

# Scratch with Micro.bit

## System Requirements

PC (Windows 10) or Mac (macOS 10.13) or ChromeOS

Bluetooth

Broadband internet

Webcam

Microphone and Speakers

# Scratch Account

Please register an account for your children at

[www.scratch.mit.edu](http://www.scratch.mit.edu)

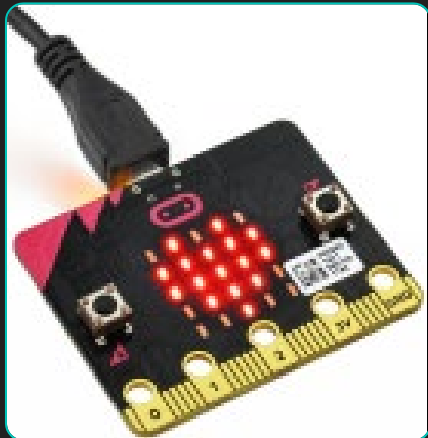
# Micro.bit

## Components required

- Please go to <https://scratch.mit.edu/microbit>


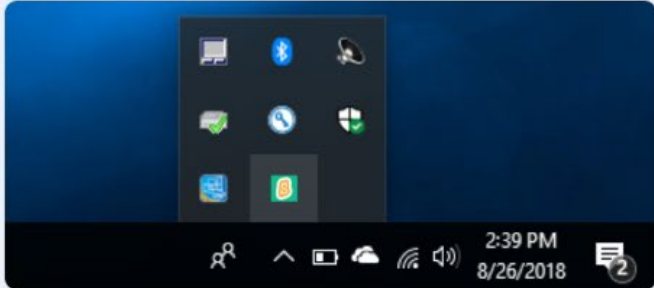
### Install Scratch Link

- Micro:bit board
- USB cable



Choose your OS: [Windows](#) [macOS](#) [ChromeOS](#) [Android](#)

## Install Scratch Link

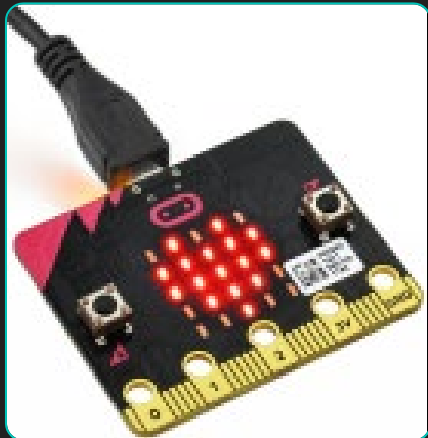
- 1 Download and install Scratch Link.  
  
or  
[Direct download](#)
- 2 Start Scratch Link and make sure it is running. It should appear in your toolbar.  


# Components required

- Please go to <https://scratch.mit.edu/microbit>

## Install Scratch Link

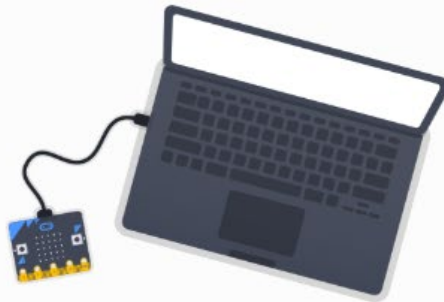
- Micro:bit board
- USB cable



## Getting Started

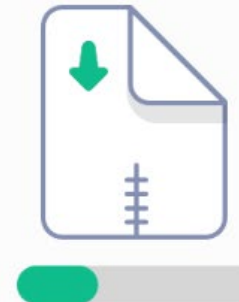
### Install Scratch micro:bit HEX

1



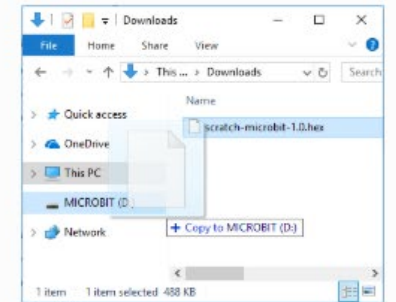
Connect a micro:bit to your computer with a USB cable

