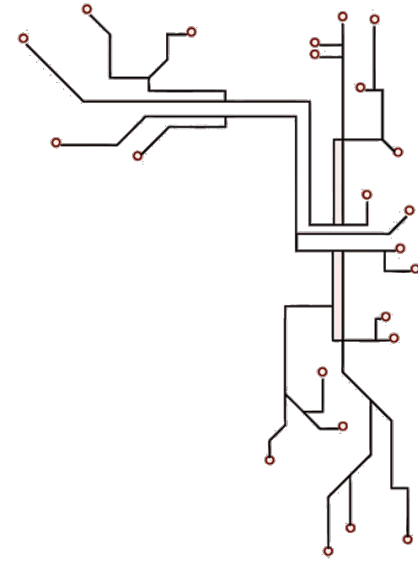
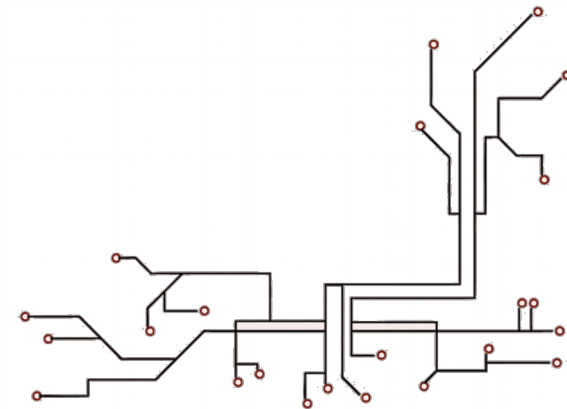


MAKING



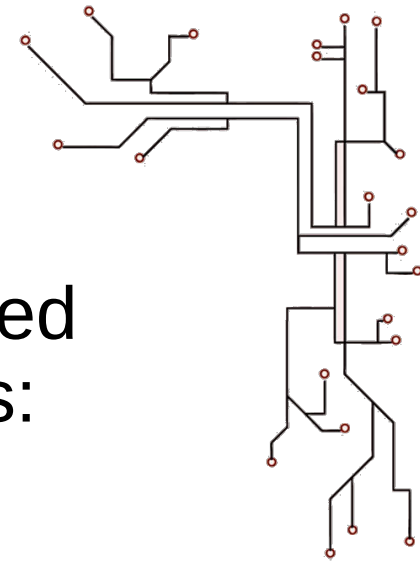
SMART

DEVICES



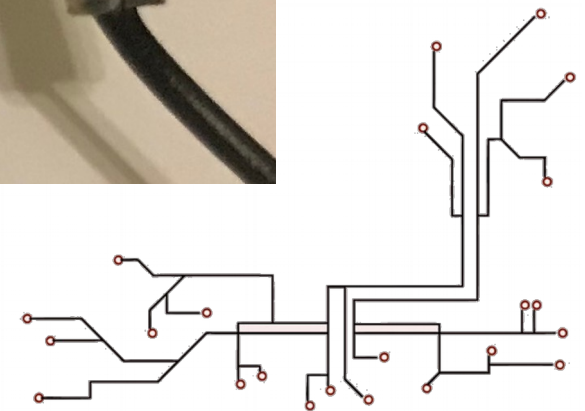
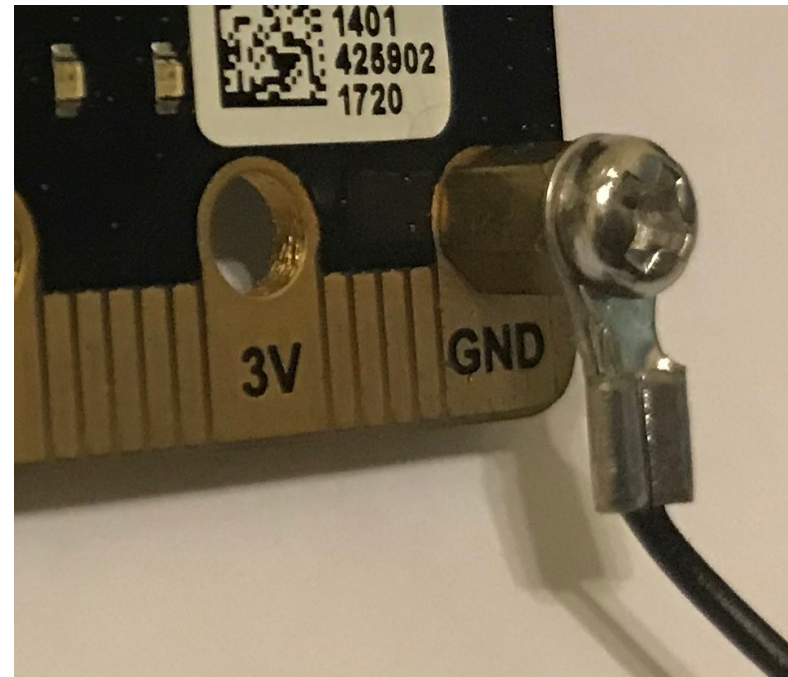
A POSTERIORI
Play · Experience · Learn

