

## micro:bit | Sensors, Part 1

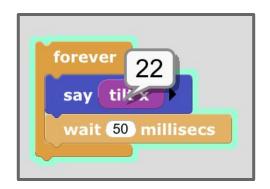
Connect the micro:bit to MicroBlocks.



The micro:bit has many sensors built right in! They include tilt, temperature, and light sensors.

Click on a *tilt x* block by itself to see what number it reports. This script shows a sensor's value continuously as it changes.

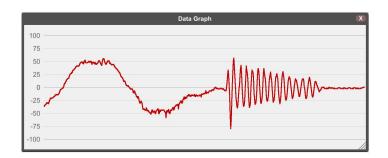




Graphing is another way to explore sensors. Start this script, then click to see the graph.



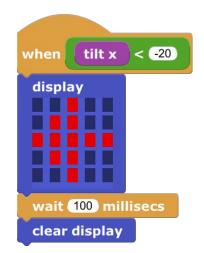
As you tilt the micro:bit, you will see the graph change.
Try shaking it gently to see something like this!

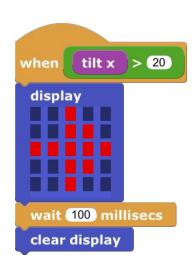




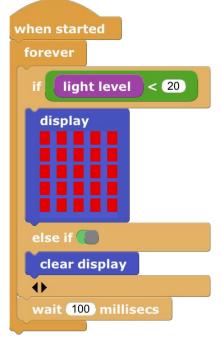
## micro:bit | Sensors, Part 2

These scripts change the LED display when the micro:bit is tilted.





The micro:bit also has a light sensor. This script turns on the LED display when it gets dark. Cover the micro:bit with your hand to see how the micro:bit responds!



The micro:bit also has a temperature sensor. This graph shows the temperature every minute over the course of many hours. The data was collected with the micro:bit in the freezer and the USB cable leading out to the laptop.

Why do you think the temperature goes up and down?

```
when started forever graph temperature (°C) wait 60000 millisecs
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