#include <Adafruit\_NeoPixel.h>

#include <Servo.h>

#include <Wire.h>//调用收发数据所使用的库函数

#include "I2Cdev.h"

#include <U8glib.h>

#include "SHT2x.h"

#include <U8glib.h>

#define INTERVAL\_LCD 100 //定义OLED刷新时间间隔

#define Light\_PIN A0 //光照传感器接AO引脚

#define PIXEL\_PIN A3 //温度传感

#define SERVOPIN SDA//舵机

#define PIN 8

#define servo\_pin SDA

#define Light\_value1 500

Servo myservo;

int sensorValue;

int pos = 0;

float sensor\_tem;

unsigned long lcd\_time = millis(); //OLED刷新时间计时器

U8GLIB\_SSD1306\_128X64 u8g(U8G\_I2C\_OPT\_NONE); //设置OLED型号

#define setFont\_L u8g.setFont(u8g\_font\_7x13)

#define setFont\_M u8g.setFont(u8g\_font\_fixed\_v0r)

#define setFont\_S u8g.setFont(u8g\_font\_fixed\_v0r)

#define setFont\_SS u8g.setFont(u8g\_font\_fub25n)

void setup() //创建无返回值函数

{

Serial.begin(9600);

myservo.attach(SERVOPIN);

Serial.println("Initialisation complete.");

}

void loop() //无返回值loop函数

{

sensorValue = analogRead(Light\_PIN); //光检测

if (sensorValue >= Light\_value1)

updateServo();

TemRead();

LCD();

if (sensorValue < Light\_value1)

myservo.write(90);

}

void updateServo() {

for(pos = 0; pos < 180; pos += 1) // goes from 0 degrees to 180 degrees

{ // in steps of 1 degree

myservo.write(pos); // tell servo to go to position in variable 'pos'

delay(15); // waits 15ms for the servo to reach the position

}

for(pos = 180; pos>=1; pos-=1) // goes from 180 degrees to 0 degrees

{

myservo.write(pos); // tell servo to go to position in variable 'pos'

delay(15); // waits 15ms for the servo to reach the position

}

}

void TemRead()

{

sensor\_tem = SHT2x.readT();//把获得的温度值赋给变量sensor\_tem

Serial.println(sensor\_tem);//将数据从Arduino传递到PC且单独占据一行，此数据可在串口监视器中看到

Serial.print("--");

Serial.println(SHT2x.readRH());

delay(100);

}

void LCD()

{

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