### Background

- Arduino is an open source electronics prototyping platform based on flexible, easy to use hardware and software.
- Can be used to develop interactive objects, taking inputs from a variety of switches or sensors, and controlling a variety of lights, motors, and other physical outputs.
- Arduino projects can be stand-alone, or they can communicate with software running on a computer.

### Big Six Concepts

- `digitalWrite()`
- `analogWrite()`
- `digitalRead()`
- `if() statements / Boolean`
- `analogRead()`
- `Serial communication`

### What is Arduino?

**Robot Parts**

- Arduino board
- Motor shield
- Distance sensor
- USB cable
- Bluetooth module
- Vehicle body
- Breadboard
- Wires and cables

### More Arduino Microcontroller Projects