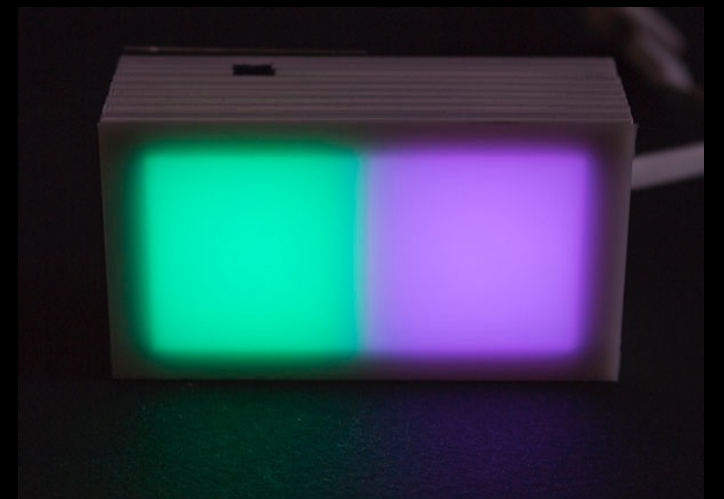
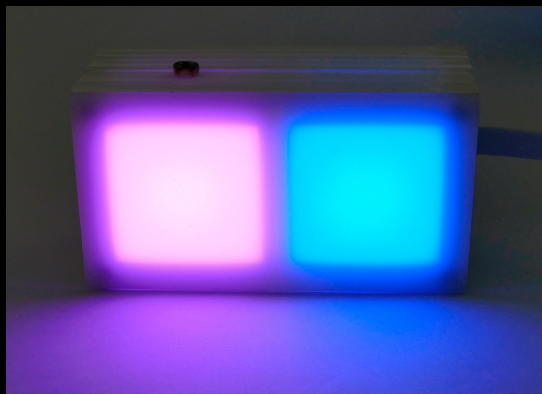
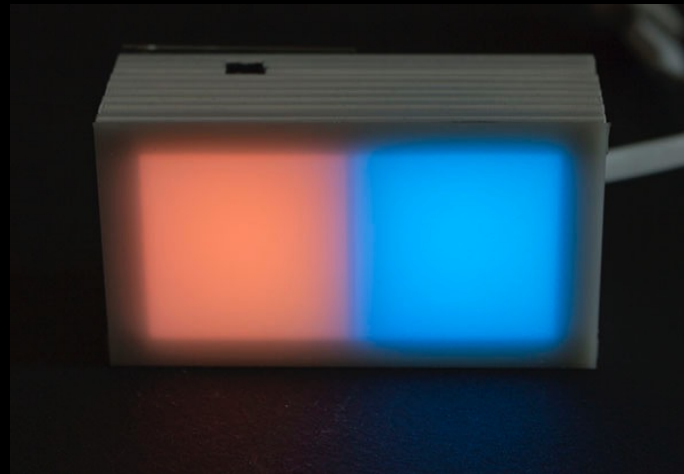


WeMakeColors II

2018



Distributed light installation



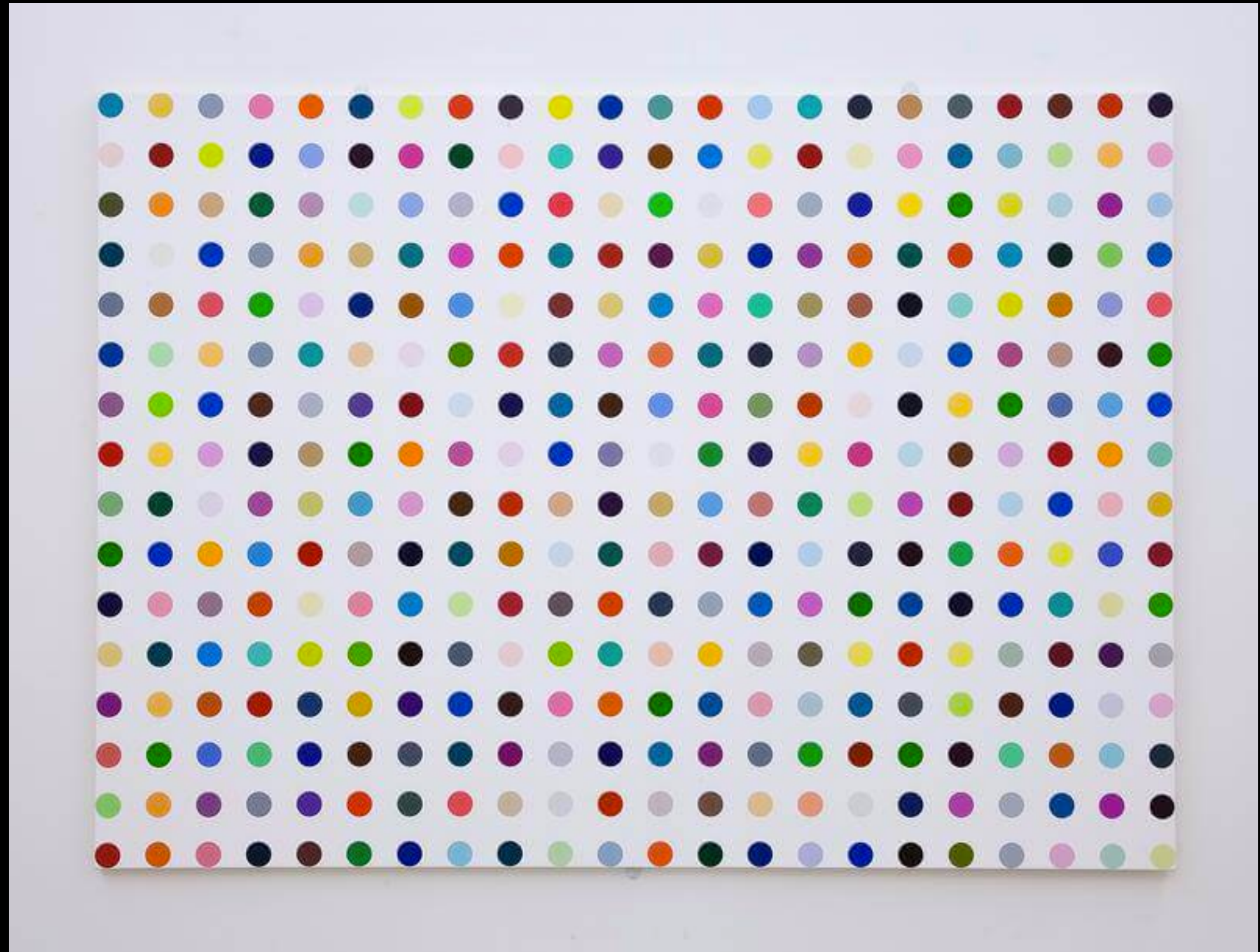
WeMakeColors

2016

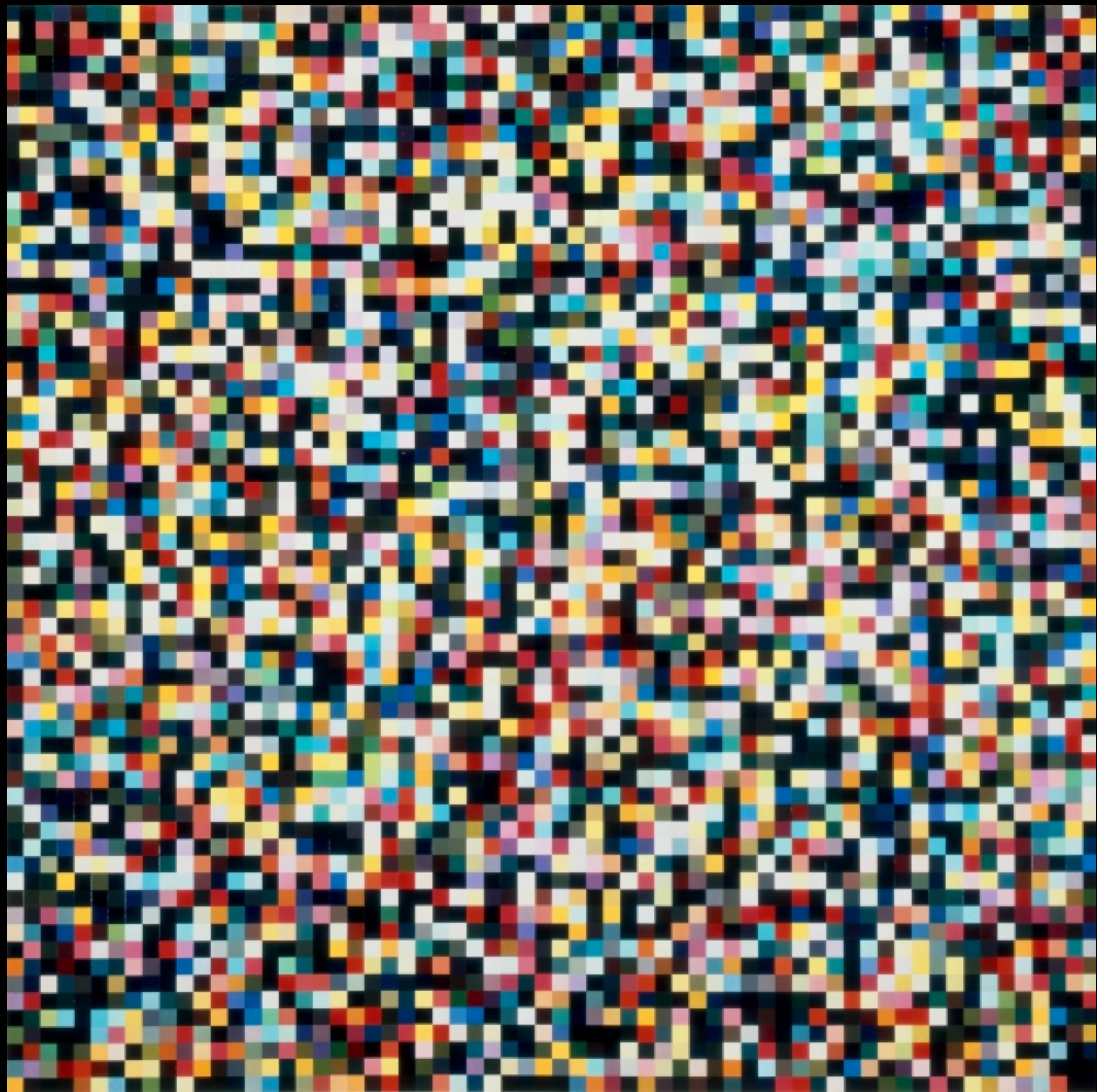




100% Random
2012



Damien Hirst - Spot paintings

