

The background of the image is a collage of various Arduino-related components. It includes several ATmega microcontrollers in different packages (DIP, QFN, and SMD), a green USB-to-serial module with a USB Type-B connector, a blue USB-to-serial module with a USB Type-A connector, an Arduino Uno board, and several small black integrated circuits. The components are arranged around the central text.

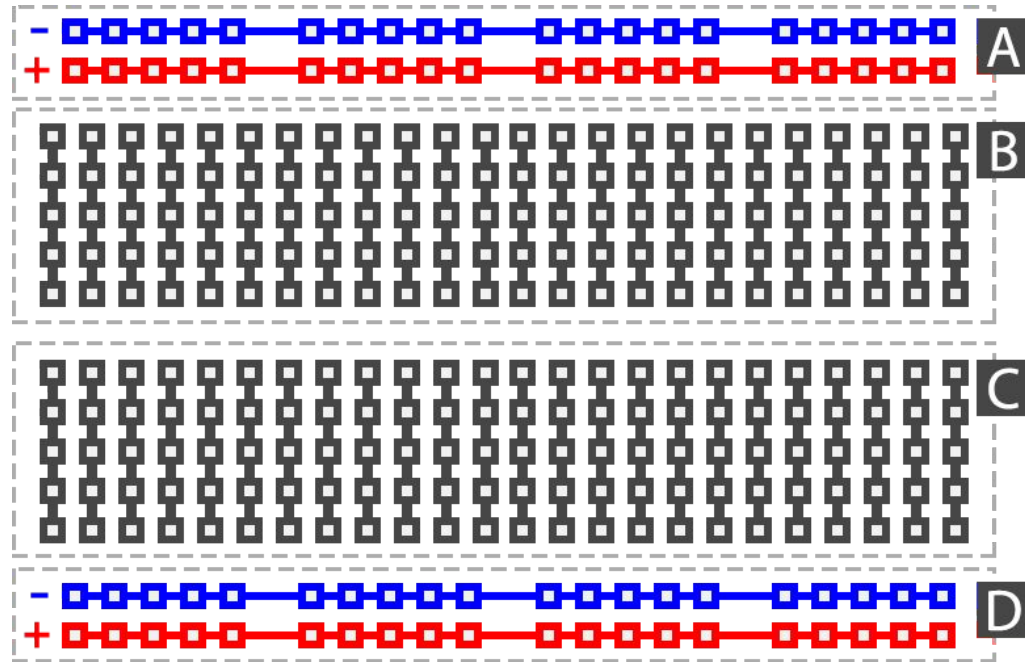
Arduino Workshop

By MakerSpace@Yahoo

<http://yo/arduino-101>



Breadboard Basics

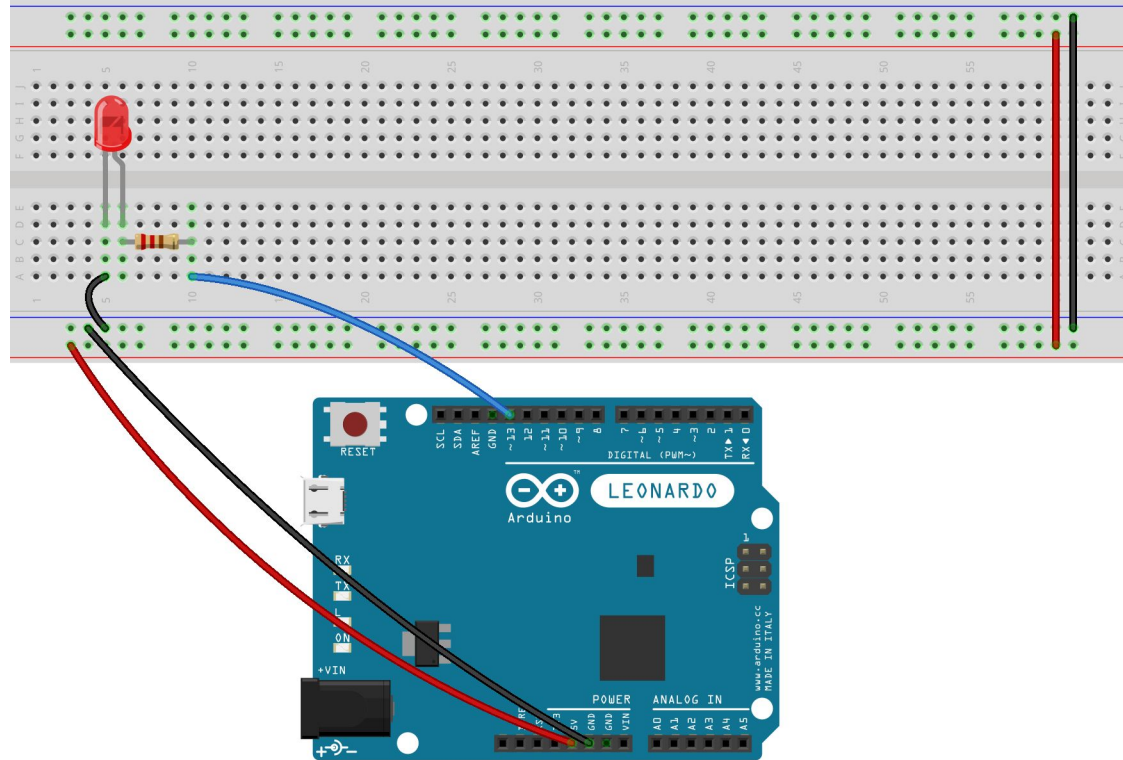


Make the LED blink

<http://bit.ly/makerspace-arduino-blink>



