

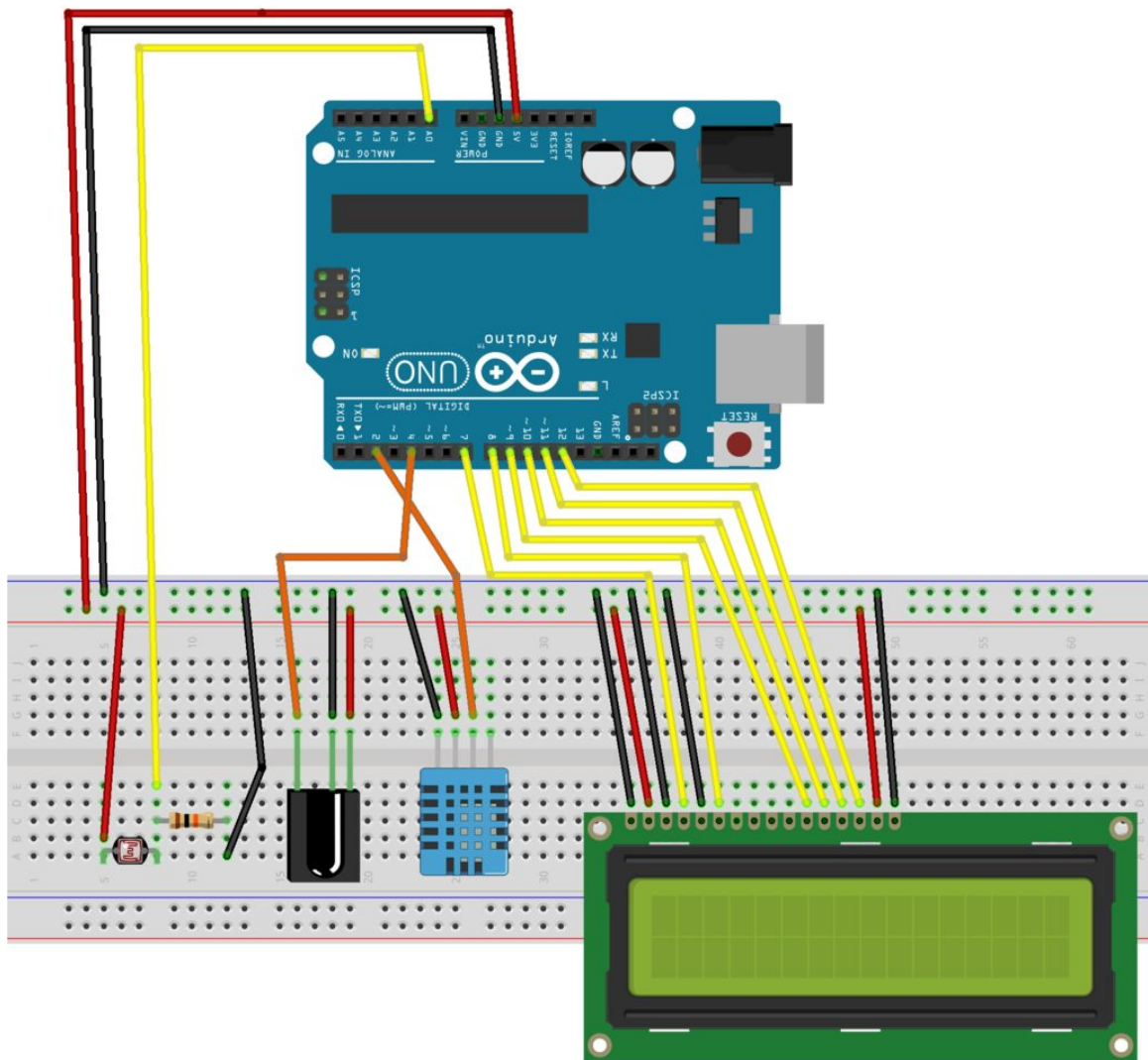
# WEATHER STATION

by AaronB299 (/member/AaronB299/)

