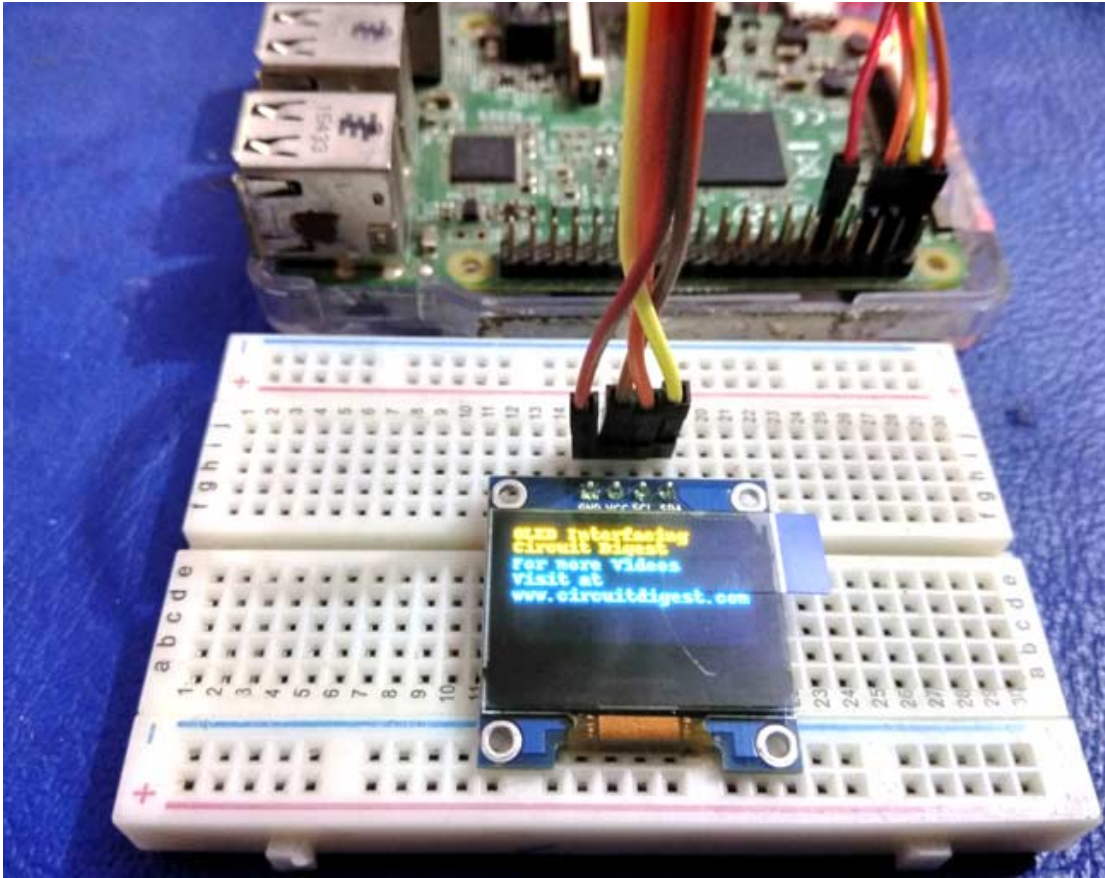


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# Interfacing SSD1306 OLED Display with Raspberry Pi (/microcontroller-projects/ssd1306-oled-display-with-raspberry-pi)

By (page\_author.html)Saddam (/users/saddam) © Apr 13, 2018

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Interfacing OLED Display with Raspberry Pi

Most of us would be familiar with the 16x2 Dot matrix LCD display (<https://circuitdigest.com/article/16x2-lcd-display-module-pinout-datasheet>) that is used in most of the projects to display some information to the user. But these LCD displays have a lot of limitations. In this tutorial, we are going to learn about **OLED display and how to use them with Raspberry Pi**. There are lots of types of OLED displays available in the market and there are lots of ways to get them working. We have already used 7 Pin OLED with Arduino (<https://circuitdigest.com/microcontroller-projects/arduino-ssd1306-oled-display>).

