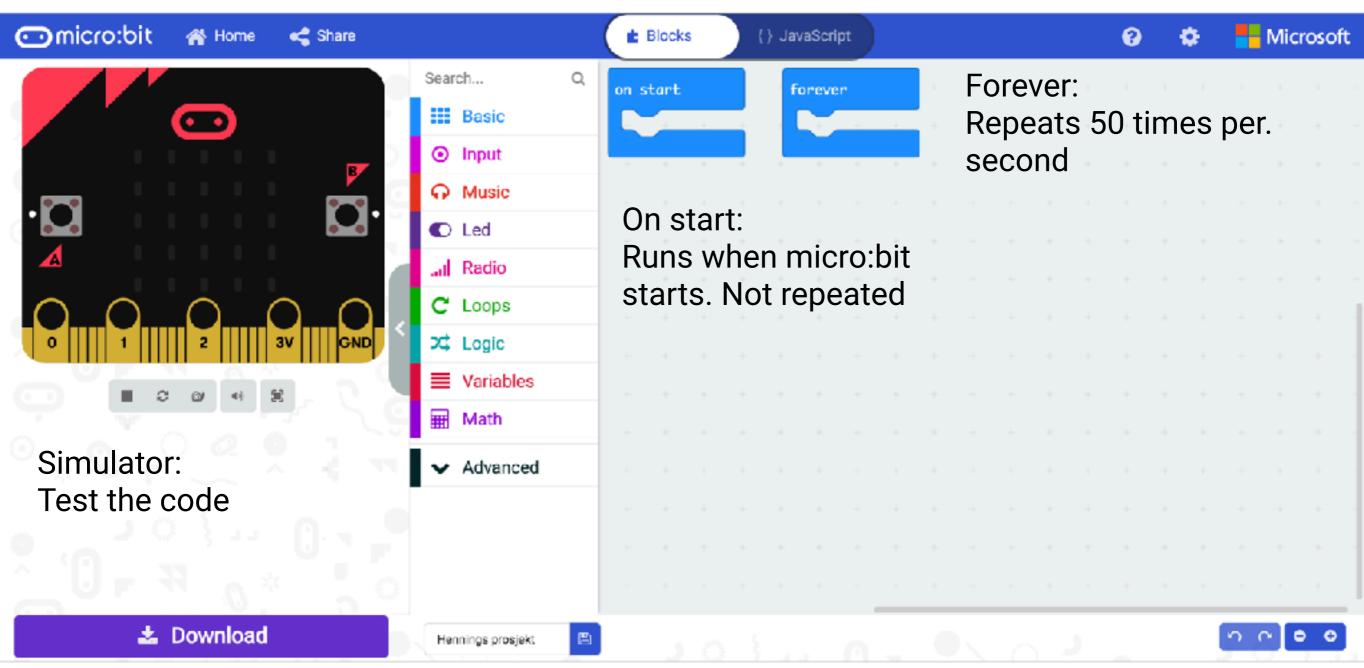
Coding

Explore code files

microbit.org   Share the code   Blocks   Javascript   Settings

Forever:
Repeats 50 times per.
second

On start:
Runs when micro:bit
starts. Not repeated

Simulator:
Test the code

Download to micro:bit   Local save on the computer (backup)   Back   Zoom
(The file can not be used   Name your project
later)

Get ready to upload your code

Once you have created a code, it is time to upload it to micro: bit. There are three ways to upload your file from Chrome:
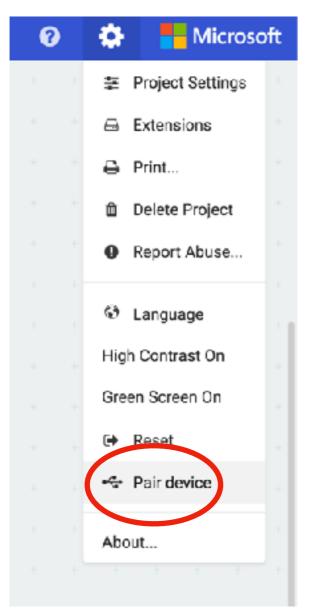1. Direct transfer with pair device (fastest)
2. Download file directly from Chrome.
3. Download to PC and transfer manually

