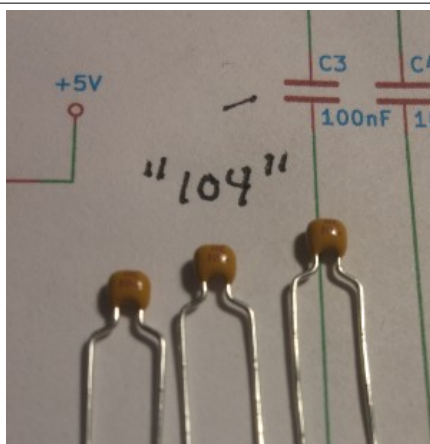
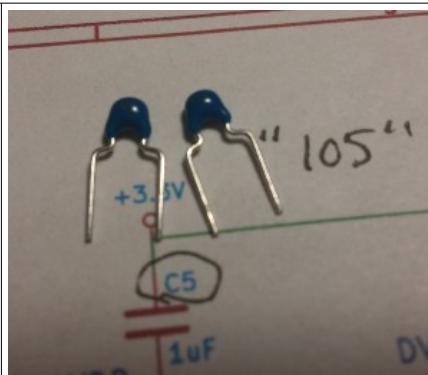


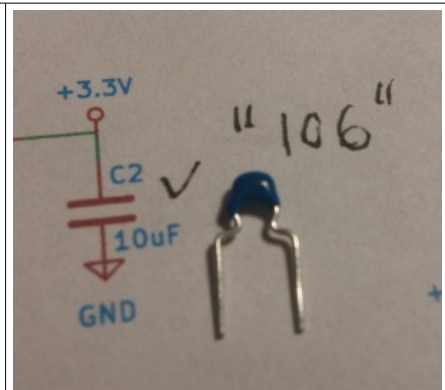
# Blinky Color POV Parts



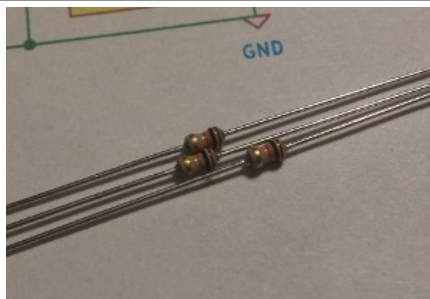
100nF Capacitor  
(C1, C3, C4, C6)



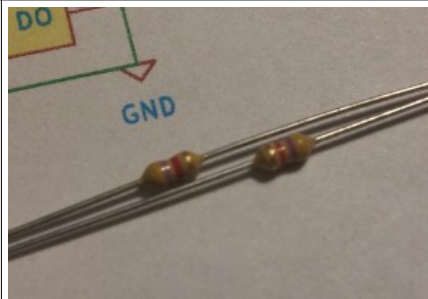
1uF Capacitor( C5, C7, C8)  
Need 3 of these



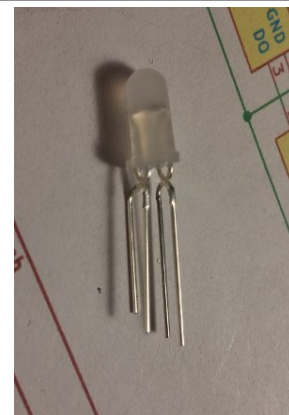
10uF Capacitor (C2)



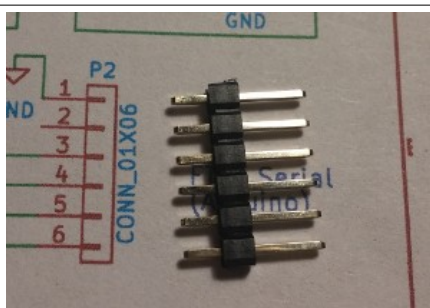
10k Resistor (R1, R4, R5)