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**Hardware Required:** (<https://circuitdigest.com/cookie-policy>) and [privacy policy](http://circuitdigest.com/privacy-policy). (<http://circuitdigest.com/privacy-policy>).

- 128x64 OLED display Module (SSD1306)

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- Raspberry Pi
- Breadboard
- Connecting Wires
- Power supply

## Getting to know about OLED Displays:

The term OLED stands for “*Organic Light emitting diode*” it uses the same technology that is used in most of our televisions but has fewer pixels compared to them. It is real fun to have these cool looking display modules to be interfaced with the Raspberry Pi since it will make our projects look cool. We have covered a full Article on OLED displays and its types here (<https://circuitdigest.com/article/ssd1306-oled-display>). Here, we are using a **Monochrome 4-pin SSD1306 0.96” OLED display**. This LCD can only work with the I2C mode.



Below are the connections of OLED with Raspberry pi:

OLED Pin	RPI Pin
VCC	3.3v
GND	GND
SDA	SDA (Physical pin 3)
SCL	SCL (Physical pin 5)

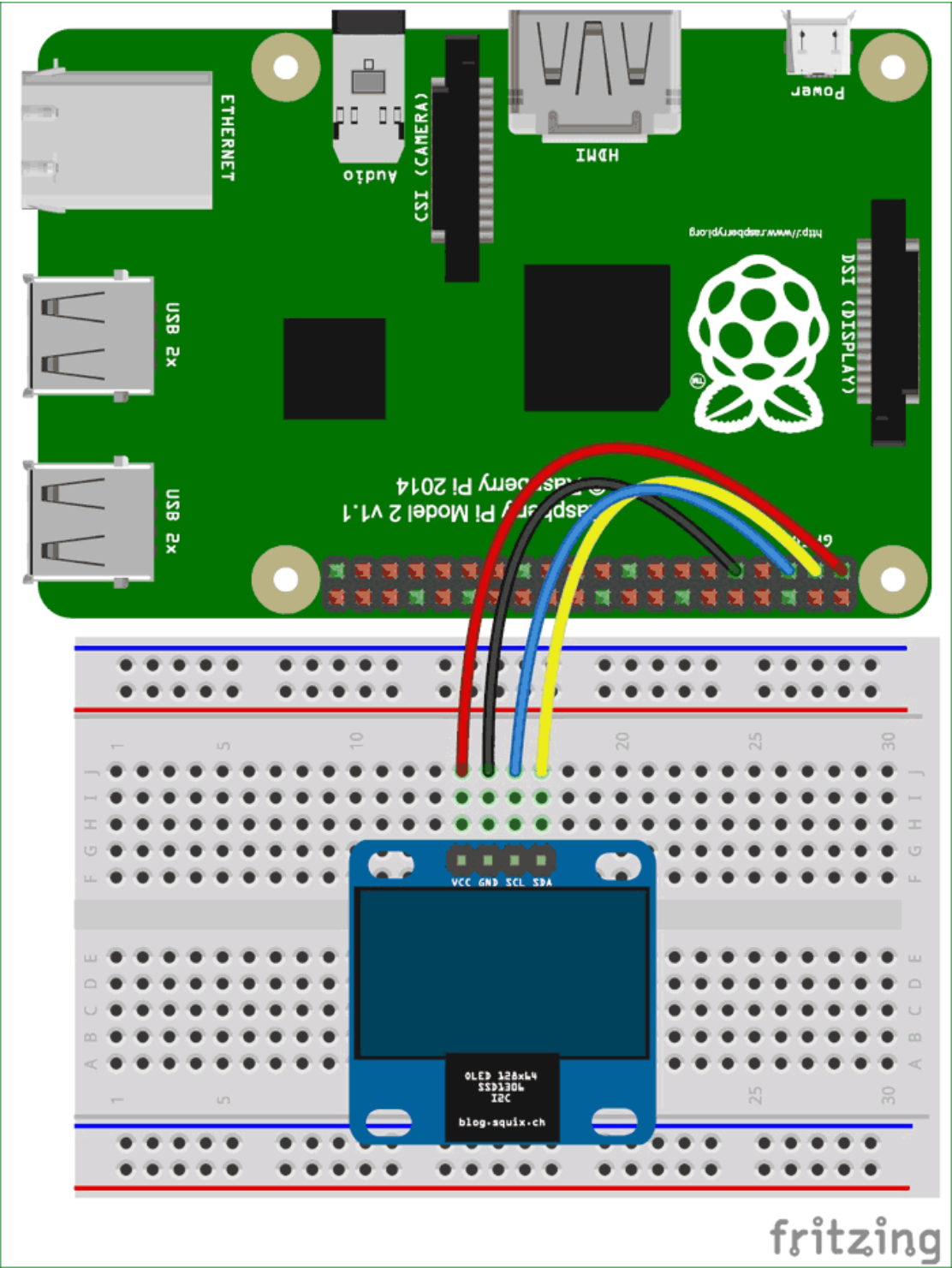
## Circuit Diagram:

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(/fullimage?

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## Connecting OLED with Raspberry Pi:

RPI community has already given us a lot of Libraries which can be directly used to make this a lot simpler. I tried out a few libraries and found that the Adafruit SSD1306 OLED library ([https://github.com/adafruit/Adafruit\\_SSD1306](https://github.com/adafruit/Adafruit_SSD1306)) was very easy to use and has a handful of graphical options hence we will use the same in this tutorial. (<https://circuitdigest.com/cookie-policy>) and (<http://circuitdigest.com/privacy-policy>).

### Step 1: Enable I2C communication

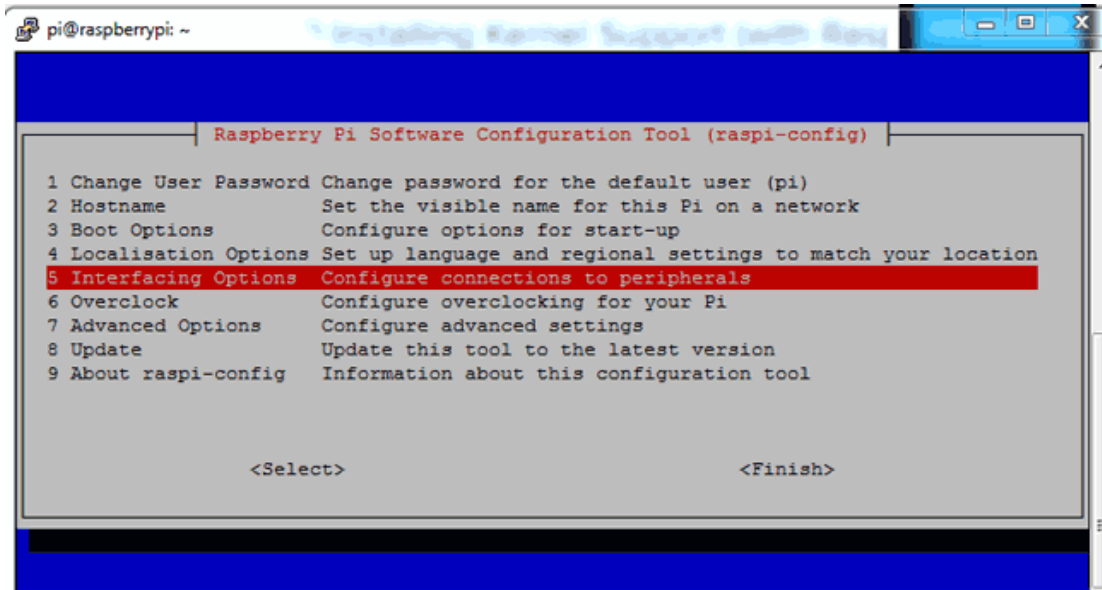
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Before installing Adafruit SSD1306 library we need to **enable I2C communication** in Raspberry Pi.

