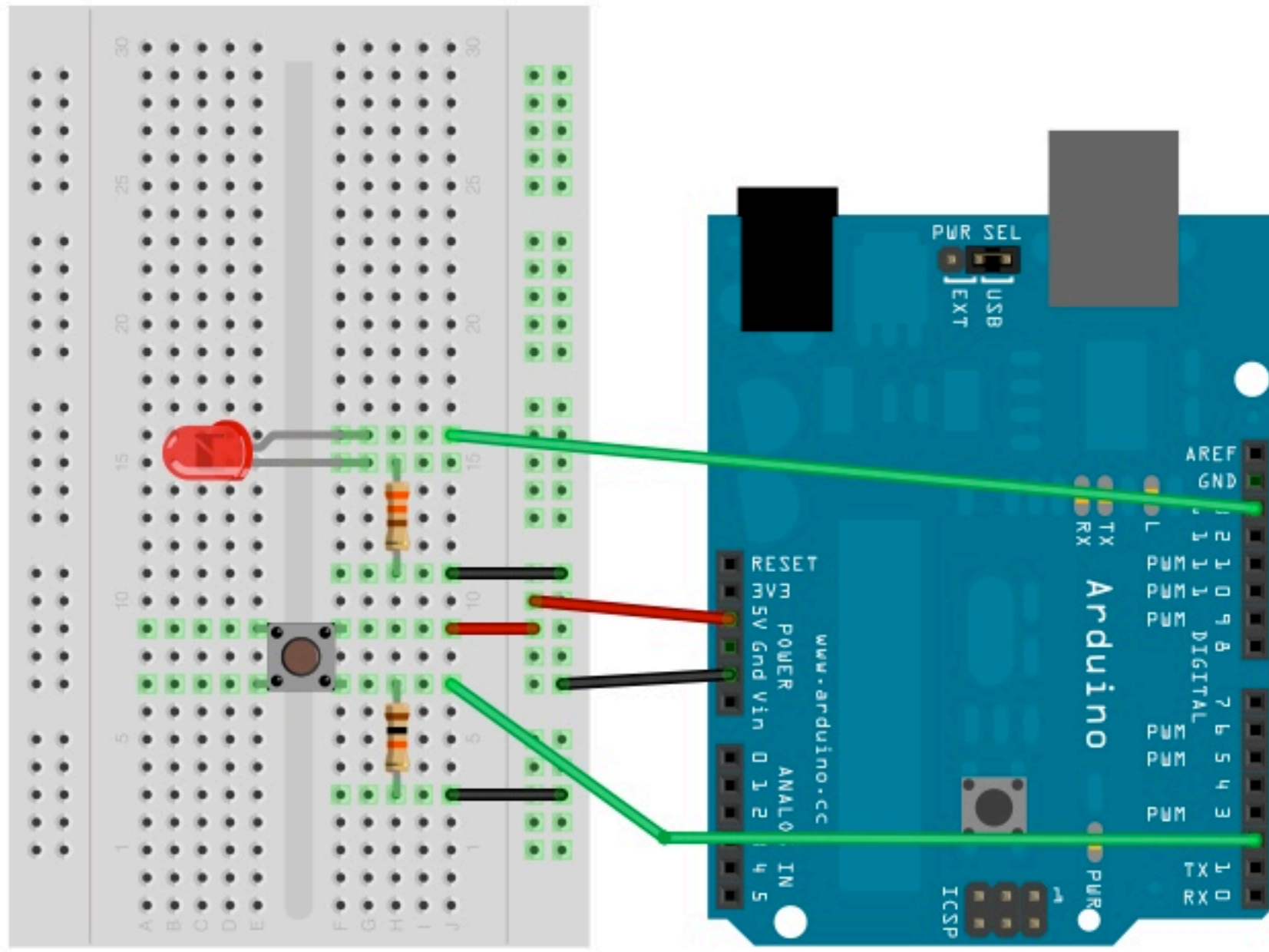


# Digital I/O

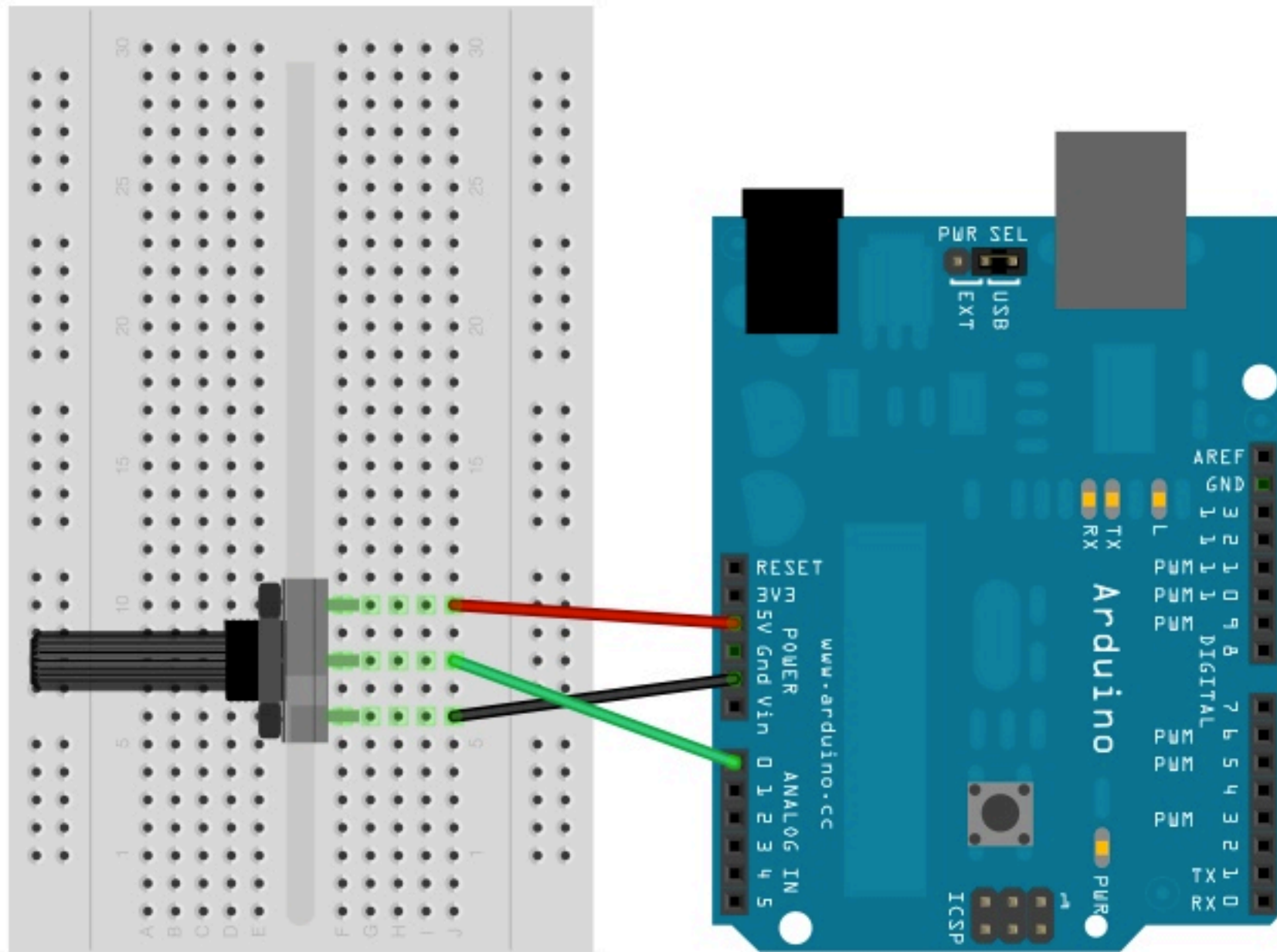


## Component List

- button
- LED
- 10k resistor
- 330 ohm resistor

Flash: Ex01\_DigitalIO.flas  
Ex02\_ButtonEvent.flas

# Analog Input

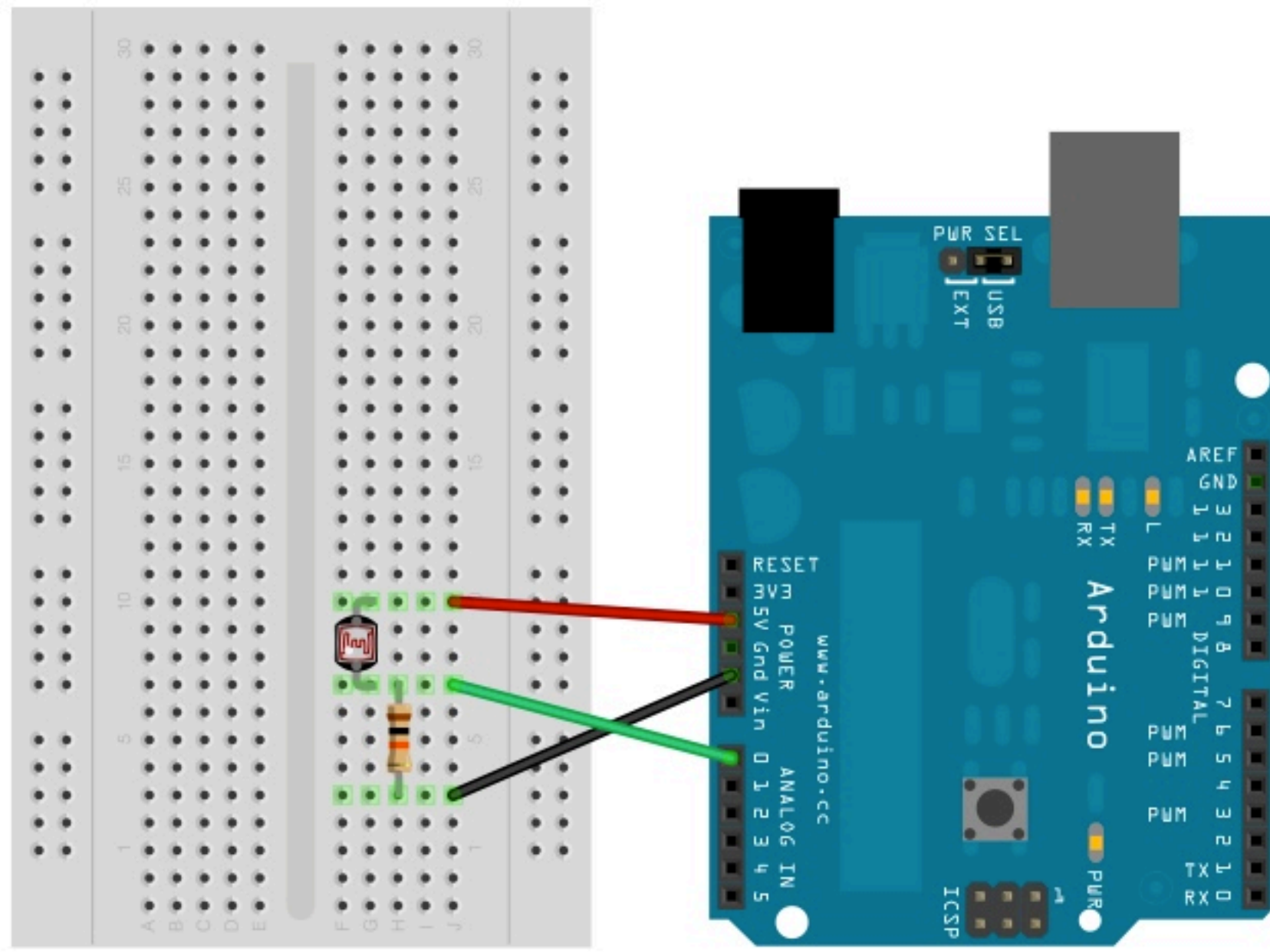


## Component List

- potentiometer

