

# Neopixel Goggles



<b>Name</b>	Neopixel Goggles
<b>Description</b>	Fancy goggles with neopixel rings
<b>Status</b>	Running
<b>Contact</b>	<a href="#">metalgamer</a>
<b>Participants</b>	
<b>Repository</b>	<a href="https://projects.c3l.lu/Wearables/Neopixel-Goggles">https://projects.c3l.lu/Wearables/Neopixel-Goggles</a>

## 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](#)

## 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
RAINBOW_CYCLE_MAX_INTERVAL	The upper bound for the random interval of the RainbowCycle mode. Default: 10

Name	Description
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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