HiboTronix **DiscoBall Software**

The DiscoBall uses the Arduino Nano Every with the Arduino IDE.
The Library used to communicate with the LSM6DS3 is from Sparkfun, please use the guide below to install and use the “MinimalistExample” sketch in the examples folder to test the Accelerometer and Gyro.

https://learn.sparkfun.com/tutorials/lsm6ds3-breakout-hookup-guide/all#
(*Communication by I2C, address= 0x6B, INT1 connected to D4 on the Arduino)

The NeoPixels are controlled by the Adafruit NeoPixel Library:

https://learn.adafruit.com/adafruit-neopixel-uberguide/the-magic-of-neopixels

Please Install and run the “Strandtest” sketch in the examples folder with the following settings:

```
// Which pin on the Arduino is connected to the NeoPixels?
// On a Trinket or Gemma we suggest changing this to 1:
#define LED_PIN    5

// How many NeoPixels are attached to the Arduino?
#define LED_COUNT 384
```

And also:

```
strip.setBrightness(10); // Set BRIGHTNESS to about 1/5 (max = 255)
```

Power consumption at brightness 10 is approximately 550mA. If you are powering from USB and you select a higher brightness it will probably destroy your USB port.

Full brightness is approximately 6A at full white!!

The rest of the programming is up to you I’m afraid, good luck ;)