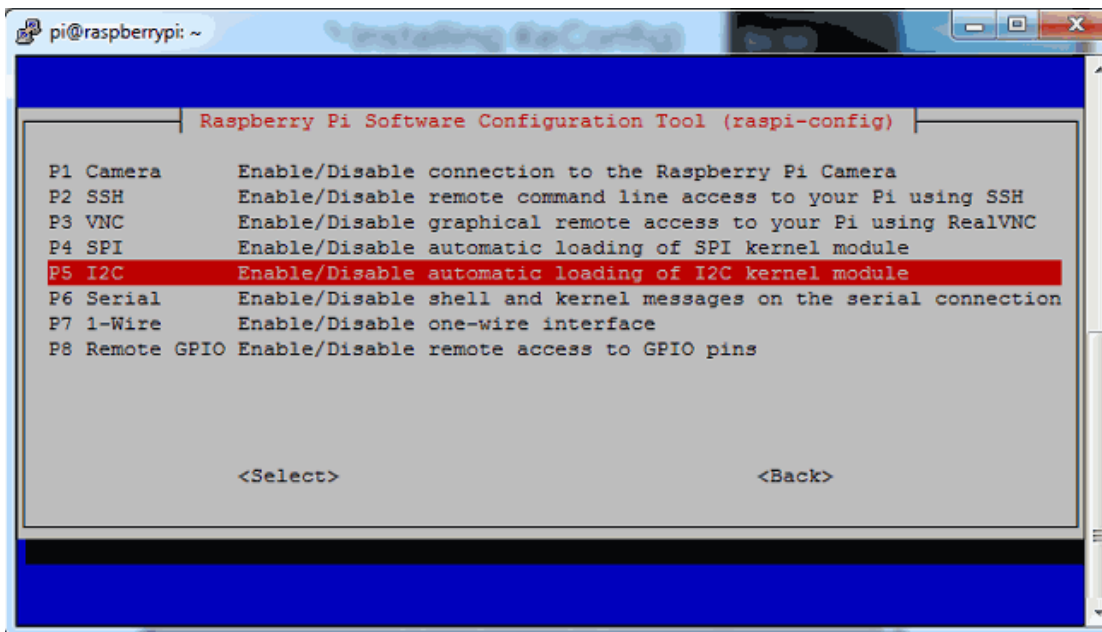
To do this type in Raspberry Pi console:

```
sudo raspi-config
```

And then a blue screen will appear. Now select interface option



After this, we need to need to select I2C



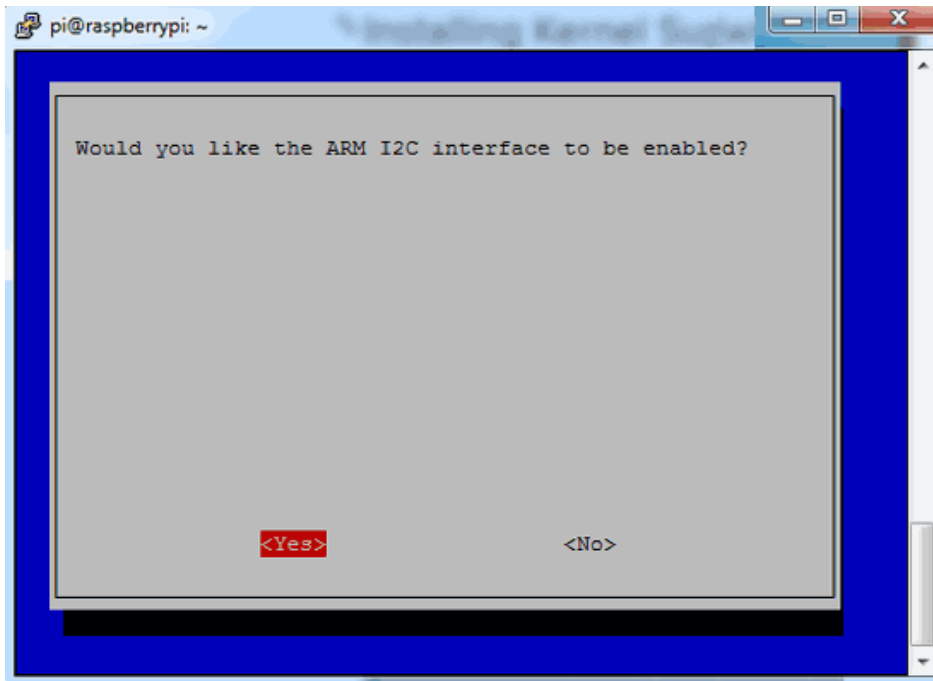
After this, we need to select yes and press enter and then ok

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After this, we need to **reboot raspberry pi** by issuing below command:

```
sudo reboot
```

## Step 2: Find OLED I2C address and update it

Then we need to find OLED I2C address by using given command and you will see a hex address.

```
sudo i2cdetect -y 1
```

```
pi@raspberrypi:~$ sudo i2cdetect -y 1
 0  1  2  3  4  5  6  7  8  9  a  b  c  d  e  f
00: -- -- -- -- -- -- -- -- -- -- -- -- -- --
10: -- -- -- -- -- -- -- -- -- -- -- -- -- --
20: -- -- -- -- -- -- -- -- -- -- -- -- -- --
30: -- -- -- -- -- -- -- -- 3c -- -- -- -- --
40: -- -- -- -- -- -- -- -- -- -- -- -- -- --
50: -- -- -- -- -- -- -- -- -- -- -- -- -- --
60: -- -- -- -- -- -- -- -- -- -- -- -- -- --
70: -- -- -- -- -- -- -- -- -- -- -- -- -- --
pi@raspberrypi:~$
```

Then update Raspberry Pi using given command:

```
sudo apt-get update
```

## Step 3: Install python-pip and GPIO Library

After this we need to install **pip** by using given command. This website uses cookies to improve your user experience. By using the website you are giving your consent to set cookies. For more information, read our [cookie policy](https://circuitdigest.com/cookie-policy).

```
sudo apt-get install build-essential python-dev python-pip
```

And install Raspberry Pi GPIO library

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```
sudo pip installs RPi.GPIO
```

#### Step 4: Install the *Python Imaging Library* and *smbus* library

Finally, we need to install the *Python Imaging Library* and *smbus* library in Raspberry Pi by using given command:

```
sudo apt-get install python-imaging python-smbus
```

```
pi@raspberrypi:~$ sudo apt-get install python-imaging python-smbus
W: Failed to fetch http://apt.pm-codeworks.de/dists/jessie/InRelease
W: Some index files failed to download. They have been ignored, or old ones used instead.
pi@raspberrypi:~$ sudo apt-get install build-essential python-dev python-pip
Reading package lists... Done
Building dependency tree
Reading state information... Done
build-essential is already the newest version.
python-dev is already the newest version.
python-pip is already the newest version.
0 upgraded, 0 newly installed, 0 to remove and 44 not upgraded.
pi@raspberrypi:~$ sudo pip install RPi.GPIO
Requirement already satisfied (use --upgrade to upgrade): RPi.GPIO in /usr/lib/python2.7/dist-packages
Cleaning up...
pi@raspberrypi:~$ sudo apt-get install python-imaging python-smbus
Reading package lists... Done
Building dependency tree
Reading state information... Done
python-imaging is already the newest version.
Suggested packages:
  libi2c-dev
The following NEW packages will be installed:
  i2c-tools python-smbus
0 upgraded, 2 newly installed, 0 to remove and 44 not upgraded.
Need to get 60.8 kB of archives.
After this operation, 286 kB of additional disk space will be used.
Get:1 http://archive.raspberrypi.org/debian/ jessie/main i2c-tools armhf 3.1.1+svn-2 [51.3 kB]
Get:2 http://archive.raspberrypi.org/debian/ jessie/main python-smbus armhf 3.1.1+svn-2 [9,462 B]
Fetched 60.8 kB in 2s (28.8 kB/s)
Selecting previously unselected package i2c-tools.
(Reading database ... 133551 files and directories currently installed.)
Preparing to unpack .../i2c-tools_3.1.1+svn-2_armhf.deb ...
Unpacking i2c-tools (3.1.1+svn-2) ...
```

#### Step 5: install the Adafruit SSD1306 python library

Now its time to install the Adafruit SSD1306 python library code and examples by using given commands:

```
sudo apt-get install git
git clone https://github.com/adafruit/Adafruit_Python_SSD1306.git (https://github.com/adafruit/Adafruit_
cd Adafruit_Python_SSD1306
sudo python setup.py install
```

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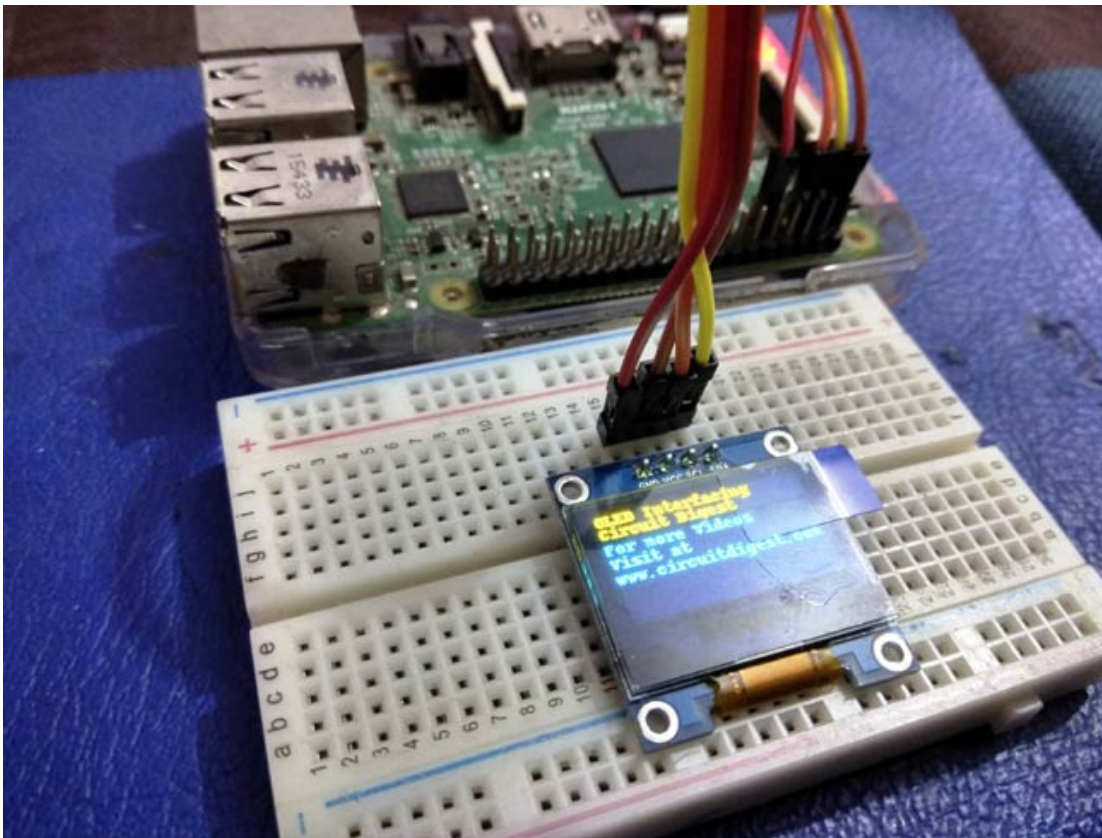


