

Analog temperature

Overview



This experiment is to read the value of the thermistor.

Specification

Model: MF52-103

Insulation Material: Ceramic

Color: Black

Rated Power: 0.05W





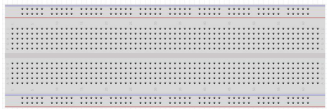

Resistance Value: 10k

Resistance Tolerance: H ($\hat{A}\pm 3\%$)

B Value: 3950K

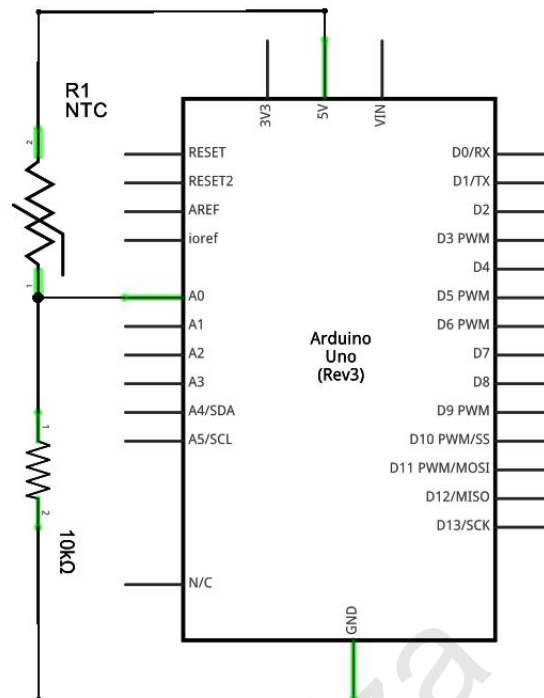
Pin Pitch: 1.5mm / 0.059"

Hardware required

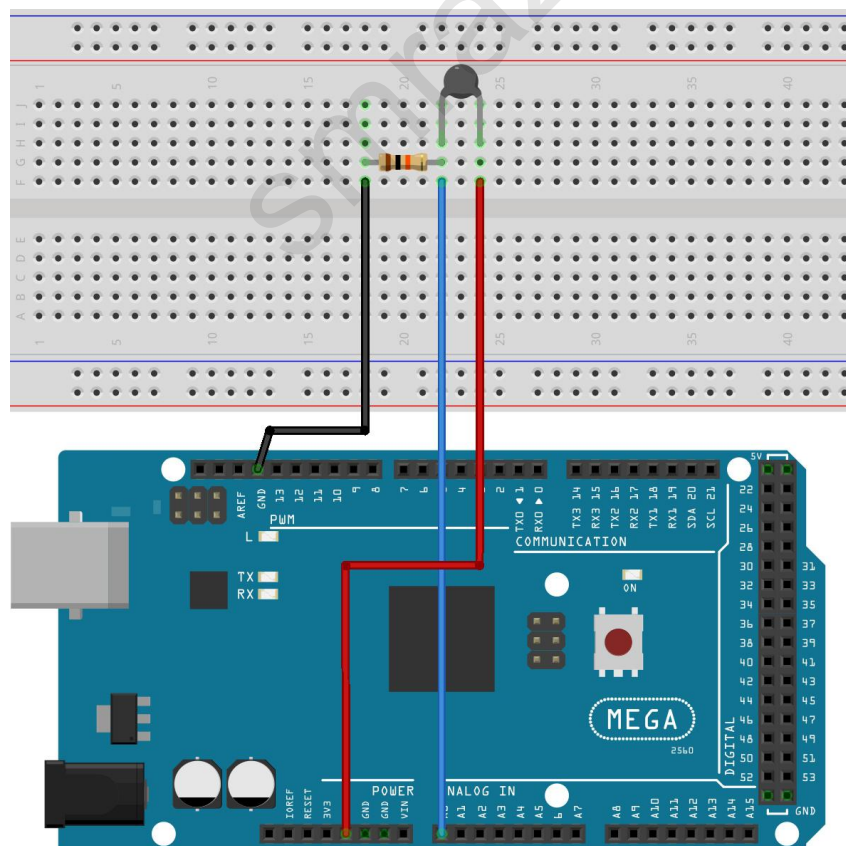
Material diagram	Material name	Number
	Thermistor	1
	10KΩ resistor	1
	USB Cable	1
	MEGA 2560	1
	Breadboard	1
	Jumper wires	Several

Connection

Schematic



Connection diagram



Note: Thermistor `s pin does not distinguish between positive and negative poles.

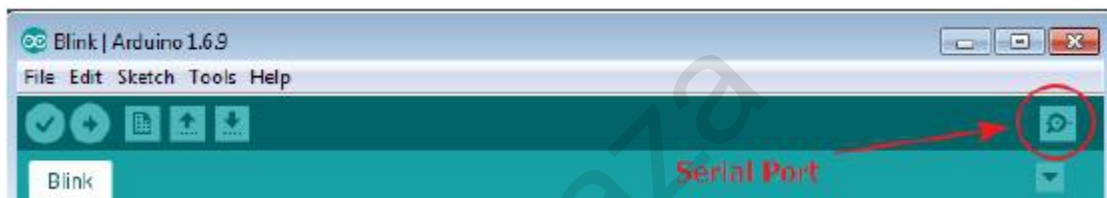
Sample code

Note : sample code under the **Sample code** folder

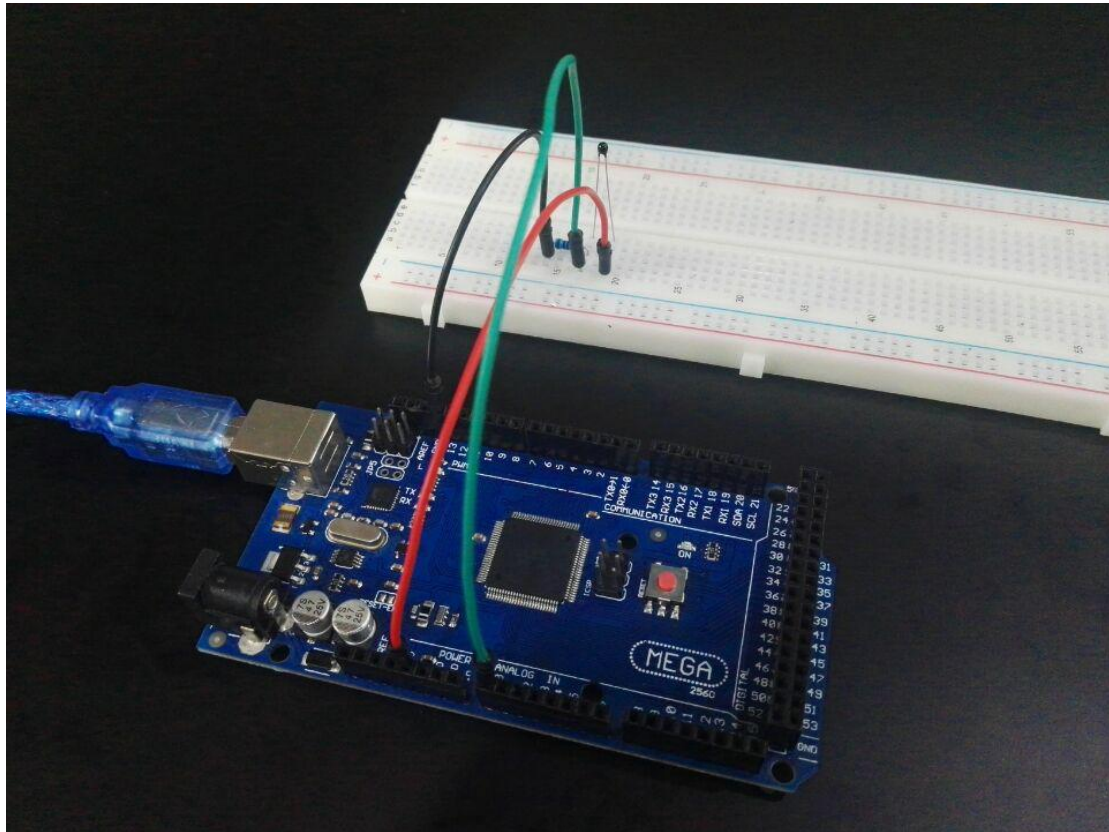
```
void setup()
{
    Serial.begin(9600);
}
void loop()
{
    int val;
    val=analogRead(0);

    Serial.print("Val=");
    Serial.println(val,DEC);
    delay(200);
}
```

/*Tips: Open the serial port.

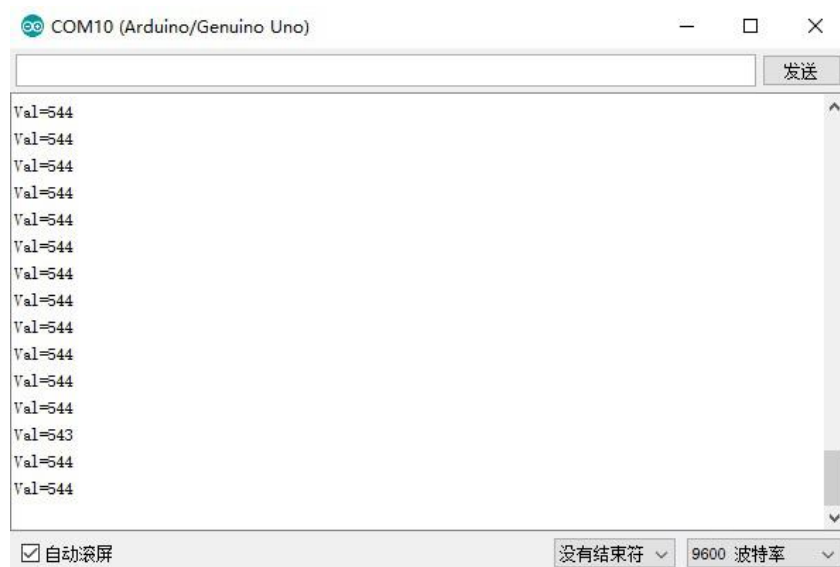


Example picture



Result

Upload the program then open the monitor, we can see the data as below:(It shows the temperature of the environment)



Language reference

[serial](#)

[DEC](#)

Application effect

After uploading the program, open the serial port monitor, you will see a series of temperature values

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