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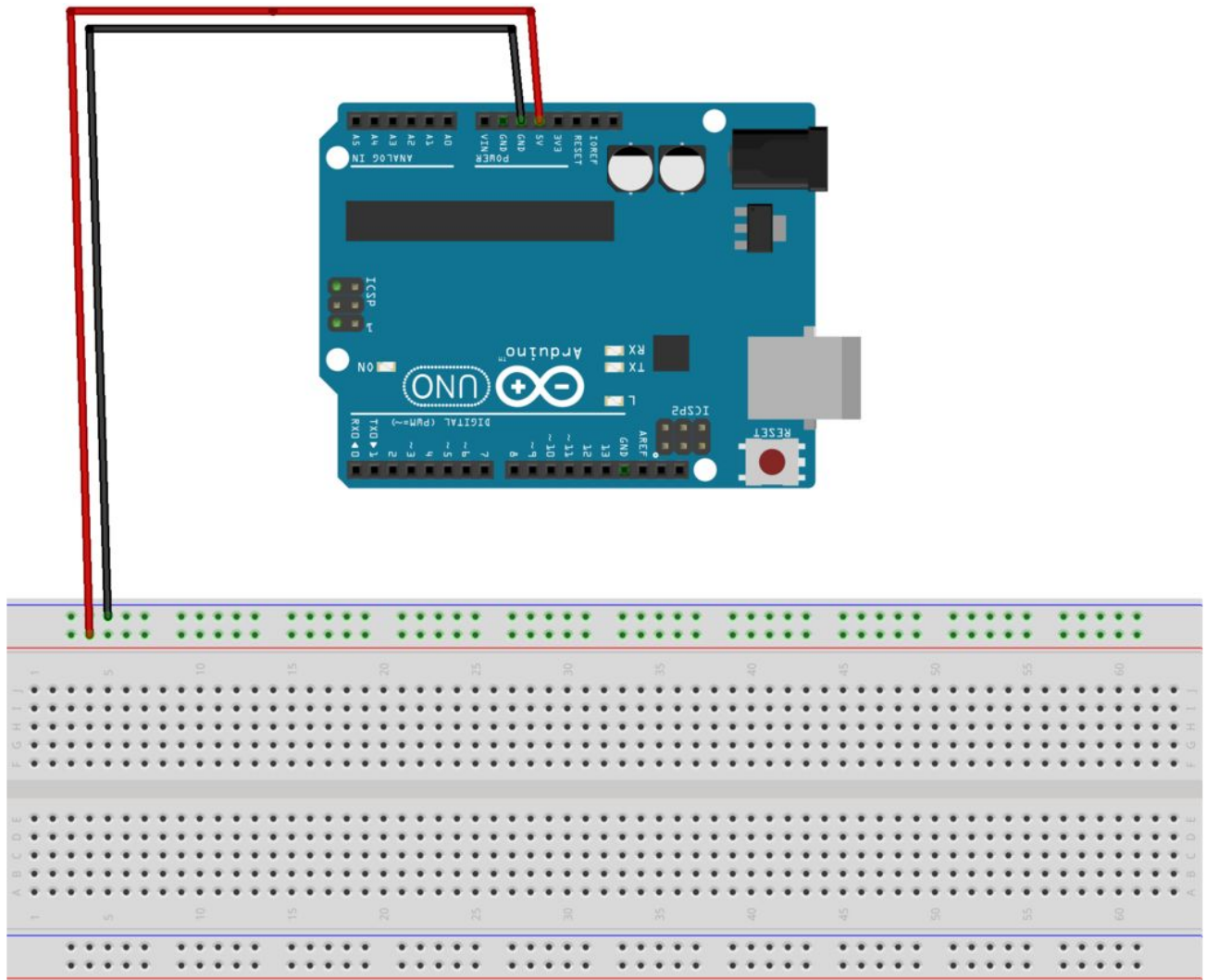
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## Step 1: Add Basic Components