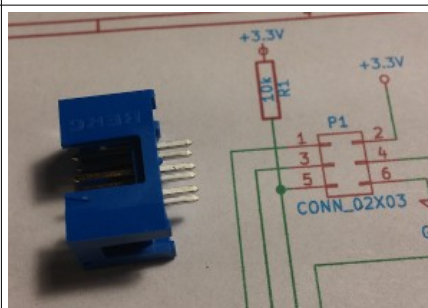
4.7k Resistor (R2, R3)



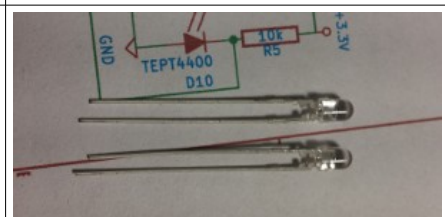
LED (D1-D8)



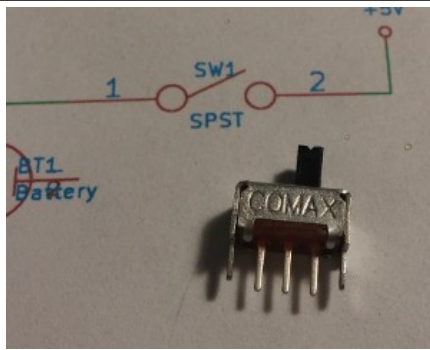
Connector (Optional) P2



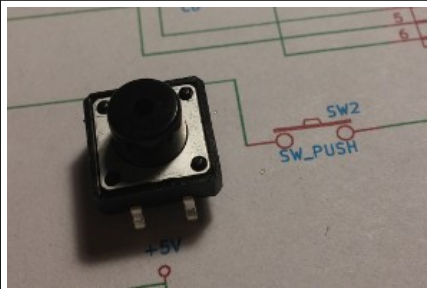
Connector (Optional) P1



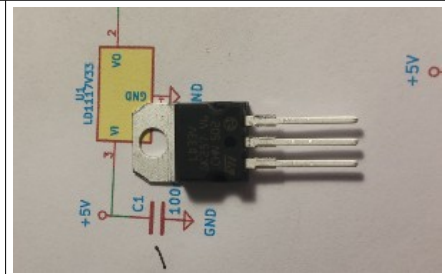
Light sensors (D9, D10)



Switch (SW1)



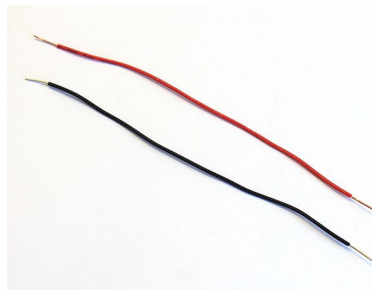
Push button (SW2)



Voltage regulator (U1)



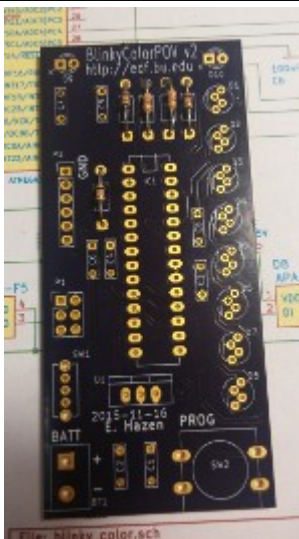
Battery Case



Red and Black Wires



IC Socket



Circuit Board

**Directions.....**

### 1. Solder in the resistors

R2 and R3 are 4.7k  
Yellow, Violet, Red, Gold

R1, R4 and R5 are 10k  
Brown, Black, Orange, Gold

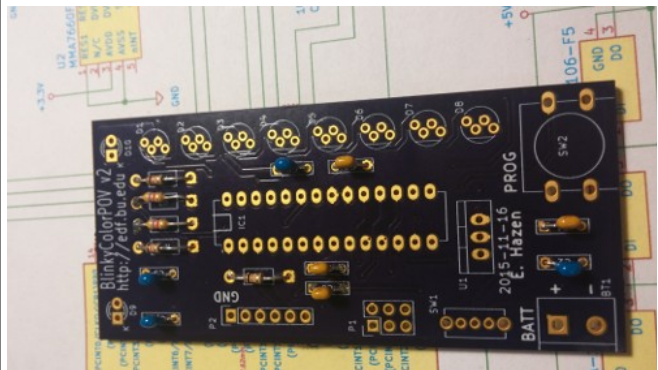


### 2. Solder in the capacitors

C2 is 10uF "106"

