

15 OLED_IIC display module

1 System configuration process:

sudo apt-get update sudo apt-get install build-essential python-dev python-pip sudo pip install RPi.GPIO sudo apt-get install python-imaging python-smbus sudo apt-get install git git clone https://github.com/adafruit/Adafruit_Python_SSD1306.git cd Adafruit_Python_SSD1306

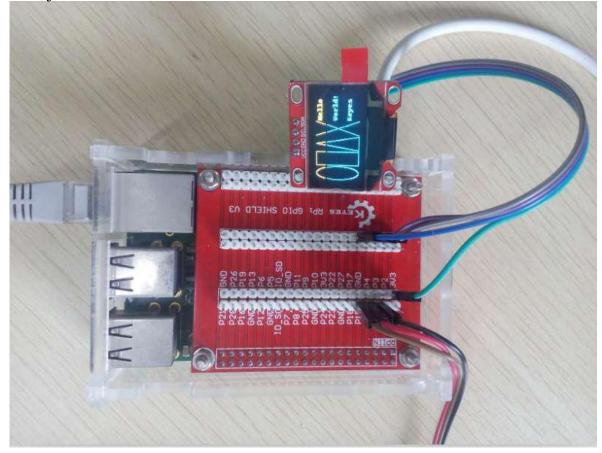
sudo python setup.py install

2 Project process:

3 Project source code

```
pi@raspberrypi: ~/keyes_實致核與鹃頭鎮x增濓楠欢鑒動枡/OLED_IIC
import time
import Adafruit GPIO.SPI as SPI
import Adafruit SSD1306
import Image
import ImageDraw
import ImageFont
# Raspberry Pi pin configuration:
RST = 24
# Note the following are only used with SPI:
DC = 23
SPI PORT = 0
SPI DEVICE = 0
# Beaglebone Black pin configuration:
# RST = 'P9 12'
# Note the following are only used with SPI:
# DC = 'P9_15'
# SPI_PORT = 1
# SPI DEVICE = 0
# 128x32 display with hardware I2C:
disp = Adafruit SSD1306.SSD1306 128 32(rst=RST)
                                                                   46,1
```

4 Project circuit connection



rasph	errypi	~/keyes_	树莓派高	级儿	反套件资料/C +B Plus		IIC \$ g	pio readal	l 	
BCM	wPi	Name	Mode	V	Physical		Mode	Name	wPi	BCM
+	+		 	+	+++	+	+	·		++
	Ï	3.3v	1		1 1 1 2	Î I		5v		1 1
2	8 1	SDA.1	ALT0	1 1	3 11 4	1	1	5V		1 1
3	9	SCL.1	ALT0	1 1	1 5 11 6	1	1	0v		1
4	7	GPIO. 7	IN	11	1 7 11 8	1	ALT0	TxD	15	14
	1	0ν	1	1	9 10	1	ALTO	RXD	16	15
17	0 1	GPIO. 0	IN	1 0	11 12	1 0	IN	GPIO. 1	1	18
27	2	GPIO. 2	IN	1 0	13 14	1	I	0v		1 1
22	3	GPIO. 3	IN	0	15 16	0 1	IN	GPIO. 4	4	23
	Î	3.3v	1		17 18	1	OUT	GPIO. 5	5	24
10	12	MOSI	ALT0	10	19 20	1	1.	0v		1 1
9	13	MISO	ALT0	1 0	21 22	1 0	IN	GPIO. 6	1 6	25
11	14	SCLK	ALT0	0	23 24	1 1	ALTO	CEO	1 10	8
	1	0 v	1		25 26	1	ALT0	CE1	11	7 1
0	30	SDA.0	IN	1	27 28	1	IN	SCL.0	31	1
5	21	GPIO.21	IN	11	1 29 30	1	I	0v		1 1
6	22	GPIO.22	IN	1	31 32	1 0	IN	GPIO.26	26	12
13	23	GPI0.23	IN	1 0	33 34	1		V0		1 1
19	24	GPIO.24	IN	1 0	35 36	1 0	IN	GPIO.27	27	16
26	25	GPIO.25	IN	1 0	37 38	1 0	IN	GPIO.28	28	1 20
	!	0v	[39 40	1 0	IN	GPIO.29	29	21
BCM	wPi	Name	Mode	V	Physical	I V	Mode	Name	wPi	BCM

Connec	ction diagram	
	VCC3.3V	
	GNDGND	
	SCLSCL	
	SDASDA	
~		
~		
~		