<https://cdn.instructables.com/EA5U15AD/IDOLIVC21/EA5U15AD-IDOLIVC21-LARGE.jpg>

fritzing

1. Add Arduino UNO R3
2. Add breadboard
3. Connect 5v to breadboard power rail
4. Connect GND to breadboard ground rail



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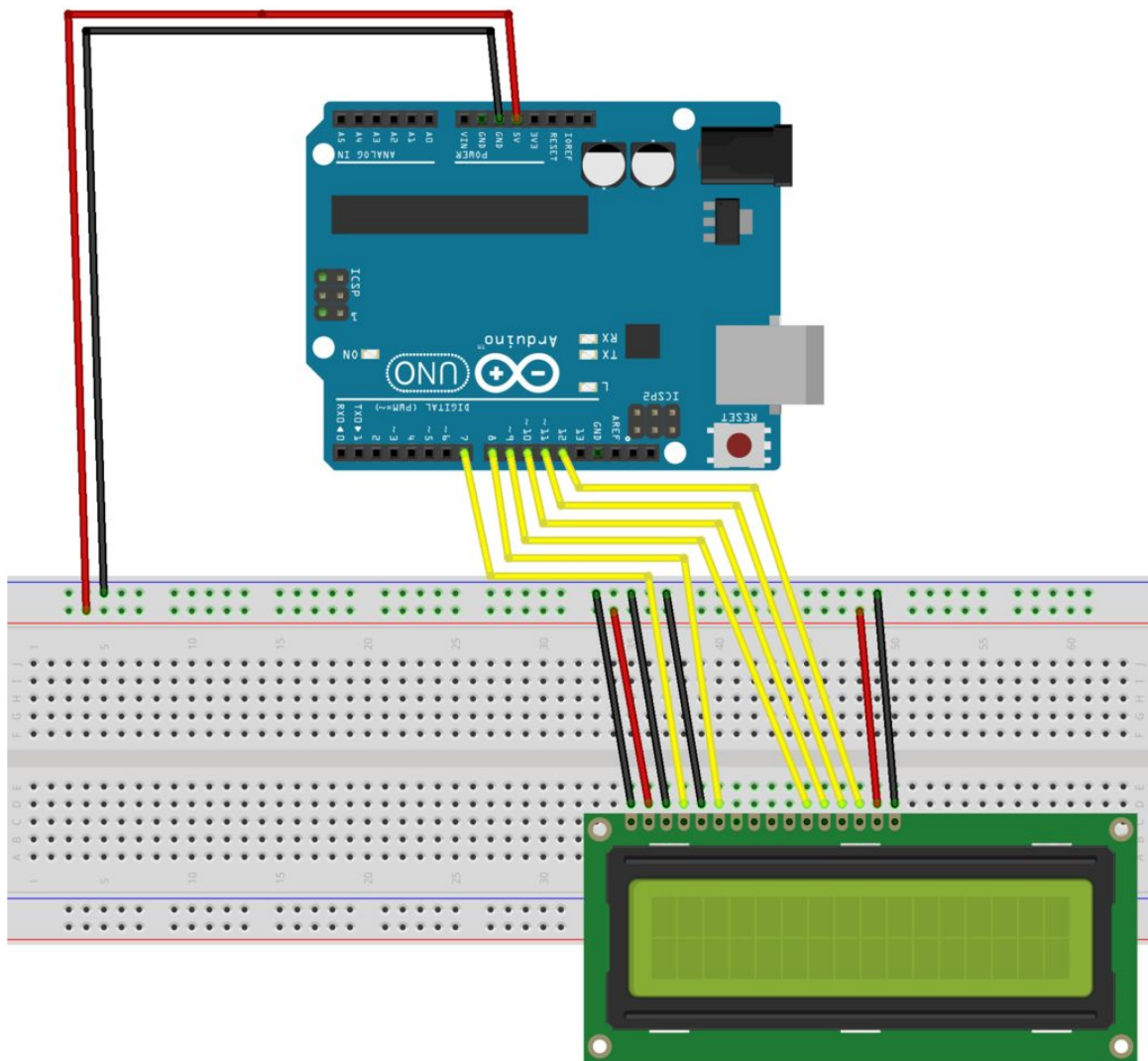
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## Step 2: Add LCD Screen



<https://cdn.instructables.com/F1G/B78E/IDOLMBY5/F1GB78EIDOLMBY5LARGE.jpg> fritzing

The LCD screen's pins must be connected to the breadboard and Arduino UNO R3 in the following order. From left to right with the left starting at LCD pin 1 and ending at the right with LCD pin 16:

1. Ground
2. Power
3. Ground
4. Pin 7
5. Ground
6. Pin 8

7. Leave unconnected
8. Leave unconnected
9. Leave unconnected
10. Leave unconnected
11. Pin 9
12. Pin 10
13. Pin 11
14. Pin 12
15. Power
16. Ground



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## Step 3: Add DHT11 Sensor

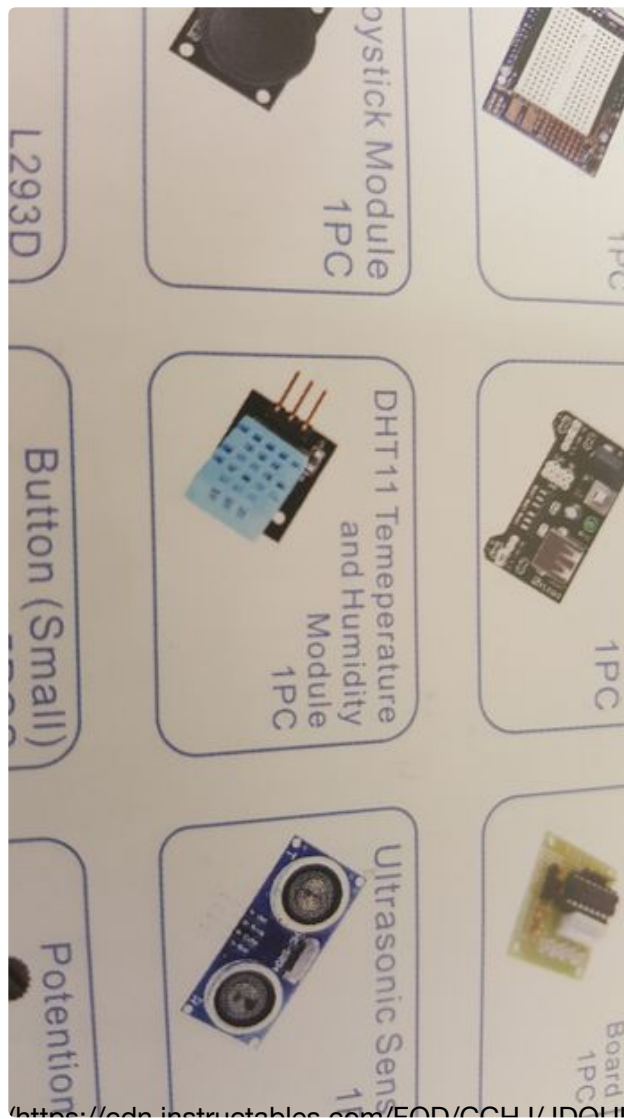


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## Step 4: What the DHT11 Sensor Ought to Look Like



