

# Instructions:

## CONNECTOR

FOR MICRO:BIT

v1A



Works with  
micro:bit

**V1 & V2**

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## INTRODUCTION

The MonkMakes Connector for micro:bit makes it super-easy to connect I2C, SPI and other devices to your micro:bit without losing the main connector rings.

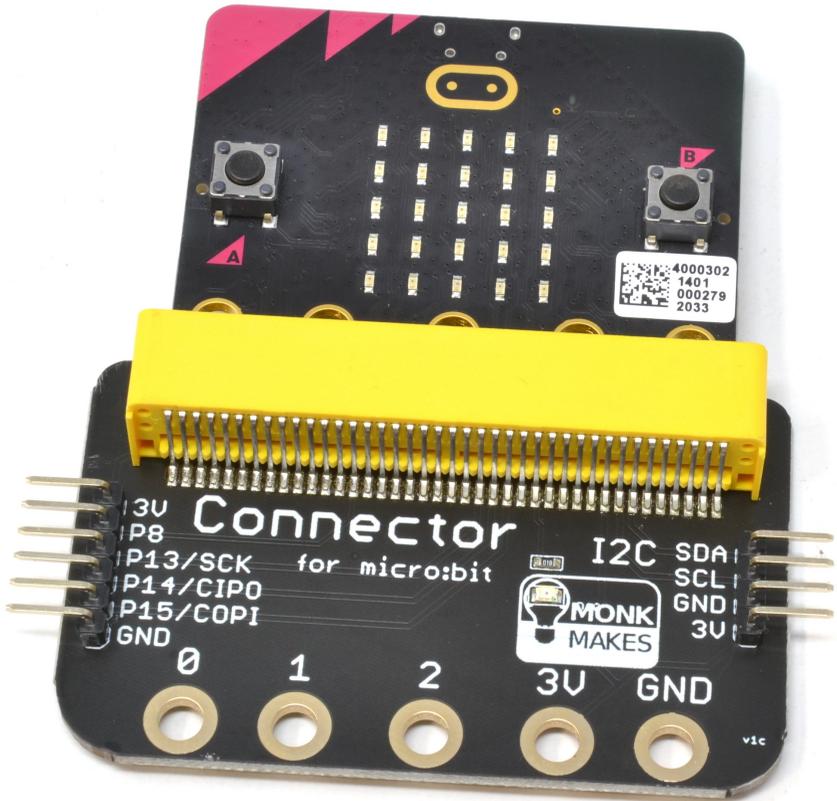
Unlike other connectors that are designed to break-out all the micro:bit pins, this connector just breaks out the useful ones that are not in use by the micro:bit for other purposes.

And most importantly, you don't lose access to the micro:bit's normal connector rings.

## CONNECTING YOUR MICRO:BIT

Plug your micro:bit (model 1 or model 2) into the connector as shown below.

Make sure that it is pushed in as far as it will go. The connection rings will sit slightly outside of the socket.



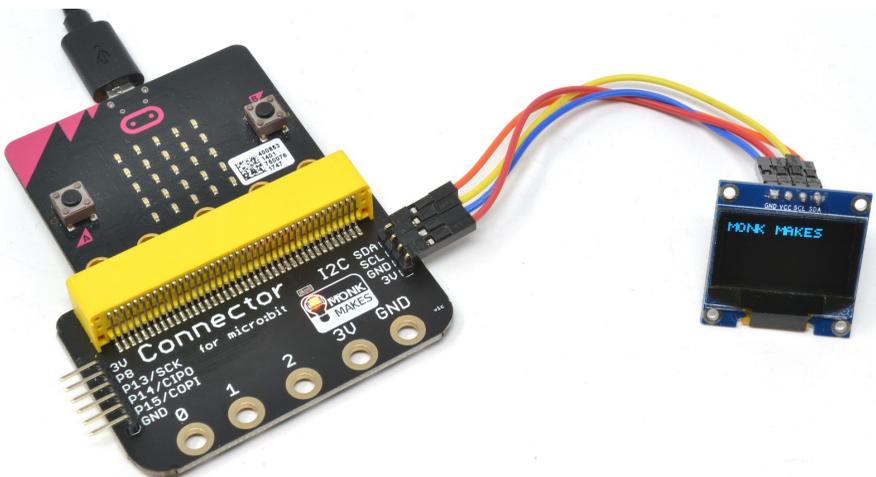
# USING AN I2C DISPLAY

Small OLED displays make a great addition to the micro:bit. You can buy them from various sources, including Adafruit, eBay and Amazon. They operate at 3V using the micro:bit's I2C interface. Two pins are required for power and two pins SDA and SCL are uses as Data and Clock signals for serial communication.