2



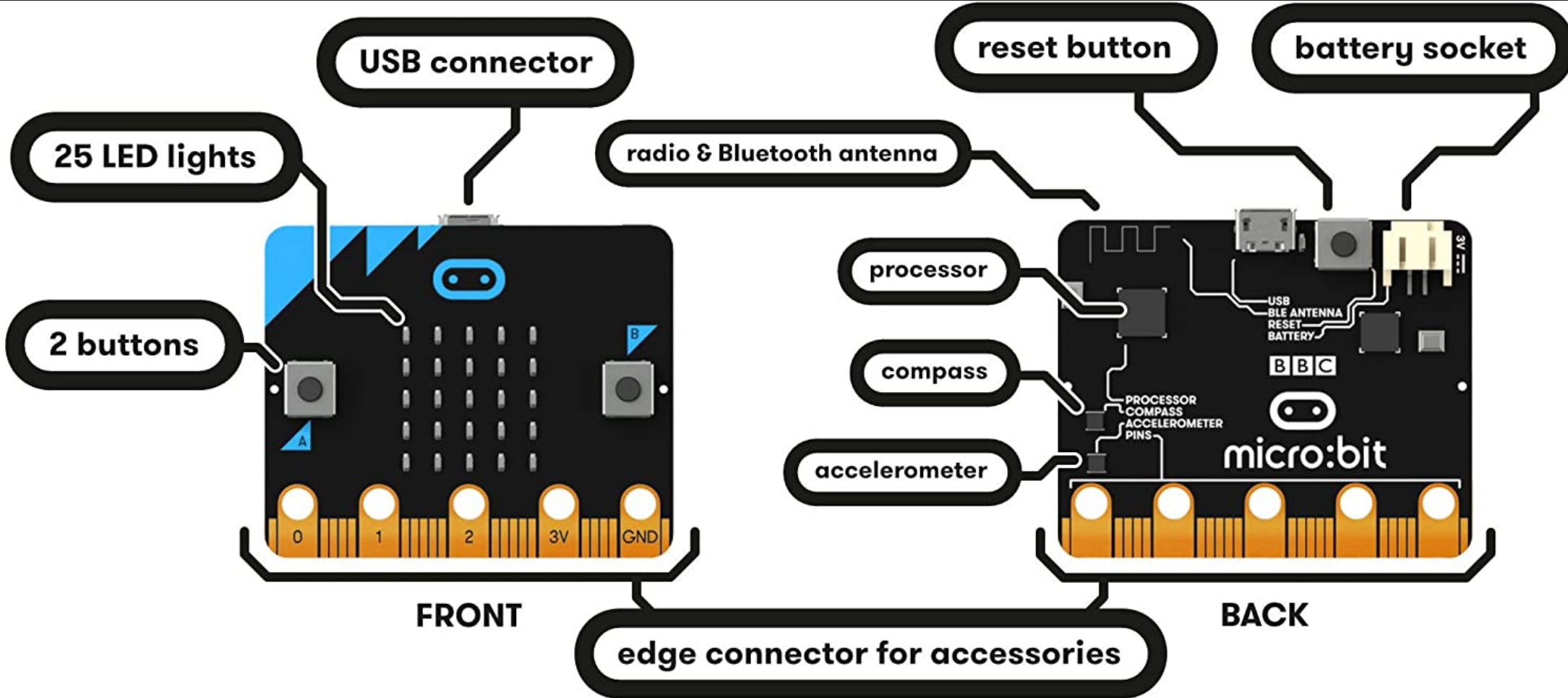
Download the Scratch micro:bit HEX file [↓](#)