Flash: Ex03\_AnalogInput.flas  
Ex04\_Potentiometer.flas

# Photocell (Light Sensor)

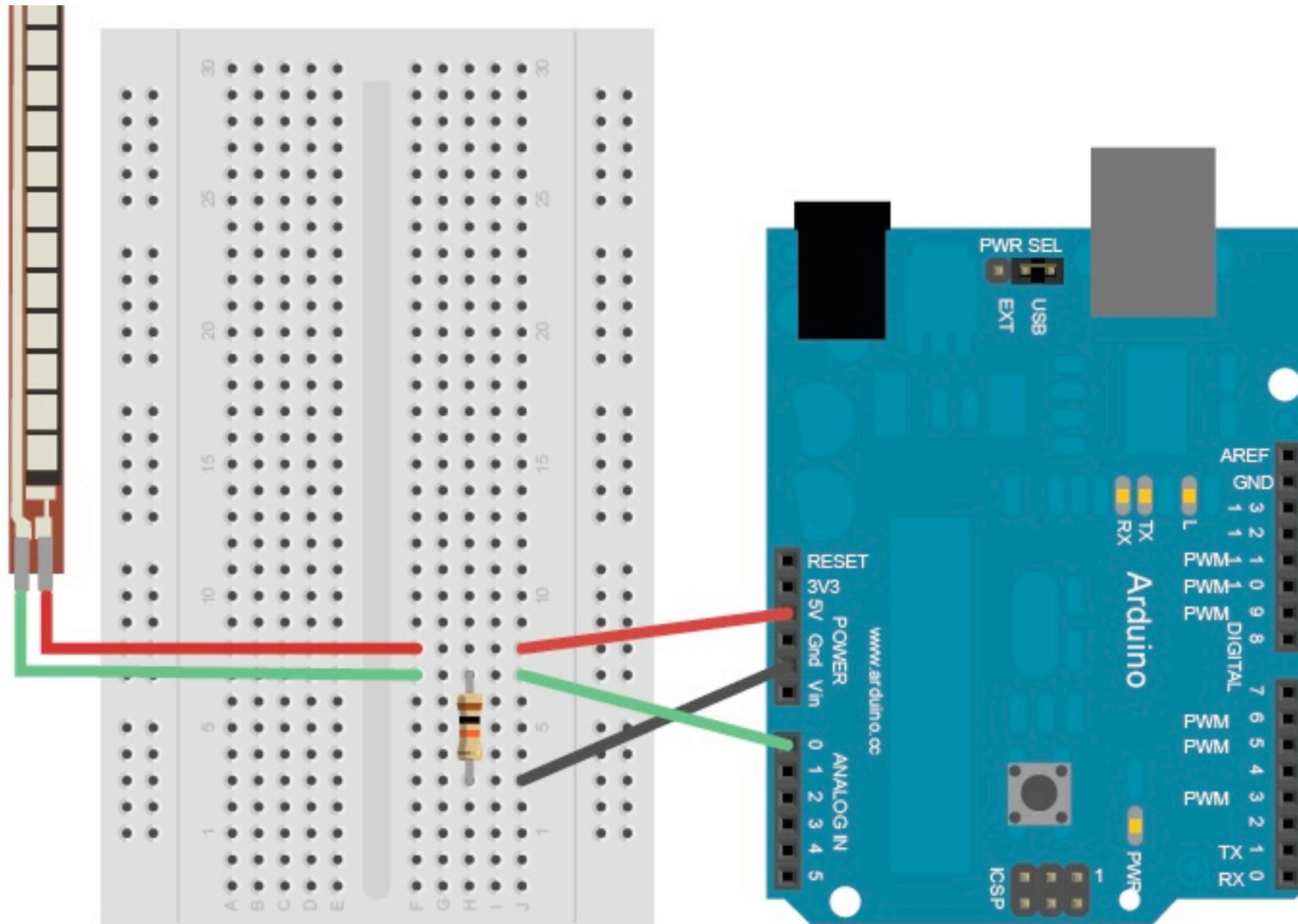


## Component List

- photocell
- 10k resistor

Flash: Ex05\_PhotoCell.flas

# Flex Sensor



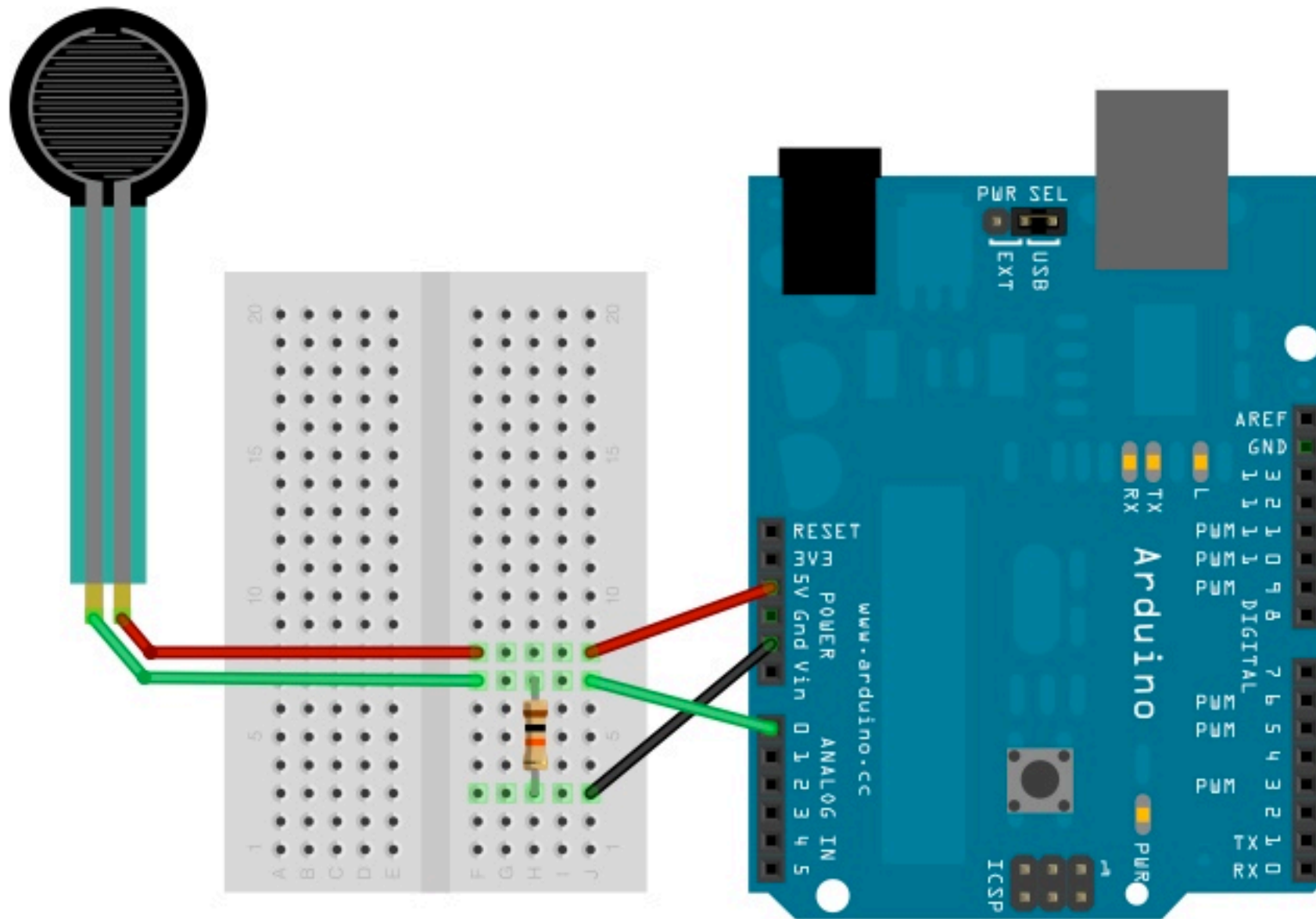
## Component List

- flex sensor
- 10k resistor

