#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 = "";

}

}

}