#include <nRF24L01.h>

#include <RF24.h>

#include <RF24\_config.h>

#include <SPI.h>

#include <avr/wdt.h>

#include <SPI.h>

#include <Wire.h>

#include <Adafruit\_GFX.h>

#include <Adafruit\_SSD1306.h>

#define OLED\_RESET 4

Adafruit\_SSD1306 display(OLED\_RESET);

#define NUMFLAKES 10

#define XPOS 0

#define YPOS 1

#define DELTAY 2

#define LOGO16\_GLCD\_HEIGHT 16

#define LOGO16\_GLCD\_WIDTH 16

#if (SSD1306\_LCDHEIGHT != 64)

#error("Height incorrect, please fix Adafruit\_SSD1306.h!");

#endif

int msg[1];

RF24 radio(9,10);

const uint64\_t pipe = 0xE8E8F0F0E1LL;

int lastmsg = 1;

String theMessage;

//String theMessage1 = "";

void setup(void){

 Serial.begin(9600);

 radio.begin();

 radio.openReadingPipe(1,pipe);

 radio.startListening();

 display.begin(SSD1306\_SWITCHCAPVCC, 0x3C); // initialize with the I2C addr 0x3D (for the 128x64)

 // init done

 // Show image buffer on the display hardware.

 // Since the buffer is intialized with an Adafruit splashscreen

 // internally, this will display the splashscreen.

 display.display();

 delay(2000);

 display.clearDisplay();

 //testscrolltext(theMessage);

 //delay(2000);

 //display.clearDisplay();

}

void loop(void){

 if (radio.available()){

 bool done = false;

 done = radio.read(msg, 1);

 char theChar = msg[0];

 if (msg[0] != 2){

 theMessage.concat(theChar);

 }

 else {

 int messageSize = theMessage.length();

 Serial.println(messageSize);

 Serial.println(theMessage);

 //testscrolltext(theMessage);

 //delay(5000);

 display.display();

 display.clearDisplay();

 //theMessage= "";

 //watchdogSetup();

 String theMessage1 = theMessage.substring(0, (messageSize/4));

 display.setTextSize(2);

 display.setTextColor(WHITE);

 display.setCursor(0,0);

 display.println(theMessage1);

 display.display();

 delay(5000);

 String theMessage2 = theMessage.substring((messageSize/4), (messageSize/2));

 display.clearDisplay();

 display.setCursor(0,0);

 display.println(theMessage2);

 display.display();

 delay(5000);

 String theMessage3 = theMessage.substring((messageSize/2), ((messageSize/4)\*3));

 display.clearDisplay();

 display.setCursor(0,0);

 display.println(theMessage3);

 display.display();

 delay(5000);

 String theMessage4 = theMessage.substring(((messageSize/4)\*3), messageSize);

 display.clearDisplay();

 display.setCursor(0,0);

 display.println(theMessage4);

 display.display();

 delay(5000);

 Serial.println(theMessage1);

 Serial.println(theMessage2);

 Serial.println(theMessage3);

 Serial.println(theMessage4);

 display.clearDisplay();

 theMessage = "";

 }

 }

}