Flash: Ex06\_FlexSensor.fla



# Force Sensing Resistor (FSR)



## Component List

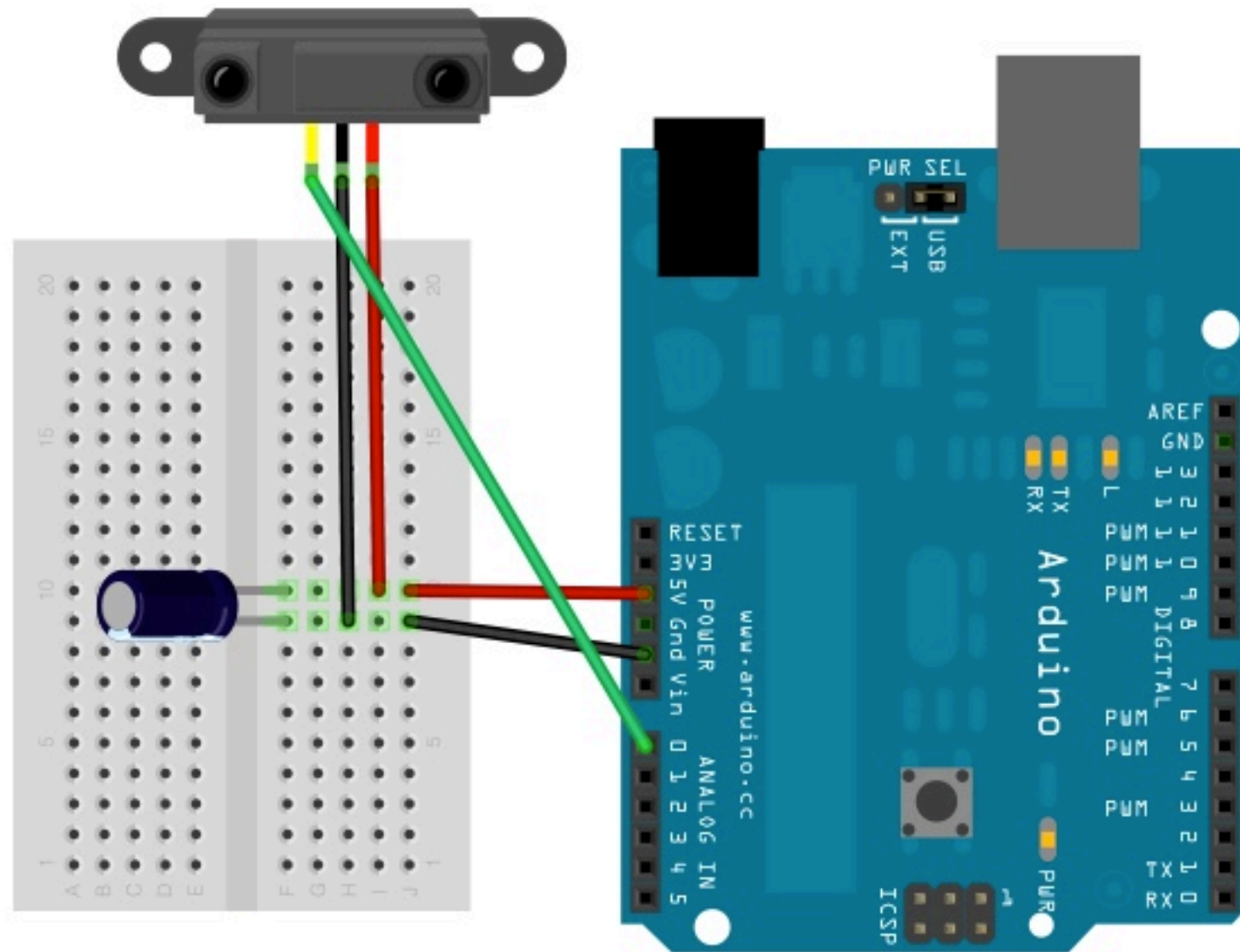
- FSR
- 10k resistor

Flash: Ex07\_FSR.fla

- LM335A temp sensor
- 330 ohm resistor

Flash: Ex08\_TempSensor fla

# IR Range Finder

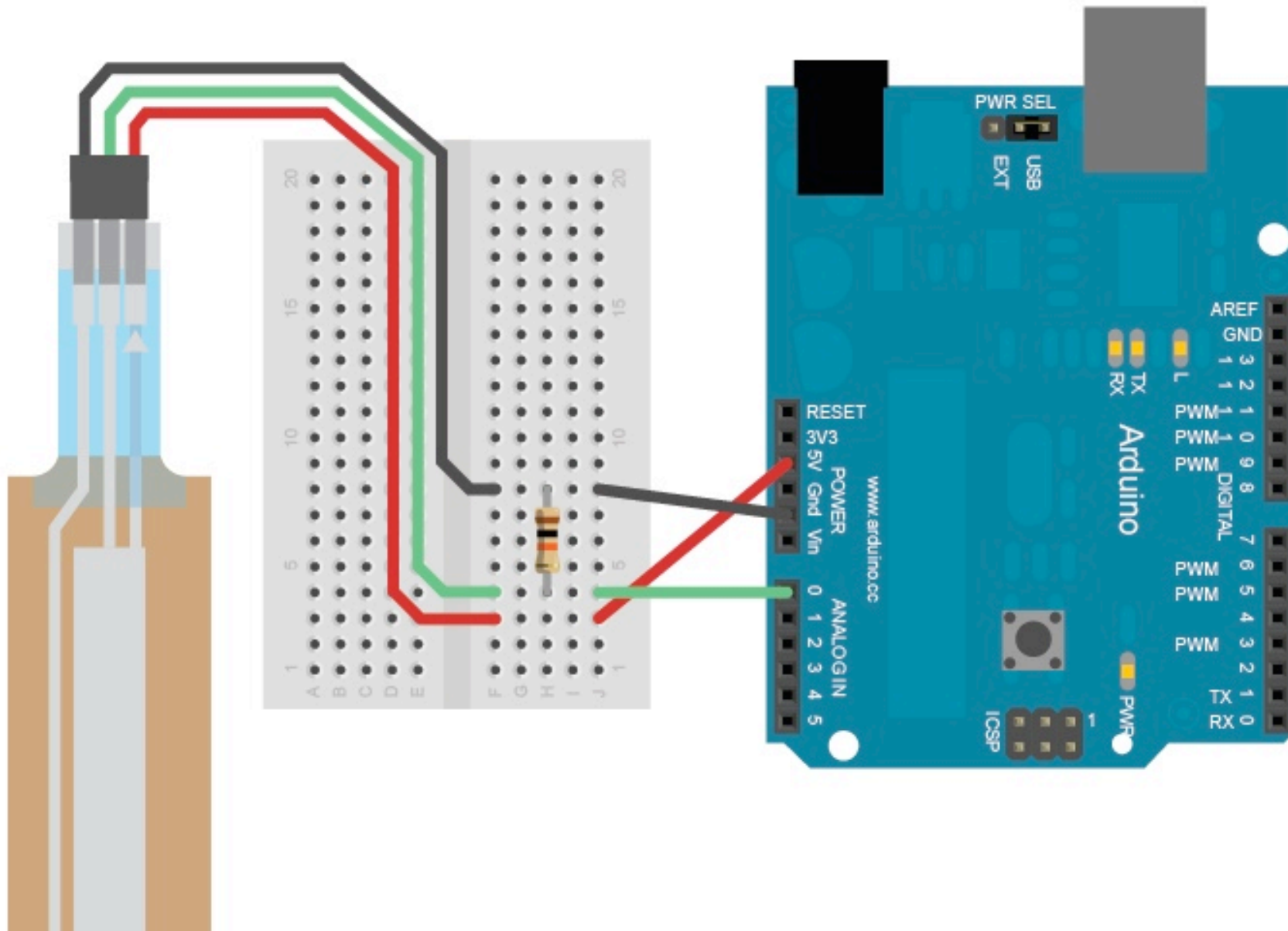


## Component List

- Sharp IR rangefinder
