

# Twitter Controlled Christmas Lights

## Instruction Manual

### You will need:

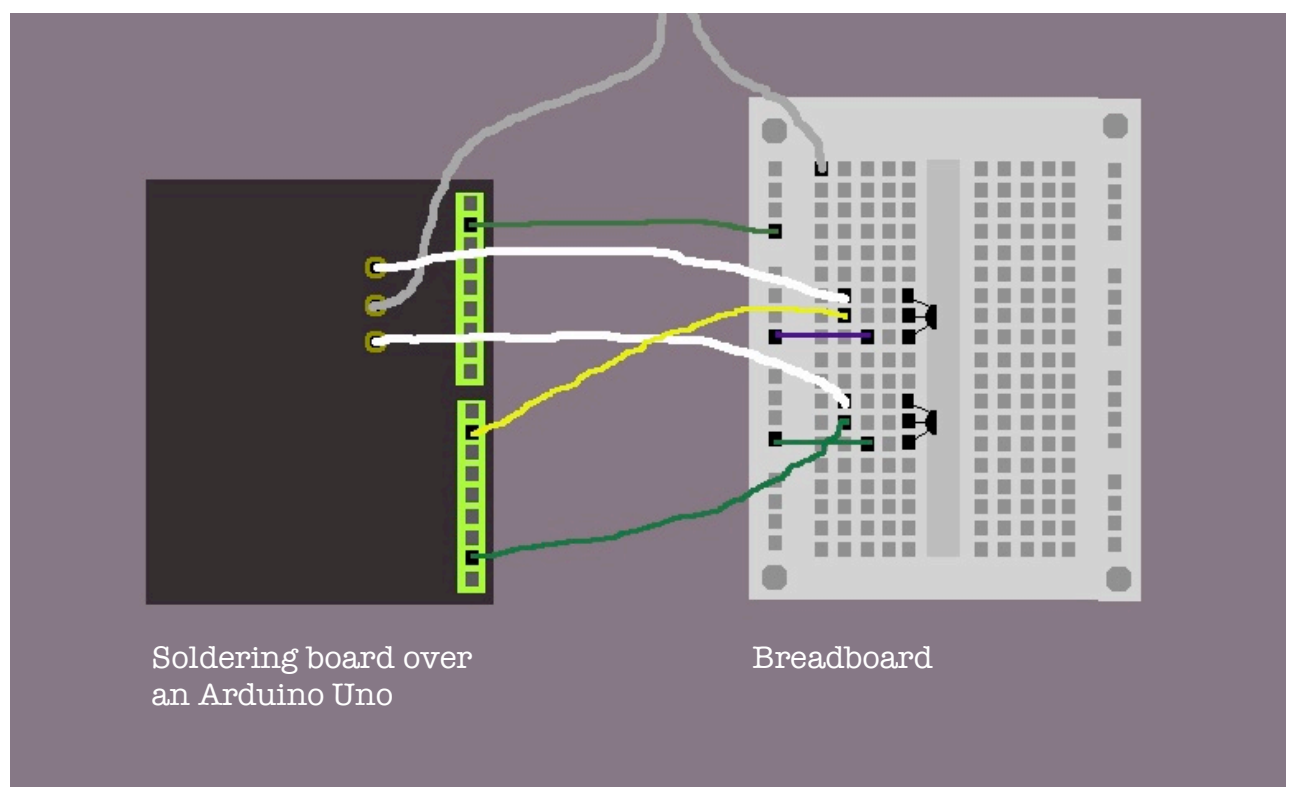
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1. Christmas lights
2. Arduino Uno with an Ethernet Shield
3. Twitter account
4. MQTT

### Instructions:

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



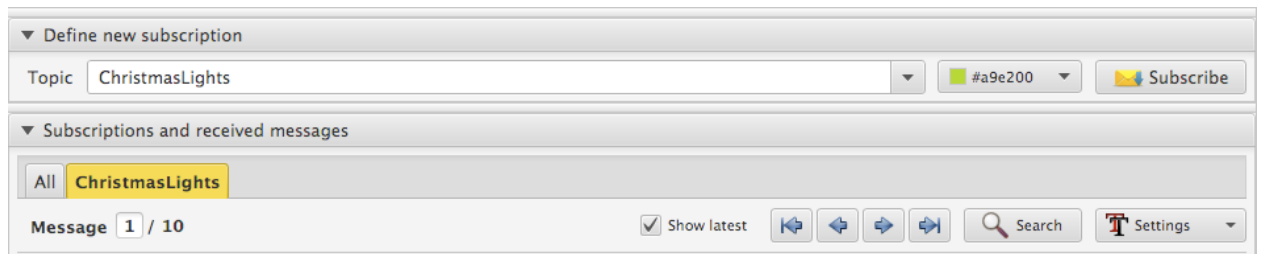
*Figure 1: Layout of hardware.*

**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!