We recommend that you use method 1 or 2 as described on the following pages.
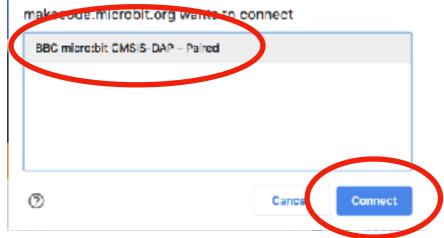
Connect micro:bit for fast transfer

Get the fastest transfer by pairing micro:bit with Chrome:

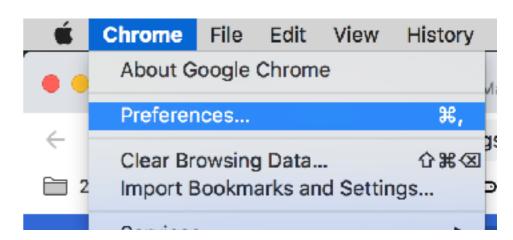1. Press the gear and "Pair device"

2. Click on "Pair device" again

3. Select the device "BBC Microbit CMSIS…" and press "Connect"
Check for confirmation "Device paired!…"

Set browser to download directly to micro: bit

If you have problems with the pairing, you can set your browser to download directly to micro:bit
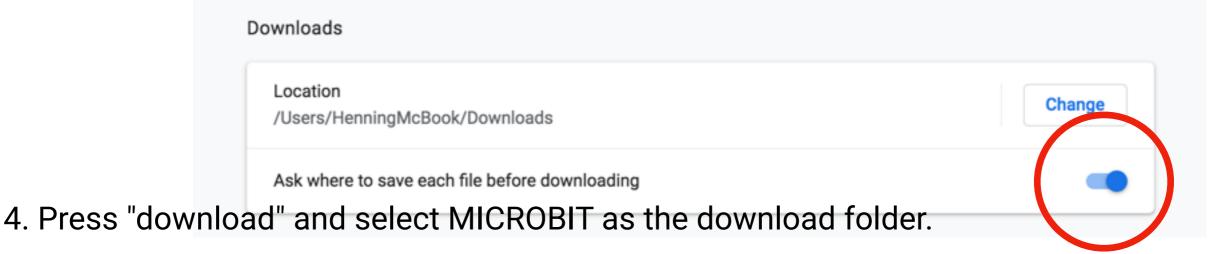
1. Choose "preferences"

