# 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

### 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 |
| 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

Color_Wipe.mp4

### Double Color Wipe

Double_Color_Wipe.mp4

### Scanner

Scanner.mp4

### Double Scanner

Double_Scanner.mp4

### Random

Random.mp4

### Double Random

Double_Random.mp4

### Blink

Blink.mp4

### Dot

Dot.mp4

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https://wiki.c3l.lu/ - **Chaos Computer Club Lëtzebuerg**

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Last update: **2018/02/05 20:47**