This manual shows how to control a RBG ledstrip using Telegram

What you'll need:

1. NodeMCU ESP8266 V2 4MB Development Board WiFi Breadboard

2. USB

3. RGB Ledstrip

Step 1:

Download the Telegram app and create an account.

If you already have telegram you won't need to do this step.

Step 2:

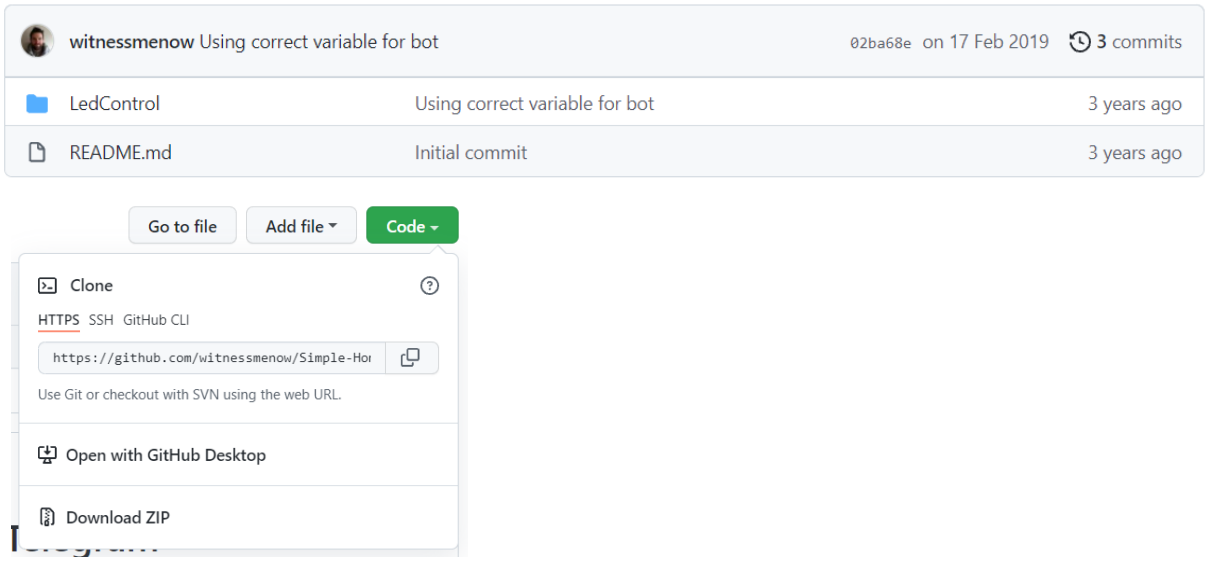
Search for ‘BotFather’ and start an conversation. To start the conversation just type ‘/start’.

Next type in ‘/newbot’ and follow the steps until you’ve created your bot.

You’ll then get a message from the bot which contains the link to your bot and your ‘BOTtoken’. You’ll need to safe this token for later.

Step 3:

For Arduino you'll need to download you'll need to download LEDCONTROL. You'll find it here: https://github.com/witnessmenow/Simple-Home-Automation-With-Telegram



After you've downloaded it unpack the ZIP. Then open LEDCONTROL in Arduino.

Step 4:

After you've opened LEDCONTROL in Arduino you'll need to install another library.

Go to 'Sketch' then 'Include Library' and click on 'Manage Libraries…'

The library manager will open up and you'll need to type in the searchbar: 'Telegram'. Then search for 'UniversalTelegramBot' by Brian Lough and install it.

Don't leave the library manager just yet. We'll need to download another one.

Search for 'ArduinoJson' by Benoit Blanchon. Install the last version that is not a beta.

Step 5:

Inside LEDCONTROL you'll need to change is the network SSID and the password.

```
char ssid[] = "SSID";         // your network SSID (name)
char password[] = "password"; // your network password

#define TELEGRAM_BOT_TOKEN "XXXXXXXXX:XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX"
```

This is just your wifi name and password, ita lso works with a hotspot.

After you've done that you'll also need to change the BOTtoken to that of the one of your bot in Telegram.

Step 6:

You'll also need to change the LED_PIN. In my case its D5. So I'll change it to that.

```
#define LED_PIN 2 // Same as D4 for Wemos
```

```
#define LED_PIN D5 // Same as D4 for Wemos
```

After that you'll need to define how many LED's there are on your ledstrip and also what kind of ledstrip you have.

```
#define LED_PIN D5 // Same as D4 for Wemos
#define PIXEL_COUNT   12
#define PIXEL_TYPE    NEO_GRB + NEO_KHZ800
```

In my case this is what I have to put in.

Everything worked in Arduino but the ledstrip didnt work. It's probably because I didn't use the right code.