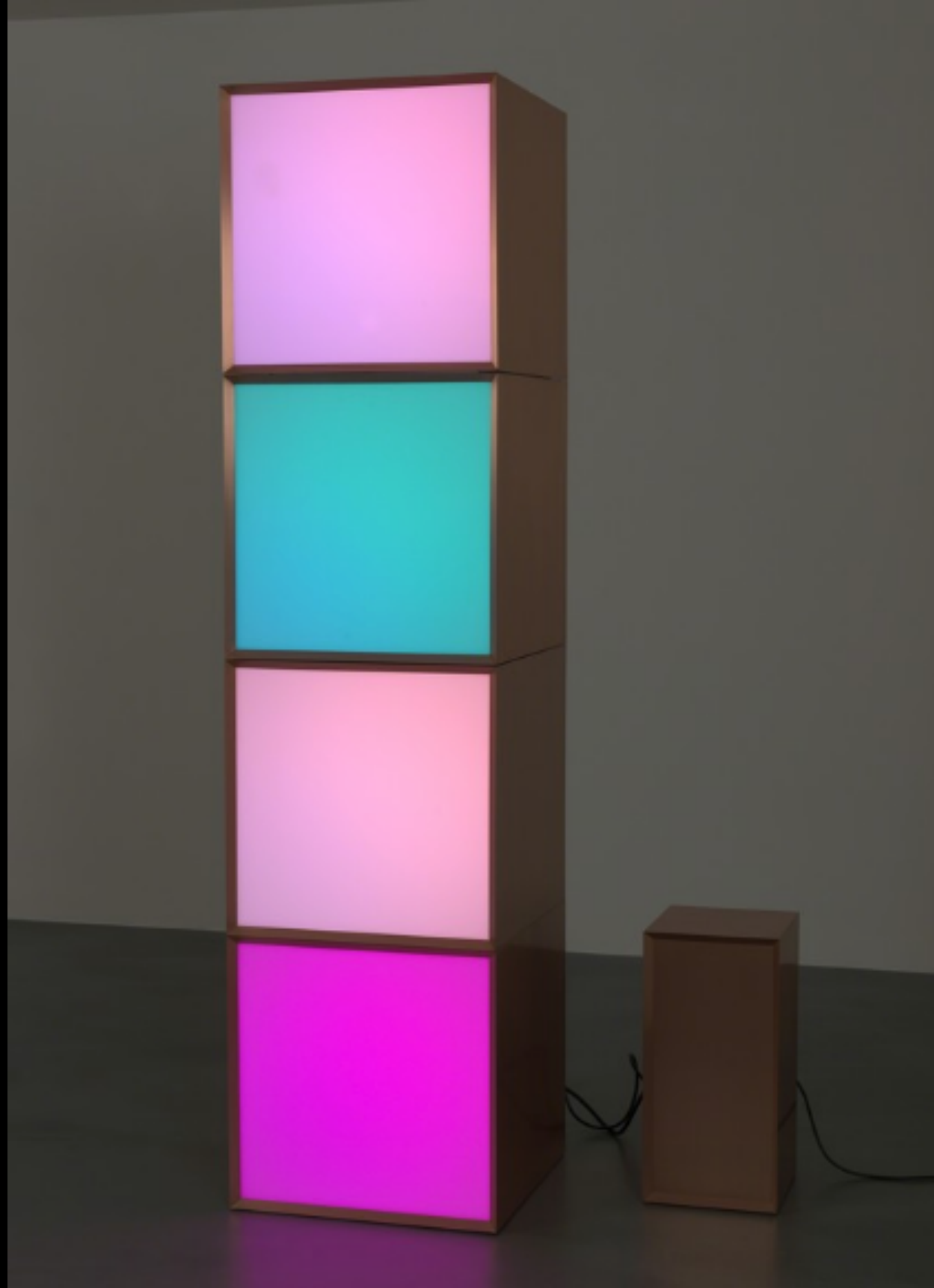


4096 Farben - 1974, 254 cm x 254 cm, Lack auf Leinwand



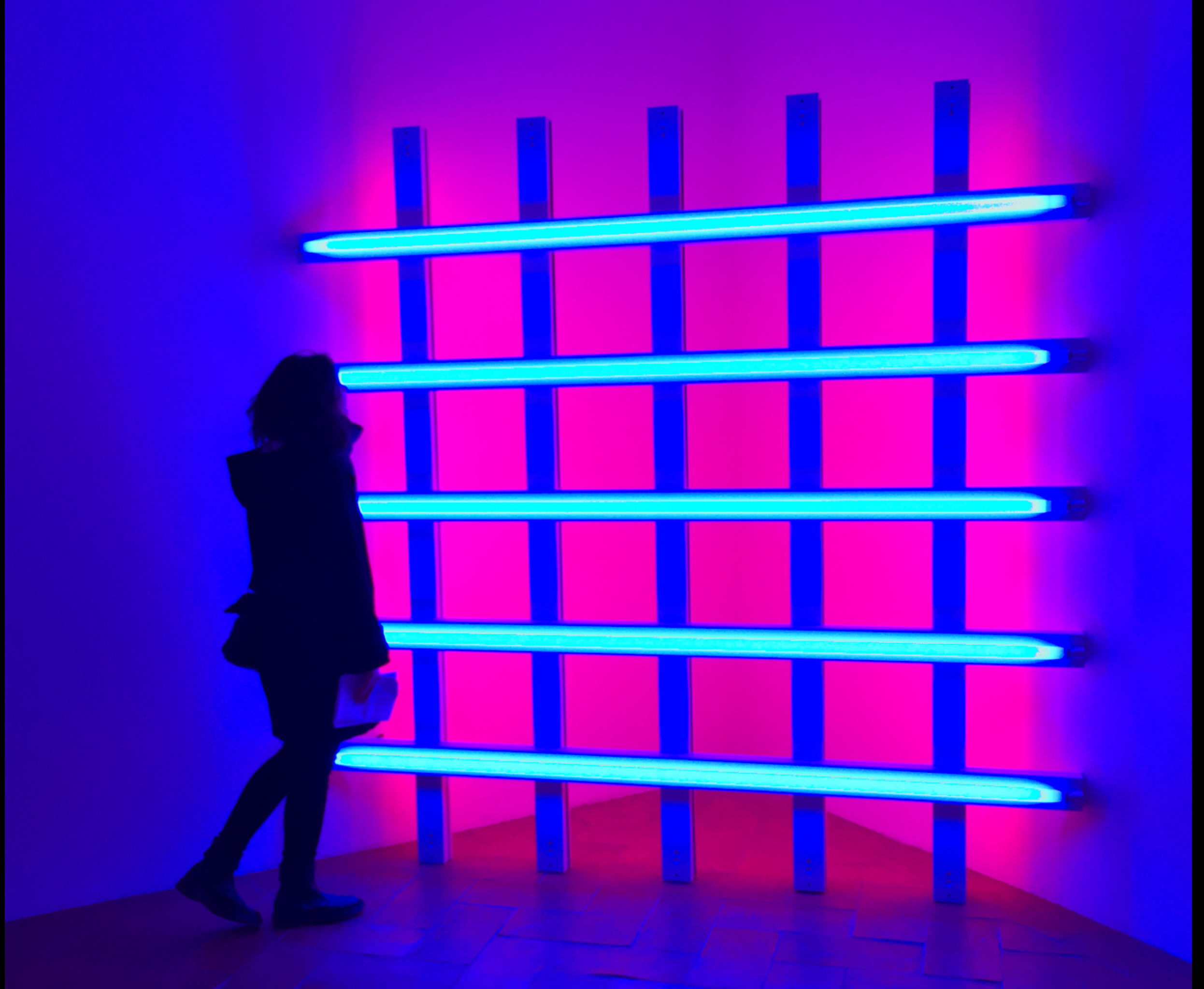
Gerhard Richter - Cologne Cathedral

2007

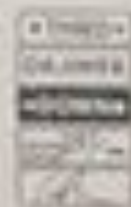


Angela Bulloch - Copper Stack 4

2012



MODERN ART = I COULD DO THAT + YEAH, BUT YOU DIDN'T



Craig Damrauer

Pixel

Minimal visual entity - RGB as human eye
2 pixels: color interaction - perception is relative

Open source

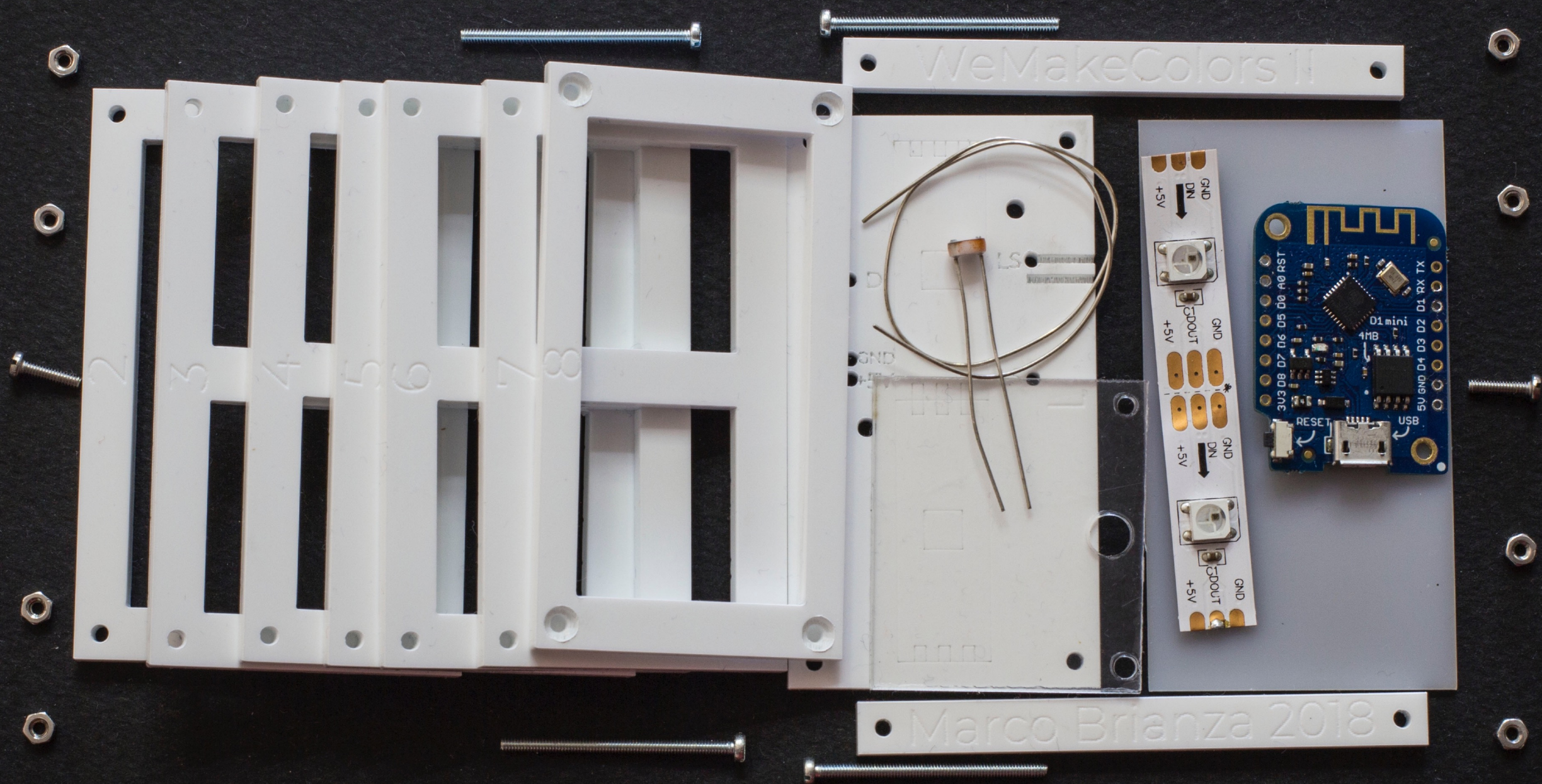
I want the concept to spread, not just the object
When you eat an apple you get a seed to grow a new apple tree

Atoms are the new bits

The machine makes the hard work
The artist produces the concept and the design

Show

Festival are lot of information in a small place in a short time
This installation is distributed in wide space and long time



