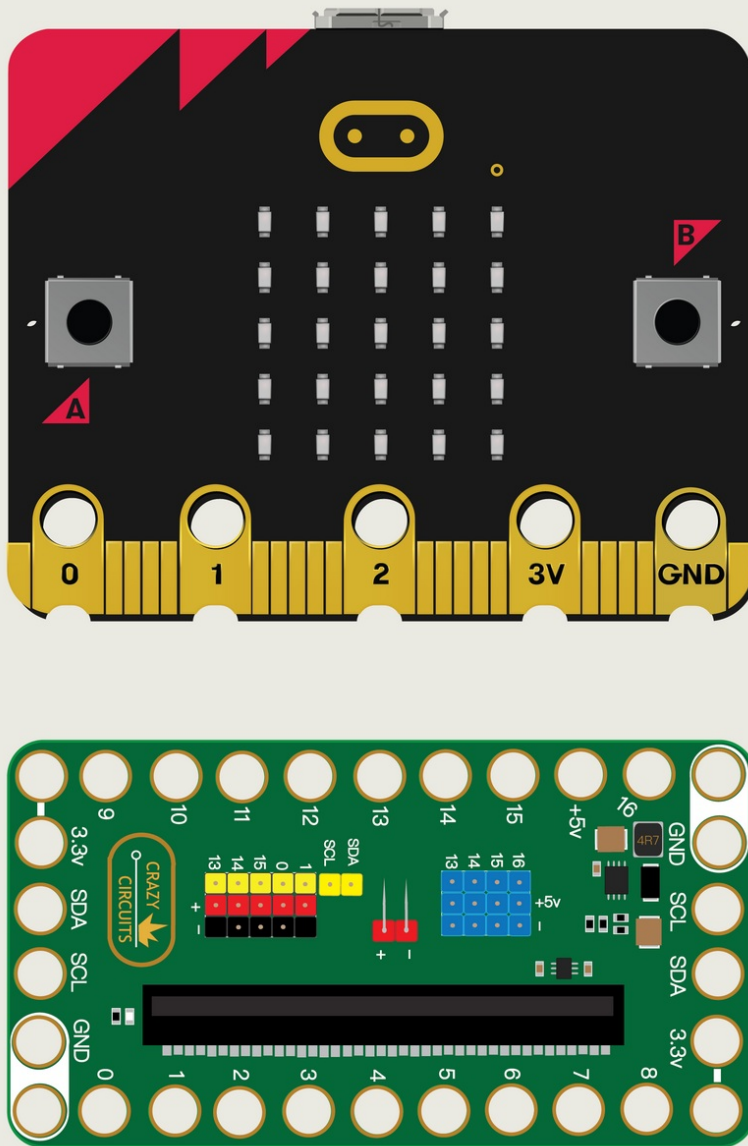




CH8-A - LED Matrix Simple

Program the built-in LED Matrix found on the micro:bit

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INTRODUCTION

Program the built-in LED Matrix found on the micro:bit

We'll explore how we can control the LED Matrix to show information and animations.



TOOLS:

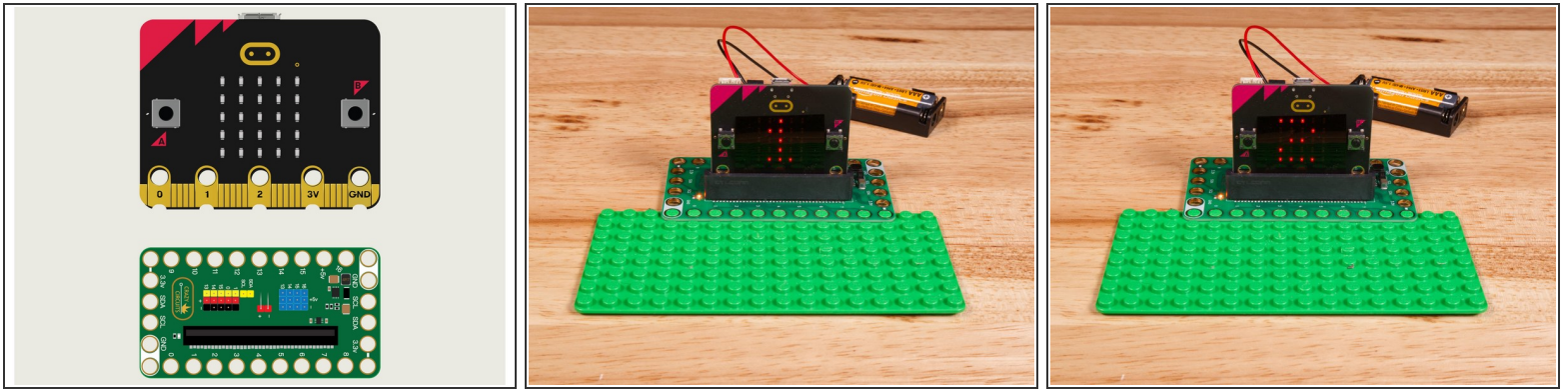
- [Computer](#) (1)



PARTS:

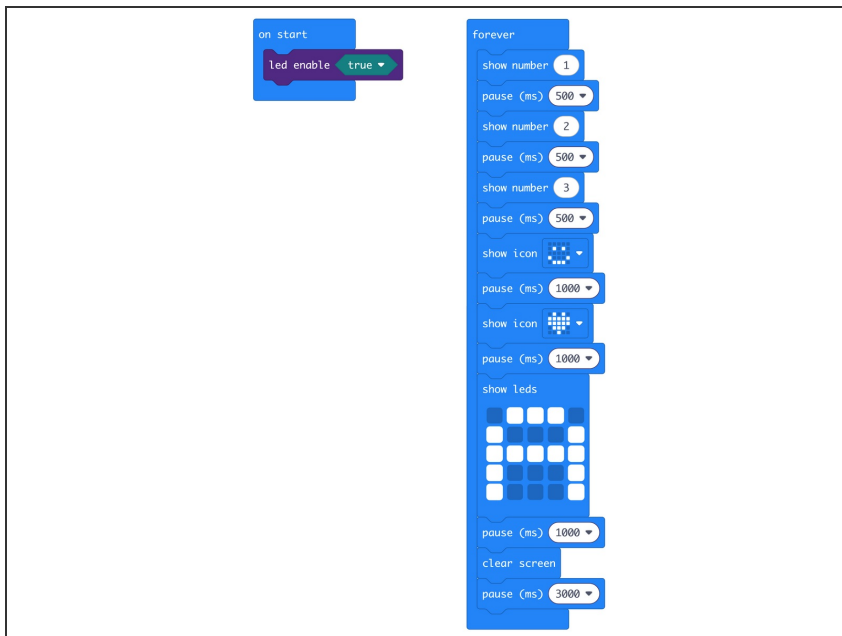
- [Crazy Circuits Bit Board](#) (1)
- [micro:bit](#) (1)

