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## TUTORIALS

### **SENSORS/ACTUATORS**

**HIGH-QUALITY PCB**

**ONLY \$5** FOR 10 PIECES

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**ABOUT US**

- Rogers, HDI, aluminum and rigid-flex PCB are available now
- Production time 24 hours

Arduino - Software  
Ads by ArduinoGetStarted.com

Arduino - Hard

Arduino - Hello World

### **Arduino - OLED**

Arduino - Serial Monitor

Arduino - Serial Plotter

Arduino - LED - Blink



Arduino - LED - Blink Without Delay

Arduino - Blink multiple LED

Arduino - LED - Fade

Arduino - RGB LED

Arduino - Traffic Light

Arduino - Button

Arduino - Button - Debounce

The **OLED** (Organic Light-Emitting Diode) display is an alternative to LCD display. The OLED is super-light, almost paper-thin, flexible, and produce a brighter and crisper p

Arduino - Multiple Button

Arduino - Switch

In this tutorial, we are going to learn:

Arduino - Limit Switch

◊— How to use OLED display with Arduino.

Arduino - DIP Switch

◊— How to display text, number on OLED using Arduino

Arduino - Button - LED

◊— How to vertical and horizontal center align text, number on OLED

Arduino - Button - Relay

◊— How to draw on OLED using Arduino

Arduino - Button Toggle LED

◊— How to display image on OLED using Arduino

Arduino - Button Toggle Relay

Arduino - Button - Piezo Buzzer

Arduino - Button - Servo Motor

Arduino - Potentiometer

Arduino - Potentiometer fade LED

Arduino - Potentiometer Triggers LED

Arduino - Potentiometer Triggers Relay

Arduino - Potentiometer Triggers Piezo Buzzer

Arduino - Potentiometer Triggers Servo Motor

Arduino - Rotary Encoder

Arduino - Rotary Encoder LED

Arduino - Rotary Encoder - Servo Motor

Arduino - Piezo Buzzer

Arduino - Buzzer

**PCB ASSEMBLY**

See shipping + Free stencil

**ONLY \$30**

- Component sourcing
- Quality assurance

for LCD display. The OLED is super-light, almost paper-thin, flexible, and produce a brighter and crisper picture than LCD display. The OLED is super-light, almost paper-thin, flexible, and produce a brighter and crisper picture than LCD display.


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[Arduino \(Recommended\) Breadboard Shield For Arduino Uno](#)
[Arduino \(Recommended\) Enclosure For Arduino Uno](#)
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Or you can buy the following sensor kits:

[1 x DIYables Sensor Kit \(30 sensors/displays\)](#)
[Arduino - RGB LED](#)
[1 x DIYables Sensor Kit \(18 sensors/displays\)](#)
[Arduino - Traffic Light](#)

*Please note: These are Amazon affiliate links. If you buy the components through these links, we will get a commission at no extra cost to you. We appreciate it.*

[Arduino - Button - Debounce](#)
[Arduino - Button - Long Press Short Press](#)

[Arduino - Switch](#)
[Arduino - Limit Switch](#)
[Arduino - DIP Switch](#)

## About OLED Display

[Arduino Buttons](#)

There are many types of OLED display. They differ from each other in communication interface, sizes and colors.

[Arduino - Button Toggle Relay](#)
[Arduino - Button Piezo Buzzer](#)
[Arduino - Size: 128x64, 128x32](#)
[Arduino - Color: white, blue, dual color...](#)
[Arduino - Potentiometer](#)
[Arduino - Potentiometer fade LED](#)
[Arduino - Potentiometer Triggers LED](#)
[Arduino - Potentiometer Triggers a Relay](#)
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[Arduino - Button - Debounce](#)

### I2C OLED Display Pinout

[Arduino multiple Button](#)

◊— **GND pin:** should be connected to t

[Arduino - Switch](#)

◊— **VCC pin:** is the power supply for th

[Arduino - Limit.Switch](#)

◊— **SCL pin:** is a serial clock pin for I2C

◊— **SDA pin:** Is a serial data pin for I2C

[Arduino - Button - LED](#)
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[Arduino - Piezo Buzzer](#)

~~NOTE THAT:~~

◊— The order of the OLED module's pins can vary between manufac

ters and module types. ALWAYS use the labels

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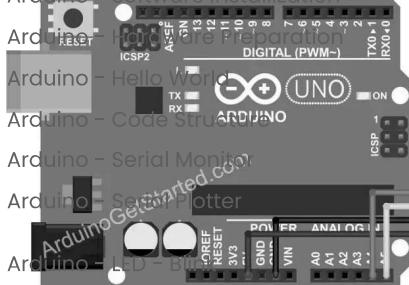
on the Arduino.




