Séquence/codation lumière

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#include <Adafruit NeoPixel.h>
Adafruit_NeoPixel pixels = Adafruit_NeoPixel(16, 9, NEO_GRB + NEO_KHZ800); //16 leds branchées sur 9
Adafruit_NeoPixel pixels2 = Adafruit_NeoPixel(16, 10, NEO_GRB + NEO_KHZ800);
long previousMillis = 0;
int interval = 150; // vitesse de rotation
int startIndex = 0;
void setup() {
 // put your setup code here, to run once:
 Serial.begin(9600);
 pixels.begin();
 pixels2.begin();
void loop() {
 // put your main code here, to run repeatedly:
 int potValue = analogRead(0);
 Serial.println(potValue);
 //float lum = potValue/1023.;
 long currentTime = millis();
 float pulse1 = (\sin(\text{currentTime/500.}) + 1) /2;
 float pulse2 = (\sin(\text{currentTime}/450.) + 1)/2.;
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float pulse3 = $(\sin(\text{currentTime/300.}) + 1) /2$;

for (int i = startIndex; i < startIndex +5; i++) {
 pixels.setPixelColor(i%16, pixels.Color(0, 40, 140));

for (int i = startIndex +5; i < startIndex+10; i++) {
pixels.setPixelColor(i%16, pixels.Color(30, 116, 255));

for (int i = startIndex+10; i < startIndex+16; i++) {
pixels.setPixelColor(i%16, pixels.Color(0, 255, 255));

pixels2.setPixelColor(i%16, pixels2.Color(0, 255*pulse1, 85*pulse1));

pixels2.setPixelColor(i%16, pixels2.Color(72*pulse2, 122*pulse2, 37*pulse2));

pixels2.setPixelColor(i%16, pixels2.Color(196*pulse3, 188*pulse3, 42*pulse3));

if(currentTime - previousMillis > interval){

previousMillis = currentTime;

startIndex ++;

if (potValue < 333) {

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else if (potValue > 333 && potValue < 666) {
 for (int i = \text{startIndex}; i < \text{startIndex} + 5; i++) {
  pixels.setPixelColor(i%16, pixels.Color(225, 255, 0));
  pixels2.setPixelColor(i%16, pixels2.Color(49*pulse1, 192*pulse1, 255*pulse1));
 for (int i = \text{startIndex} + 5; i < \text{startIndex} + 10; i++) {
  pixels.setPixelColor(i%16, pixels.Color(200, 50, 0));
  pixels2.setPixelColor(i%16, pixels2.Color(153*pulse2, 57*pulse2, 255*pulse2));
 for (int i = \text{startIndex} + 10; i < \text{startIndex} + 16; i++) {
  pixels.setPixelColor(i%16, pixels.Color(200, 30, 0));
  pixels2.setPixelColor(i%16, pixels2.Color(220*pulse3, 21*pulse3, 255*pulse3));
else {
 for (int i = \text{startIndex} + 0; i < \text{startIndex} + 5; i++) {
  pixels.setPixelColor(i%16, pixels.Color(157, 0, 255));
  pixels2.setPixelColor(i%16, pixels2.Color(255*pulse1, 0, 221*pulse1));
 for (int i = \text{startIndex} + 5; i < \text{startIndex} + 10; i++) {
  pixels.setPixelColor(i%16, pixels.Color(190, 30, 180));
  pixels2.setPixelColor(i%16, pixels2.Color(255*pulse2, 34*pulse2, 200*pulse2));
 for (int i =startIndex+ 10; i <startIndex+ 16; i++) {
  pixels.setPixelColor(i%16, pixels.Color(70, 39, 255));
  pixels2.setPixelColor(i%16, pixels2.Color(255*pulse3, 6*pulse3, 36*pulse3));
pixels.show();
pixels2.show();
```

Couleurs dégraders avec une rotation de led