3



Drag and drop the HEX file onto your micro:bit

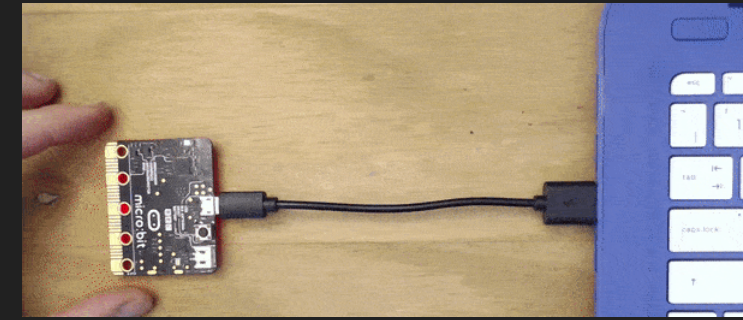
# Get familiar with your Micro.bit





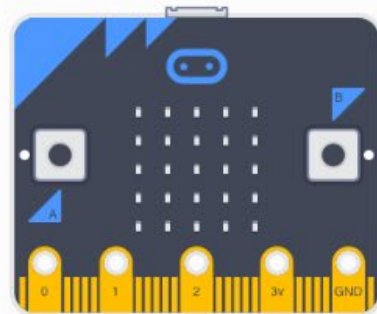
# Connect it

Connect the micro:bit to your computer via a micro USB cable.



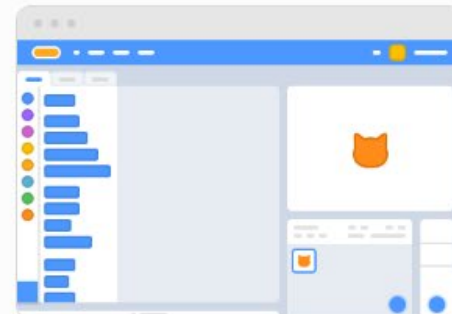
## Connecting micro:bit to Scratch

1



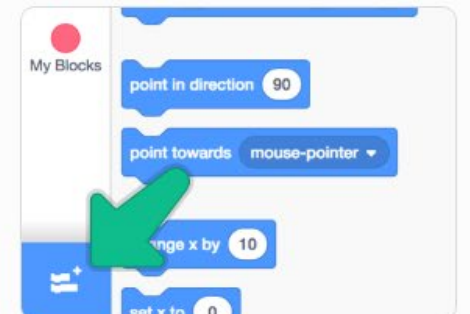
Power your micro:bit with USB or a battery pack.

2



Use the [Scratch](#) editor.

3



Add the micro:bit extension.

# Time to code

- Go to <https://scratch.mit.edu>
- Find Micro.bit extensions

The screenshot displays a grid of Scratch extension cards. Each card features an icon, a title, a brief description, and a 'Requires' section with a Wi-Fi icon. The extensions shown are:

- Music:** Play instruments and drums.
- Pen:** Draw with your sprites.
- Video Sensing:** Sense motion with the camera.
- Text to Speech:** Make your projects talk. Requires Collaboration with Amazon Web Services.
- Translate:** Translate text into many languages. Requires Collaboration with Google.
- Makey Makey:** Make anything into a key. Requires Collaboration with JoyLabz.
- micro:bit:** Connect your projects with the world. Requires Collaboration with micro:bit.
- LEGO MINDSTORMS EV3:** Build interactive robots and more. Requires Collaboration with LEGO.

The screenshot shows the Scratch code editor interface with the 'micro:bit' extension category selected. The left sidebar lists categories: Motion, Looks, Sound, Events, Control, Sensing, Operators, Variables, and My Blocks. The 'micro:bit' category is expanded, showing the following blocks:

- when A button pressed
- A button pressed?
- when moved
- display
- display text Hello!
- clear display
- when tilted any
- tilted any?
- tilt angle front

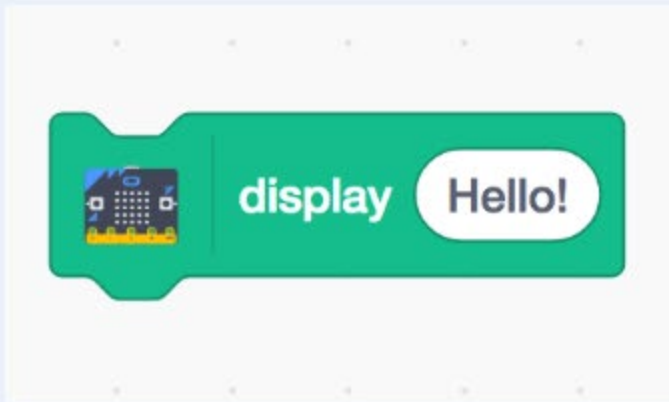
# Hello! To Micro.bit

## Things to Try

### Display “Hello!”

1

Find the “**display hello**” block and click on it.



2

You should see “**hello**” scroll across the micro:bit display