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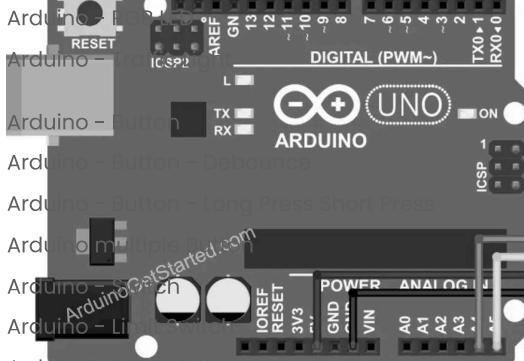
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[Arduino - LED - Blink Without Delay](#)

This image is created using Fritzing. Click to enlarge image

[Arduino - Blink multiple LED](#)

The wiring diagram between Arduino and OLED 128x32

[Arduino - LED - Fade](#)

[Arduino - DIP Switch](#)

This image is created using Fritzing. Click to enlarge image

[Arduino - Button - LED](#)

The regl wiring diagram between Arduino and OLED 128x64

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- [Arduino - Button - LED](#)

This image is generated using Fritzing. Click to enlarge image

[Arduino Button Toggle Relay](#)

If you use other Arduino other than Uno, the pins are different. Re

below table for other Arduino

- [Arduino - Button - Piezo Buzzer](#)
- [Arduino - Button - Servo Motor](#)

- [Arduino - Potentiometer](#)
- [Arduino - Potentiometer fade LED](#)
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**OLED Module**

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[Arduino - LED - Fade](#)
[Arduino - RGB LED](#)

### How To Use OLED with Arduino

[Arduino - Button](#)

### Install SSD1306 OLED library

→ Navigate to the **Libraries** icon on the left bar of the Arduino IDE.

→ Search “**SSD1306**” then find the SSD1306 library by Adafruit

→ Click **Install** button to install the library.

[Arduino - Limit Switch](#)
[Arduino - DIP Switch](#)
[Arduino - Button - TFD](#)
[Arduino - Button - Relay](#)
[Arduino - Button - Toggle LED](#)
[Type: All](#)
[Arduino - Button Toggle Relay](#)
[Arduino - Button - Piezo Buzzer](#)
[Adafruit SSD1306 by Adafruit](#)
[Arduino - Button - Servo Motor](#)

SSD1306 oled driver library for monochrome 128x64 and 128x32 displays SSD1306 oled driver library for monochrome 128x64 and 128x32 displays

[More Info](#)
[Arduino - Potentiometer](#)
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[Arduino - Potentiometer Triggers Relay](#)
[Arduino - Potentiometer Triggers Piezo Buzzer](#)

→ You will be asked for installing some other library dependencies

→ Click **Install All** button to install all library dependencies.

[Arduino - Rotary Encoder](#)
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<https://ArduinoGetStarted.com>

Output Serial Monitor

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## Arduino Code - Display Text on OLED

[Arduino - LED - Fade](#)

```
1  /*
2  * Created by ArduinoGetStarted.com
3  */
```

[Arduino - Traffic Light](#)

```
4  * This example code is in the public domain
```

[Arduino - Button](#)

```
5  * Tutorial page: https://arduinogetstarted.com/tutorials/arduino-oled
```

[Arduino - Button - Debounce](#)
[Arduino - Button - Long Press Short Press](#)

```
9  #include <Wire.h>
```

[Arduino - Multiple Button](#)

```
10 #include <Adafruit_GFX.h>
```

[Arduino - Switch](#)

```
12
```

[Arduino - Limit Switch](#)

```
13 #define SCREEN_WIDTH 128 // OLED display width, in pixels
```

[Arduino - DIP Screen](#)

```
15
```

[Arduino - Button - LED](#)

```
16 // declare an SSD1306 display object connected to I2C
```

```
17 Adafruit_SSD1306 oled(SCREEN_WIDTH, SCREEN_HEIGHT, &Wire, -1);
```

[Arduino - Button Toggle LED](#)

```
18 void setup() {
```

[Arduino - Button Toggle Relay](#)

```
21
```

[Arduino - Button - Piezo Buzzer](#)

```
22 // initialize OLED display with address 0x3C for 128x64
```

```
23 Adafruit_SSD1306 oled(SCREEN_WIDTH, SCREEN_HEIGHT, &Wire, 0x3C);
```

```
24 Serial.println(F("SSD1306 allocation failed"));
```

[Arduino - Potentiometer](#)

```
25
```

[Arduino - Potentiometer fade LED](#)

```
27
```

[Arduino - Potentiometer Triggers LED](#)

```
28 // for initializing
```

[Arduino - Potentiometer Triggers Relay](#)
[Arduino - Potentiometer Triggers Piezo Buzzer](#)

