



scroll:bit



scroll:bit is a little display with a lot of pixels! Its 119 bright white LEDs are perfect for scrolling messages with your micro:bit, or for animations, graphs, and more!

Just slot in your micro:bit, then code scroll:bit with the block-based Microsoft MakeCode editor or with MicroPython in the Mu code editor. It works in a very similar way to the built-in red LED matrix on your micro:bit, so if you've used that then you'll know exactly what to do.

Features

- Comes fully-assembled and ready to use
- 17x7 matrix of bright white pixels (119 total)
- Individual PWM brightness control of each pixel
- Uses the IS31FL3731 LED matrix driver chip
- Compatible with **micro:bit** and **micro:bit v2**
- Microsoft MakeCode and MicroPython support
- No soldering required!

Software

You can code scroll:bit with the block-based **Microsoft MakeCode editor** (<https://makecode.microbit.org/>), that'll get you started with the concepts of how to code a matrix of LEDs or, if you want to delve deeper, then you can use MicroPython in the **Mu code editor** (<https://codewith.mu/>).

To add the scroll:bit library in MakeCode, click on the cog at the top right hand corner, then "Add Package", then search for "scrollbit". You can find full instructions at the **GitHub repository for the library** (<https://github.com/pimoroni/pxt-scrollbit>).

Our **Getting Started with scroll:bit tutorial** (<https://learn.pimoroni.com/tutorial/sandy/getting-started-with-scroll-bit-and-makecode>) has a bunch of useful information and even embedded code examples (including how to make a spirit level) that are easy to download straight to your micro:bit. You'll be up-and-running in a jiffy!

Our **MicroPython library for scroll:bit is also available at GitHub** (<https://github.com/pimoroni/micropython-scrollbit>), again with full instructions on how to get going with it.

Worksheets

Our Tanya has put together some lovely educational content for scroll:bit, including downloadable worksheets for use in the classroom or for learning at home. They'll show you how to get started and how to build some simple projects with MakeCode blocks.

- **Displaying words on the scroll:bit** (<https://edu.pimoroni.com/scroll-bit-activity-1/>)
- **Displaying an icon anywhere on the scroll:bit** (<https://edu.pimoroni.com/scroll-bit-activity-2/>)
- **Make a tilting ghost** (<https://edu.pimoroni.com/scroll-bit-activity-3-making-a-scrolling-information-station/>)
- **Animations on the scroll:bit** (<https://edu.pimoroni.com/animations-on-the-scroll-bit/>)

Description	Mftr Part No.	OKdo SKU	RS SKU	Allied SKU
Scroll:bit – LED Display Board (micro:bit not included)	PIM353	XXXXXXX	xxx-xxxx	xxxxxxxxxx