Soldering & Alternative Wiring



The micro:bit can be wired better with soldered connections that do away with crocodile clips:

- Solder wires to LEDs, motors, and buttons|
- Clamp-on ring terminals and conducting spacers



A POSTERIORI

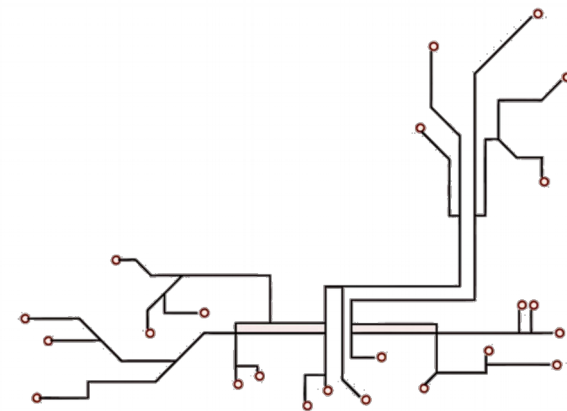
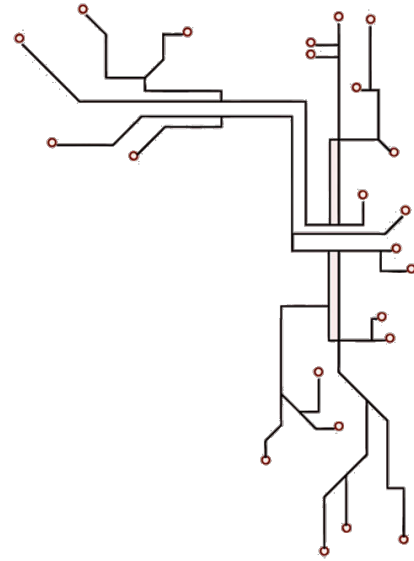
Play · Experience · Learn

ACTIVITY

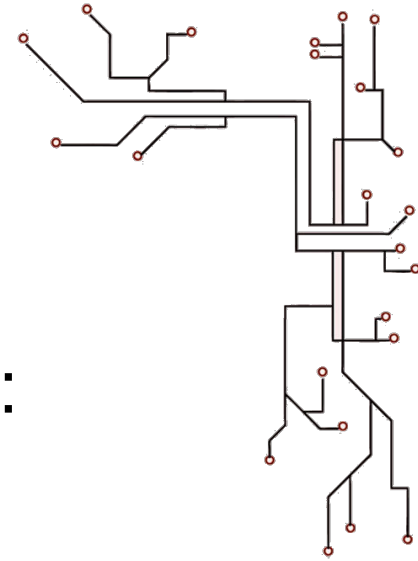
Make new connections!
(Soldering)

A POSTERIORI

Play · Experience · Learn



Sensing & Sensors



The micro:bit has several *on-board* sensors:

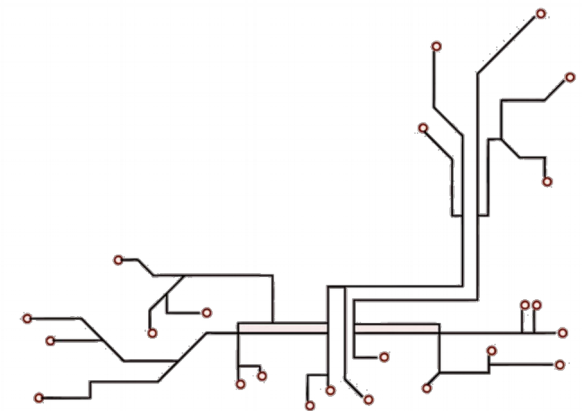
- Compass
- Temperature
- Light Level
- Accelerometer (3 Dimensions)

Sensors usually require some *calibration*:

- find minimum & maximum, or
- average “normal”

