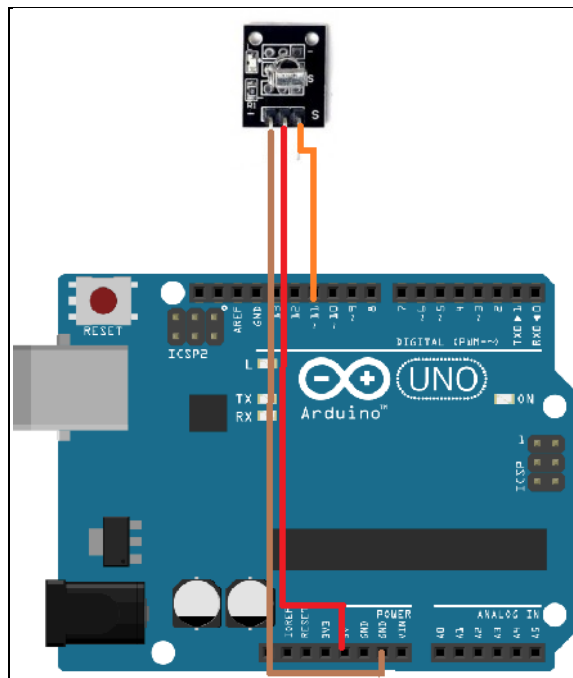


## Application: Arduino Infrared Remote Control

### COMPONENT NEEDED:

- Arduino UNO
- USB Cable
- Infrared IR Wireless Remote Control Module kit
- Male to male jumper wire

### CONNECTION:



IR Receiver	Arduino
GND (-)	GND
VCC	5V
Signal (S)	Pin 11

### **STEPS 1: Setup the connection.**

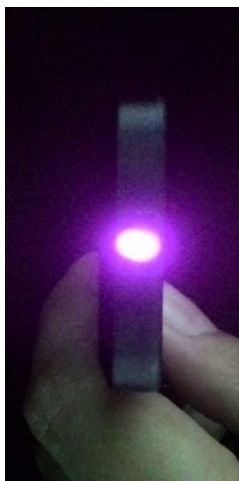
1. Connect the circuit as shown in figure above.
2. Connect your Arduino UNO to Arduino IDE.

### **STEPS 2: Setup the Arduino IDE.**

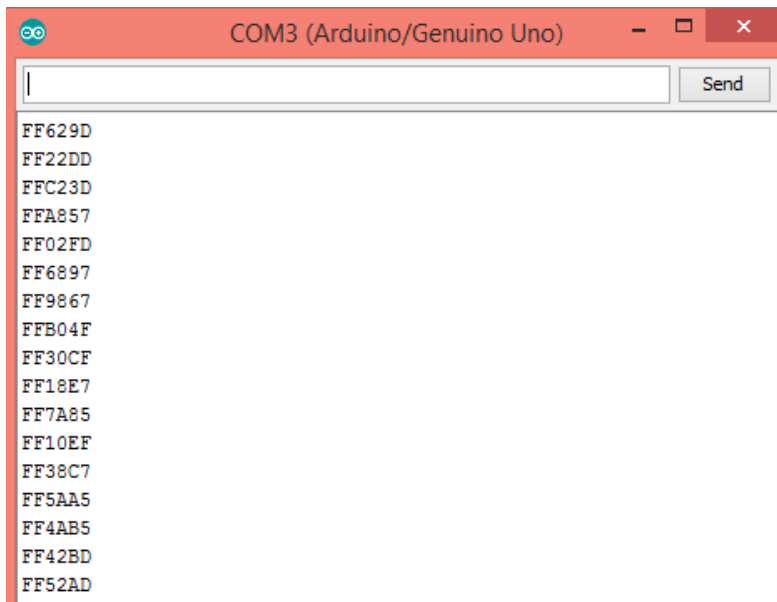
1. First of all, download the IRremote zip file.  
<https://github.com/shirriff/Arduino-IRremote>
2. Then extract that file and place it in C:\Program Files (x86)\Arduino\libraries.
3. Rename that file as IRremote or something else.
4. Next, we need to import our new library into the Arduino IDE.  
Click **Sketch-> Include Library-> IRremote**
5. Then upload the sketch. You can get the sketch from *Application1\_Sketch*.
6. Open up the Serial Monitor, get the remote, press the buttons and see the result.

### **STEPS 3: Setup the remote control.**

1. Firstly, let's check that the remote is transmitting. There will be a little plastic tab that is inserted in battery compartment of the remote when you receive it. Remove that tab.
2. The remote works by flashing an infrared led. This occurs at a wavelength that is invisible to the human eye, but it is not invisible to most digital cameras.
3. Here is a picture I took with my phone to verify that pressing a button was causing the LED to blink. Again you'll have to do this with a camera, you won't see it with your eyes.



**RESULT:**



**CONCLUSION:**

- Here are the codes that I get through Serial Monitor when I press this remote control's button:

