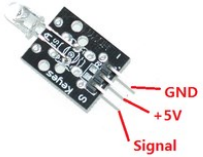
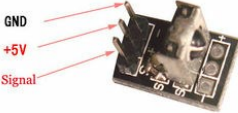
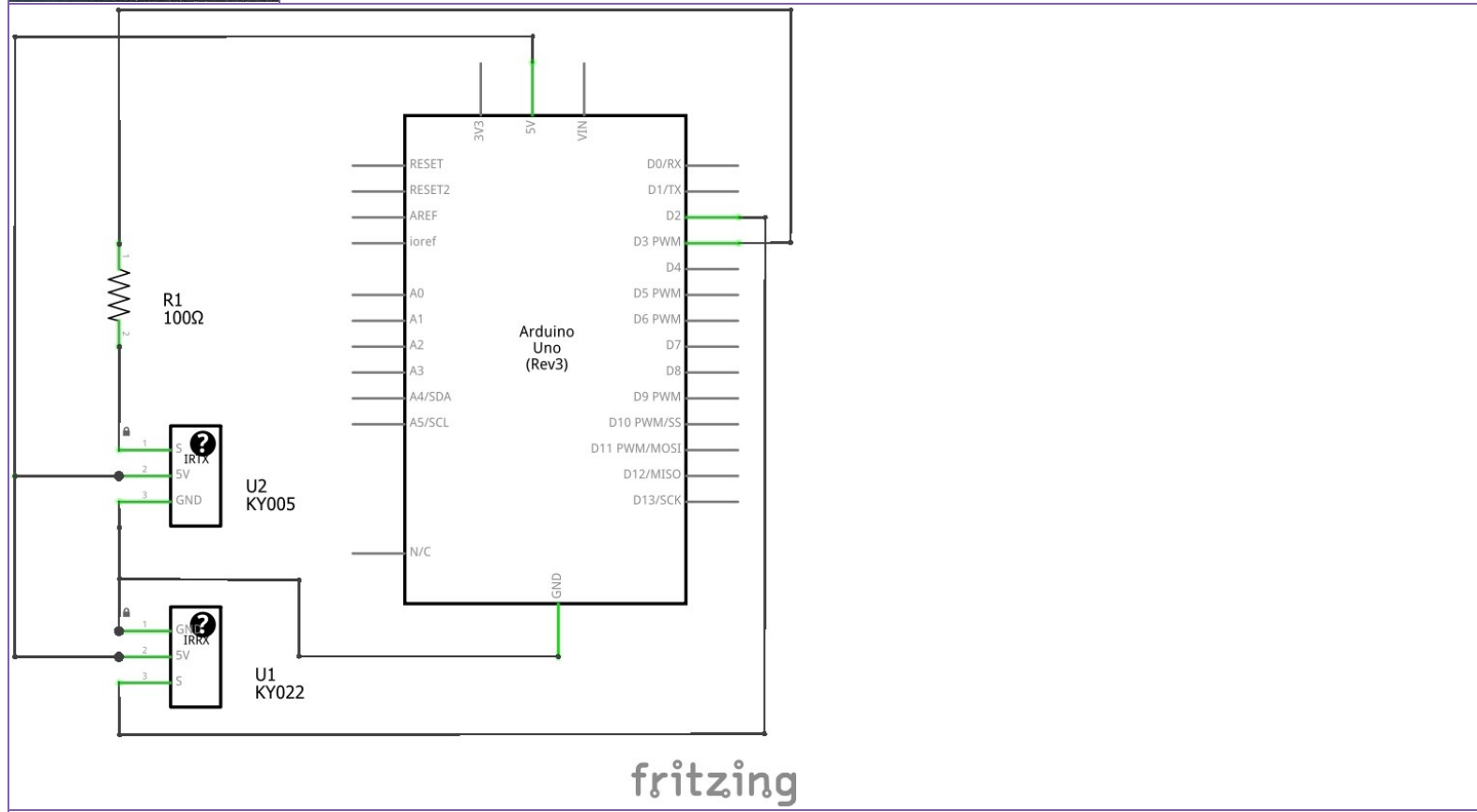
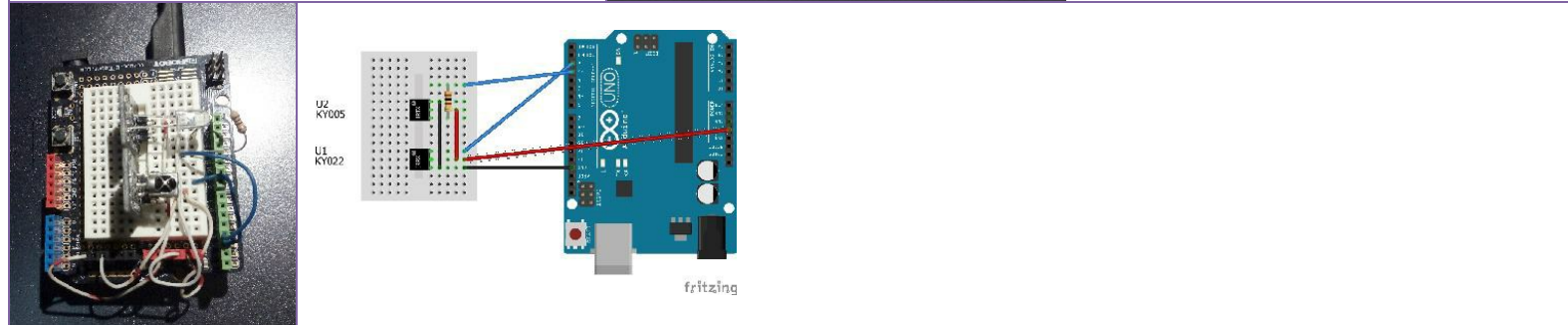
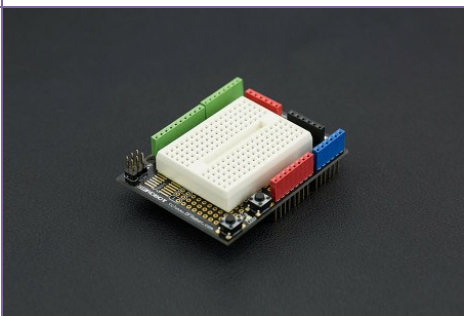