2. Click on "Advanced"

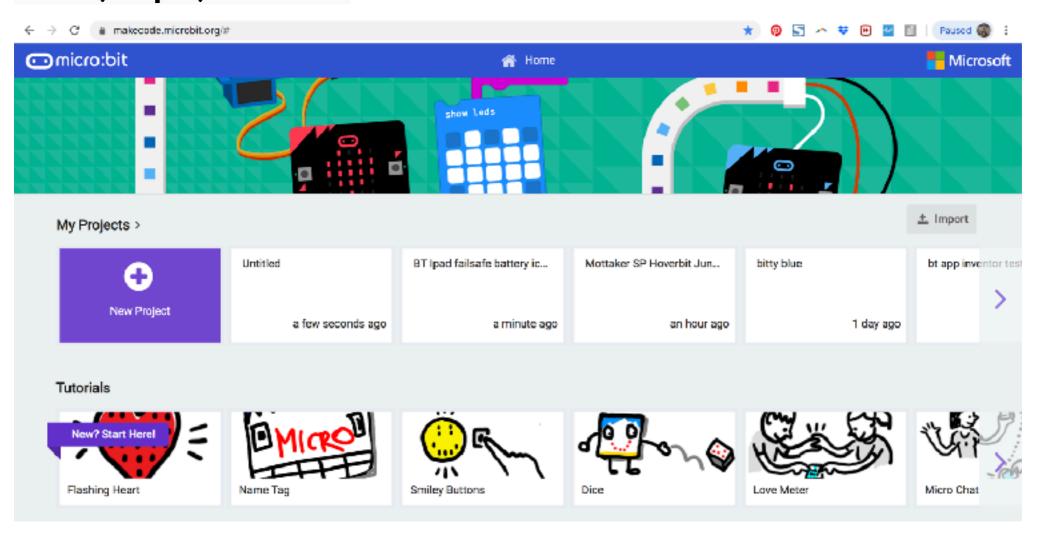3. Activate "Ask where to save each file

4. Press "download" and select MICROBIT as the download folder.

Do an interactive task

Select a tutorial from the home page. If you are in the code editor, click on "microbit" at the top left. We recommend **"Flashing heart"** and **"Rock, Paper, Scissors"**
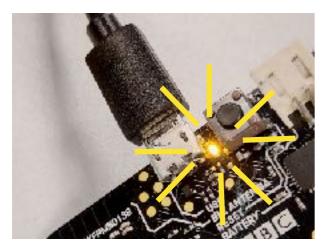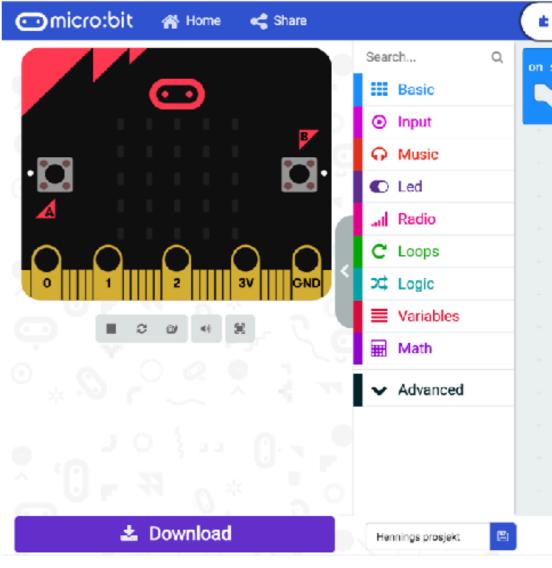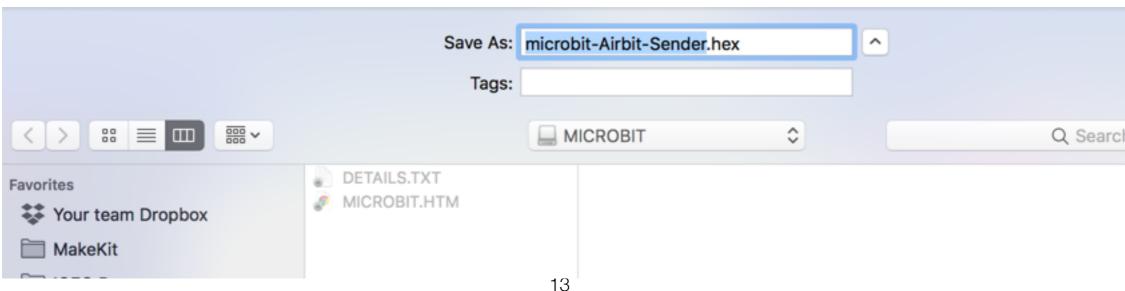
How to download

Click "Download" and follow the yellow light on the back of the micro:bit. It should flash while the code is being transferred. If you have not paired the device, you may need to select MICROBIT as the download folder and click OK
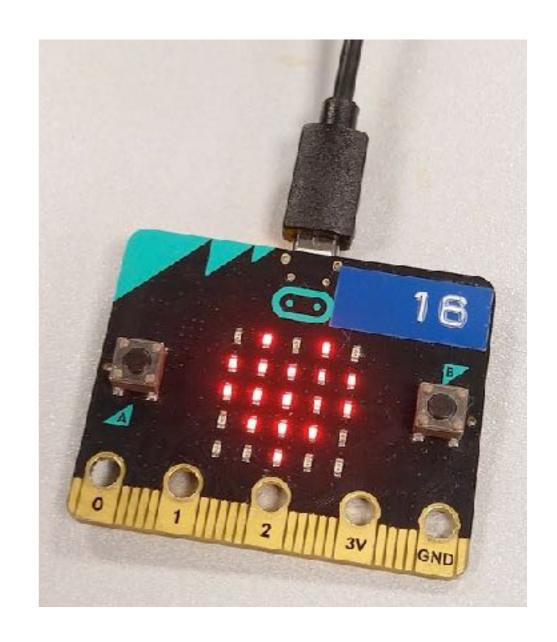
Test the code

Test if your code works on the micro:bit.

Remember that the light on the back of the micro: bit should always flash while you are transmitting the code.

If not, you still have old code on your device.

Contact: