**How to Make a Thermal Flashlight**

**Ingredients:**

**1 laptop, 1 USB to Firewire cord, and:**

|  |  |  |  |
| --- | --- | --- | --- |
| **1 breadboard** | **1 Arduino** | **9v battery and holder** | **Wires** |
| **1 Melexis MLX90614 non-contact IR thermometer (3v)** | **1 RGB common-cathode LED** | **1 0.1 μF capacitor** |  |
| **2 4.7k Ohm resistors** | **2 100 Ohm resistors** | **1 180 Ohm resistor** |  |
|  |  |  |  |