

目录

步骤1:	环境准备	•••••			••••• 3
步骤 2:	连接设备	•••••			• • • • • 4
步骤3:	总结与问题	•••••			<b>.</b> 5
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原文链接:https://www.wandianshenme.com/play/esp8266-emulator-philips-hue

在上一个玩法《智能家居声控: Amazon Echo + NodeMCU (ESP8266 模拟 Wemo) 控制 LED》中,我尝试使用 ESP8266 模拟了 Wemo 设备,以此来使用 Amazon Echo 设备来控制。于是,便想着是否能通过 ESP8266 来仿真 Philips Hue 设备,来实现同样 的效果。

遗憾的是, Philips Hue 设备与 Amazon Echo 通讯需要帐户登录,因此便放弃了想法。尽管如此,还是记录一下 ESP8266 模拟 Philips Hue 设备的过程。

这一篇里,我们所需要的设备只有一个 ESP8266。

步骤1:环境准备

首先,我们需要安装 Arduino ESP8266,请参考上一篇文章:《智能家居声控: Amazon Echo + NodeMCU (ESP8266 模拟 Wemo) 控制 LED»。

为了实现上面的目的,我们需要用到 **ESP8266 Hue Emulator**项目,其 **GitHub** 地 址: **ESP8266HueEmulator**。

而这个 ESP8266 仿真 Philips Hue 设备的项目,需要这么几个库NeoPixelBus、 aJson、Time、NtpClient,同时还需要修改一些相关的配置。

因此官方推荐使用这个脚本安装,比较简单:

(注意:如果是 Mac OS, 需要将下面脚本中的 \$HOME/Arduino/libraries/改为 \$HOME/Documents/Arduino/libraries/)

```
1 mkdir -p $HOME/Arduino/libraries/
```

2 cd \$HOME/Arduino/libraries/

3 git clone --branch 2.1.4 https://github.com/Makuna/NeoPixelBus.git

```
4 git clone https://github.com/interactive-matter/aJson.git
```

5 git clone https://github.com/PaulStoffregen/Time.git

6 git clone https://github.com/gmag11/NtpClient.git

7 sed -i -e 's|#define PRINT\_BUFFER\_LEN 256|#define PRINT\_BUFFER\_LEN 4096|g' aJson/aJSON.h

```
8 cd -
```

9 git clone https://github.com/probonopd/ESP8266HueEmulator.git

```
10 sed -i -e 's|#include "/secrets.h"|//#include "/secrets.h"|g'
```

ESP8266HueEmulator/ESP8266HueEmulator/ESP8266HueEmulator.ino

```
11 sed -i -e 's|//const char|const char|g'
```

ESP8266HueEmulator/ESP8266HueEmulator/ESP8266HueEmulator.ino 接着,我们只需要打开相应的 ino 文件,并编译烧录代码到设备上。 步骤 2:连接设备 在完成上一步后,让我们打开 Arduino 的控制台,来看看相应的日志。



如果不能在应用上查找到相应的设备,那么我们需要手动输入 IP 设备地址。随后, 我们就可以连接上设备,对应的控制台就有相应的日志:

- **1** 4090
- 2 { "name" : "hue

emulator", "swversion": "81012917", "bridgeid": "5CCF7FFFEB147DA", "portalservices": false, "li

- **3** 4983
- 4 {"1":{"type":"Extended color light", "name":"Hue LightStrips

1", "uniqueid": "AA:BB:CC:DD:EE:FF:00:11-1", "modelid": "LST001", "state": { "on":false, "hue":0, color light", "name": "Hue LightStrips 2", "uniqueid": "AA:BB:CC:DD:EE:FF:00:11-2", "modelid": "LST001", "state": { "on":false, "hue":0,

color light", "name": "Hue LightStrips

3", "uniqueid": "AA:BB:CC:DD:EE:FF:00:11-3", "modelid": "LST001", "state": {"on":false, "hue":0, color light", "name": "Hue LightStrips

4", "uniqueid": "AA:BB:CC:DD:EE:FF:00:11-4", "modelid": "LST001", "state": {"on":false, "hue":0, color light", "name": "Hue LightStrips

5", "uniqueid": "AA:BB:CC:DD:EE:FF:00:11-5", "modelid": "LST001", "state": { "on":false, "hue":0,

color light", "name": "Hue LightStrips

6", "uniqueid": "AA:BB:CC:DD:EE:FF:00:11-6", "modelid": "LST001", "state": {"on":false, "hue":0,
5 5171{}

除此,我们还能看到一些相应的 Hue 设备的其他信息:

1 88565

2 {"1":{"name":"起居室","lights":["1","2"]}}

**3** 88613

4 {"name":"注入能量","owner":"api","picture":"","lastupdated":"","recycle":false,"locked":false

5 88780

6 {"name":"静心阅读","owner":"api","picture":"","lastupdated":"","recycle":false,"locked":false

7 89260

8 {"name":"渐暗","owner":"api","picture":"","lastupdated":"","recycle":false,"locked":false,"ve

**9** 89343

10 {"name":"集中精神","owner":"api","picture":"","lastupdated":"","recycle":false,"locked":false

11 89430

12 {"name":"放松休息","owner":"api","picture":"","lastupdated":"","recycle":false,"locked":false

14 {"name":"夜灯","owner":"api","picture":"","lastupdated":"","recycle":false,"locked":false,"ve 15 89622

16 {"name":"热带黎明", "owner":"api", "picture":"", "lastupdated":"", "recycle":false, "locked":false

18 90369

19 {"name":"北极光","owner":"api","picture":"","lastupdated":"","recycle":false,"locked":false,"

步骤 3: 总结与问题 ヘ

尽管,我们能使用 ESP8266 模拟 Philips Hue 设备,但是我们并不能使用 Homekit 或者 Home Assistant 进行直接控制。这样一来,还是模拟 Wemo 好用。

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