Hardware (experimental)

For a fast test I used an IR receiver and an IR transmitter from the "37 in 1 sensor kit" sold by many vendors:

<p>KY005: Infrared Transmitter Module</p>	 <p>A small black PCB module with three pins labeled GND, +5V, and Signal.</p>	<p>This is an infrared transmitter module that is used to emit infrared signal.</p> <ul style="list-style-type: none">• Arduino Sample Code
<p>KY022: Infrared Receiver Module</p>	 <p>A small black PCB module with three pins labeled GND, +5V, and Signal. The text "NO: KY022" is written above it.</p>	<p>This is the infrared receiver module, with the following features:</p> <ul style="list-style-type: none">• The infrared receiver module is 1838 Infrared receiver• Acceptance angle: 90 °,• Operating voltage: 7-5.5V.• Frequency: 37.9KHZ,• Receiving distance: 18Meter.• Using inside and outside the double-shielded package structure• Anti-light, electromagnetic interference capability, built-in infrared dedicated IC Can in 500 LUX Light intensity to work properly.• Widely used in: stereo, TV, VCR, disc players, set-top boxes, digital photo frame, car audio, remote control toys, satellite receiver, hard disk player, air conditioners, heaters, fans, lighting and other household appliances. <ul style="list-style-type: none">• Arduino Sample Code

To get a compact and robust circuit, I used a Prototyping Shield by DFRobot



The Arduino Sketch is the file `rawRXTX02.ino`. Requires: [IRlib2](#), and [PHP Serial extension](#), free version (with limits). Maybe you must change the 'COM' port used by Arduino (in `irp_rxtxArduino.php`).