Social Media Simulator

How users words affect the **public opinions**

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MAIN IDEA

TO SIMULAT HOW PUBLIC OPINION PRODUCED WITH A HYBRID MEDIUM

Some interesting Thing on social media：

People get angry more easily
People affect by others more easily
Public opinion is hard to predict

I think public opinion can be influenced by what everyone says. And it would be interesting to see **how public opinion produced.**

Inspiration from Cyborg

*It is certainly true that postmodernist strategies, like my cyborg myth, **subvert myriad organic wholes** (for example, **the poem**, the primitive **culture**, the biological organism).*

-A Cyborg Manifesto

Maybe A new way to communication with each other, by new **MEDIUM,** which is blurred, mixed; hybrid.

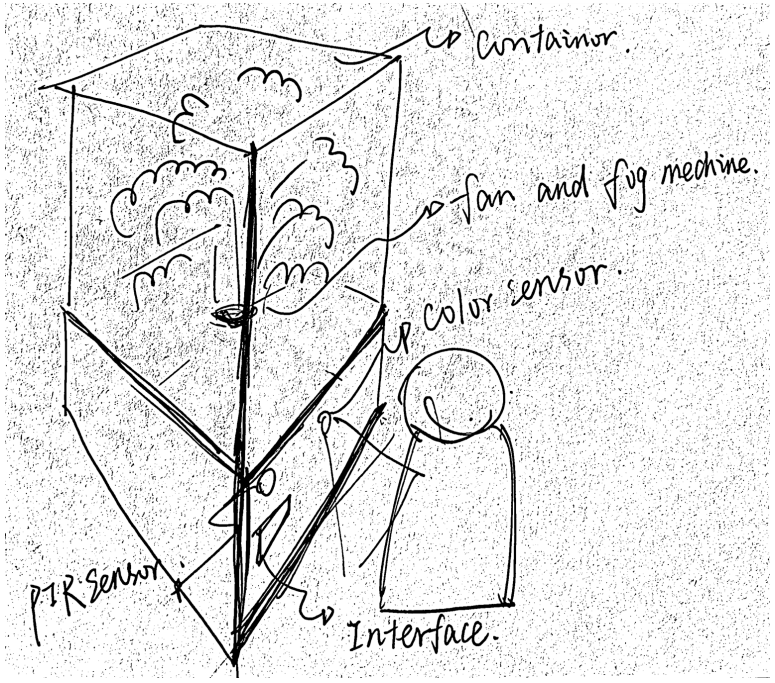
SPECIFIC CONCEPT

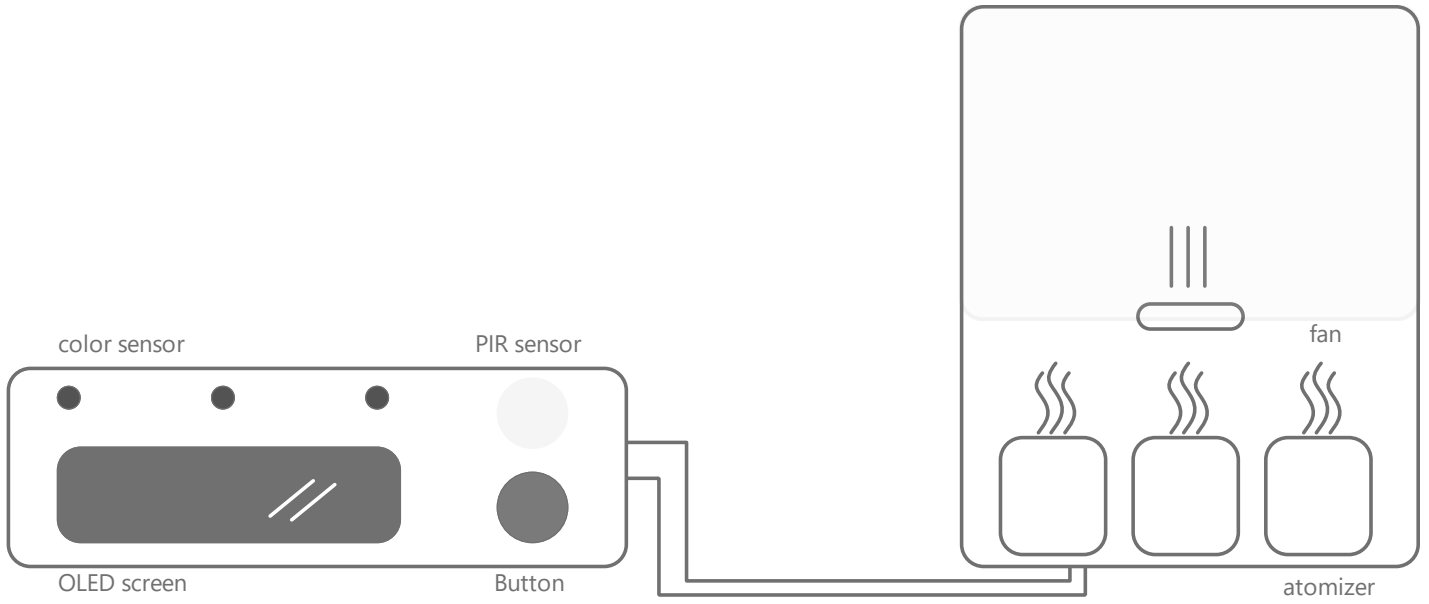
Colorful fog mix in one container

Thinking of medium

- Bubble
- Fog
- screen

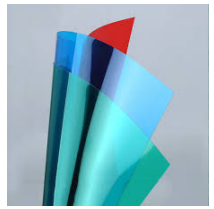
Finally, I choose fog，different color represent different opinion





DEVELOPMENT PROCESS

Color sensor



___led | Arduino 1.8.10

文件 编辑 项目 工具 帮助

___led

```
void  procedata()          // 数据处理
{
      static int Rinput[5] ={
      0,0,0,0,0                 }
    ,Binput[5] ={
      0,0,0,0,0                 }
    ,Ginput[5] ={
      0,0,0,0,0                 };

    for(int i = 4;i > 0;i--){
      Rinput[i] = Rinput[i-1];
      Binput[i] = Binput[i-1];
      Ginput[i] = Ginput[i-1];
    }

    if(countR < 2500)
      Rinput[0] = countR;
    else
      Rinput[0] = Rinput[1];

    if(countB < 2500)
      Binput[0] = countB;
    else
      Binput[0] = Binput[1];

    if(countG < 2500)
      Ginput[0] = countG;
    else
      Ginput[0] = Ginput[1];
```

color_test_final | Arduino 1.8.10

文件 编辑 项目 工具 帮助

color_test_final

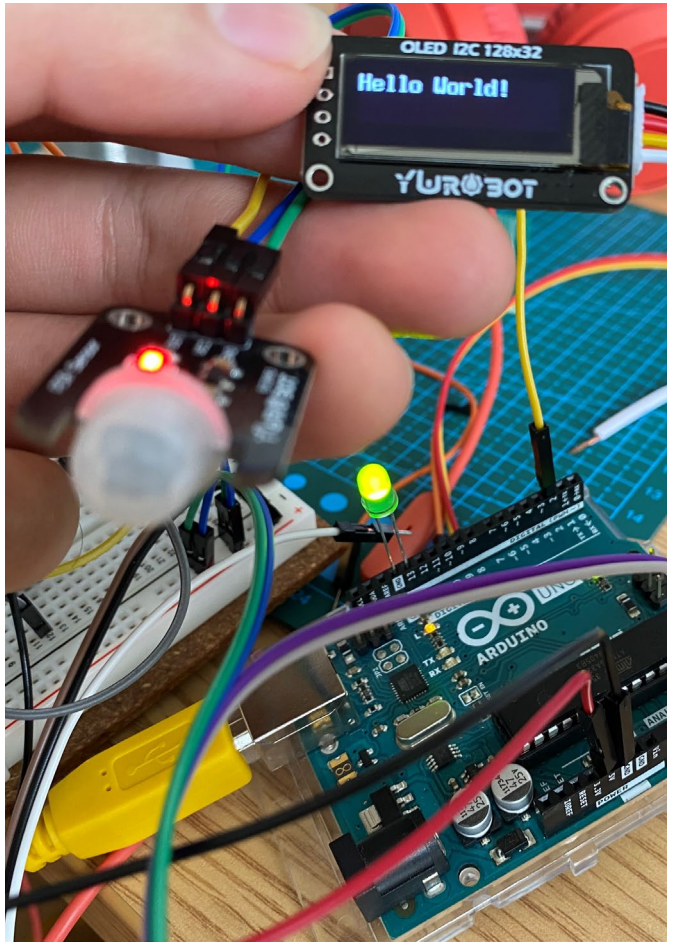
```
  int redvalue = analogRead(A0);//读取RGB数值并开启装置
  int redtime = 10*redvalue;
  Serial.print(redtime);
  digitalWrite(redlight, HIGH);
  delay(redtime);
  digitalWrite(redlight,LOW);
  int greenvalue = analogRead(A1);
  int greentime = 10*greenvalue;
  digitalWrite(greenlight,HIGH);
  delay(greentime);
  digitalWrite(greenlight,LOW);
  int bluevalue = analogRead(A2);
  int bluetime = 10*bluevalue;
  digitalWrite(bluelight,HIGH);
  delay(bluetime);
  digitalWrite(bluelight,LOW);
  digitalWrite(fan,LOW);//关闭
  }
 if (buttonval == LOW){
  digitalWrite(bluelight,LOW);
  digitalWrite(greenlight,LOW);
  digitalWrite(redlight,LOW);
  digitalWrite(fan,LOW);
  }
```

上传成功。

项目使用了 2588 字节，占用了 (8%) 程序存储空间。最大为 32256 字节。
全局变量使用了184字节，(8%)的动态内存，余留1864字节局部变量。最大为2048字节。

38 Arduino/Genuino Uno 在 COM4

PIR and OLED screen



OLED12832_Hello_World | Arduino ...

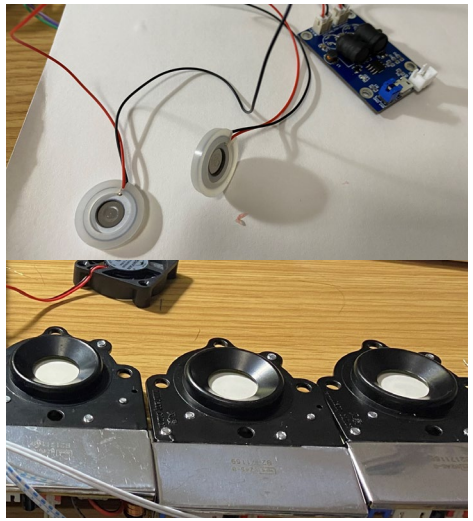
文件 编辑 项目 工具 帮助

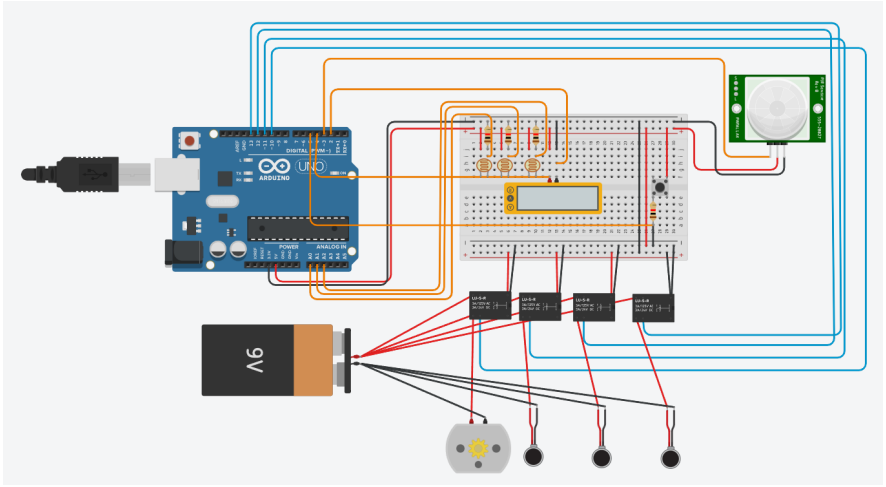
OLED12832_Hello_World

```
#include "U8glib.h"

U8GLIB_SSD1306_128X32 u8g(U8G_I2C_OPT_NONE);

void setup(void) {
  u8g.setFont(u8g_font_8x13B);
  u8g.setFontRefHeightText();
  u8g.setFontPosTop();
}

void loop(void) {
  int i;
  for (i = 1000; i >=0; i--) {
    u8g.firstPage();
    do {
      u8g.setColorIndex(1);
      u8g.drawStr(0, 0, "Hello World!");
      u8g.setPrintPos(0, 17);
      u8g.print(i);
      delay(300);
      u8g.setColorIndex(0);
    } while ( u8g.nextPage() );

  }
}
```

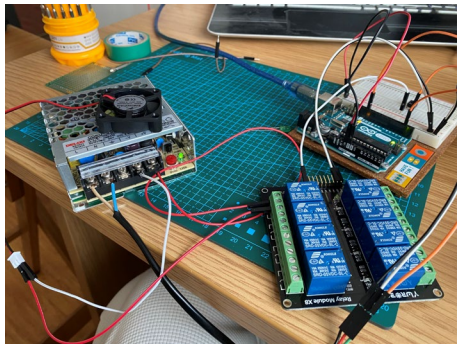
DEVELOPMENT PROCESS

Atomizer and fan

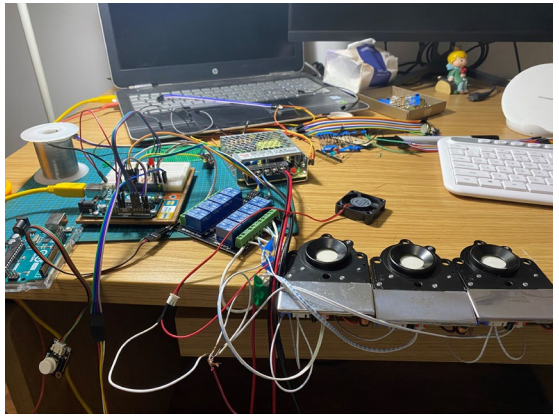




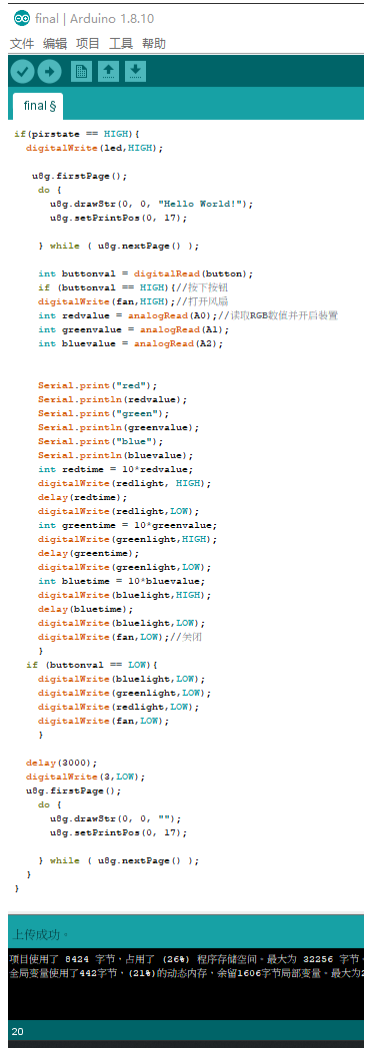
electromagnetic relay & 24V power



Whole circuit test

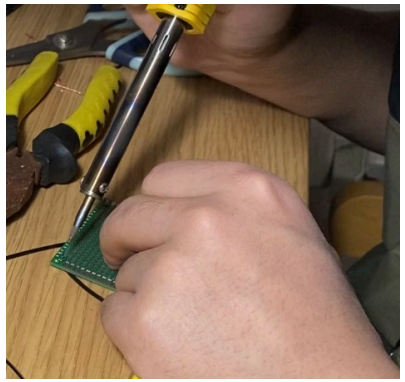


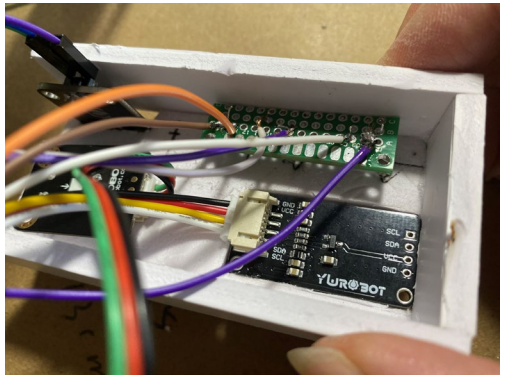
Final code

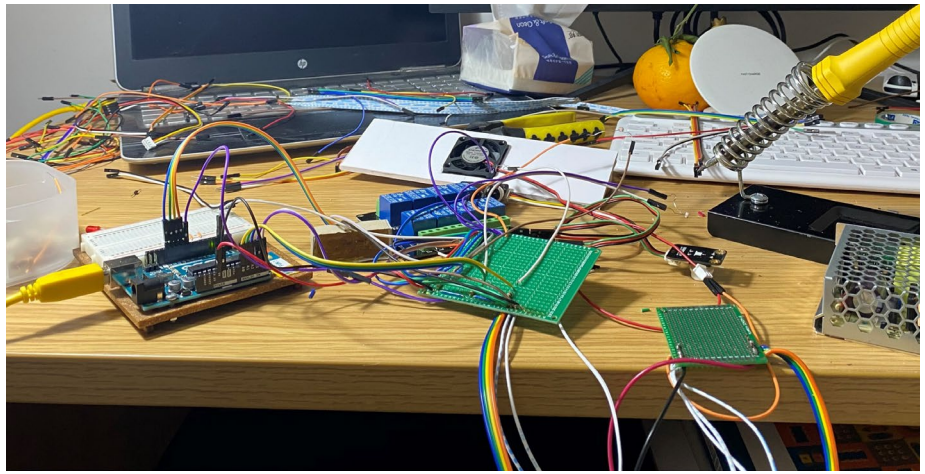


DEVELOPMENT PROCESS