Grid Snap

Ortho

Planar

SmartTrack

Gumball

History



Perspective

Top

Front

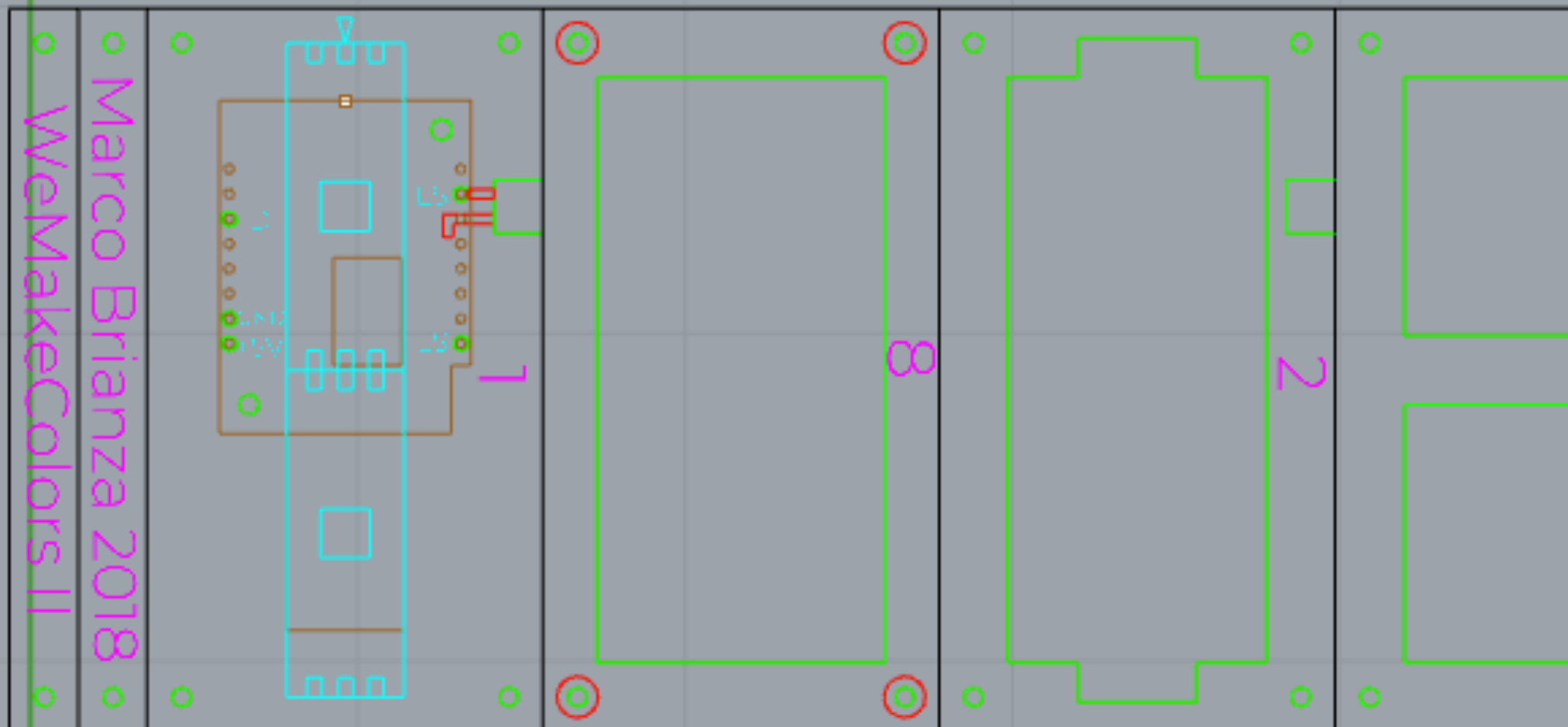
Right

Top

and



ersistent





Marco Brianza 2018
VielMakeColors II

Marco Brianza 2018
VielMakeColors II



WeMakeColorsII

IoT

light

mqtt



```
1
2 String softwareName = "WeMakeColorsII";
3 String softwareVersion = "1.0.0"; //
4 String software = "";
5
6
7 //boot Count
8 #include <EEPROM.h>
9
10 //Wi-Fi
11 #include <ESP8266WiFi.h> // ESP8266 core 2.4.1
12 WiFiClient wifi;
13
14 //Wi-FiManager
15 #include <DNSServer.h>
16 #include <ESP8266WebServer.h>
17 #include <WiFiManager.h> // Version 0.12.0
18 #include "FS.h"
19
20 #define MAX_PARAM 40
21 #define MQTT_MAX MQTT_MAX_PACKET_SIZE
22
23 char THING_ID[MAX_PARAM];
24 String thingId = "";
25 String appId = "WMCII_";
26
27 #define THING_NAME_DEFAULT ""
28 char THING_NAME[MAX_PARAM] = THING_NAME_DEFAULT;
29 String s_thingName = "";
30 char MQTT_SERVER[MAX_PARAM] = "wmc.marcobrianza.it";
```

