

Neopixel Goggles



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|---------------------|---|
| Name | Neopixel Goggles |
| Description | Fancy goggles with neopixel rings |
| Status | Running |
| Contact | metalgamer |
| Participants | |
| Repository | https://projects.c3l.lu/Wearables/Neopixel-Goggles |

Kit

Use the [Trinket-Powered NeoPixel Goggle Kit Pack](#) from Adafruit. You can buy it either at Adafruit or locally at [Electronic-Shop](#).

Software

I used a heavily modified version of [NeoPatterns](#). You can find the code in the [repository](#). It currently uses 5052 bytes.

Configuration

You have different configuration parameters that can be changed in the beginning of the file.

| Name | Description |
|----------------------------|--|
| PIN | The pin number, where the neopixel rings are attached. Default: 0 |
| BRIGHTNESS | Set the brightness of all LEDs. Default: 64 |
| MODE_CHANGE_TIME | The number of milliseconds between changing modes. Default: 10000 (10 seconds) |
| SLOW_INTERVAL_MIN | The lower bound for the random interval for the following modes: ColorWipe, DoubleColorWipe, Scanner, DoubleScanner, Random, DoubleRandom, Dot. Default: 25 |
| SLOW_INTERVAL_MAX | The upper bound for the random interval. Default: 55 |
| COLOR_MIN | The lower bound for the random color for the following modes: ColorWipe, DoubleColorWipe, Scanner, DoubleScanner, Random, DoubleRandom, Blink, Dot. Default: 0 |
| COLOR_MAX | The upper bound for the random color. Default: 255 |
| STEPS_MIN | The lower bound for the random number of steps used in the following modes: Random, DoubleRandom, Blink, Dot. Default: 5 |
| STEPS_MAX | The upper bound for the random number of steps. Default: 10 |
| RAINBOW_CYCLE_MIN_INTERVAL | The lower bound for the random interval of the RainbowCycle mode. Default: 1 |

| Name | Description |
|----------------------------|---|
| RAINBOW_CYCLE_MAX_INTERVAL | The upper bound for the random interval of the RainbowCycle mode. Default: 10 |
| BLINK_MIN_INTERVAL | The lower bound for the random interval of the Blink mode. Default: 250 |
| BLINK_MAX_INTERVAL | The upper bound for the random interval of the Blink mode. Default: 500 |

Patterns

Rainbow Cycle

Your classic rainbow cycle.

[Rainbow_Cycle.mp4](#)

Color Wipe

Fill the all the LED's with one color, one by one.

[Color_Wipe.mp4](#)

Double Color Wipe

Same as the Color Wipe, just fill the two sides at the same time.

[Double_Color_Wipe.mp4](#)

Scanner

[Scanner.mp4](#)

Double Scanner

[Double_Scanner.mp4](#)

Random

Random colors at random places.

[Random.mp4](#)

Double Random

[Double_Random.mp4](#)

Blink

Blink all the led's with one color.

[Blink.mp4](#)

Dot

Light up one LED at a time.

[Dot.mp4](#)

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