Wire the LED



Control the brightness of the LED

<http://bit.ly/makerspace-arduino-pulse>



Pulse Width Modulation

50% duty cycle



75% duty cycle



25% duty cycle

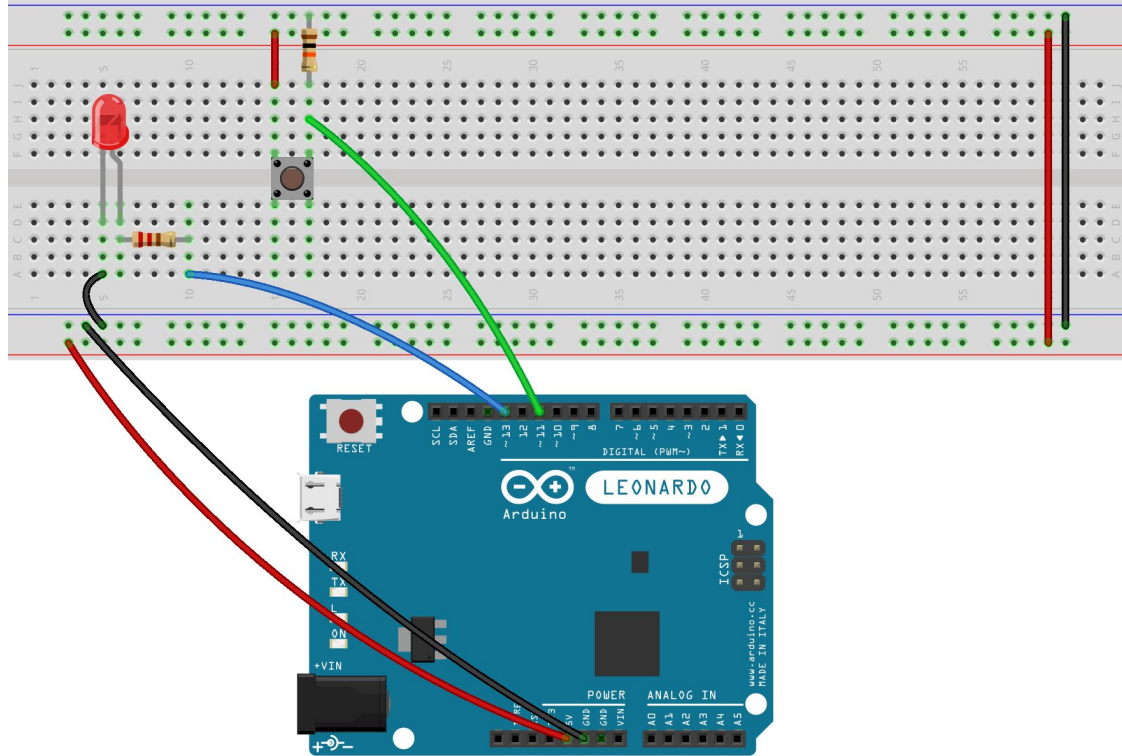


Press button to turn on LED

<http://bit.ly/makerspace-arduino-button>