The below are some functions that you can use to display text or

[Arduino - Potentiometer Triggers Servo Motor](#)

```
29 oled.clearDisplay(): all pixels are off
```

[oled.pixel\(x, y, color\): plot a pixel in the xy coordinates](#)
[oled.setTextSize\(size\): set the font size, supports sizes from 1 to 8](#)
[oled.setTextCursor\(x, y\): set the coordinates to start writing text](#)

```
30 oled.setTextColor(color): set the text color
```

[oled.setTextColor\(BLACK, WHITE\): set the text color, background](#)
[oled.print\("message"\): print the characters](#)

```
31 oled.println(number): print a number
```

OLED:



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◀— `oled.startscrolldiagleft(start, stop)`: scroll text from right bottom corner to left upper corner  
 ▶— `oled.stopscroll()`: stop scrolling

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Arduino - LED - Blink

Arduino - LED - Blink Without Delay

Arduino - Blink multiple LED

Arduino - LED - Fade

Arduino - RGB LED

Arduino - Traffic Light

Arduino - Button

Arduino - Button - Debounce

Arduino - Button - Long Press Short Press

**How to vertical and horizontal center align text and number on OLED**

Arduino multiple Button

Arduino - Switch

See How to vertical/horizontal center on OLED

Arduino - Limit Switch

Arduino - DIP Switch

Arduino - Button - LED

**Arduino Code - Drawing on OLED**

Arduino - Button - Relay

Arduino - Button Toggle LED

2 \* Created by ArduinoGetStarted.com

3 \*

Arduino - Button - Piezo Buzzer in the public domain

5 \* Arduino - Button - Servo Motor

6 \* Tutorial page: <https://arduinogetstarted.com/tutorials/arduino-oled>

7 \*/

Arduino - Potentiometer

9 \* Arduino - Potentiometer fade LED

10 #include &lt;Adafruit\_GFX.h&gt;

Arduino - Potentiometer Triggers LED

11 #include &lt;Adafruit\_SSD1306.h&gt;

Arduino - Potentiometer Triggers Relay

13 #define SCREEN\_WIDTH 128 // OLED display width, in pixels

Arduino - Potentiometer Triggers Piezo Buzzer

14 #define SCREEN\_HEIGHT 64 // OLED display height, in pixels

Arduino - Potentiometer Triggers Servo Motor

16 // declare an SSD1306 display object connected to I2C

17 Adafruit\_SSD1306 oled(SCREEN\_WIDTH, SCREEN\_HEIGHT, &amp;Wire, -1);

18

Arduino - Rotary Encoder LED

19 void setup() {

20 Serial.begin(9600); Servo Motor

21

22 // initialize OLED display with address 0x3C for 128x64

23 if (!oled.begin(SSD1306\_SWITCHCAPVCC, 0x3C)) {

Arduino - Buzzer.println(F("SSD1306 allocation failed"));

25 while (true);

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## Arduino Code – Display Image

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[Arduino - Potentiometer Triggers LED](#)
[Arduino - Potentiometer Triggers Relay](#)

To draw image on OLED we have to convert the image (any for Arduino - Potentiometer Triggers Piezo Buzzer)

can be done by using this online tool. Please see how to convert Arduino - Potentiometer Triggers Servo Motor

converted the Arduino icon to bitmap array.

[Arduino - Rotary Encoder](#)
[Arduino - Rotary Encoder LED](#)
[Arduino - Rotary Encoder - Servo Motor](#)
[Arduino - Piezo Buzzer](#)
[Arduino - Buzzer](#)

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) to the bitmap array first. The conversion image to bitmap array on the below image. I



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Choose File: arduin-o-icon.jpg

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Arduino - Hello World

**2. Image Settings**

Arduino - Code Structure

Canvas size(s):

arduino-icon.jpg (file resolution: 240 x 117)  
 128 X 64 glyphs 2 px  
 White  Black  Transparent

Arduino - Serial Monitor

Background color:

128  
0 - 255; If the brightness of a pixel is above the given level the pixel becomes white. When using alpha\_opaque and transparent are used instead.