- 10uF capacitor

Flash: Ex09\_IR\_Rangefinder.flas

# Softpot



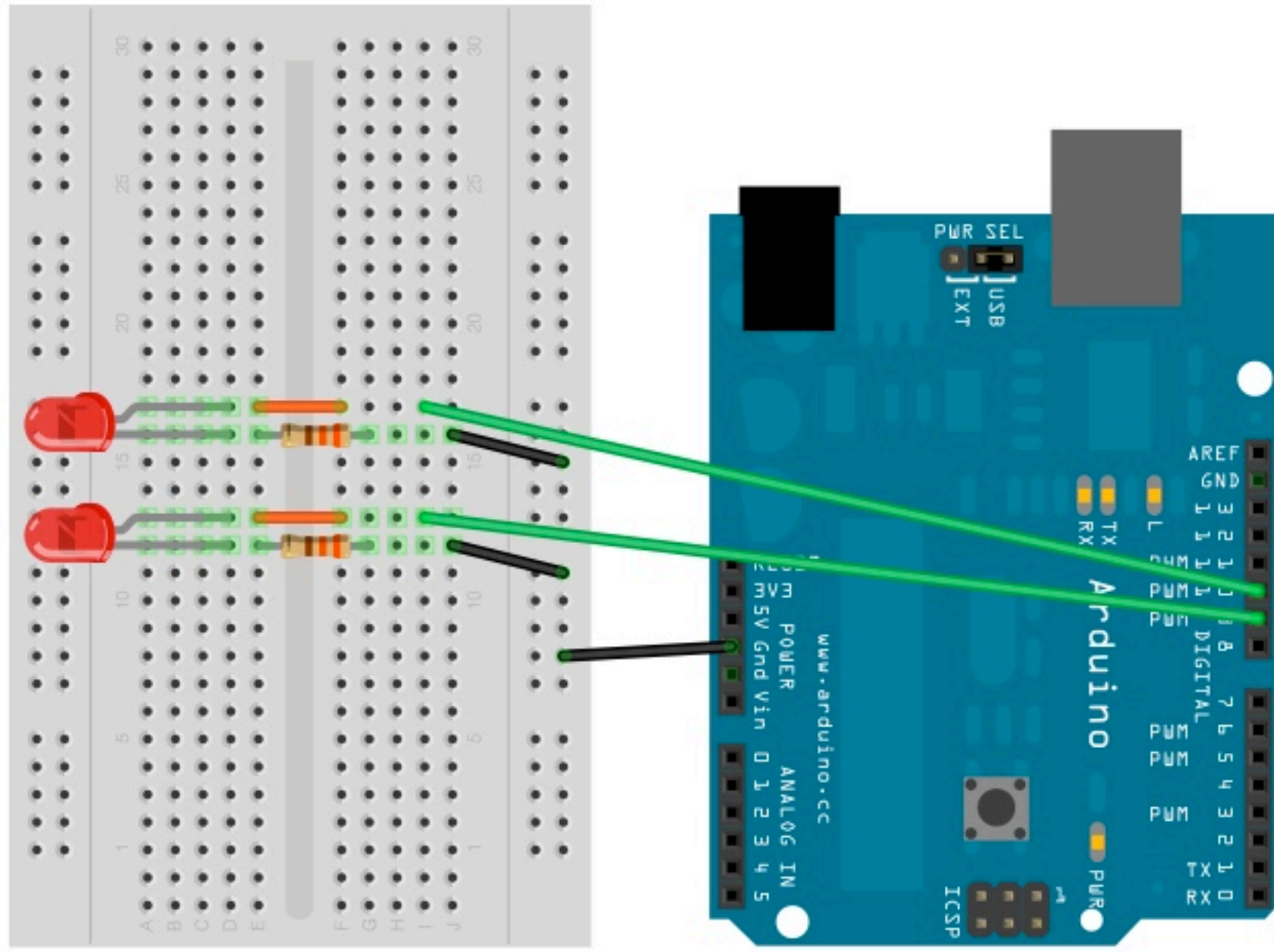
## Component List

- softpot
- 10k resistor

Flash: Ex10\_SoftPot.fla



# LED

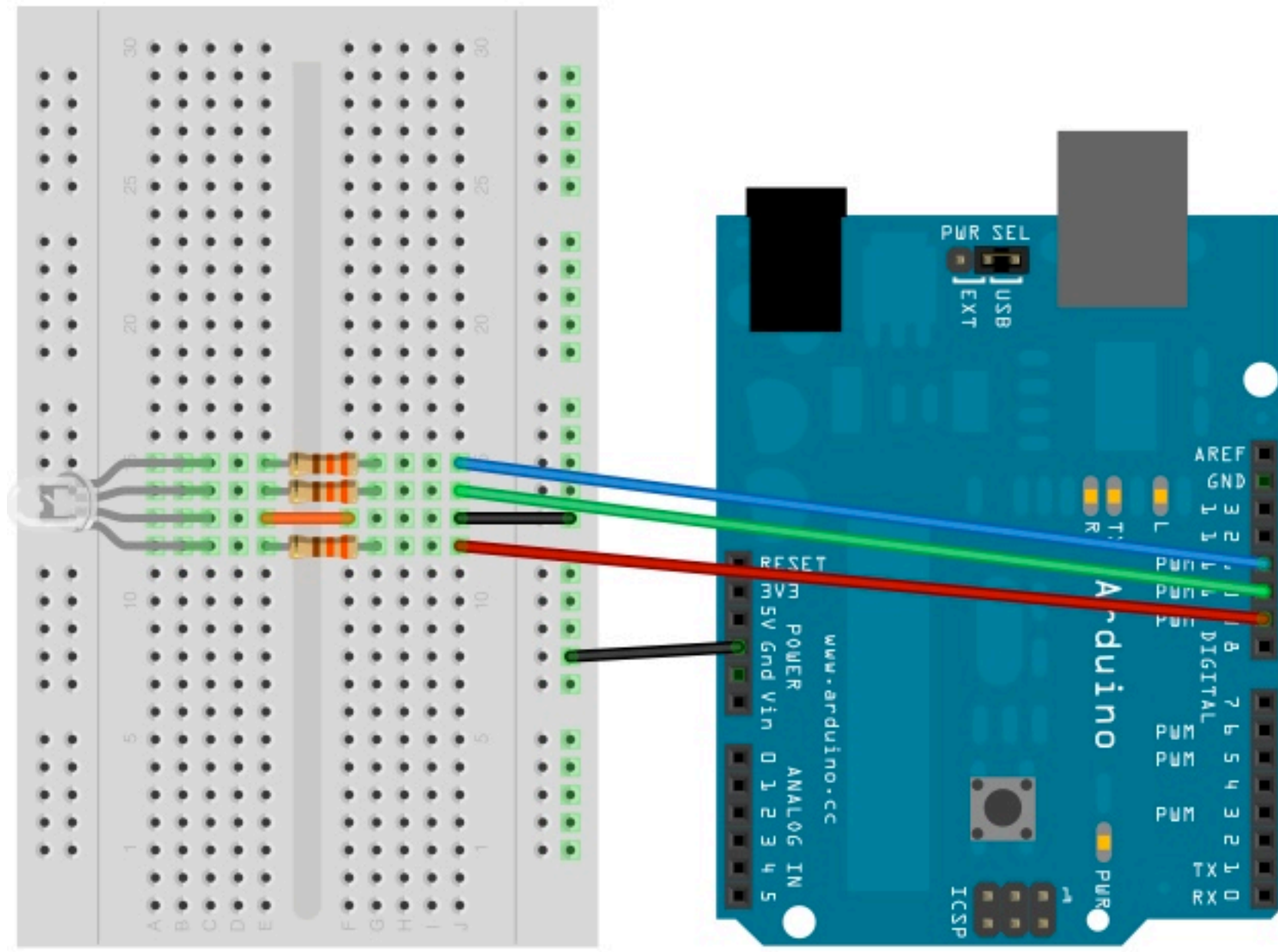


## Component List

- 2 LEDs
- 2 330 ohm resistors

Flash: Ex11\_LED.fla

