RGB LED Strip Kit for Colorful Scenes

(support iphone control)

For the first you get this kit， it may be not difficult to build them up， but it is not easy to the effect know every comment. If you are a senior geek, ignore what I said.

First of all, the controller of this kit：Bluno.

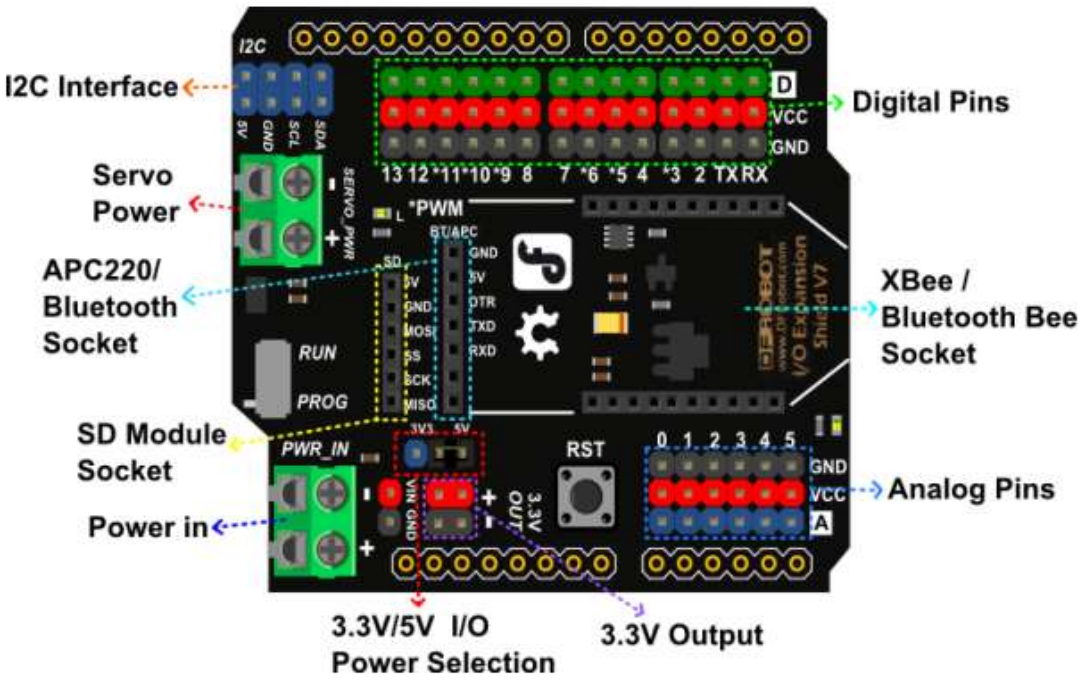
Bluno is an Arduino board which integrates with a TI CC2540 BT 4.0 chip with the Arduino UNO development board. It allows wireless programming via BLE, supports Bluetooth HID, supports AT command to config the BLE, and you can upgrade BLE firmware easily. Bluno is also compatible with all Arduino Uno pins which means any project made with Uno can directly go wireless! It needs Android 4.3+ Devices with BLE or IOS 7.0+ Devices.

Click this link:

http://www.dfrobot.com/wiki/index.php/Bluno_SKU:DFR0267

The website gives all the details of Bluno. After simple operation， you can use this amazing board.

Next one：IO Expansion Shield for Arduino V7



This expansion shield for Arduino will help you to connect your comments to Bluno well, and if you have some other control board such as UNO or Mega2560 or Romeo you can alse use this expansion shield. In this kit, it will help you to connect the LED strip and sound sensor. And for more details of V7, click the website below.

http://www.dfrobot.com/wiki/index.php/IO_Expansion_Shield_for_Arduino_V7_SKU:DFR0265

