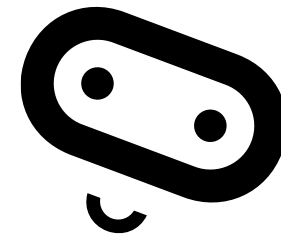
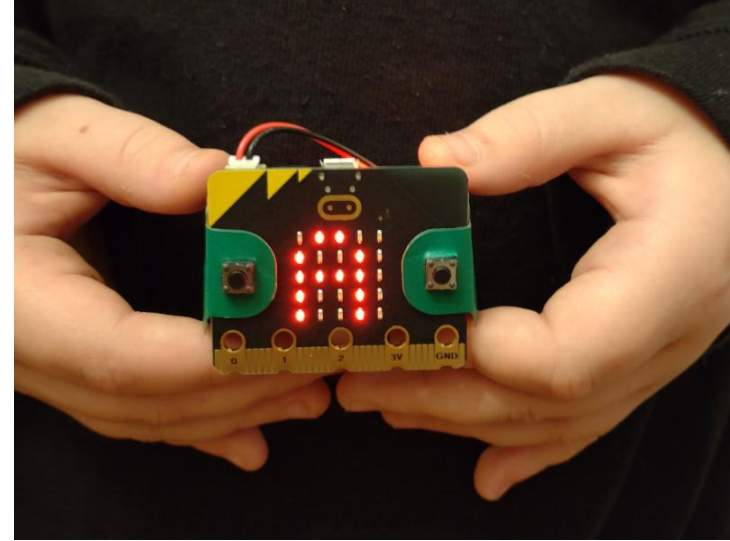




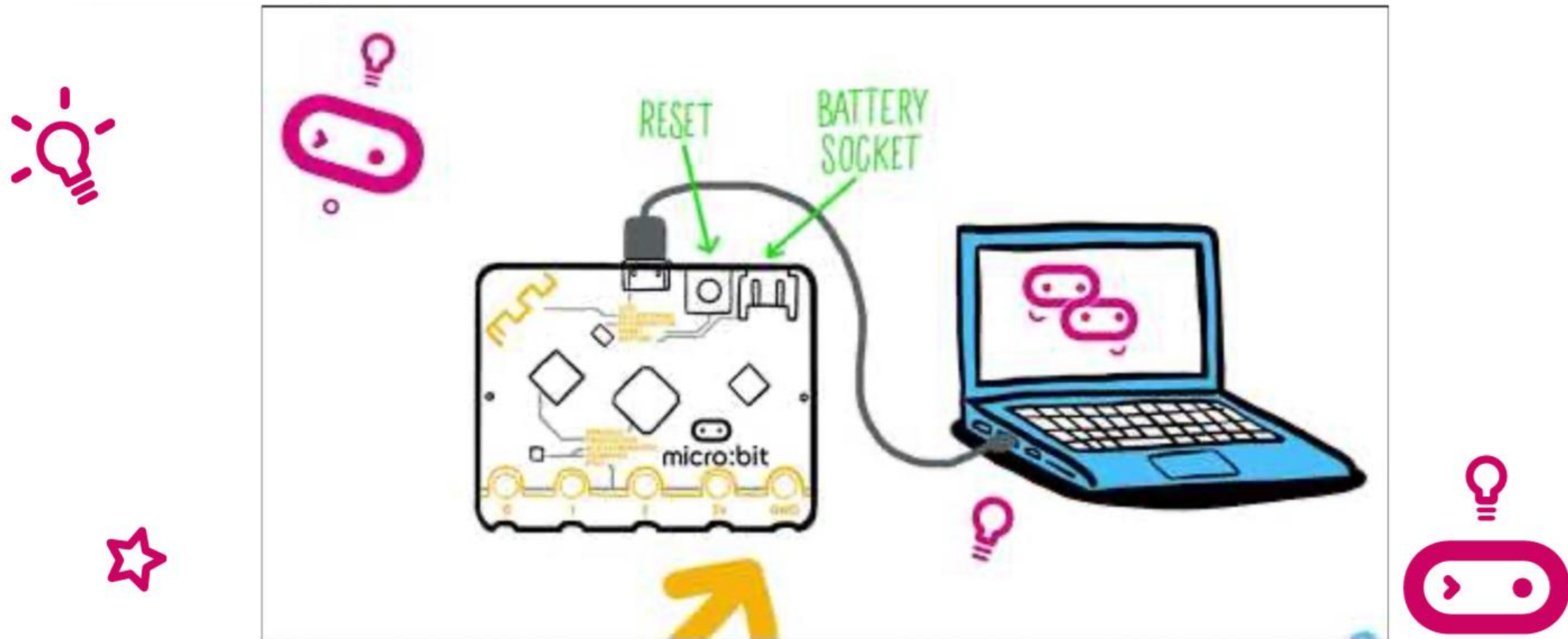
micro:bit

First lessons with MakeCode
and the micro:bit

Lesson 1 Name



Introducing The Micro:bit



Watch this video. <https://www.youtube.com/watch?v=FfVinxVyzYo> (1:29)

Ask Mr. Desmond for the micro:bit device.