# RGB LED (Common Anode)

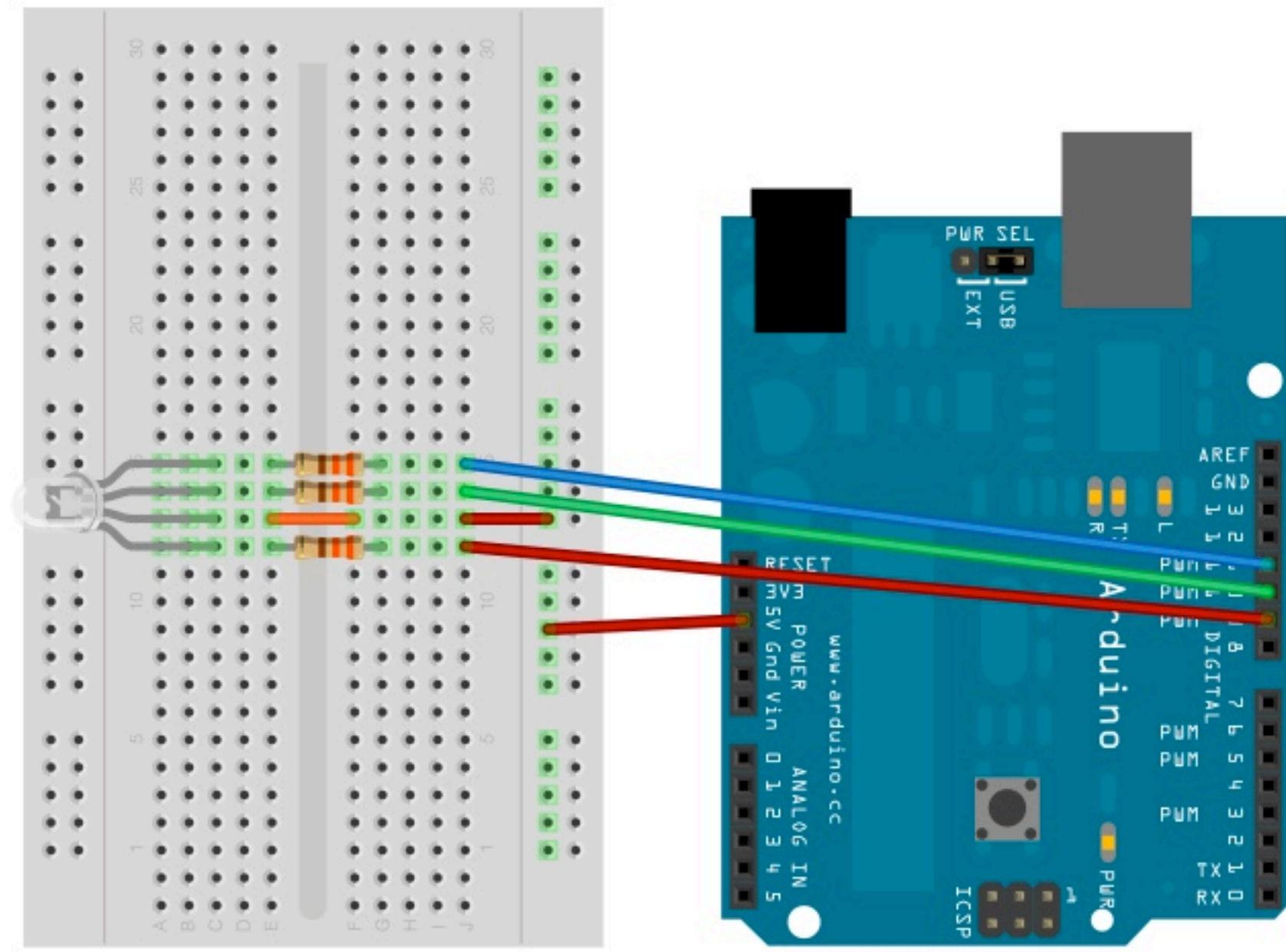


## Component List

- RGB LED
- 3 330 ohm resistors

Flash: Ex12\_RGBLED fla

# RGB LED (Common Cathode)

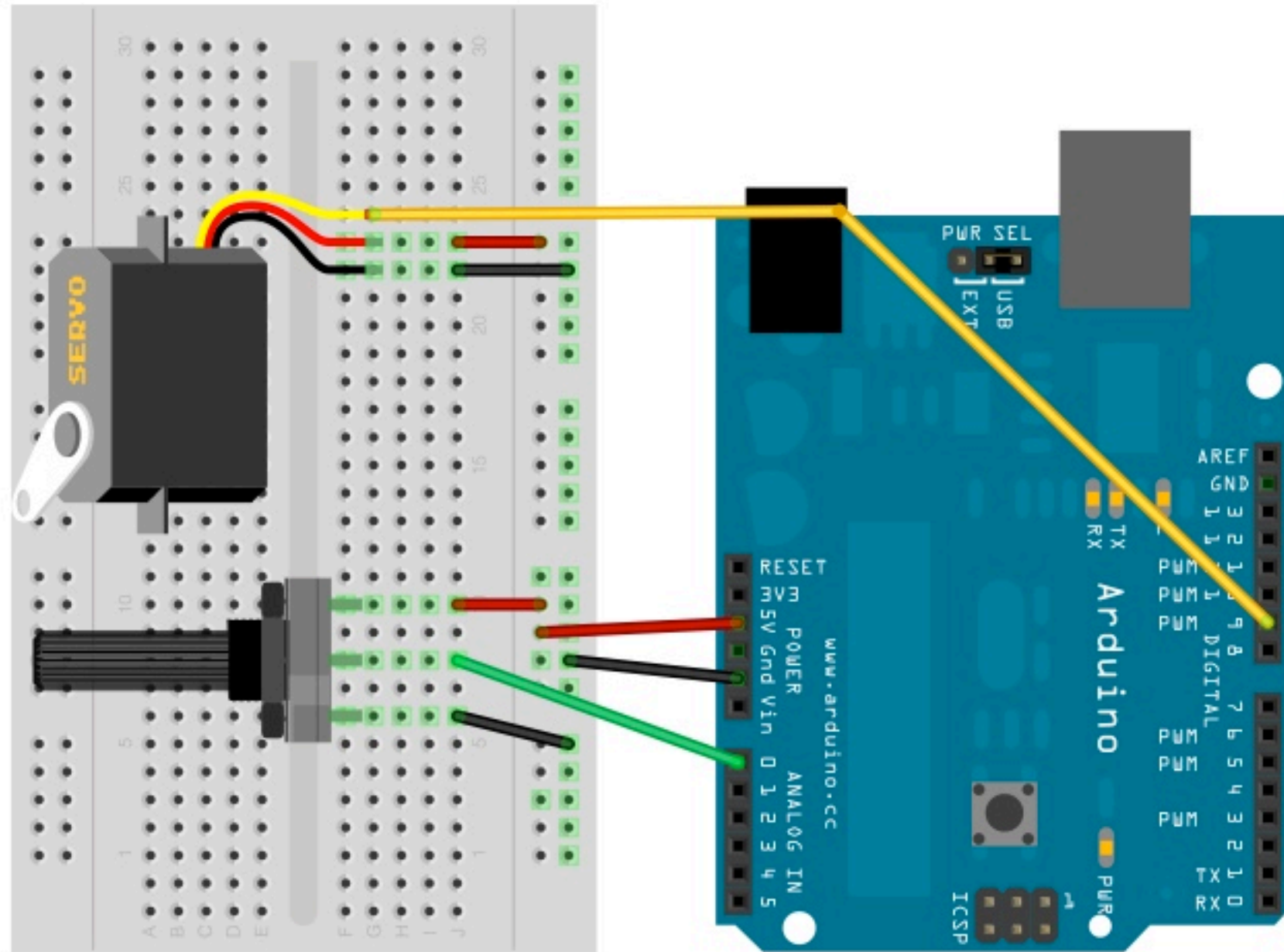


## Component List

- RGB LED
- 3 330 ohm resistors

Flash: Ex12\_RGBLED fla  
Ex01\_RGBVersion fla (week 11 exercises)