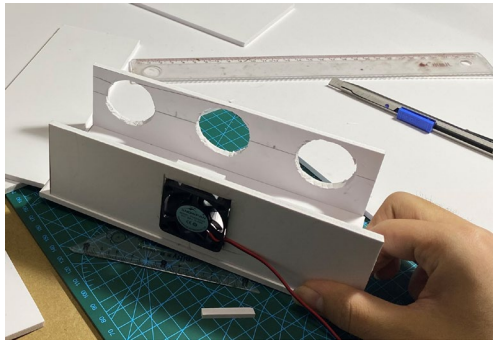
Soldering circuit

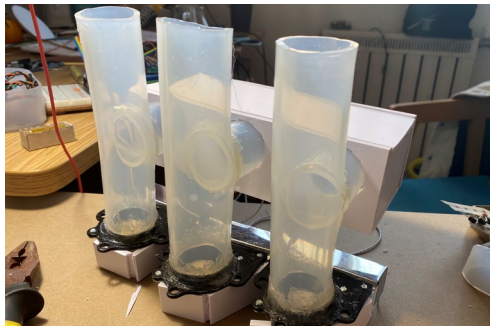


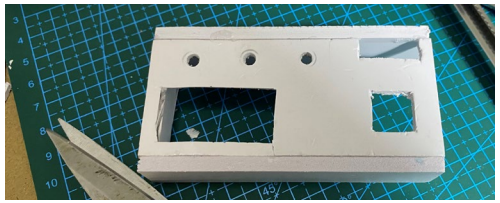


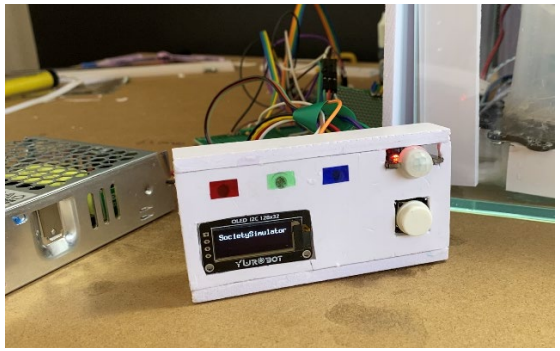


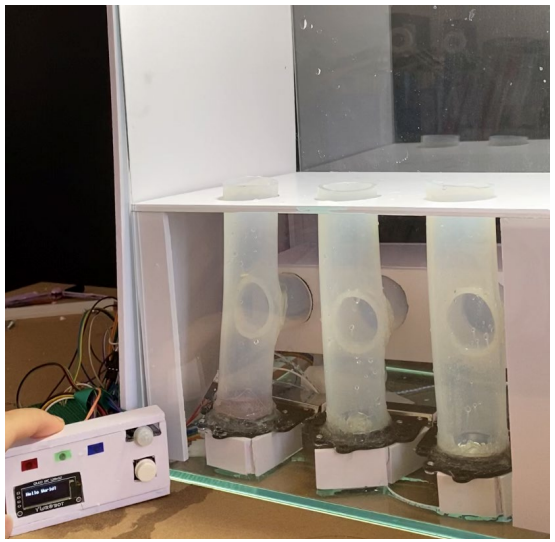
Make the appearance











Final effect video: https://www.youtube.com/watch?v=4RZZQe3UeaM
Github link: https://github.com/msc-creative-computing/p-comp-labs-FengLinLi2010