Plug the USB cord into the micro:bit and your Chromebook.

Wait a moment for the Chromebook to recognize
and connect to the micro:bit.

Check to make sure that the micro:bit is accessible when
viewing your Google Drive or your Files.

Check in with Mr. Desmond.

Ready to code? Go to the next page to begin.

Create a new MakeCode project.

<https://makecode.microbit.org/>

Microsoft | micro:bit

Introduction to the BBC micro:bit

Show Instructions

My Projects [View All](#) [Import](#)

New Project

Click here.
Name your new project Name.

Tutorials

- New? Start Here **Flashing Heart**
- Name Tag**
- Smiley Buttons**
- Dice**
- Love Meter**
- Micro Chat**

Follow all the steps of this lesson. Do not skip any pages.

Microsoft | micro:bit

Blocks JavaScript

Home Share Help Settings Sign In

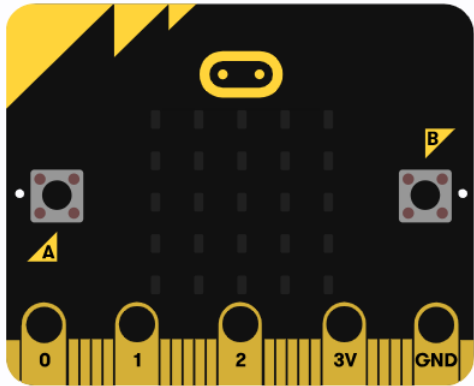
Search...

- Basic
- Input
- Music
- Led
- Radio
- Loops
- Logic
- Variables
- Math
- Extensions
- Advanced

on start forever

Download

Name



You do not need the 'on start' block.
Put it back in the Toolbox.

Toolbox

Search...

- Basic
- Input
- Music
- Led
- Radio
- Loops
- Logic
- Variables
- Math
- Extensions
- Advanced

on start

forever

Download



Add the 'show string' block inside the 'forever' block.

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Blocks JavaScript

Search...

Basic

show number 0

show leds

show icon

show string "Hello!"

clear screen

forever

on start

pause (ms) 100

show arrow North

Your name here.

Click on the word "Hello".
Delete "Hello" and put in your name.

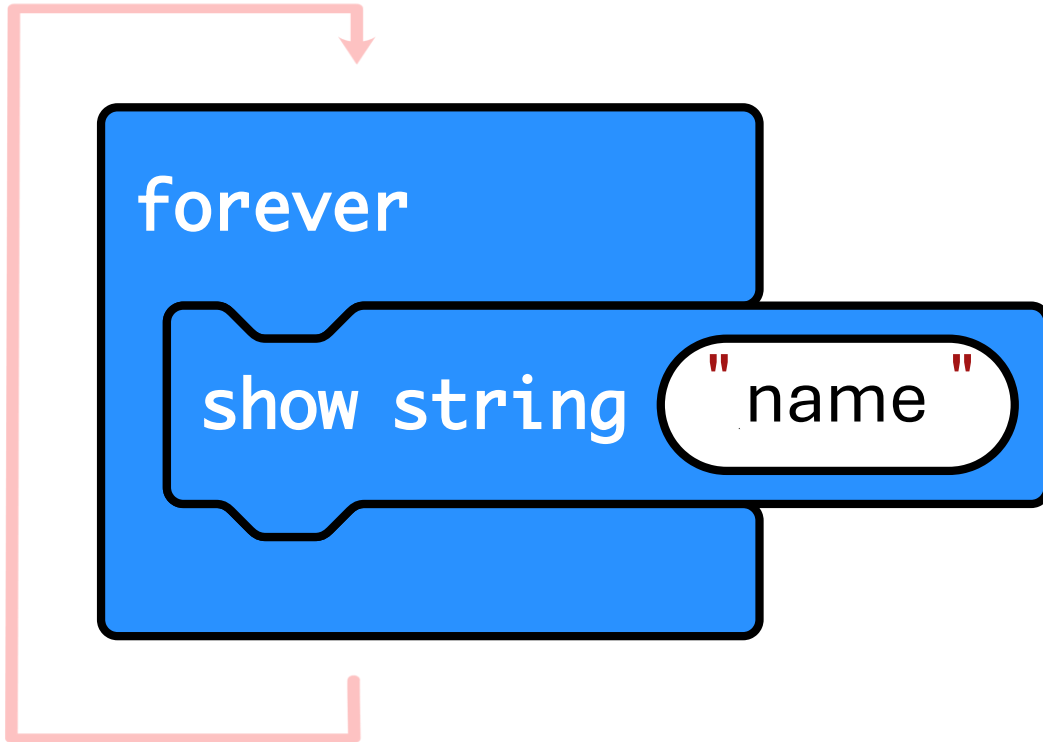
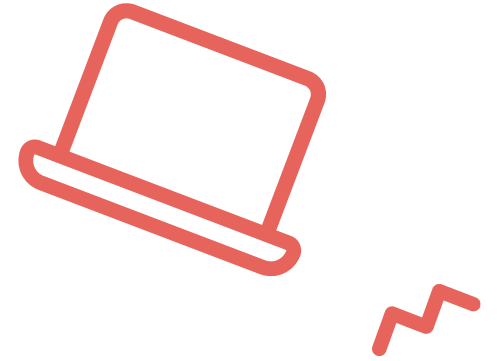
Download