# Servo



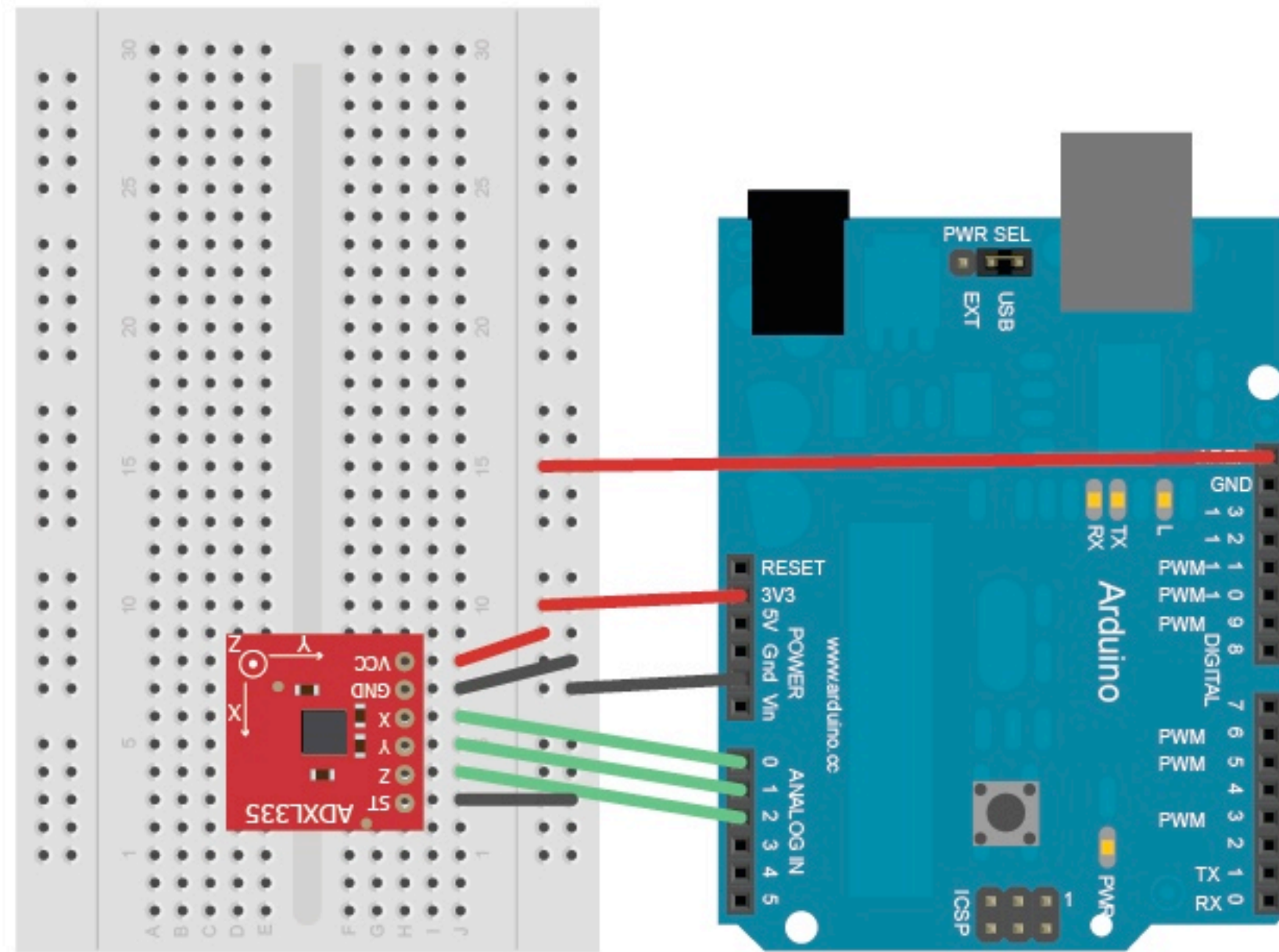
## Component List

- servo
- potentiometer

Flash: Ex13\_Servo fla



# Accelerometer

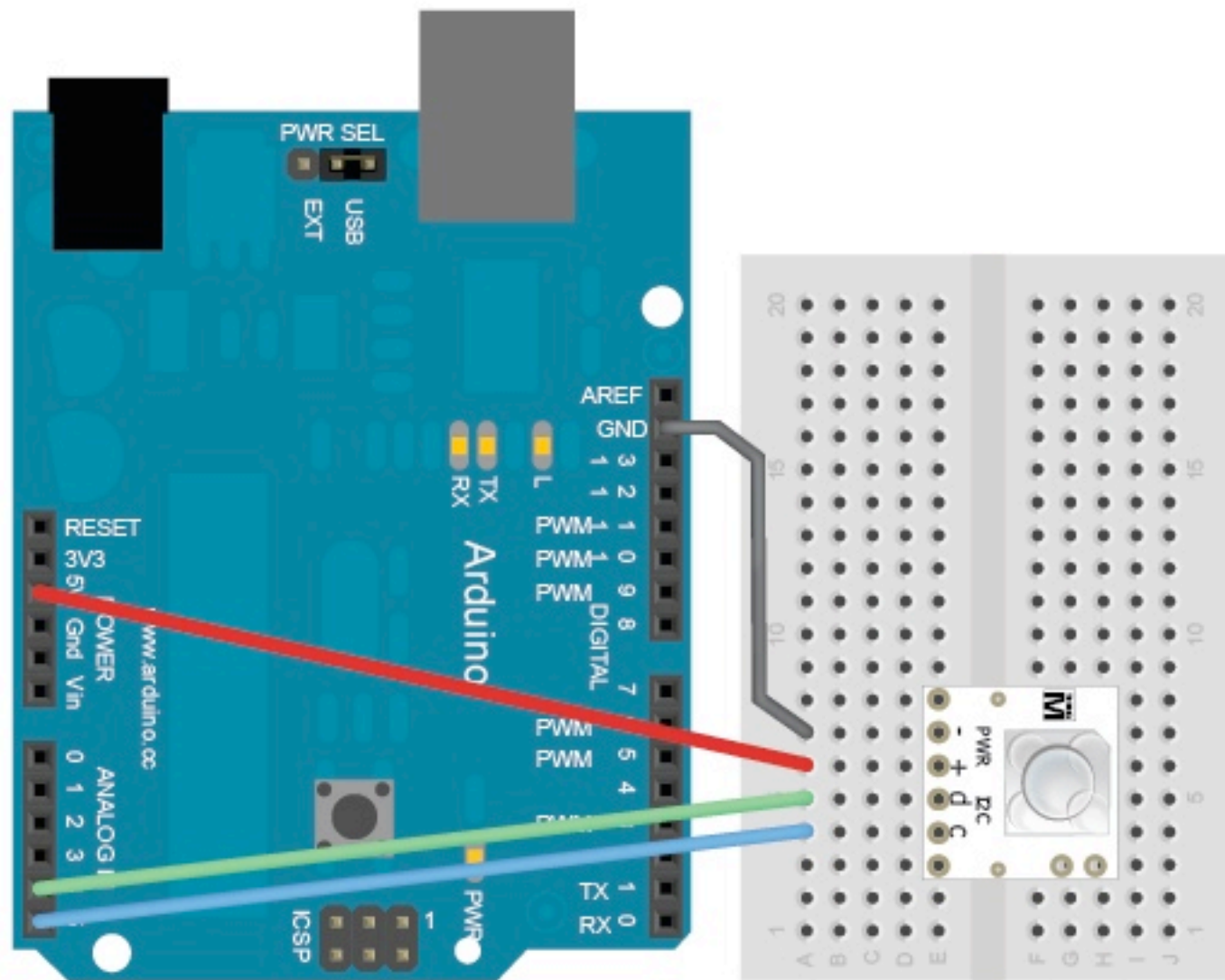


## Component List

- ADXL335 (or 330)