Wire push button

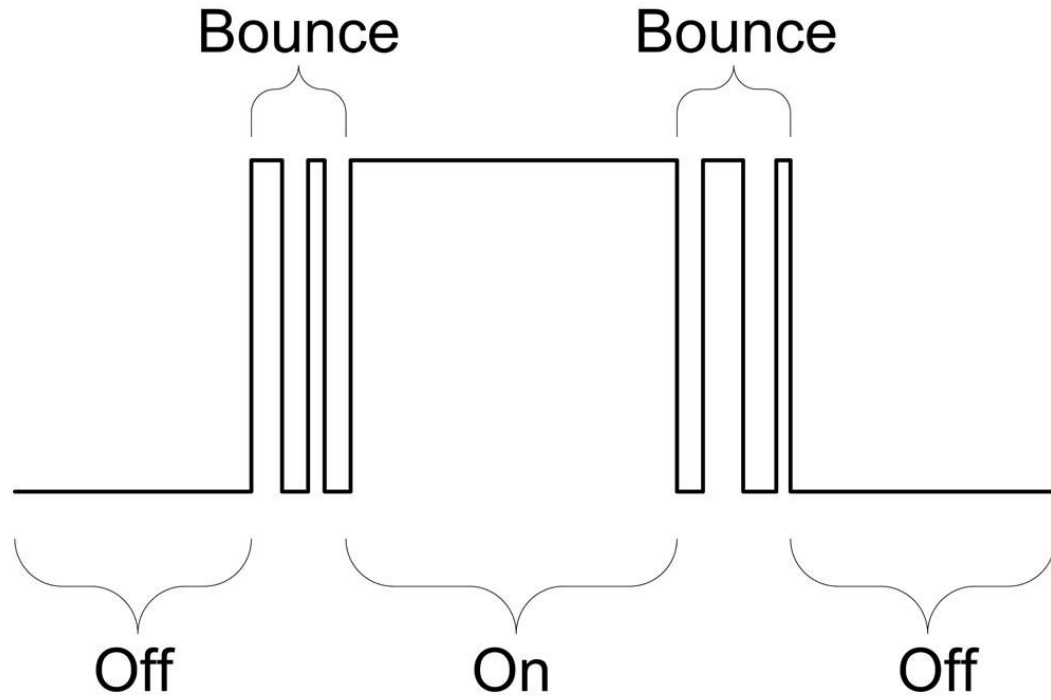


Press button to toggle LED state

<http://bit.ly/makerspace-arduino-debounce>



Debouncing

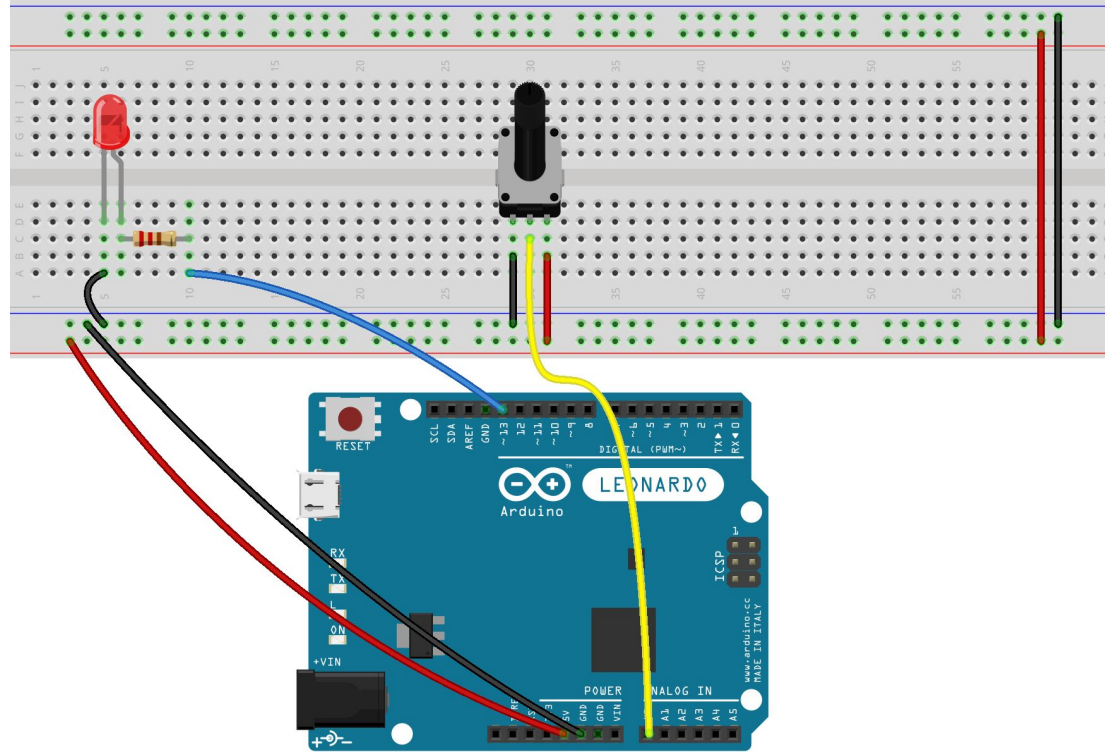


Control the brightness of the LED with pot

<http://bit.ly/makerspace-arduino-pot>

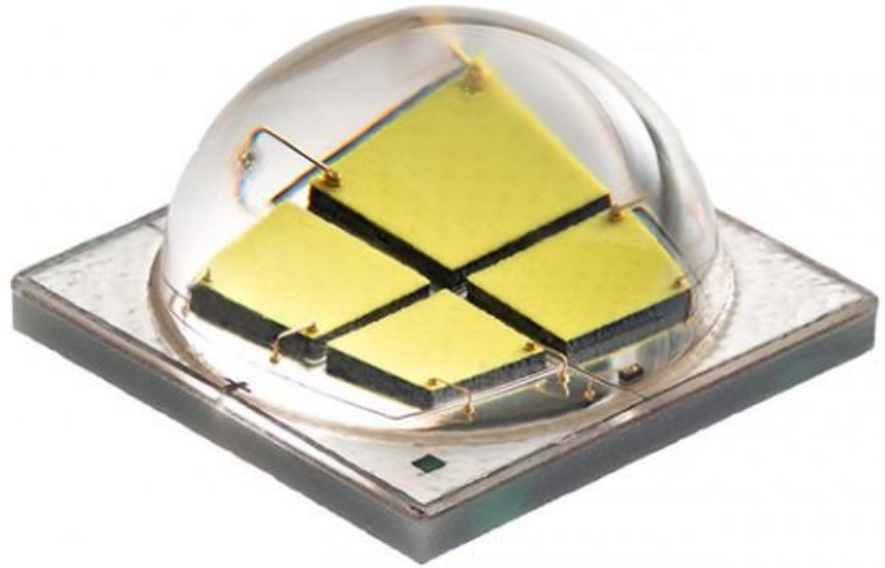


