Color sensing light globe

Concept:

By placing color in front of the color sensor, a user can change the color of the light globe.

Hardware:

- Micro controller
- Color Sensor
- LEDs
- On/Off button
- Clear Silicone Caulking for globe casing
- Battery or wall power source

Software Interface:

- Interface to the LEDs
- I2C driver for the Color Sensor
- Control the on/off button

Cost (SWAG):

Adafruit Pro Trinket - 5V 16MHz	$10
RGB Color Sensor with IR filter and White LED	$8
NeoPixel Diffused 8mm Through-Hole LEDs (10 LEDs)	$10
On/Off button	$2
Clear Silicone Caulking for globe casing	$5
Battery or wall power source	$10
Total	$45

Resources