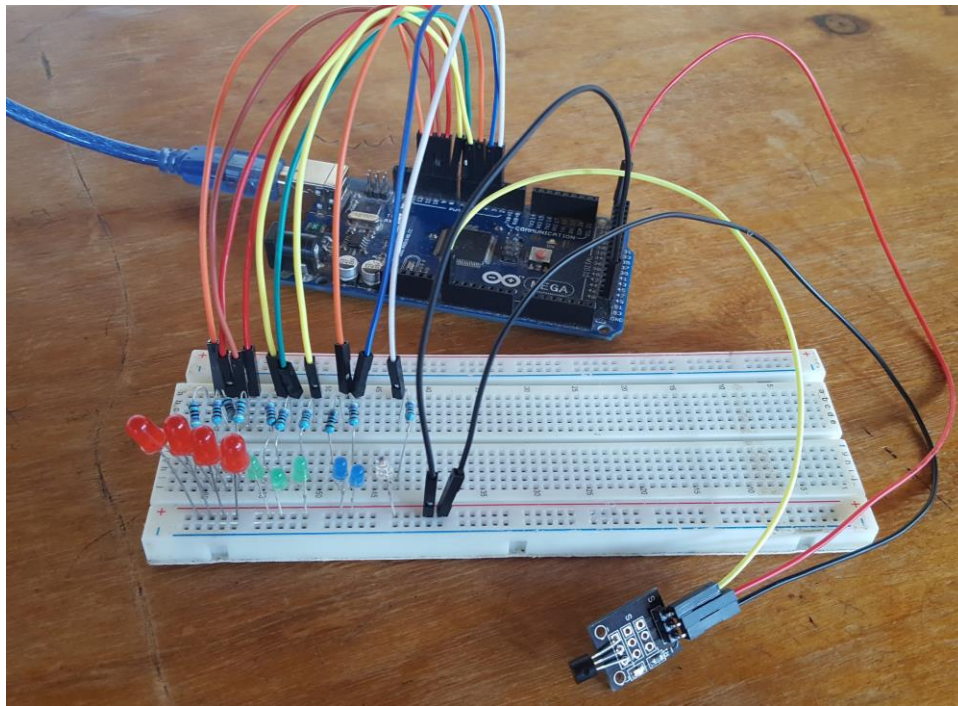**Controlling red, green, blue and white LEDs (light emitting diodes) using a temperature sensor.**
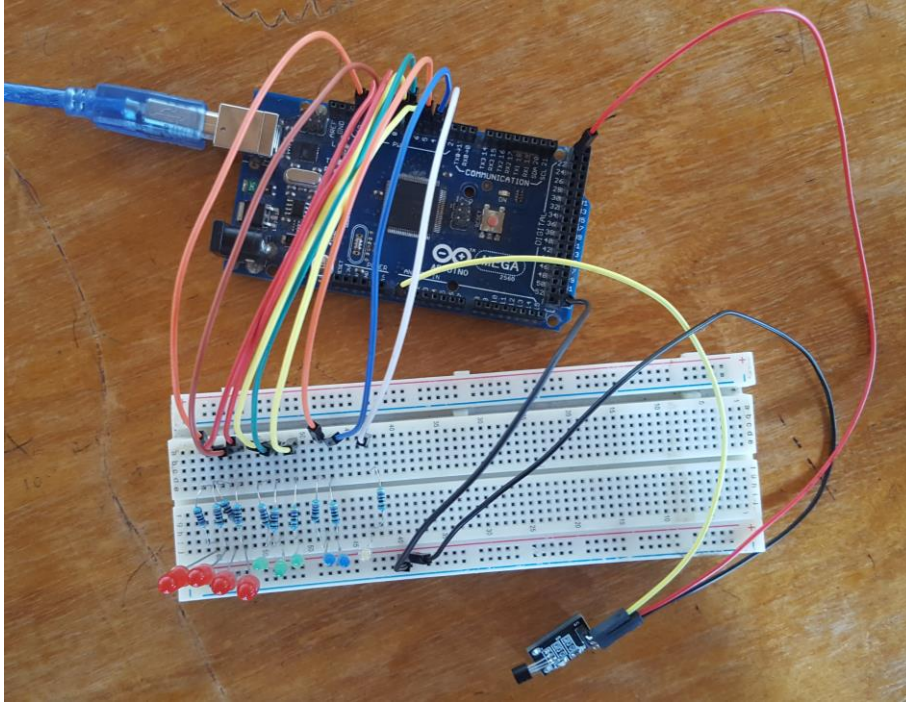
Hey guys, this week we've been messing and playing around with LEDs and a temperature sensor. Pretty cool gadgets to play with. With winter/autumn around the corner, how cool is it to have an LED to tell us when the temperature is dropping or rising to extreme conditions? Very cool!!!

