

Twitter Controlled Christmas Lights

Instruction Manual

You will need:

1. Christmas lights
2. Arduino Uno with an Ethernet Shield
3. Twitter account
4. MQTT

Instructions:

Step 1. Attach the Christmas lights to the Arduino with the help of *figure 1 below*.

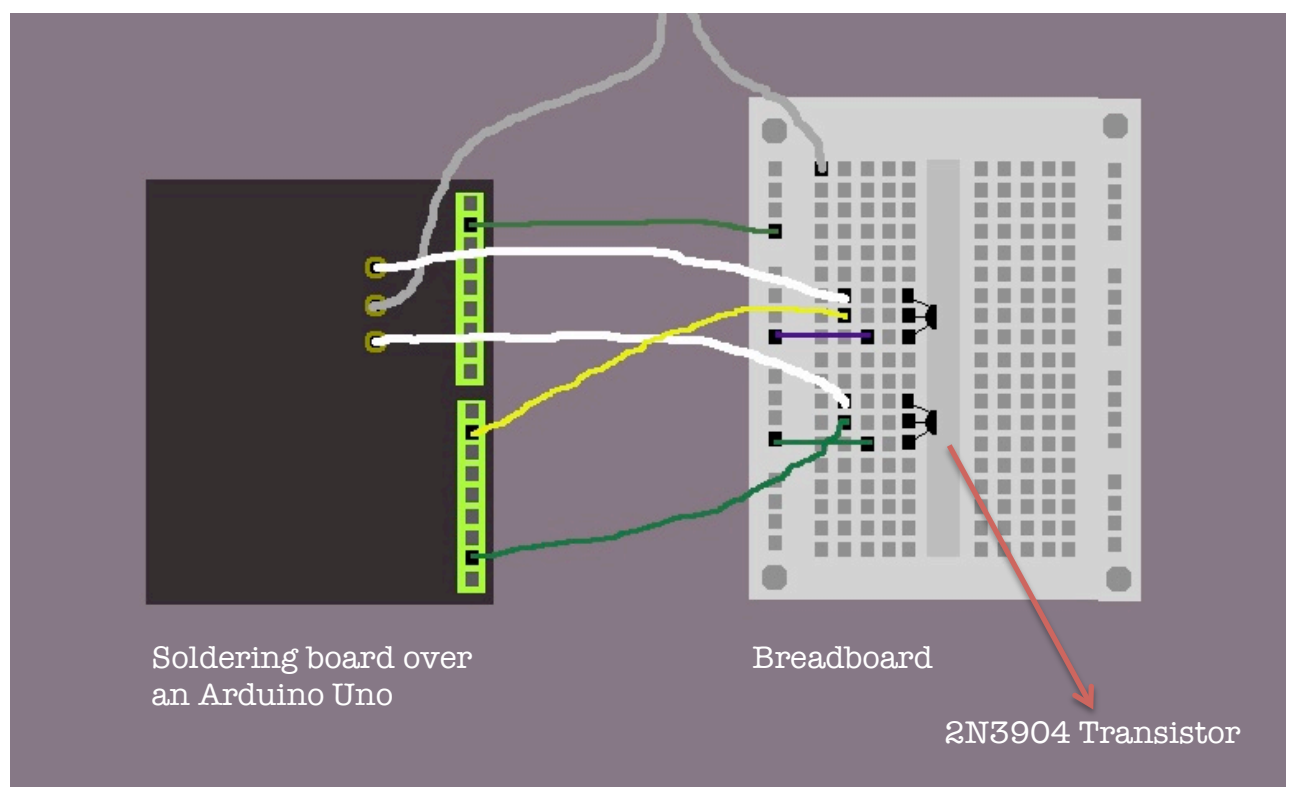


Figure 1: Layout of hardware.

Step 2. Open the CL.py python script and add your own twitter account information as asked of in lines 8-12.

```
8 # ----- INSERT YOUR ACCOUNT INFORMATION BELOW -----  
9 CONSUMER_KEY = "INSERT YOUR CONSUMER KEY HERE"  
10 CONSUMER_SECRET = "INSERT YOUR CONSUMER SECRET KEY HERE"  
11 ACCESS_KEY= "INSERT YOUR ACCESS KEY HERE"  
12 ACCESS_SECRET = "INSERT YOUR ACCESS SECRET KEY HERE"
```

Figure 2: Lines 8-12 of python script CL.py.

Step 3. Open MQTT and subscribe to topic "ChristmasLights"

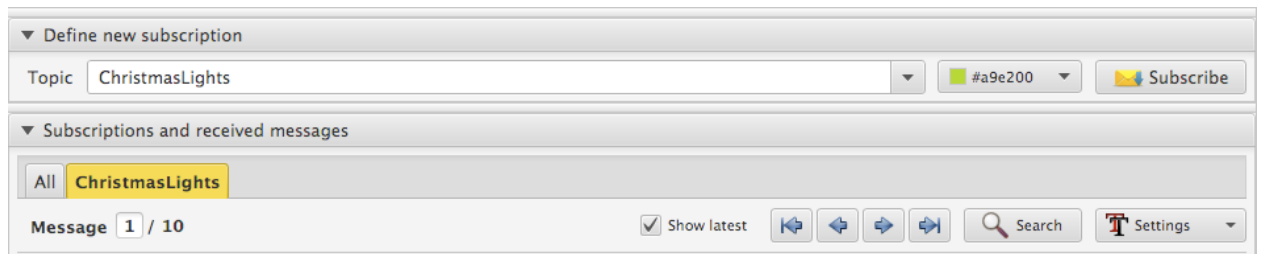


Figure 3: Snapshot of MQTT.

Step 4. Run the python script

Step 5. Message a pattern name to the twitter account

Step 6. Enjoy the amazing light display!