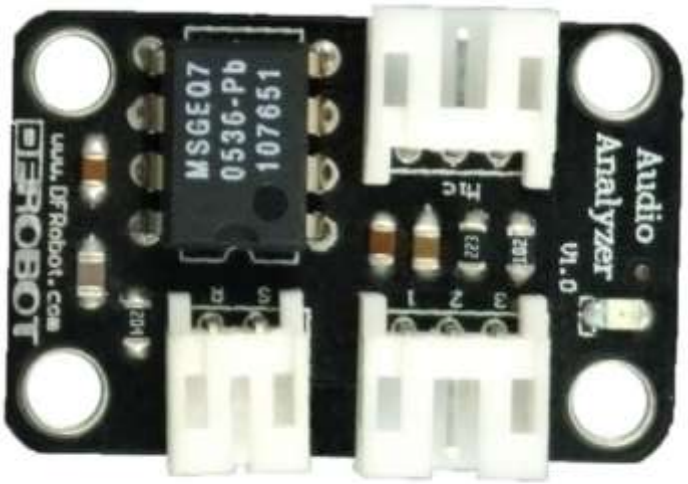
And the next one: Sound Sensor

Analog Sound Sensor is typically used in detecting the loudness in ambient, the Arduino can collect its output signal by imitating the input interface. You may use it to make some funny interactive works such as a voice operated switch.

And for more details：

http://www.dfrobot.com/index.php?route=product/product&filter_name=sound&product_id=83#.UqqsWY3diHA

The next one: Audio Analyzer



This module features the MSGEQ7 graphic equalizer display filter.It will give your arduino ears. Sound is broken down into seven frequency bands and the peak level for each band can be read. The seven frequencies measured are as follows: 63Hz, 160Hz, 400Hz, 1kHz, 2.5kHz, 6.25kHz and 16kHz. This module can be used to create sound visualizers, detect patterns in music or add sound activation to your microcontroller.

For more details :

http://www.dfrobot.com/index.php?route=product/product&filter_name=audio&product_id=514#.Uqqs1o3diHA

The last one comment: LED Strip

This is a kind of chip_inside LED strip, so you can control each LED individually! There are 60RGB LEDs per meter, it is so wonderful when you change the color of them. And for the control of the LEDs, it only need one digital pin of your Arduino of other MCU power supply from 3.3V-5V.

The chip in every LED called WS2812, you can find the datasheet in our website. And once we know how long your strip is, you can get the amount of the LEDs easily.

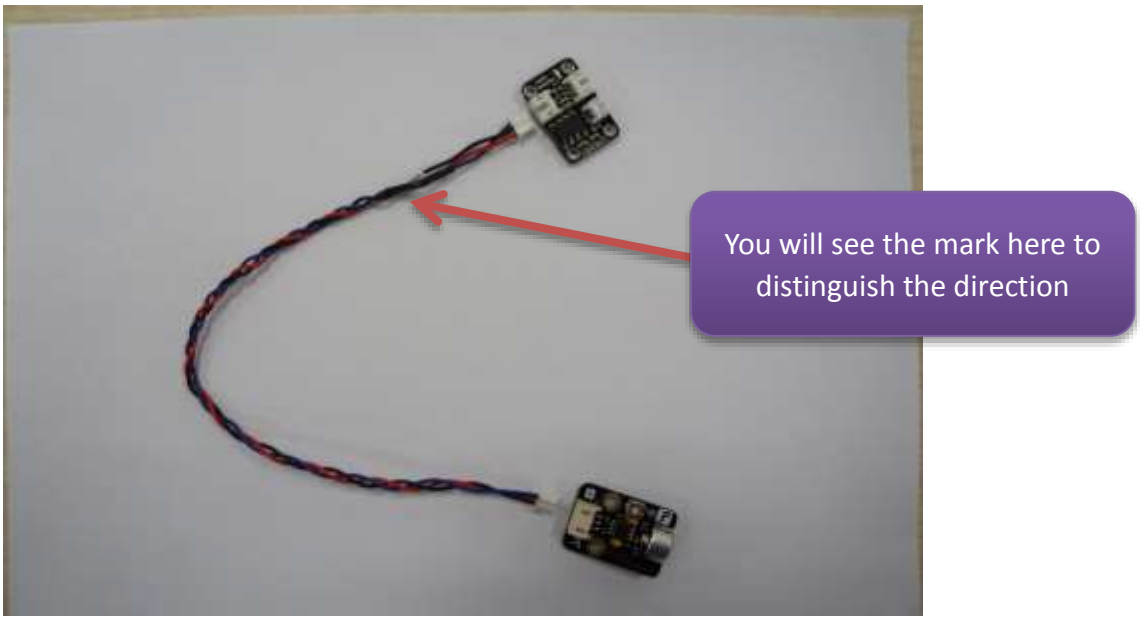
For more details:

http://www.dfrobot.com/wiki/index.php/Digital_RGB_LED_Weatherproof_Strip_60LED/m*3m_SKU:_FIT0352