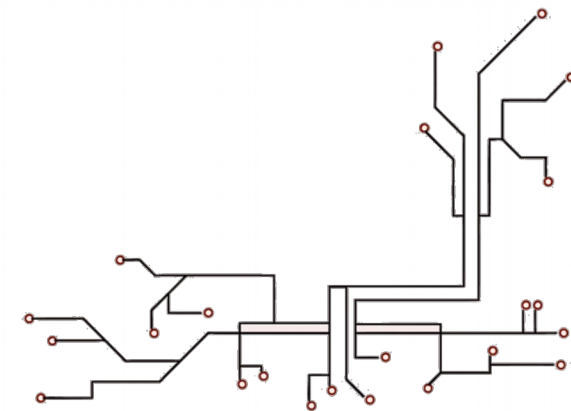
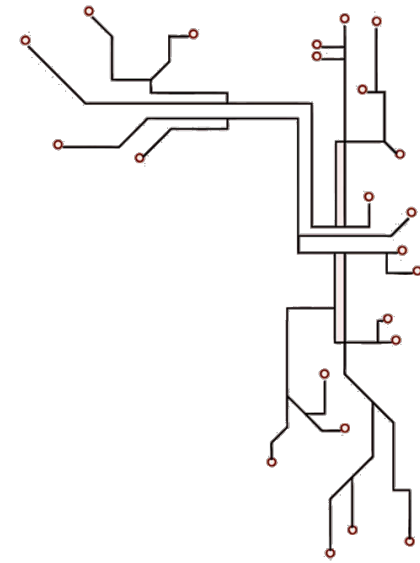
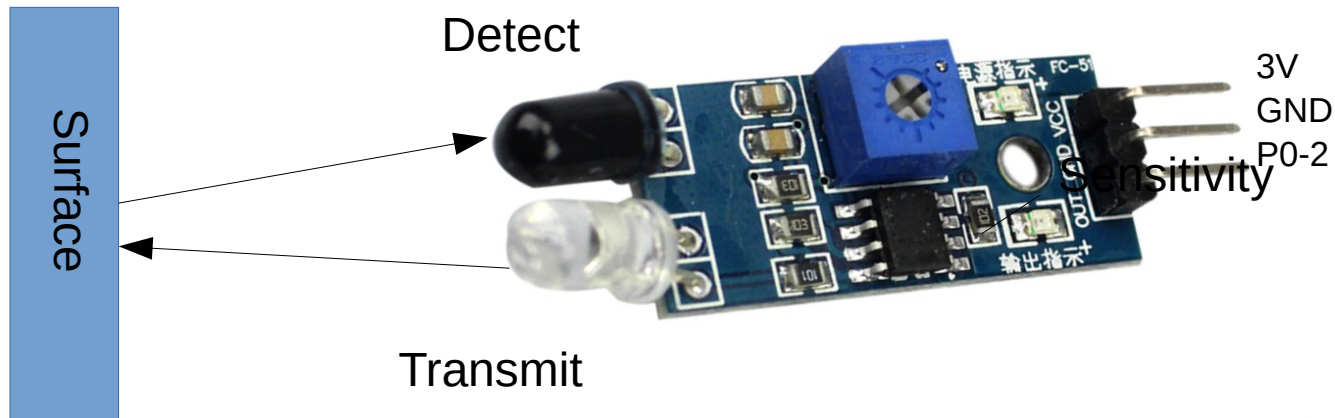
A POSTERIORI

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Obstacle, Motion, Crossing

Infrared (IR) Sensor

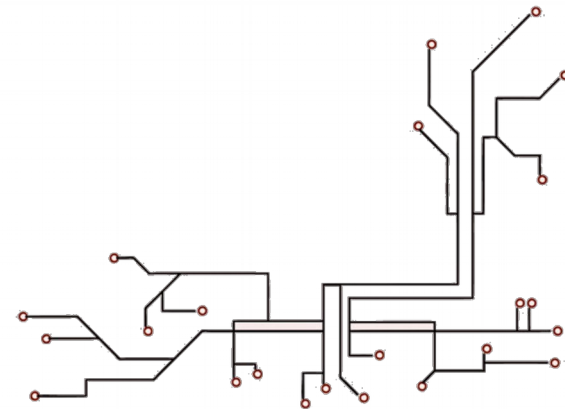
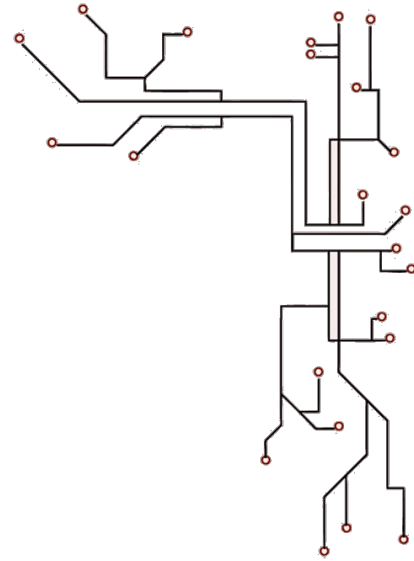


ACTIVITY

Add sensing to your device!
(Sensors)

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ACTIVITY

Make Anything!
(Open-Ended Exploration)

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Play · Experience · Learn