Step 1 — Prepare the micro:bit



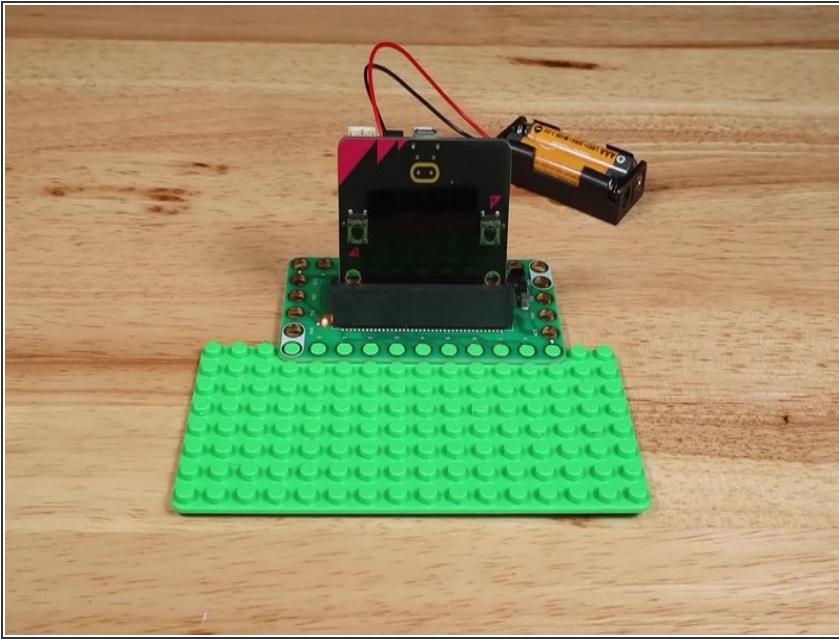
- For this guide we won't need Maker Tape or any components. We're just going to put the micro:bit into the Bit Board.
- We're only going to connect a USB cable and use the built-in LED Matrix found on the front of the micro:bit

Step 2 — Load the Code



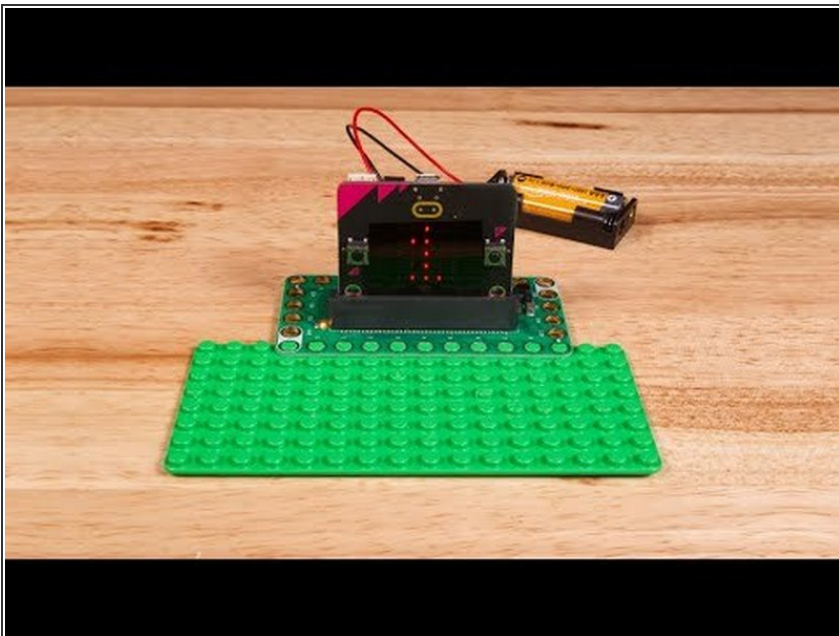
- If you've never used a micro:bit before you'll want to check out this guide: [Bit Board V2 Setup and Use](https://makecode.microbit.org/_YCFDjyD6q...)
- We're going to load the following code for our **LED Matrix Simple** program:
https://makecode.microbit.org/_YCFDjyD6q...
- Our code will just demonstrate a few different basic ways you can use the built-in LED Matrix.
- We'll see some numbers, icons, and then a letter "A" drawn pixel by pixel.

Step 3 — Test it Out!



- Once the code is loaded it should start running immediately.
- ① You can power the micro:bit via the USB cable you used to load the code or you can use a battery pack plugged into the Bit Board.
- The micro:bit's built-in LED Matrix will display various things while the code runs.

Step 4 — Follow Along



- Follow along with our recorded Live Stream!
- ① You can watch the full video of us walking through this project, along with explaining and exploring the code:
<https://youtube.com/live/3A9rYMbcC04>