Wire the potentiometer

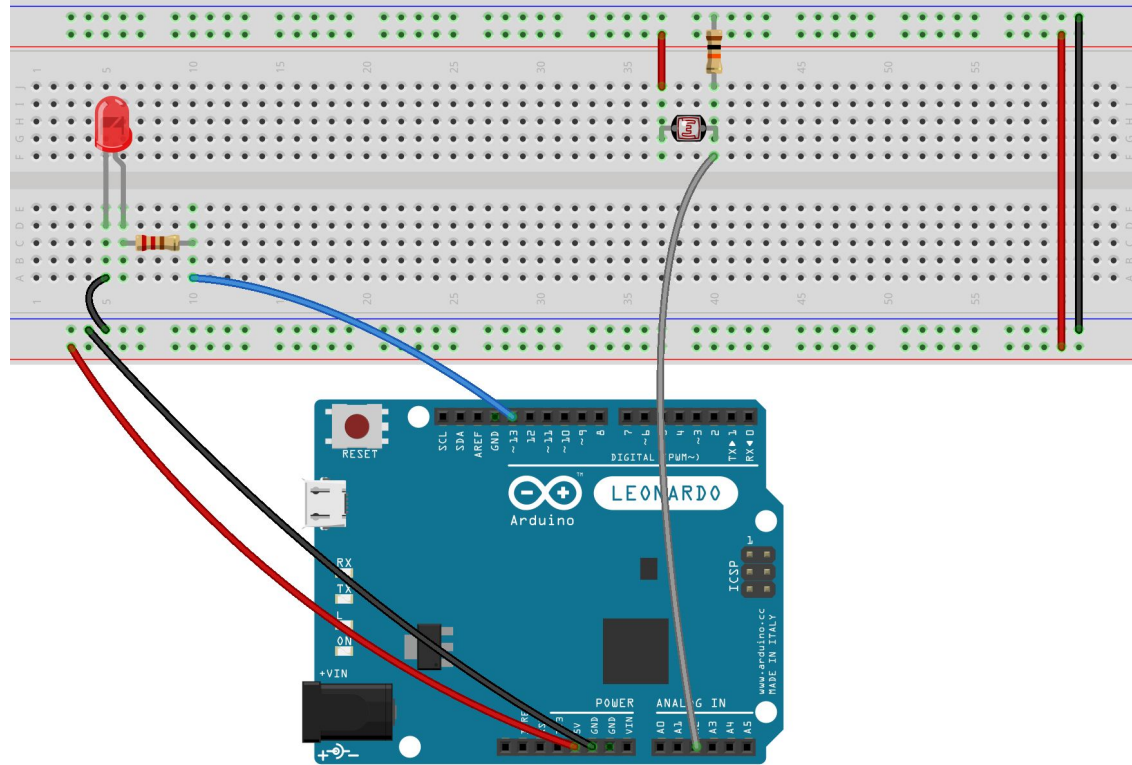


Control the brightness of the LED with light

<http://bit.ly/makerspace-arduino-ldr>



Wire the light dependent resistor

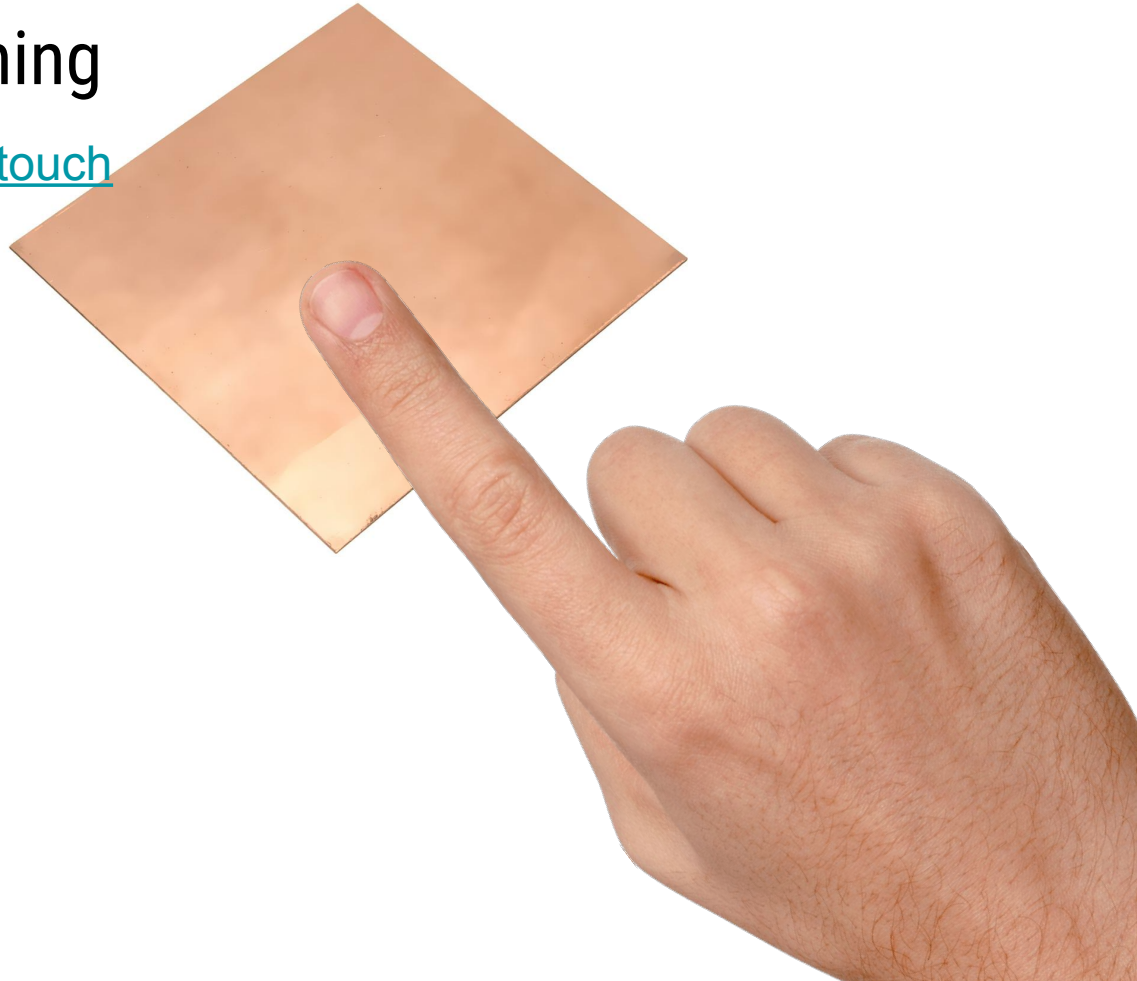


Download Capacitive Sense Library

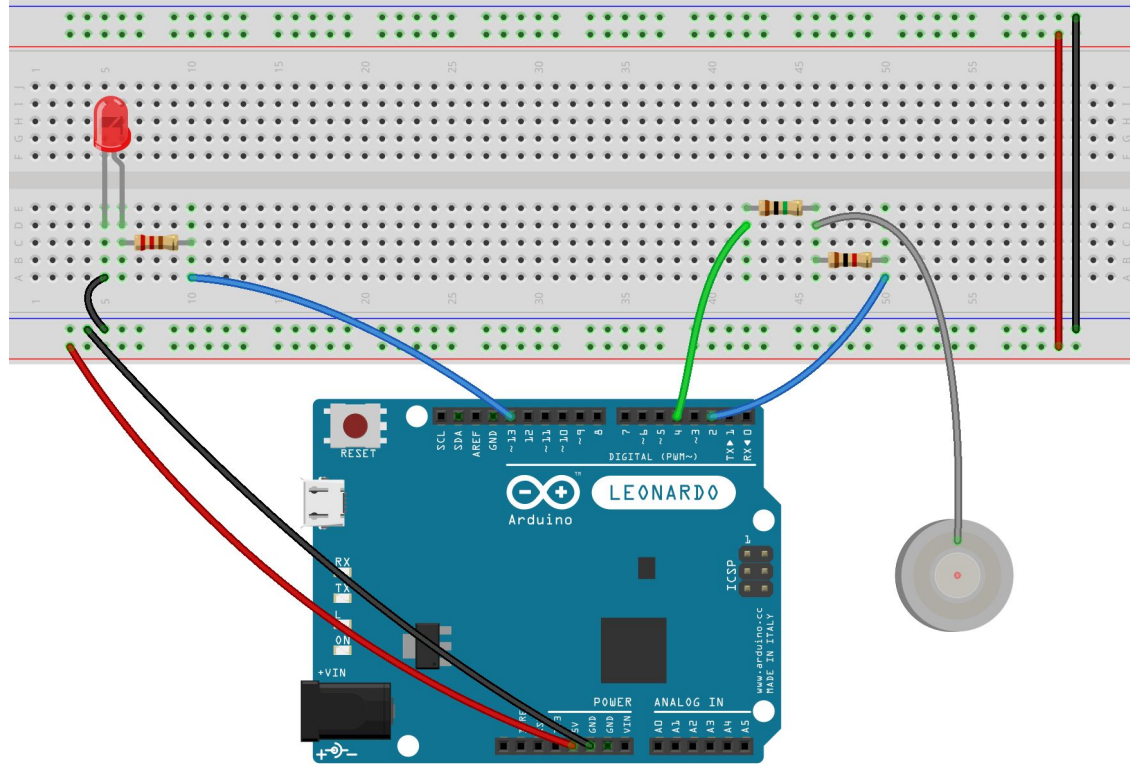
1. Close Arduino IDE
2. Open Terminal
3. Execute these commands
 - `cd ~/Documents/Arduino/libraries`
 - `git clone https://github.com/arduino-libraries/CapacitiveSensor.git`
4. Re-open Arduino IDE

Toggle the LED by touching

<http://bit.ly/makerspace-arduino-touch>



Wire the touch sensor



Q & A