Name

Sign In



Think about how your code works.



- **'forever'** is a loop that keeps the code running
- **'show string'** scrolls the string of letters that make up your name across the LED display output

Test your code using the simulator.
Look at the micro:bit simulator screen.
Do you see the letters of your name scrolling past?

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Home Share Settings Sign In

This is the simulator. It shows you what your micro:bit will do when download is complete.

Click here.

Toolbox

Search...

- Basic
- Input
- Music
- Led
- Radio
- Loops
- Logic
- Variables
- Math
- Extensions
- Advanced

forever

show string "your name"

Download

Click the purple Download button to download your code.

Microsoft | micro:bit

Blocks JavaScript

Search...

- Basic
- Input
- Music
- Led
- Radio
- Loops
- Logic
- Variables
- Math
- Extensions
- Advanced

forever

show string "your name"

Click here.

Download

Name

Follow the steps on the next page to download using your Chromebook.

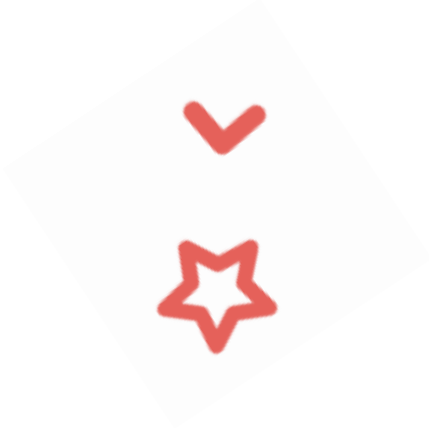
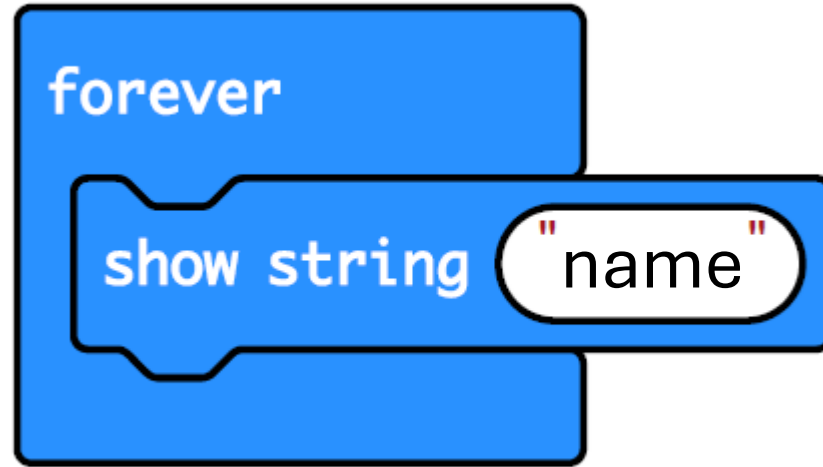
Step-by-step Guide To Download Your Code To Micro:Bit

- 1) Connect. Plug your micro:bit device into the Chromebook with a USB cable; it will appear as a new drive named MICROBIT in your Files app.
- 2) Code & Download. In MakeCode, build your program and click the purple Download button. Do not PAIR. Click the blue Download as File button. This saves a “_____.hex” file (e.g., microbit-program.hex) to your Chromebook’s Google Drive or Google Files.
- 3) Locate File. Open the Files app (the blue folder icon) and find your downloaded “_____.hex” with the files in your Google Drive or with the files in your Google Files.
- 4) Drag & Drop. Click and drag the “_____.hex” file directly onto the MICROBIT drive.
- 5) Transfer. The MICROBIT drive will momentarily disappear as the code is transferred to the micro:bit device. Look for the blinking lights on the micro:bit and an on-screen message showing you the status of your download.
- 6) Run. Your program will start automatically on the micro:bit once the transfer is complete.

Need help? Watch a video to help you with these steps to download your code to the micro:bit from a Chromebook.

<https://www.youtube.com/watch?v=9V2oAsB3F8s>

Show Mr. Desmond how your micro:bit device works.





Go further. How else could you use the show string block to code your micro:bit device?



Create a new show string code.

Show Mr. Desmond how your micro:bit device works with your new show string code.