```

pi@raspberrypi: ~/Adafruit_Python_SSD1306
Resolving deltas: 100% (57/57), done.
Checking connectivity... done.
pi@raspberrypi:~ $ cd Adafruit_Python_SSD1306
pi@raspberrypi:~/Adafruit_Python_SSD1306 $ sudo python setup.py install
running install
running bdist_egg
running egg_info
creating Adafruit_SSD1306.egg-info
writing requirements to Adafruit_SSD1306.egg-info/requirements.txt
writing Adafruit_SSD1306.egg-info/PKG-INFO
writing top-level names to Adafruit_SSD1306.egg-info/top_level.txt
writing dependency links to Adafruit_SSD1306.egg-info/dependency_links.txt
writing manifest file 'Adafruit_SSD1306.egg-info/SOURCES.txt'
reading manifest file 'Adafruit_SSD1306.egg-info/SOURCES.txt'
writing manifest file 'Adafruit_SSD1306.egg-info/SOURCES.txt'
installing library code to build/bdist.linux-armv7l/egg
running install_lib
running build_py
creating build
creating build/lib.linux-armv7l-2.7
creating build/lib.linux-armv7l-2.7/Adafruit_SSD1306
copying Adafruit_SSD1306/SSD1306.py -> build/lib.linux-armv7l-2.7/Adafruit_SSD1306

```

Now user can find the code of **OLED interfacing in Raspberry Pi** and you can play directly or customize it yourself. Here we have customized a example code for demonstration. You can find **full Python code** at the end of the article.



## Programming Explanation:

Programming part for **interfacing OLED with RPi project** is easy, first we need to import some necessary libraries.

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```
import time
import Adafruit_GPIO.SPI as SPI
import Adafruit_SSD1306
from PIL import Image
from PIL import ImageDraw
from PIL import ImageFont
import subprocess
```

After this **initialize the display**

```
RST = 0

disp = Adafruit_SSD1306.SSD1306_128_64(rst=RST)
disp.begin()
disp.clear()
disp.display()

width = disp.width
height = disp.height

image1 = Image.new('1', (width, height))

draw = ImageDraw.Draw(image1)
draw.rectangle((0,0,width,height), outline=0, fill=0)

padding = -2
top = padding

bottom = height-padding
x = 0
font = ImageFont.load_default()
```

After this, we can **send data or image to OLED** by using given code

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```
# Write two lines of text.

disp.clear()
disp.display()
draw.text((x, top),      "OLED Interfacing " , font=font, fill=255)
draw.text((x, top+8),    "Circuit Digest", font=font, fill=255)
draw.text((x, top+16),   "For more Videos", font=font, fill=255)
draw.text((x, top+25),   "Visit at", font=font, fill=255)
draw.text((x, top+34),   "www.circuitdigest.com", font=font, fill=255)

# Display image.
disp.image(image1)
disp.display()
time.sleep(2)

if disp.height == 64:
    image = Image.open('img1.png').convert('1')
else:
    image = Image.open('img1.png').convert('1')

disp.image(image)
disp.display()
time.sleep(2)

if disp.height == 64:
    image = Image.open('img3.jpg').convert('1')
else:
    image = Image.open('img3.jpg').convert('1')
```

This **OLED comes in two variants** one is 128\*32 and other is 128\*64 so the user can select anyone accordingly while initializing OLED. Here we have written this code for both. The user needs to only initialize OLED for 128\*64 pixel like:


```
disp = Adafruit_SSD1306.SSD1306_128_64(rst=RST)
```

All the code and functions are easy to understand and no further explanation is needed. Just start and try playing with height, width & images and try some other functions to create some more cool geometric figures.

**Full python code and Demonstration Video** is given below and here you find the images which we have used (sites/default/files/OLED-Raspberry-Pi-interfacing-pics.zip) in this program.


Also check OLED Interfacing with Arduino (<https://circuitdigest.com/microcontroller-projects/arduino-ssd1306-oled-display>).

## Code



```
import time
import Adafruit_GPIO.SPI as SPI
import Adafruit_SSD1306
from PIL import Image

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```

- 

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```

from PIL import ImageDraw
from PIL import ImageFont
import subprocess

RST = 0

disp = Adafruit_SSD1306.SSD1306_128_64(rst=RST)
disp.begin()
disp.clear()
disp.display()

width = disp.width
height = disp.height
image1 = Image.new('1', (width, height))
draw = ImageDraw.Draw(image1)
draw.rectangle((0,0,width,height), outline=0, fill=0)

padding = -2
top = padding
bottom = height-padding
x = 0
font = ImageFont.load_default()

while True:
    draw.rectangle((0,0,width,height), outline=0, fill=0)

    # Write two lines of text.
    disp.clear()
    disp.display()
    draw.text((x, top), "OLED Interfacing ", font=font, fill=255)
    draw.text((x, top+8), "Circuit Digest", font=font, fill=255)
    draw.text((x, top+16), "For more Videos", font=font, fill=255)
    draw.text((x, top+25), "Visit at", font=font, fill=255)
    draw.text((x, top+34), "www.circuitdigest.com (http://www.circuitdigest.com)", font=font, fill=255)

    # Display image.
    disp.image(image1)
    disp.display()
    time.sleep(2)

    if disp.height == 64:
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        image = Image.open('img1.png').convert('1')
    else:
        image = Image.open('img1.png').convert('1')

```

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```
disp.image(image)
disp.display()
time.sleep(2)

if disp.height == 64:
    image = Image.open('img3.jpg').convert('1')
else:
    image = Image.open('img3.jpg').convert('1')

disp.image(image)
disp.display()
time.sleep(2)

if disp.height == 64:
    image = Image.open('img4.jpg').convert('1')
else:
    image = Image.open('img4.jpg').convert('1')

disp.image(image)
disp.display()
time.sleep(2)
```

## Video

### SSD1306 OLED Interfacing wiht Raspberry Pi



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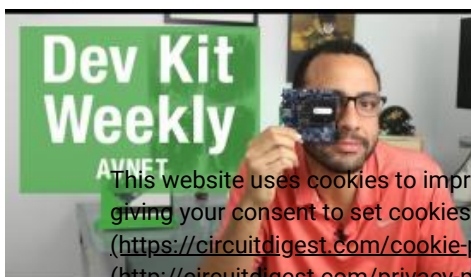
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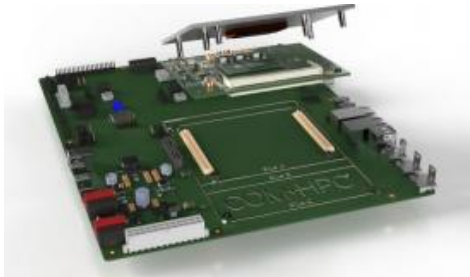
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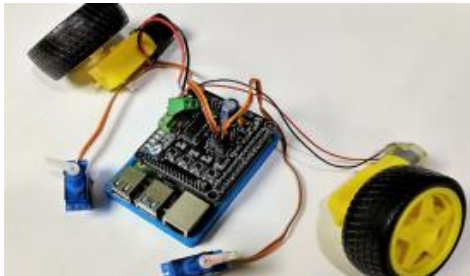




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