Here's what we're using;

- Red, green, blue and white light emitting diodes (LEDs)
- DS18B20 temperature sensor
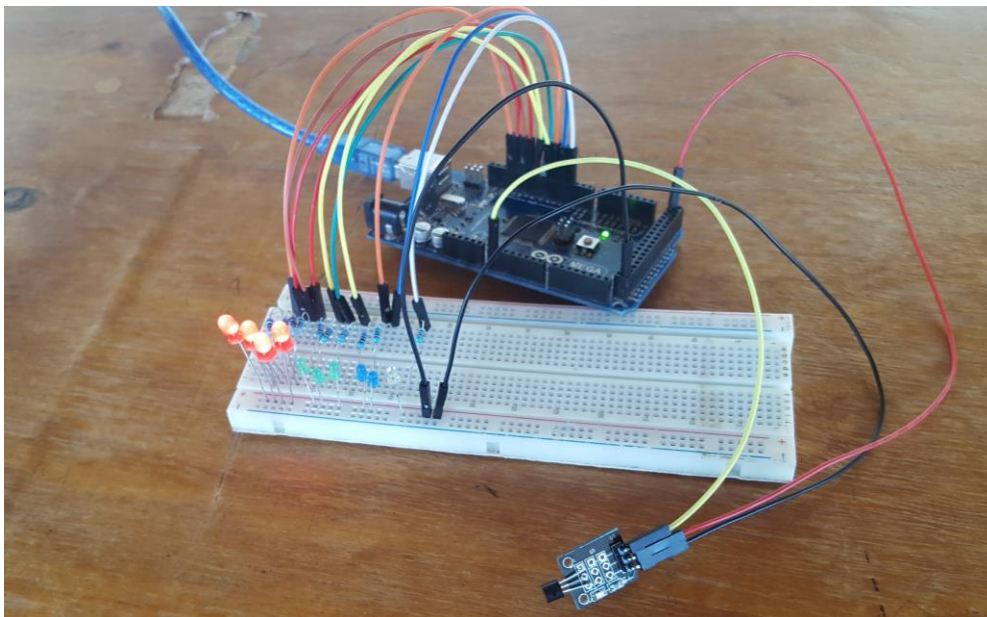- 1000 ohm resistors
- Jumper cables
- Arduino Mega

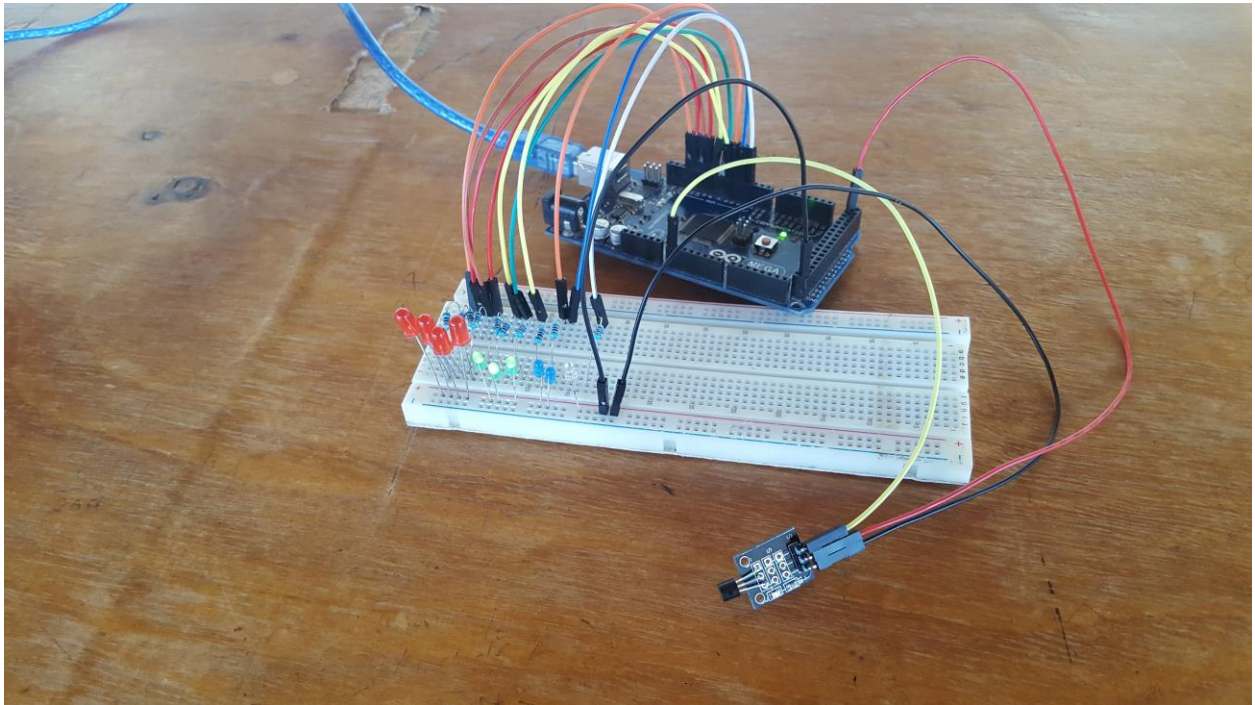Here's how we wired it all up. The photo shows it all!