Flash: Ex14\_ADXL335.flas  
Ex15\_ADXL335\_handler.flas

# BlinkM

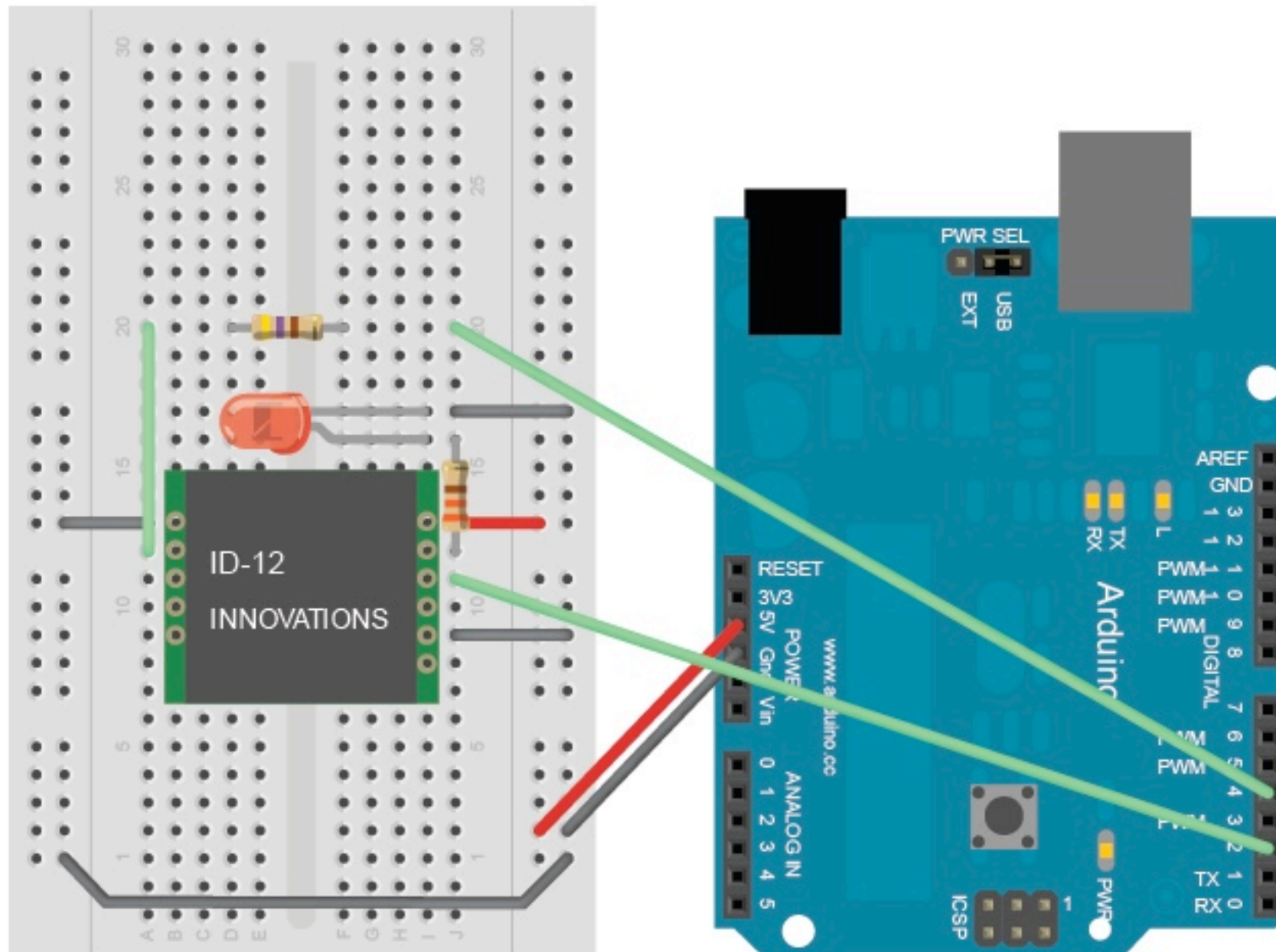


## Component List

- BlinkM RGB module

Flash: Ex01\_BlinkM.fla

# RFID

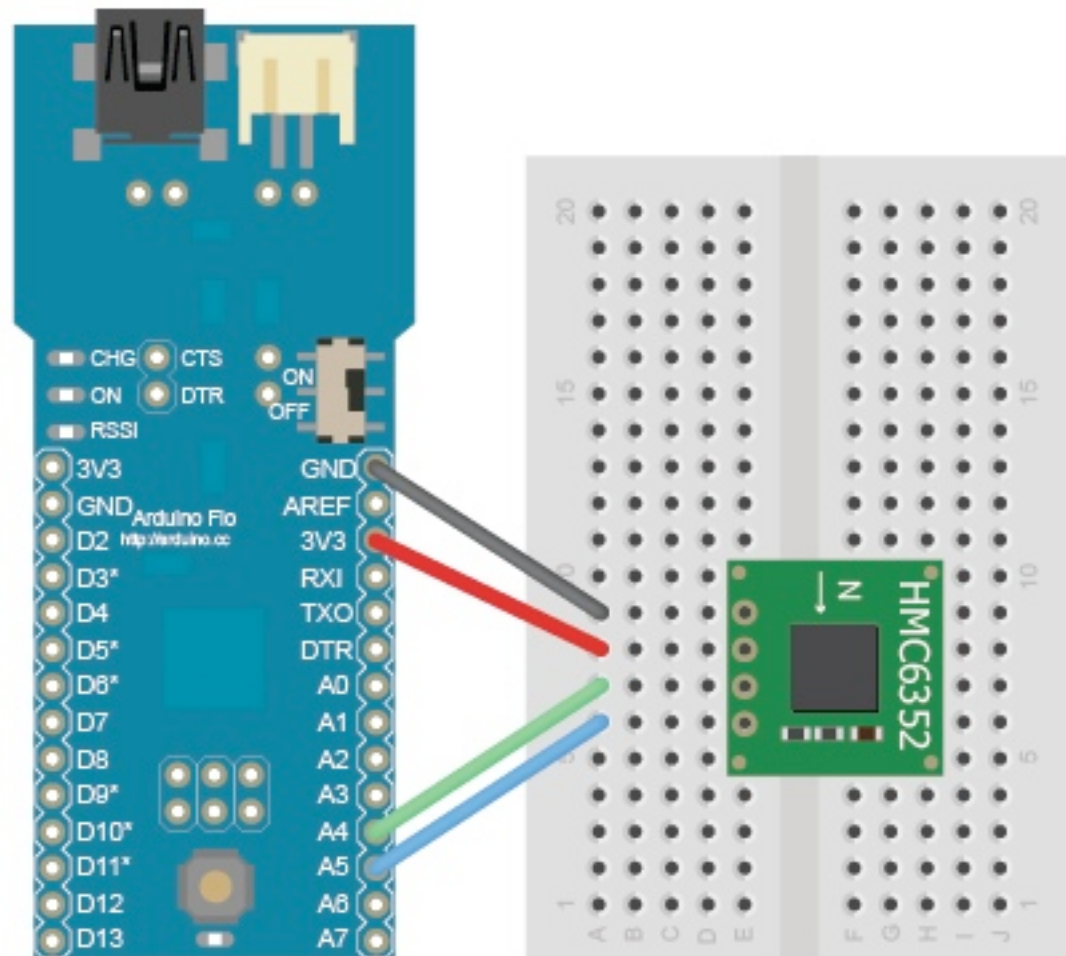


## Component List

- ID-12 RFID reader
- LED
- 330 ohm resistor
- 470 ohm resistor
- RFID tags

Flash: Ex02\_RFID.fla

# Digital Compass



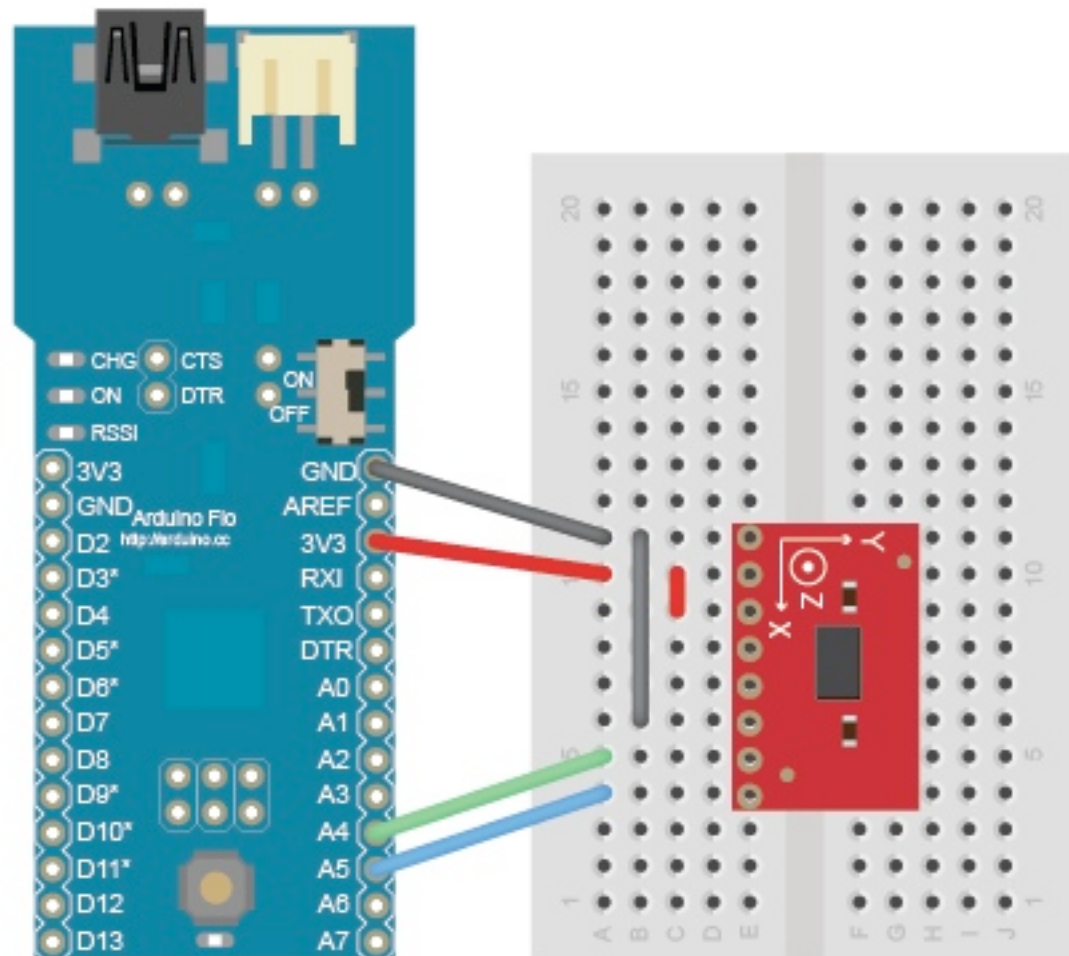
## Component List

- HMC6352 compass