C5, C7, C8 are 1uF "105"

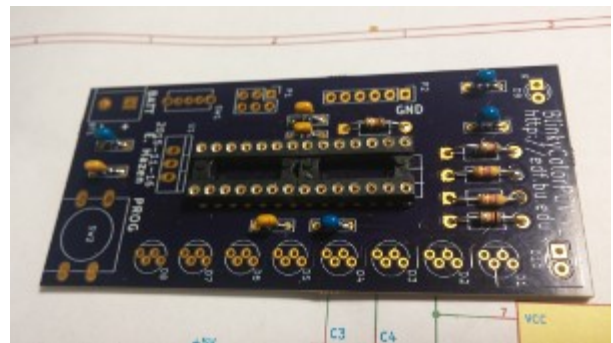
C1, C3, C4, C6 are 0.1uF "104"



### 3. Solder in the IC socket

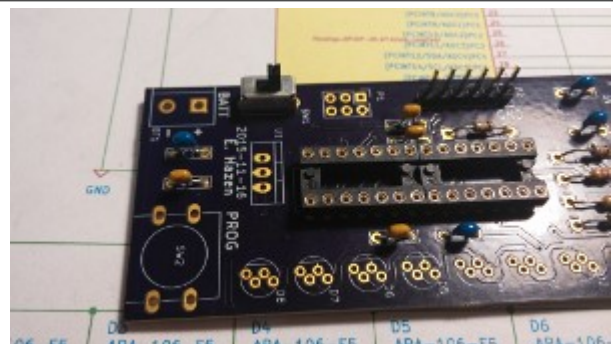
IC1

Be sure the notch is the same way up  
as the mark on the board!