Import image color

Plotter

Brightness / alpha threshold:

Arduino - LED - Blink

Scaling:

scale to fit, keeping proportions  
 horizontally  vertically

Arduino - LED - Blink Without Delay

Center:

Arduino - Blink multiple LED

**3. Preview**

Arduino - RGB LED

Arduino - Traffic Light

**4. Output**

Arduino - Button

Code output format:

main.bytes  
 Horizontal - 1 bit per pixel

Draw mode:

Arduino - Button - Long Press Short Press

TEST

Arduino - Multiple Button

Arduino - Switch

Arduino - Limit Switch

Arduino - DIP Switch

Arduino - Button - LED

Arduino - Button - Relay

Copy this array

Arduino - Button - Toggle

Arduino - Button - Toggle Relay

Arduino - Button - Piezo Buzzer

Arduino - Button - Servo Motor

Arduino - Potentiometer

After converting, copy the array code and update the array code

Arduino - Potentiometer Fade LED

Arduino - Potentiometer Triggers LED

2 \* Created by ArduinoGetStarted.com

3 \* Arduino - Potentiometer Triggers Relay

4 \* Arduino - Potentiometer Triggers Piezo Buzzer domain

5 \* Arduino - Potentiometer Triggers Servo Motor

6 \* Tutorial page: https://arduinogetstarted.com/tutorials/arduino-potentiometer-triggers

7 \*/

Arduino - Rotary Encoder

8 #include &lt;Adafruit\_GFX.h&gt;

9 #include &lt;Adafruit\_SSD1306.h&gt;

10 #include &lt;Adafruit\_GFX.h&gt;

11 #include &lt;Adafruit\_SSD1306.h&gt;

12 #include &lt;Adafruit\_GFX.h&gt;

13 #define SCREEN\_WIDTH 128 // OLED display width, in pixels

14 #define SCREEN\_HEIGHT 64 // OLED display height, in pixels

15 #include &lt;Adafruit\_SSD1306.h&gt;

16 // Declares an SSD1306 display object connected to T2C

vise they

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128 X 64 px

 Read as horizontal  Read as vertical**ABOUT US**



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```

24  0xff, 0xff, 0xfe, 0x00, 0x07, 0xff, 0xff, 0xff,
25  0xff, 0xff, 0xe0, 0x00, 0x00, 0xff, 0xff, 0xff,
SENSORS/ACTUATORS: 0x80, 0x00, 0x00, 0x1f, 0xff, 0xff, 0xff,
27  0xff, 0xe0, 0x00, 0x00, 0x07, 0xff, 0xff, 0xff,
28  ^--> 0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00

```

Arduino - Software Installation

Arduino - Hardware Preparation

~~NOTE THAT:~~

Arduino - Hello World

The image size should be smaller than or equal to screen size.

If you want to adapt the above code for OLED 128x32, you need to rescale image and change width/ height

Arduino - Serial Monitor

oled.drawBitmap(); function

Arduino - Serial Plotter

Arduino - LED - Blink

Arduino - LED - Blink Without Delay

Arduino - Blink multiple LED

If OLED does not display any thing, please do the following check

Make sure that your wiring is correct.

Make sure that your I2C OLED uses SSD1306 Driver.

Check the I2C address of OLED by running the below I2C Address Scanner code on Arduino

Arduino - Button

Arduino - Button Debounce

Arduino - Button - Long Press Short Press

Arduino - Multiple Button

5 {

Arduino - Switch;

6 Serial.begin(9600);

7 Serial.println("I2C Scanner");

8 Arduino - DIP Switch

9 }

Arduino - Button - LED

10 void loop()

11 Arduino - Button - Relay

12 {

13 Arduino - byButtonToggleLED;

14 int nDevices;

15 Arduino - Button Toggle Relay

16 Arduino - Button Piezo Buzzer

17 Arduino - Servo Motor

18 nDevices = 0;

19 for(address = 1; address &lt; 127; address++ )

20 Arduino - Potentiometer

21 Arduino - Potentiometer finds ID

22 error = Wire.endTransmission();

23 Arduino - Potentiometer Triggers LED

24 }

Arduino - Potentiometer Triggers Relay

25 Arduino - Potentiometer Triggers Piezo Buzzer

26 Serial.print("I2C device found at address 0x");

Arduino - Potentiometer Triggers Servo Motor

27 Serial.print("0");

28 Arduino - Rotary Encoder

Arduino - Rotary Encoder LED

The result on Serial Monitor:

Arduino - Rotary Encoder - Servo Motor

COM6 Scanning...

Arduino - Piezo Buzzer done

Arduino - Buzzer...

I2C device found at address 0x3C !

~~~~~

## HARDWARE &amp; TOOLS

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```

. 0x80, 0x01, 0xff, 0xff, 0xff,
. 0x00, 0x00, 0x3f, 0xff, 0xff,
. 0x00, 0x00, 0x07, 0xff, 0xff,
. 0x00, 0x00, 0x01, 0xff, 0xff,
. 0x00 0x00 0x00 0x00 0x00 0x00

```

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### See Also

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[Arduino Multiple LCD - 20x4](#)
[Arduino TFT LCD Display](#)
[Arduino - Button Count - OLED](#)
[Arduino - DIP Switch](#)
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[Arduino - Button Toggle Relay](#)
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