Flash: Ex03a\_HMC6352.flas  
Ex03b\_HMC6352.flas



# Digital Accelerometer

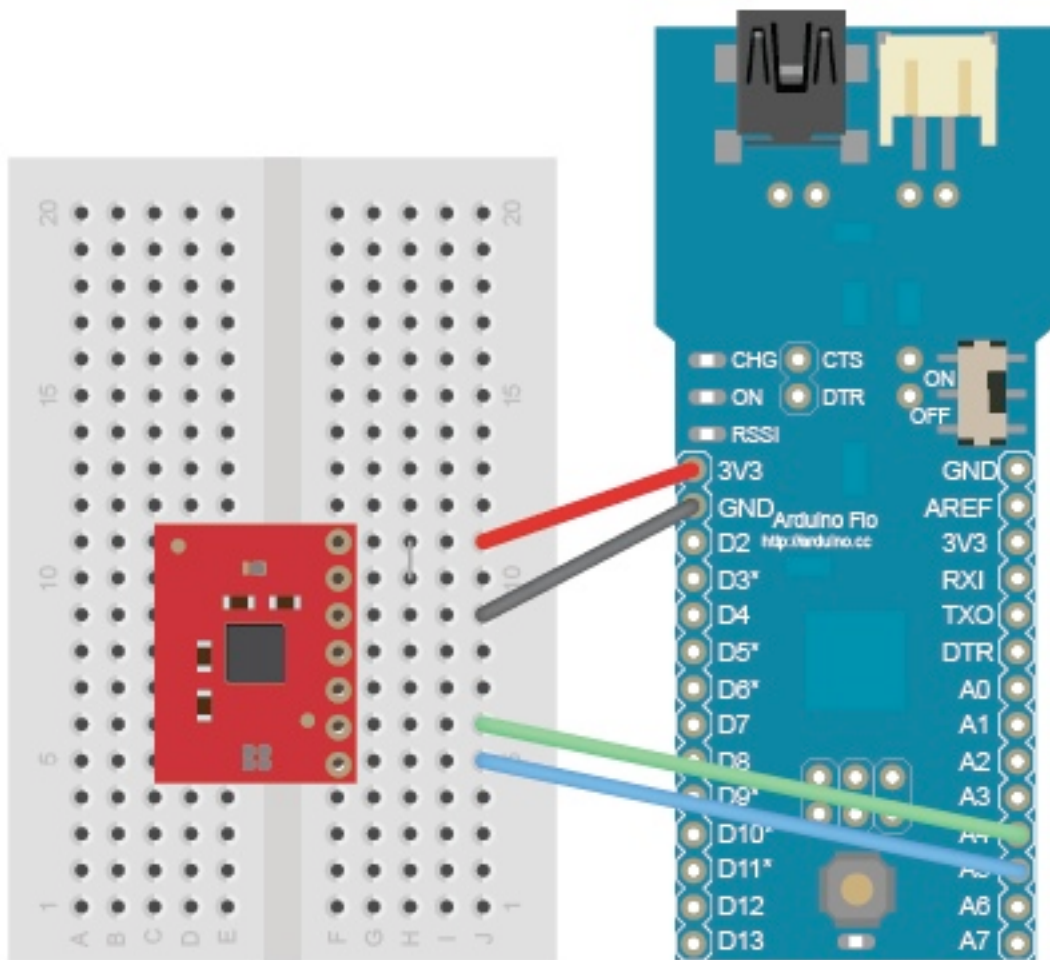


## Component List

- ADXL345 accelerometer

Flash: Ex04\_ADXL345.flas

# 3 Axis Gyroscope

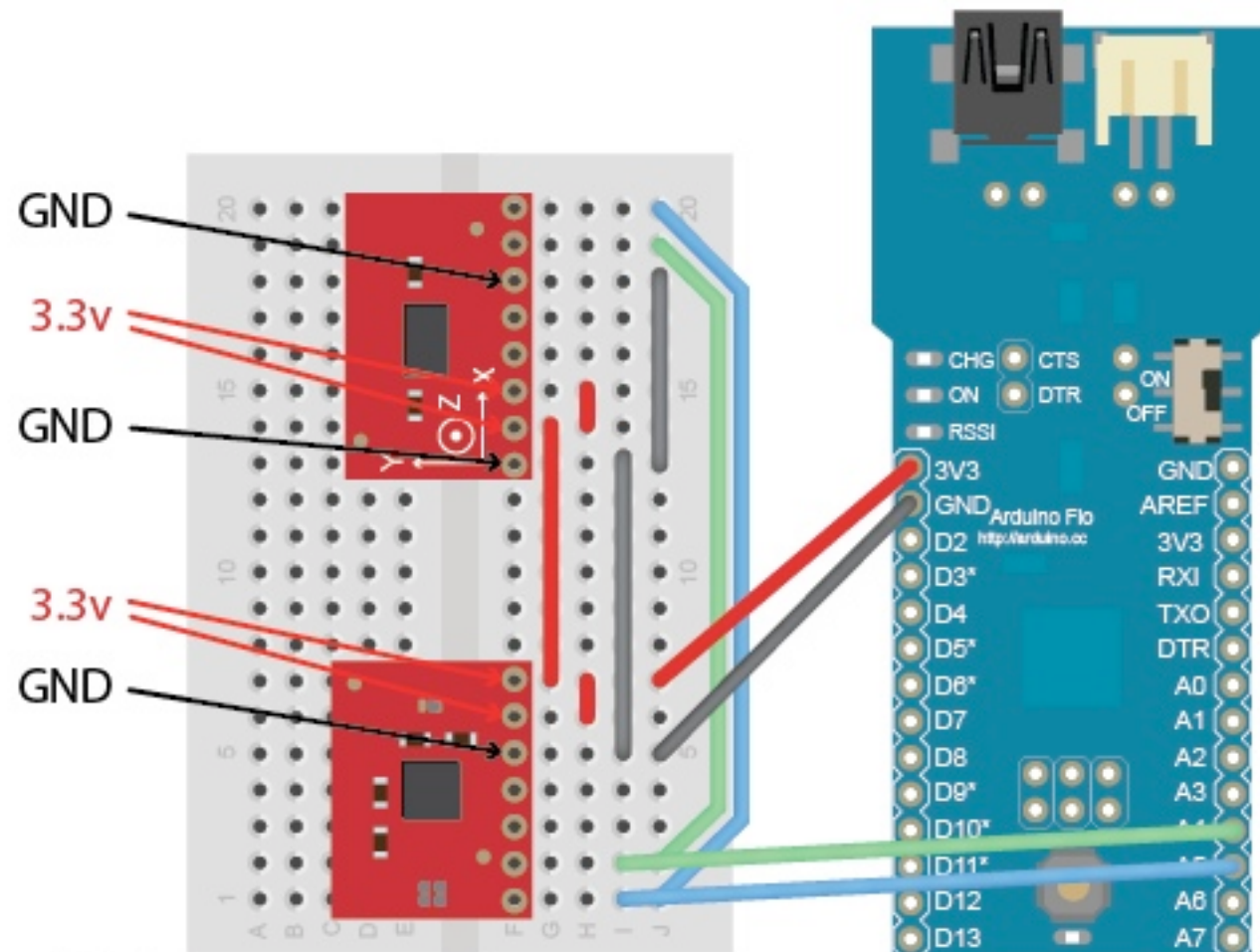


## Component List

- ITG3200 Gyro

Flash: Ex05\_ITG3200.fla

# Accelerometer + Gyro (IMU)



## Component List

- ADXL345
- ITG3200

Flash: IMU\_output.flas  
IMU\_Example.flas