

Viewing micro:bit Serial Data

Use the Arduino IDE to view serial data sent from the micro:bit to your computer.

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INTRODUCTION

Use the Arduino IDE to view serial data sent from the micro:bit to your computer.

| F TOOLS: | PARTS: |
|--------------|-----------------------------------|
| Computer (1) | micro:bit (1) |

Step 1 — Serial Monitor



- For our Arduino projects it's sometimes nice to see data in the Serial Monitor of the Arduino IDE.
- While we love <u>Microsoft MakeCode</u> for micro:bit programming sometimes we miss the Arduino Serial Monitor.
- The good news is... you can still use it!

Step 2 — Launch the Arduino IDE



- To use the Arduino Serial Monitor with a micro:bit you'll need to have the micro:bit connected to your computer with a USB cable.
- You'll then need to launch the Arduino software, and under the Tools menu you'll see the Port sub menu.
- Select your micro:bit from the sub menu.

Step 3 — Open the Serial Monitor



 Under the Tools menu select Serial Monitor.

Step 4 — View the Serial Data



- Set the baud rate to 115200 baud in the bottom right corner of the Serial Monitor window.
- You should see your data coming in from the micro:bit
- Note that you should not try to upload a sketch to the micro:bit while using the Arduino software. (Yes, it is possible, but we won't dive into that topic here.)
- Remember, the code running on the micro:bit is not the same code you see in the sketch window in the Arduino software!

Step 5 — MakeCode

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- Here's a short example of how we set up MakeCode to send serial data to the computer.
- Remember to have the USB cable plugged in to both the computer and the micro:bit!