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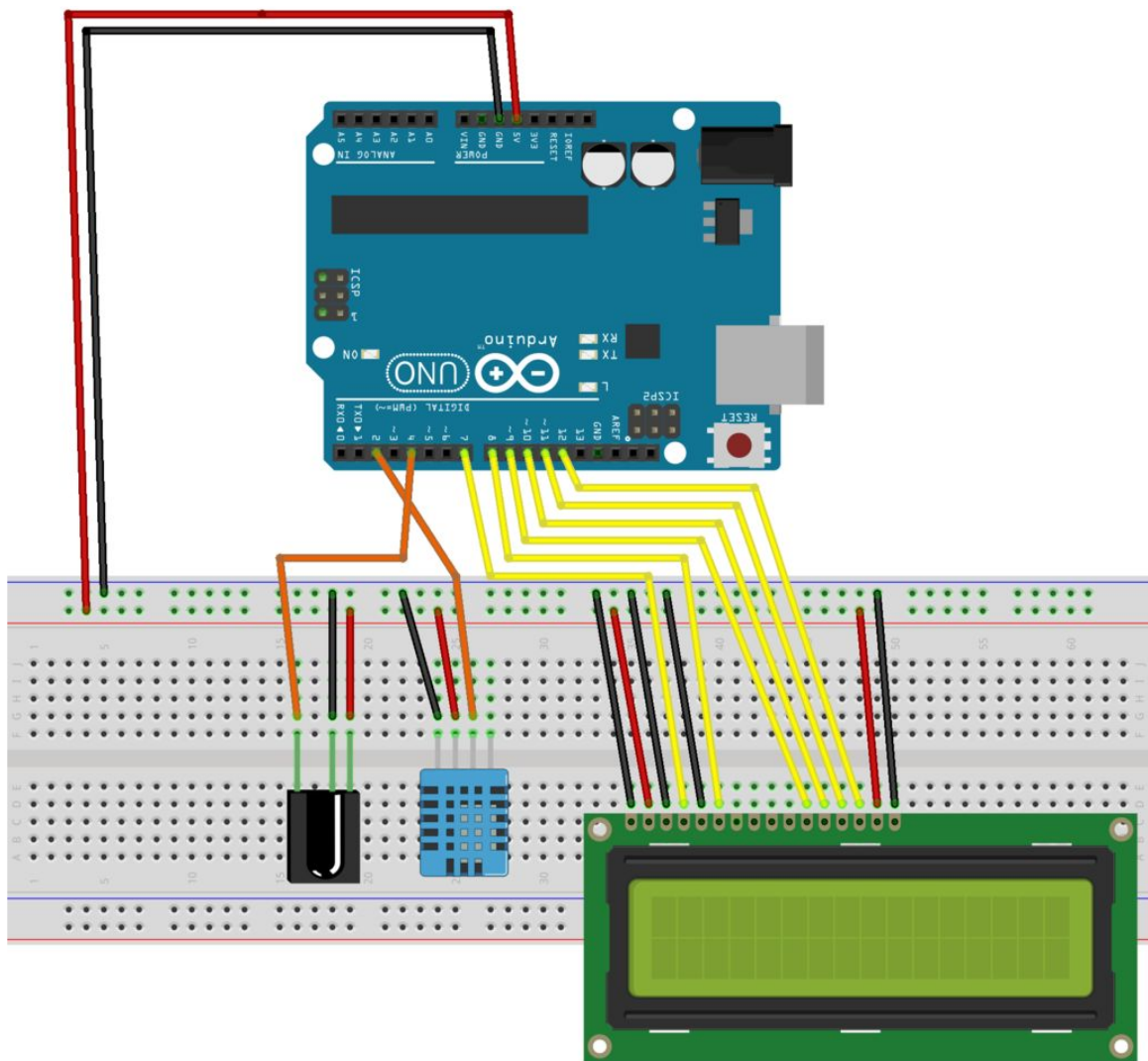


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## Step 5: Add IR Receiver





<https://cdn.instructables.com/EV6A/NT4/IDOLVBR4/EV6A/NT4/IDOLVBR4/LARGE.jpg> fritzing

My IR receiver looks different and denotes G for ground, R for power, and Y for output pin.

1. Connect G pin to breadboard ground rail
2. Connect R pin to breadboard power rail
3. Connect Y pin to Arduino UNO pin 4



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## Step 6: What the IR Receiver Ought to Look Like