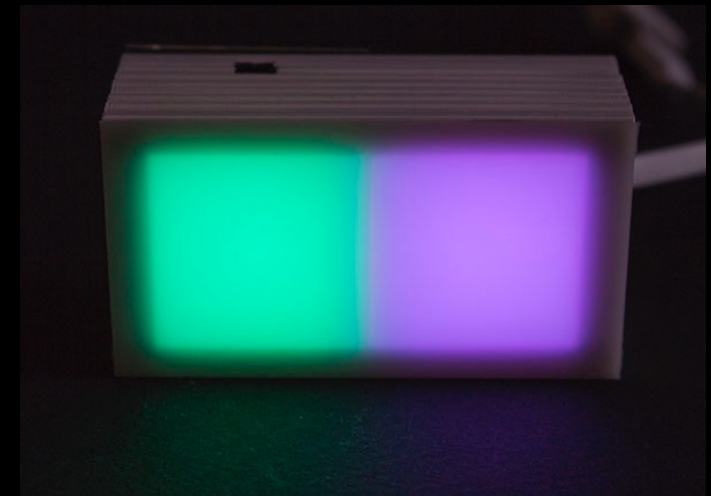
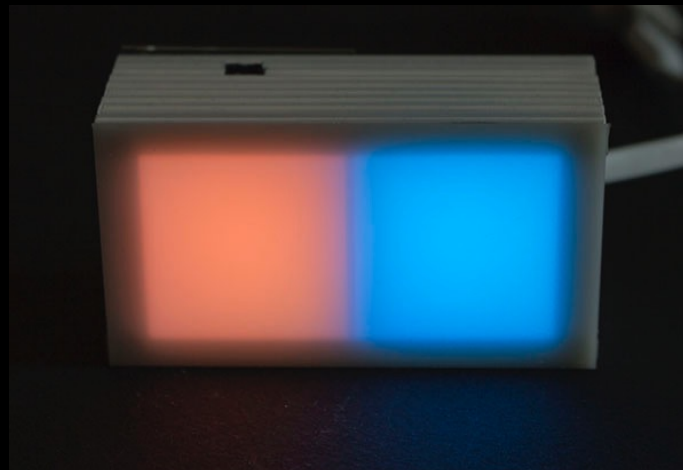
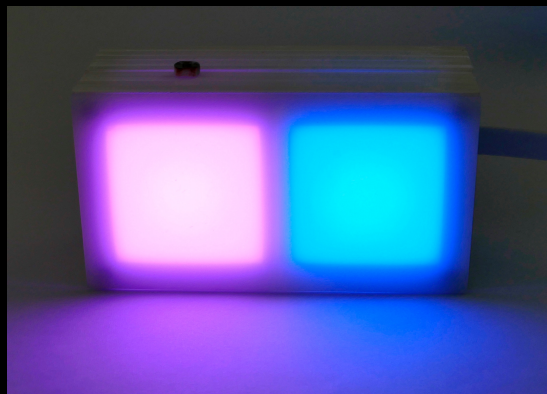
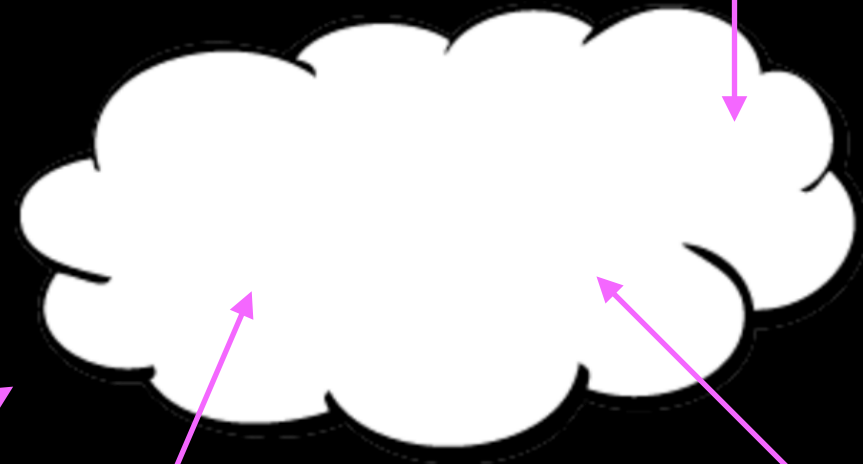
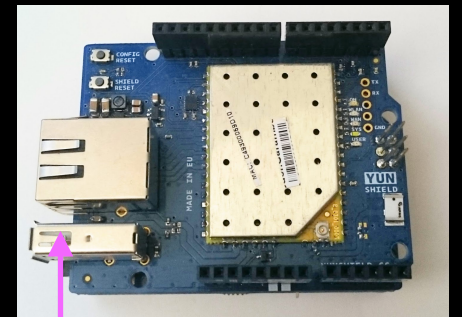


```
CHSV newRndColor() {  
  
    int h = random(0, 255);  
    int s = random(128, 255);  
    int v = random(128, 255);  
  
    //Serial.print(h); Serial.print(" "); Serial.print(s); Serial.print(" "); Serial.println(v);  
    return CHSV(h, s, v);  
}
```

wmc.marcobrianza.it



MosQiTTo



Published message

Sudden light change

WeMakeColorsII/WMCI_2C:3A:E8:43:A2:87/randomColor

```
{  
  "h" : 135,  
  "s" : 166,  
  "v" : 178,  
  "thingName" : "WMCI_DC:4F:22:1C:87:B5",  
  "lightLevel" : 647  
}
```