## Connecting

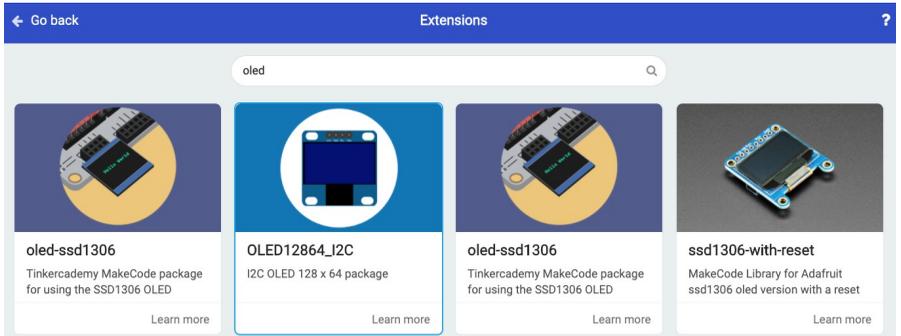
Connect up your I2C display like this, using female to female jumper wires.

Connector for micro:bit pin	I2C OLED display pin	Suggested lead color
GND	GND	Blue or Balck
3V	VCC	Red
SCL	SCL (or just C)	Yellow
SDA	SDA (or just D)	Orange



## Software

There are several Makecode libraries available for I2C OLED displays. To find them, click on the Extensions button at the bottom of the Makecode editor window. And then type OLED in the search box.



The one I used here is the second from the left. Once added, the extension gives you a new set of blocks for controlling the display.

Here is a short Makecode block program using this extension.



## TROUBLESHOOTING

**Problem:** The power LED does not light

**Solution:** Make sure that your micro:bit is fitted into the connector the correct way around and that the micro:bit itself is powered.

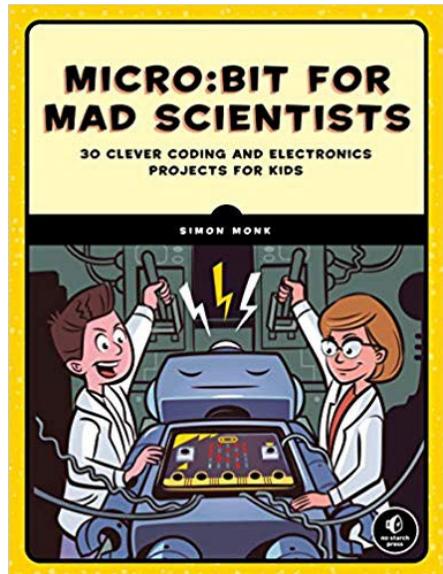
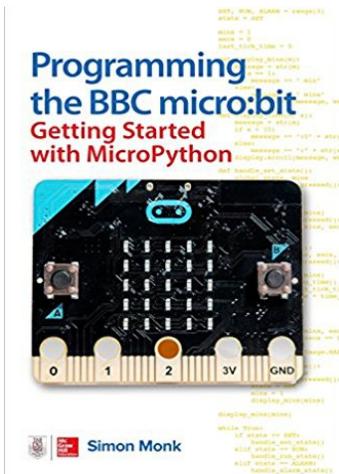
# LEARNING

## micro:bit Programming

If you want to learn more about programming the micro:bit in MicroPython, then you should consider buying Simon Monk's book 'Programming micro:bit: Getting Started with MicroPython', which is available from all major book sellers.

For some interesting project ideas, you might also like micro:bit for the Mad Scientist from NoStarch Press.

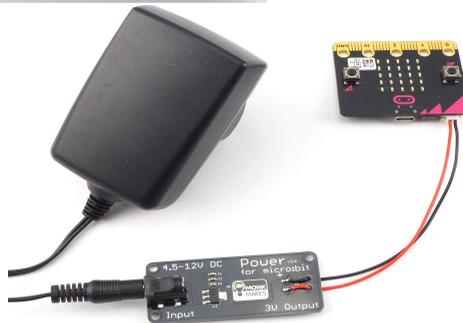
You can find out more about books by Simon Monk (the designer of this kit) at: <http://simonmonk.org> or follow him on Twitter where he is @simonmonk2



# MONKMAKES

For more information on this kit, the product's home page is here:  
[https://monkmakes.com/mb\\_slider](https://monkmakes.com/mb_slider)

As well as this kit, MonkMakes makes all sorts of kits and gadgets to help with your maker projects. Find out more, as well as where to buy here:  
<https://monkmakes.com> you can also follow MonkMakes on Twitter @monkmakes.



From left to right: Electronics Starter Kit for micro:bit, Power for micro:bit (AC adapter not included) and 7 Segment for micro:bit.