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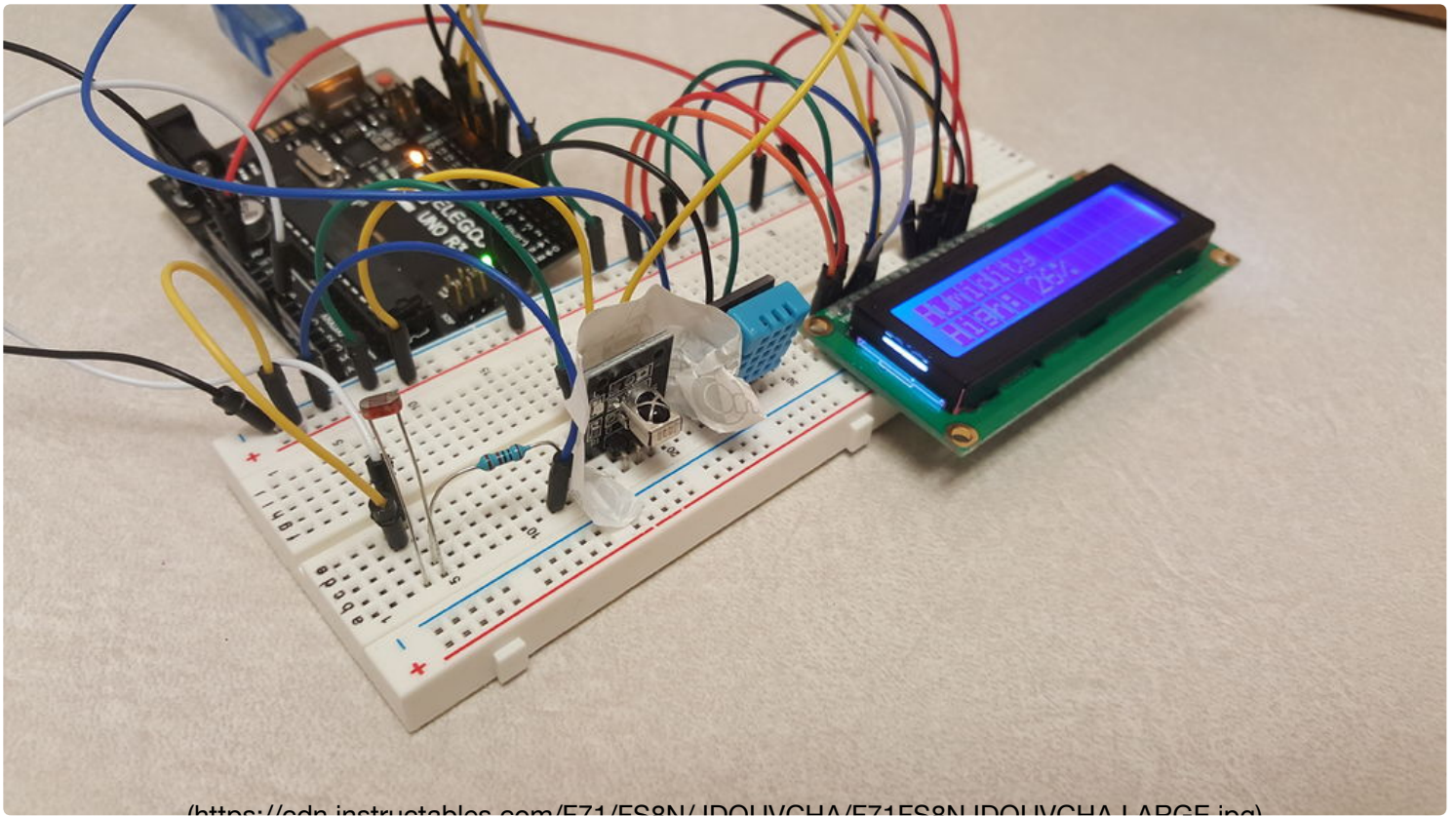


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## Step 7: Extremely Sensitive IR Receiver