### 4. Solder in the power switch

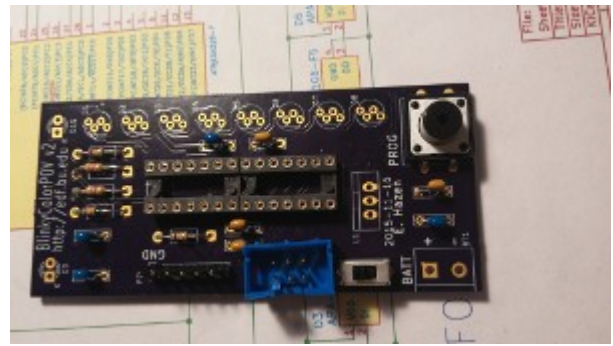
SW1





## 5. Solder in the Programming Button

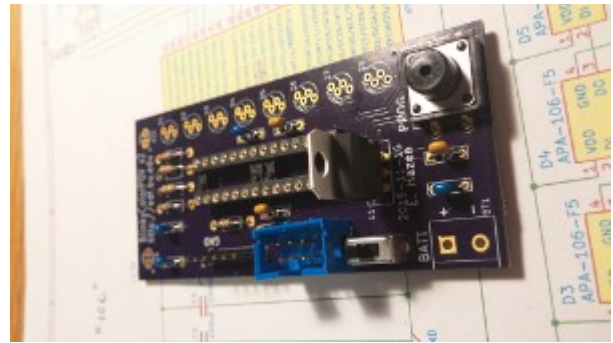
PROG



## 6. Solder in the voltage regulator

U1

Make sure it goes the right way around, with the metal tab towards U2

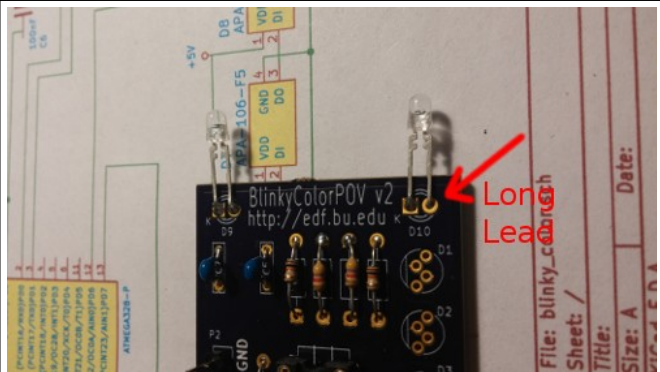


## 7. Solder in the light sensors

They have to go the right way around

The long lead goes in the round pad  
The short lead goes in the square pad

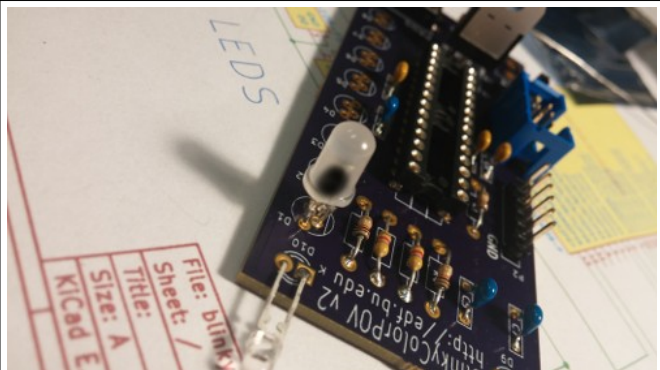
Bend them so they stick out and are about the same length, as shown



## 8. Solder in the LEDs

These are tricky. They have 4 leads.

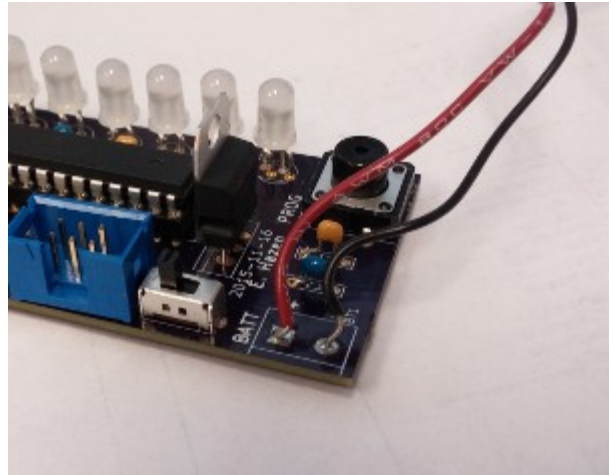
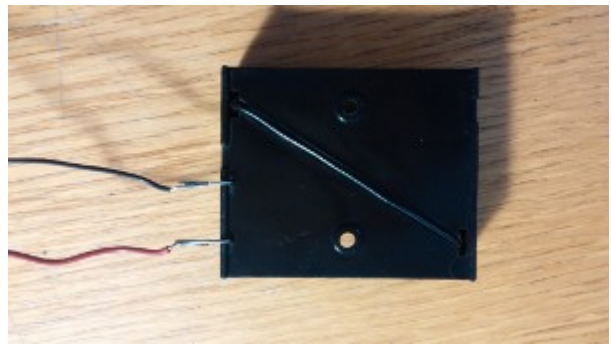
The side with the black dot goes up towards the top of the board (where the light sensors are)



### 9. Attach the wires to the battery holder

Solder the red and black wires to the battery holder as shown. Be sure the red wire is connected to the pin near the corner.

Solder the other end of the wires into the circuit board. The red wire goes into the “+”hole



You're done!

Inspect your work carefully, and get your helper to check it out, too.

Then, go ask for batteries and a microcontroller and you're ready to try out your BlinkyColorPOV!