

The Plan

Originally, I was just going to get some coin batteries, some LED's and try my hand at some BS soldering. Well... Fuck that.

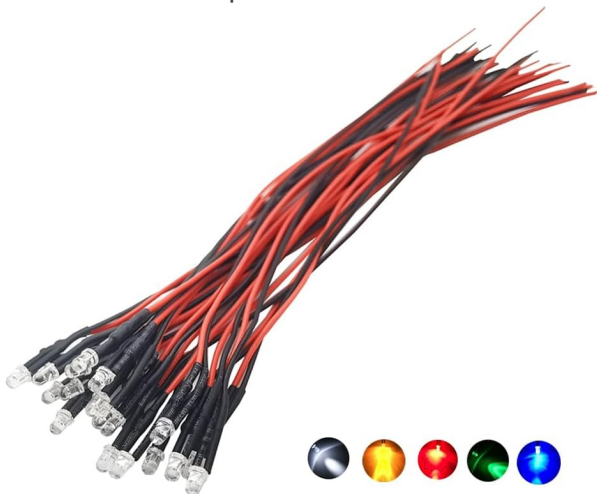
My new idea is way better, and I think could work real nicely if done right.

The idea is simple. I don't want batteries. Honestly the damn LED's to be on all the time, and batteries don't really last.

SO what do I do? Wire them up fam. Sure there is going to be some wires coming from a couple of the models hooked up, but hell it will look dope!

Simplicity until its complicated

5V power supplies are dirt cheap on Amazon, and I bet I can get a nice little inline switch too. The idea is to wire up some these fuckers:



In parallel so the voltage can just be 5V. These little bastards are pre-made LED's with resistors already in them. Fantastic right?

Get something like this:



for the power supply and just cut the end off. Its a 5V DC out, at 2 Amp so a total wattage of 10W. Each LED is around 20mA which is 0.1W each. That means I can have 100 LED's all connected in parallel at the same time. More than enough capacity.

So the only issue I have now is cable management. Its going to be a nightmare to cable manage them all in parallel.

Resources:

- <https://www.digikey.ca/en/resources/conversion-calculators/conversion-calculator-led-series-resistor>
- <https://resistorcolorcodecalc.com/>
- <https://www.circuitbread.com/ee-faq/the-forward-voltages-of-different-leds>
- [https://www.reddit.com/r/led/comments/jn7dh1/3v bulb 3v batteries do i need a resistor /](https://www.reddit.com/r/led/comments/jn7dh1/3v_bulb_3v_batteries_do_i_need_a_resistor/)
- <https://www.circuitlab.com/editor>
- <https://www.ledsupply.com/blog/wiring-leds-correctly-series-parallel-circuits-explained/>

Product Links

- <https://www.amazon.ca/gp/product/B01ERPEMAC>
 - <https://www.amazon.ca/gp/product/B0D1C1XF7Z>
 - <https://www.amazon.ca/gp/product/B09W96X88K>
 - <https://www.amazon.ca/gp/product/B089K9N4YN>
 - <https://www.amazon.ca/gp/product/B0CM2Y7V1Z>
 - <https://www.amazon.ca/gp/product/B08XXGNJHG>
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