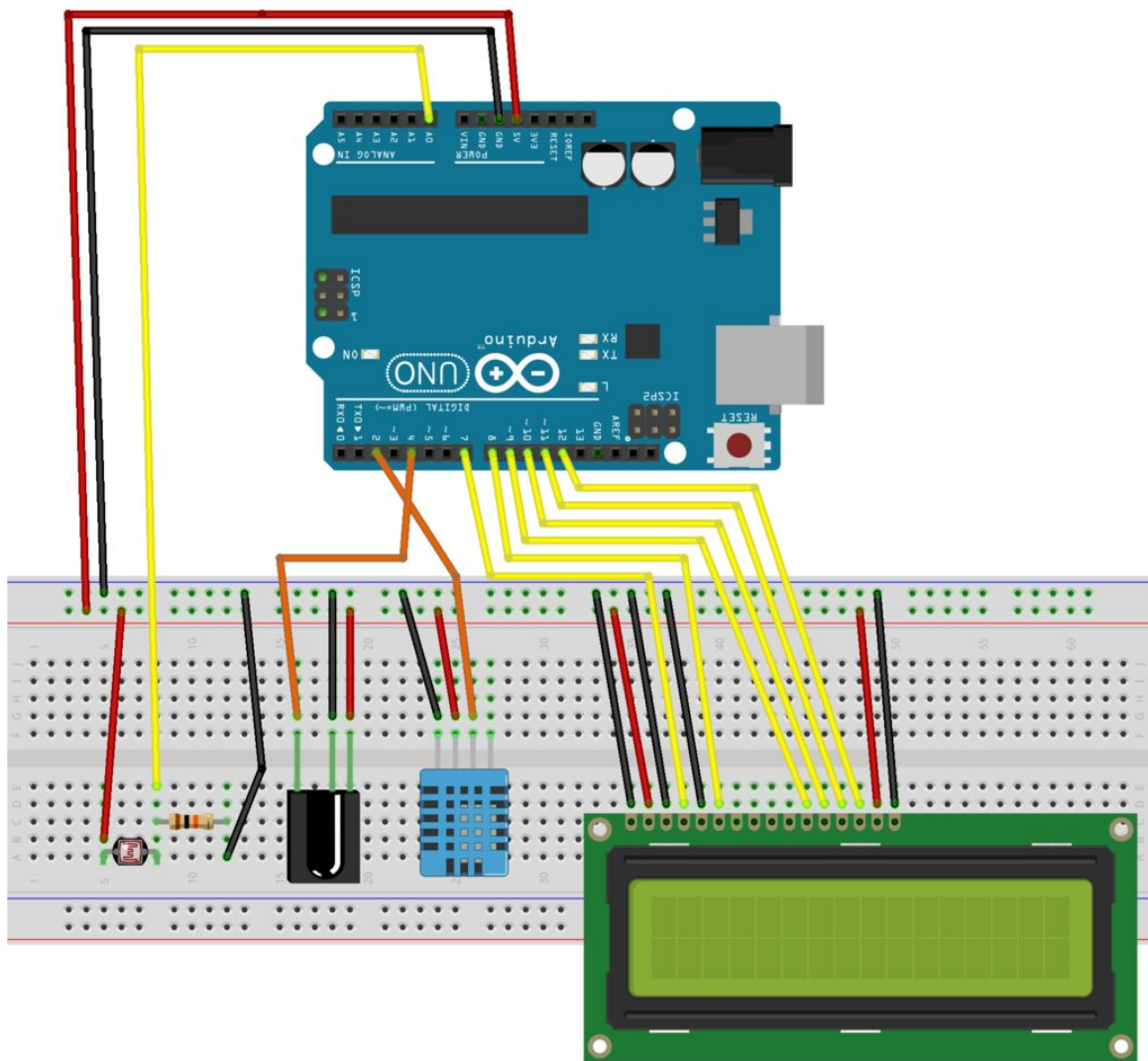


Special note: I spent over 4 hours attempting to get the IR receiver to stop picking up random signals that were given when a button was pressed (or not). Even the wave of a hand or the flash of a light would trigger a non-usable IR read. For my IR receiver and remotes, it somewhat helped to put a gum rapper around the IR receiver.

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## Step 8: Add Photoresistor



<https://cdn.instructables.com/EMVXYTOS/IDOLVQA/EMVXYTOSIDOLVQA/LARGE.jpg>

1. Add photoresistor module to breadboard
2. Connect left node of the photoresistor to the power rail of the breadboard
3. Add a Connection between the right node of the photoresistor and analog pin A0 on the Arduino UNO. Be sure to leave a female pin open in the breadboard between the A0 and photoresistor wire.
4. Important: add a 10k resistor between the photoresistor and wire to pin A0
5. Ground unconnected 10k resistor to ground of breadboard
6. Observe image carefully to ensure you got it exactly!



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## Step 9: Add Code to Arduino UNO

1. Open supplied code in Arduino IDE
2. Connect Arduino to computer
3. Upload code to Arduino UNO



**aaron\_barlow\_exam.p**

Download (<https://cdn.instructables.com/ORIG/FCB/GT1E/JDOUVDB3/FCBGT1EJDOUVDB3.ino>)

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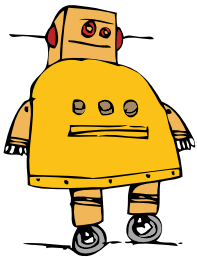


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