Published message

heartbeat every 15 minutes

WeMakeColorsII/WMCII_2C:3A:E8:43:A2:87/beat

```
{  
  "count" : 28,  
  "softwareName" : "WeMakeColorsII",  
  "softwareVersion" : "1.2.2",  
  "thingName" : "WMCII_DC:4F:22:1C:87:B5",  
  "lightLevel" : 664,  
  "FreeHeap" : 39752  
}
```


Subscribed messages

Pixel 2 color

[WeMakeColorsII/+/randomColor](#)

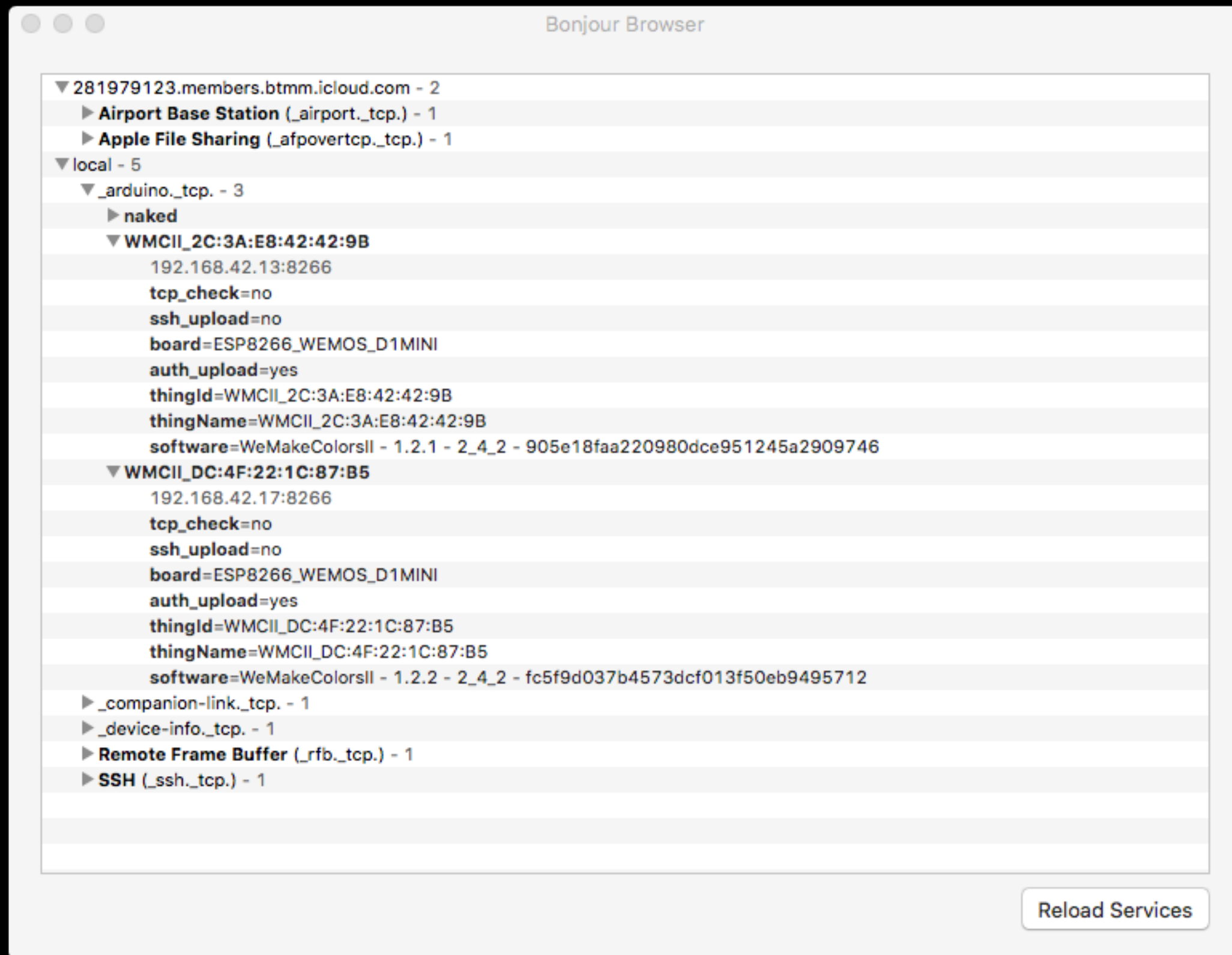
```
{  
  "h" : 135,  
  "s" : 166,  
  "v" : 178,  
  "thingName" : "WMCII_DC:4F:22:1C:87:B5",  
  "lightLevel" : 647  
}
```

remote configuration

[9randomSpots/9RS_2C:3A:E8:43:A2:87/config](#)

```
{  
  "command": "update",  
  "option": "http://iot.marcobrianza.it/WeMakeColorsII/WeMakeColorsII.ino.d1_mini.bin"  
}
```

multicast dns



Network parameters and options

Wi-Fi captive portal web page

