// 3. válec

#include <FastLED.h>

#define NUM\_LEDS 60

CRGB leds[NUM\_LEDS];

#define PIN 6

int a;

void setup()

{

 FastLED.addLeds<WS2811, PIN, GRB>(leds, NUM\_LEDS).setCorrection( TypicalLEDStrip );

 FastLED.show ();

 a=0;

 Serial.begin (9600);

}

void loop()

{

 if (a==0)

 {

 {

 for(int j = 59; j >=54; j--)

 { leds[j] = CRGB::Red;

 }

}

{

 // expanzia

 for(int j = 55; j >=40; j--)

 { leds[j] = CRGB::Red;

 FastLED.delay(117);

 }

}

{

 for(int j = 59; j >=40; j--)

 { leds[j] = CRGB::Yellow;

 }

}

{

 // výfuk

 for(int j = 40; j <60; j++)

 { leds[j] = CRGB::Yellow;

 FastLED.delay(350);

 leds[j] = CRGB::Black;

 }

 (a=a+1);

}

{

 // nasávanie

 for(int j = 59; j >=40; j--)

 { leds[j] = CRGB::Blue;

 FastLED.delay(350);

 }

}

{

 for(int j = 59; j >=40; j--)

 { leds[j] = CRGB::Green;

 }

}

{

 // kompresia

 for(int j = 40; j <60; j++)

 { leds[j] = CRGB::Green;

 FastLED.delay(350);

 leds[j] = CRGB::Black;

 }

}

}

else

{

 Serial.println (a);

}

{

 // expanzia

 for(int j = 59; j >=40; j--)

 { leds[j] = CRGB::Red;

 FastLED.delay(350);

 }

}

{

 for(int j = 59; j >=40; j--)

 { leds[j] = CRGB::Yellow;

 }

}

{

 // výfuk

 for(int j = 40; j <60; j++)

 { leds[j] = CRGB::Yellow;

 FastLED.delay(350);

 leds[j] = CRGB::Black;

 }

}

{

// nasávanie

 for(int j = 59; j >=40; j--)

 { leds[j] = CRGB::Blue;

 FastLED.delay(350);

 }

}

{

 for(int j = 59; j >=40; j--)

 { leds[j] = CRGB::Green;

 }

}

 {

 // kompresia

 for(int j = 40; j <60; j++)

 { leds[j] = CRGB::Green;

 FastLED.delay(350);

 leds[j] = CRGB::Black;

 }

{

}

if (a > 1)

{

 (a=1);

}

Serial.println ("a=");

Serial.println (a);

}

}