The code was written via the arduino IDE (integrated development environment). The code is the magic to everything. When the temperature rises to a dangerous level, the red led lights. When the temperature is safe for you to go out and play the green led lights up. The blue led lights up when the chilly weather sets it. When it's too chilly to go out and play the white led will light up (Wear your jackets and stay indoors).
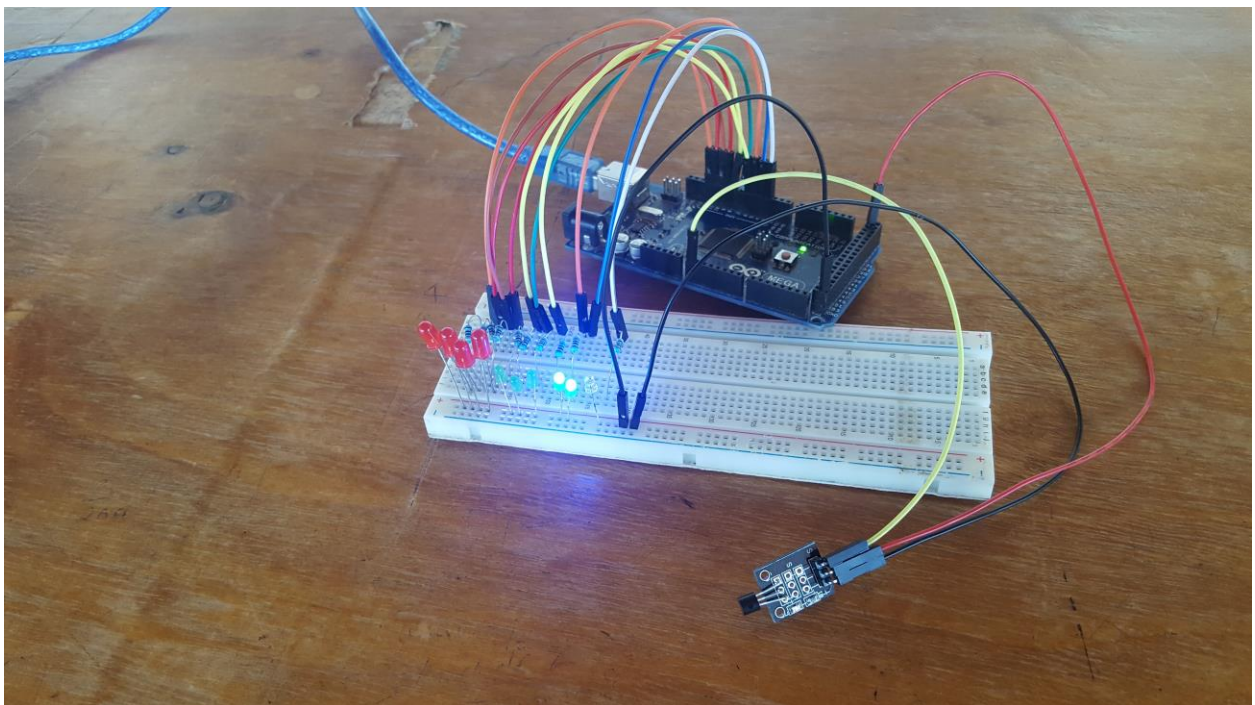
Very hot weather (Led is blazing red):

Awesome weather to go out and play (Green led lights up):

Chilly weather (Chilly blue led lights up):

Very chilly weather, wear sweaters and stay indoors (white led lights up):