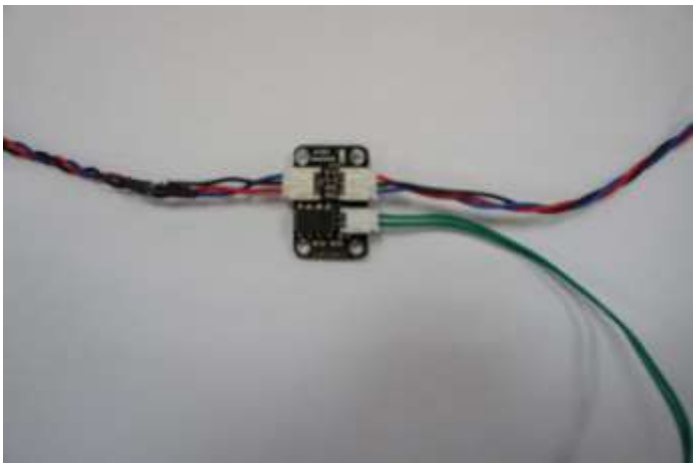
And first what you will get from this kit:

That seems a lot of things, but not hard. So how to install them?

First, connect the microphone module with the audio analyzer:

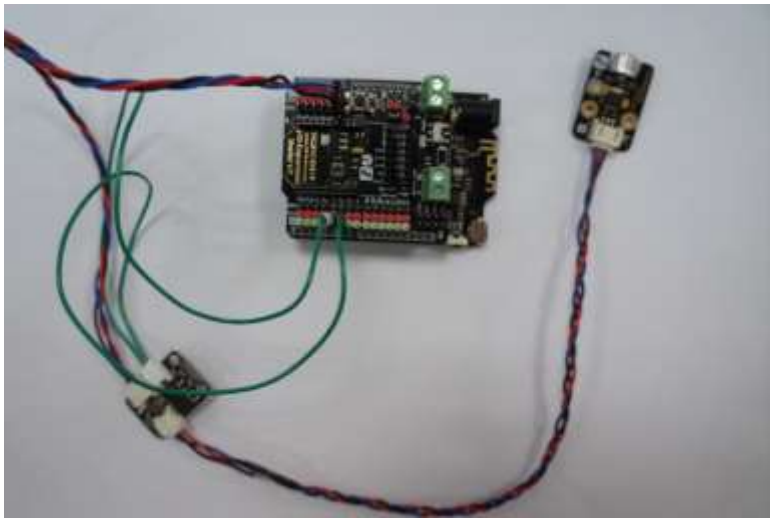


And then continue connecting:

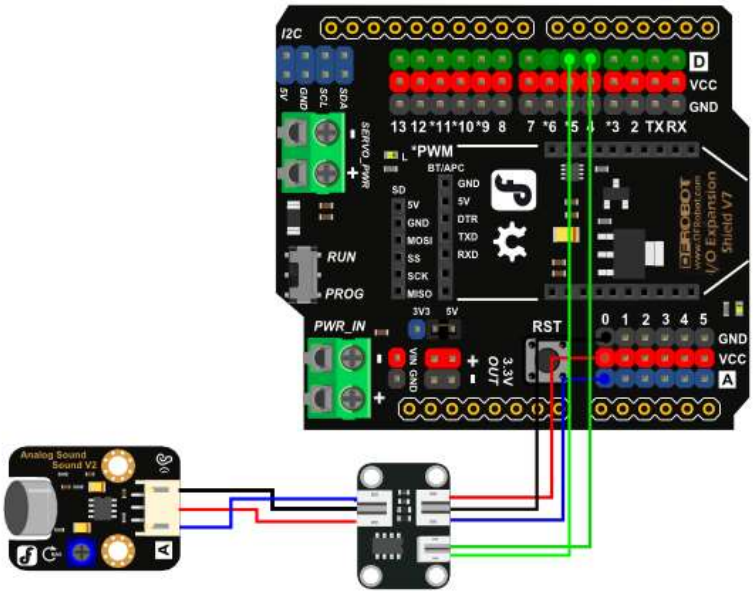


Make the Bluno and V7 Shield ready:

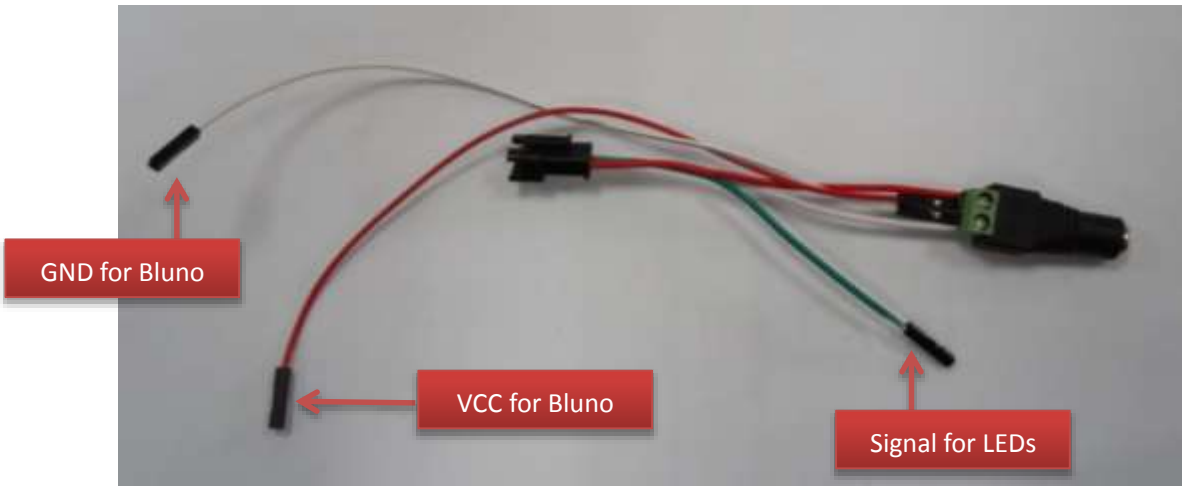
Connection with the audio analyzer and microphone:



Too many cables to distinguish? OK,

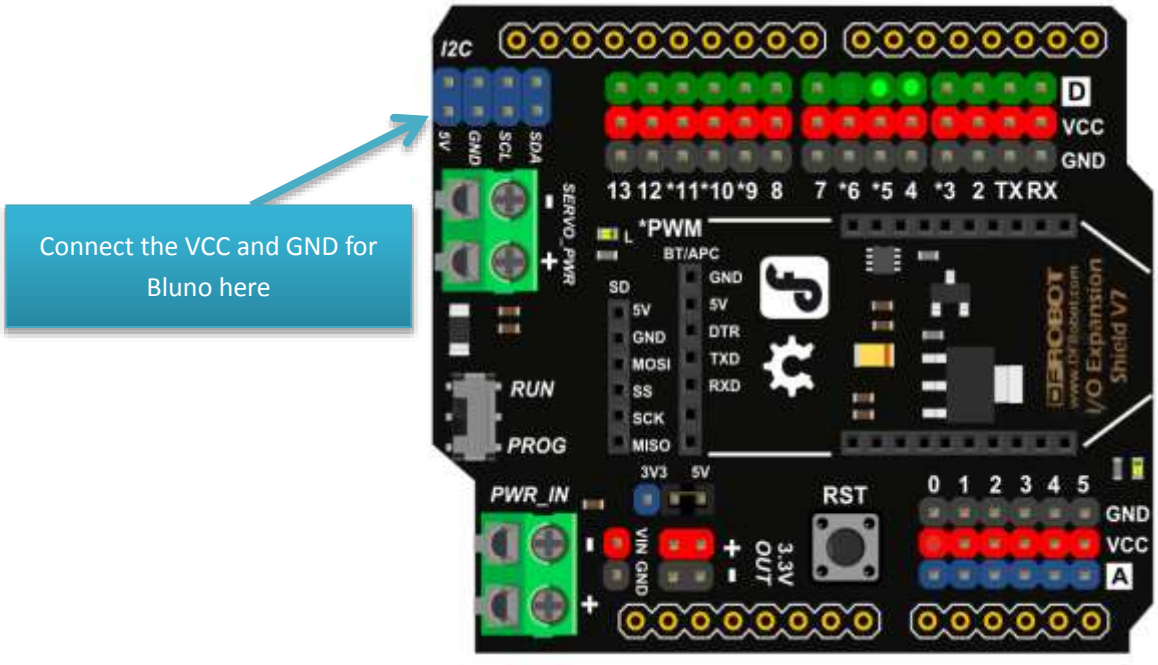


Next connect the cables for power supply：

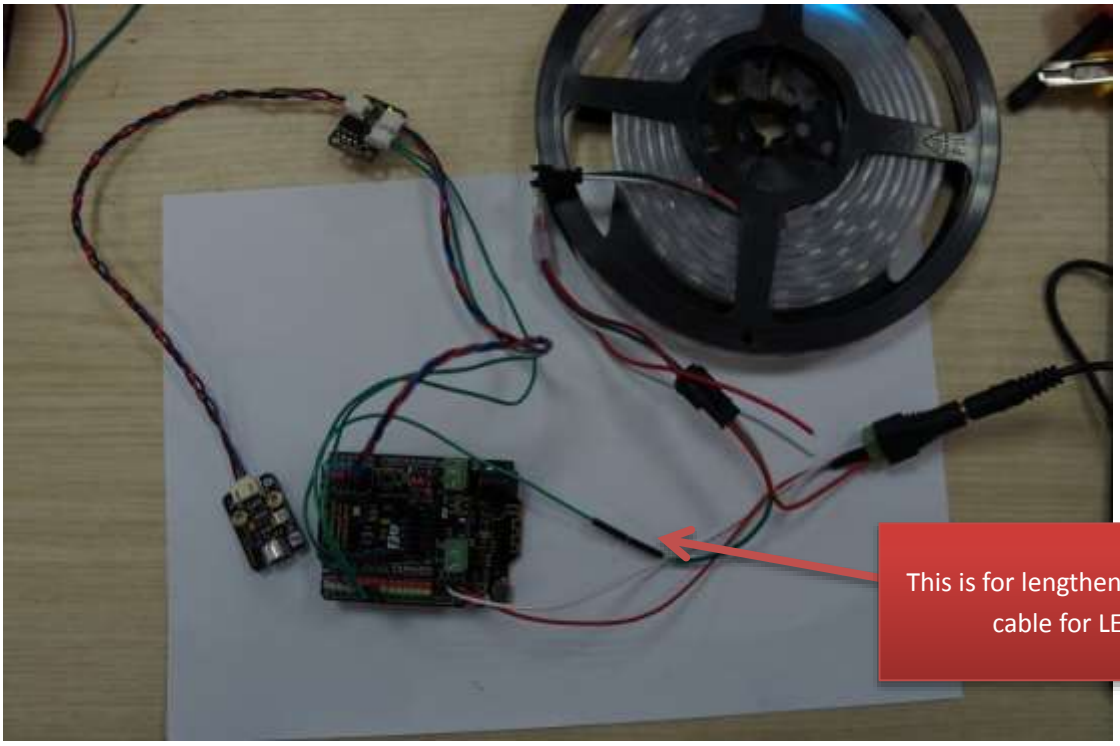


So where for the cables to power the Bluno?

You can connect the VCC for Bluno and GND for Bluno like this:



After all, you will finish connecting:



OK, download the code and control the light!

You can also rewrite the code for your own use, have fun!