MONK MAKES Monkmakes Connector for Microbit Instructions

Instructions:
CONNECTOR
FOR MICRO:BIT V1A

works with micro:bit	V1&V2

Contents

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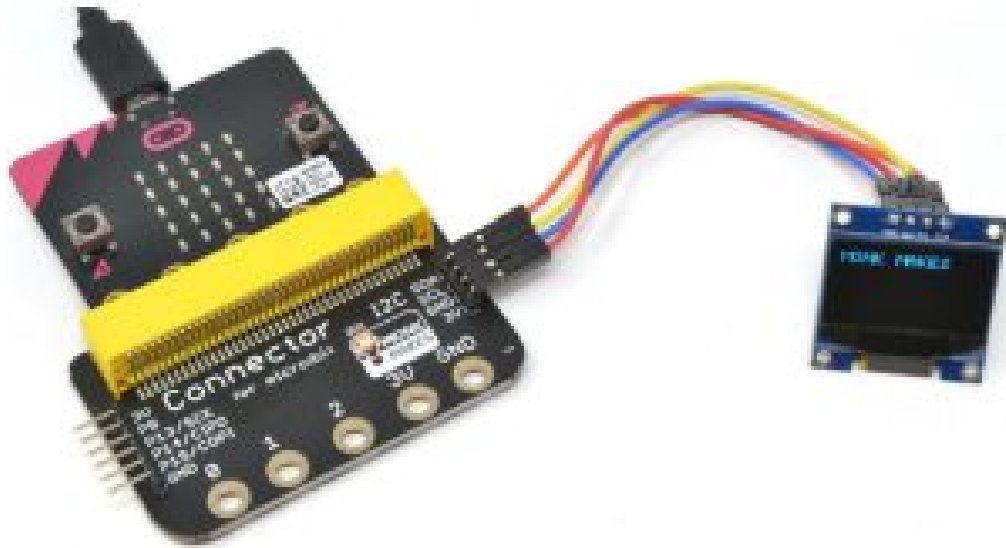
Software
There are several Make code libraries available for I2C OLED displays. To find them, click on the Extensions button at the bottom of the Make code editor window. And then type OLED in the search box.

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 Make code block program using this extension.

```
on start
    init OLED with addr  60
    zoom    true ▾
    clear
    show string at x  0
    y  0
    text  "MONK MAKES"
    color  1
```

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 booksellers.
For some interesting project ideas, you might also like the 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
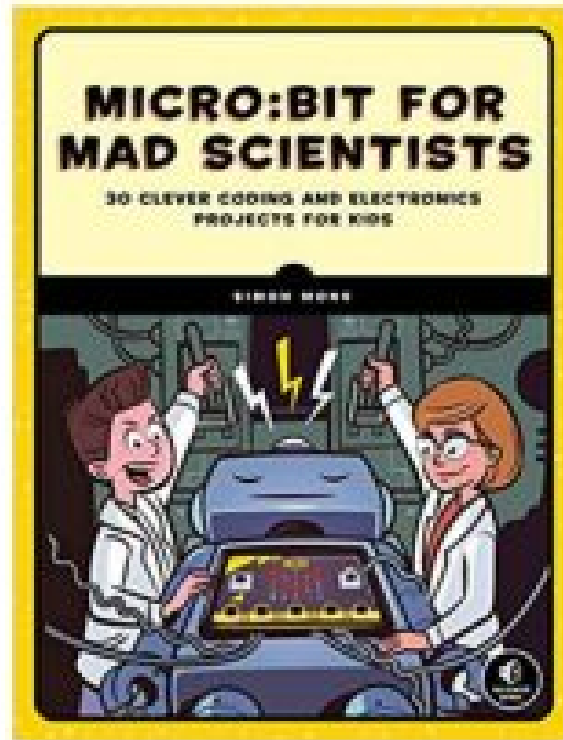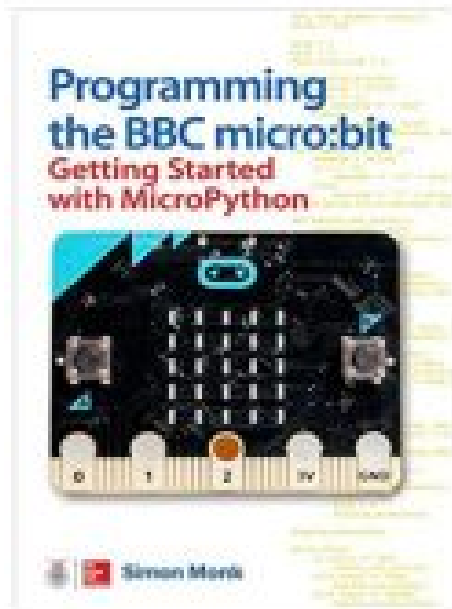
MONK MAKES

For more information on this kit, the product's home page is here: **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.

Documents / Resources

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