

Arduino On Ubuntu By TESR

ROS2

Download Arduino

- **Download Link:** <https://www.arduino.cc/en/software>
- **Select Linux 64 bit**

The screenshot shows the Arduino IDE 1.8.19 download page. On the left, there's a section for the IDE description and source code. On the right, under 'DOWNLOAD OPTIONS', the 'Linux 64 bits' option is highlighted with a red box. A red arrow points from this option to a 'Support the Arduino IDE' section. This section has a list of donation amounts (\$3, \$5, \$10, \$25, \$50, Other) and a 'JUST DOWNLOAD' button, which is also highlighted with a red box. Another red arrow points from the 'JUST DOWNLOAD' button to a download progress bar on the right, which shows 'arduino-1.....tar.xz' and '19.2/123 MB, 3 mins left'.

Arduino IDE 1.8.19

The open-source Arduino Software (IDE) makes it easy to write code and upload it to the board. This software can be used with any Arduino board.

Refer to the [Getting Started](#) page for Installation instructions.

SOURCE CODE

Active development of the Arduino software is [hosted by GitHub](#). See the instructions for [building the code](#). Latest release source code archives are available [here](#). The archives are PGP-signed so they can be verified using [this](#) gpg key.

DOWNLOAD OPTIONS

Windows Win 7 and newer
Windows ZIP file

Windows app Win 8.1 or 10 [Get](#)

Linux 32 bits
Linux 64 bits
Linux ARM 32 bits
Linux ARM 64 bits

Mac OS X 10.10 or newer

Support the Arduino IDE

Since the release 1.x release in March 2015, the Arduino IDE has been downloaded **63,908,912** times — impressive! Help its development with a donation.

\$3 \$5 \$10 \$25 \$50 Other

JUST DOWNLOAD **CONTRIBUTE & DOWNLOAD**

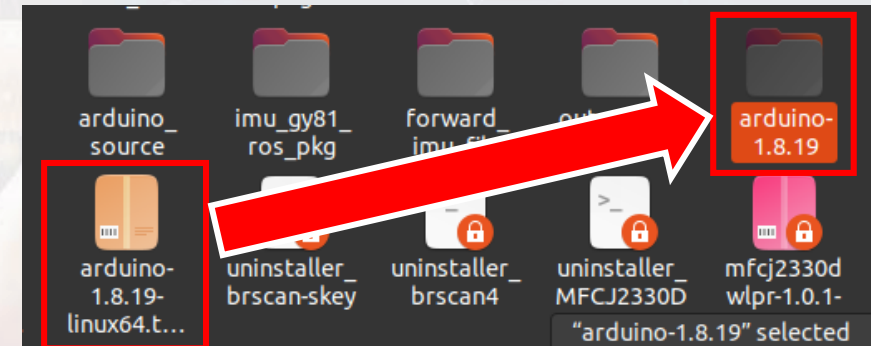
arduino-1.....tar.xz
19.2/123 MB, 3 mins left

Extract **arduino.tar.xz** using tar

- After download, open terminal and type "cd ~/Downloads"
- extract arduino-1.8.19.tar.xz using:

```
sudo tar -xvf arduino-1.8.19-linux64.tar.xz
```

```
rengy@tesr-9939:~/Downloads$ sudo tar -xvf arduino-1.8.19-linux64.tar.xz
[sudo] password for rengy:
arduino-1.8.19/
arduino-1.8.19/arduino-linux-setup.sh
arduino-1.8.19/lib/
arduino-1.8.19/lib/version.txt
arduino-1.8.19/lib/commons-io-2.6.jar
arduino-1.8.19/lib/public.gpg.key
arduino-1.8.19/lib/arduino-core.jar
arduino-1.8.19/lib/batik-svg-dom-1.8.jar
```



Install Arduino

- Install arduino after extract .tar.xz file follow step below:
 - First, change current working directory to /arduino-1.8.19

```
cd arduino-1.8.19
```

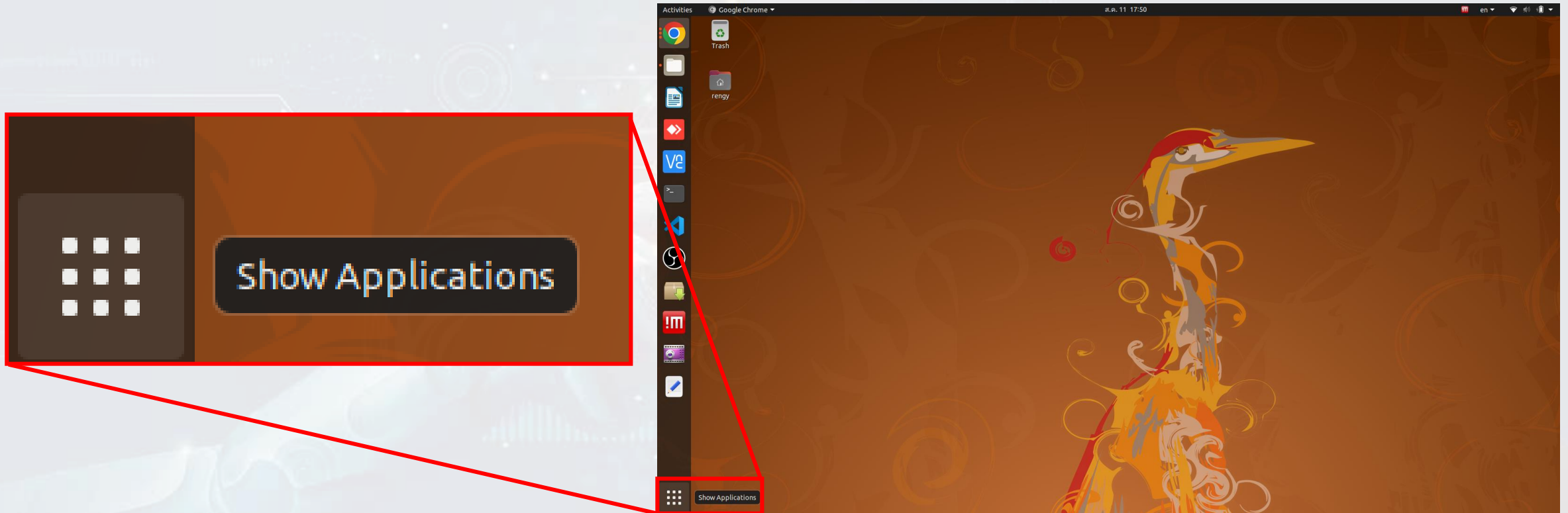
- Second, use this command to install Arduino and wait until finish.

```
. install.sh
```

```
rengy@tesr-9939:~$ cd Downloads/  
rengy@tesr-9939:~/Downloads$ cd arduino-1.8.19/  
rengy@tesr-9939:~/Downloads/arduino-1.8.19$ ls  
arduino          examples        java            revisions.txt   uninstall.sh  
arduino-builder  hardware       lib            tools  
arduino-linux-setup.sh  install.sh    libraries     tools-builder  
rengy@tesr-9939:~/Downloads/arduino-1.8.19$ . install.sh
```

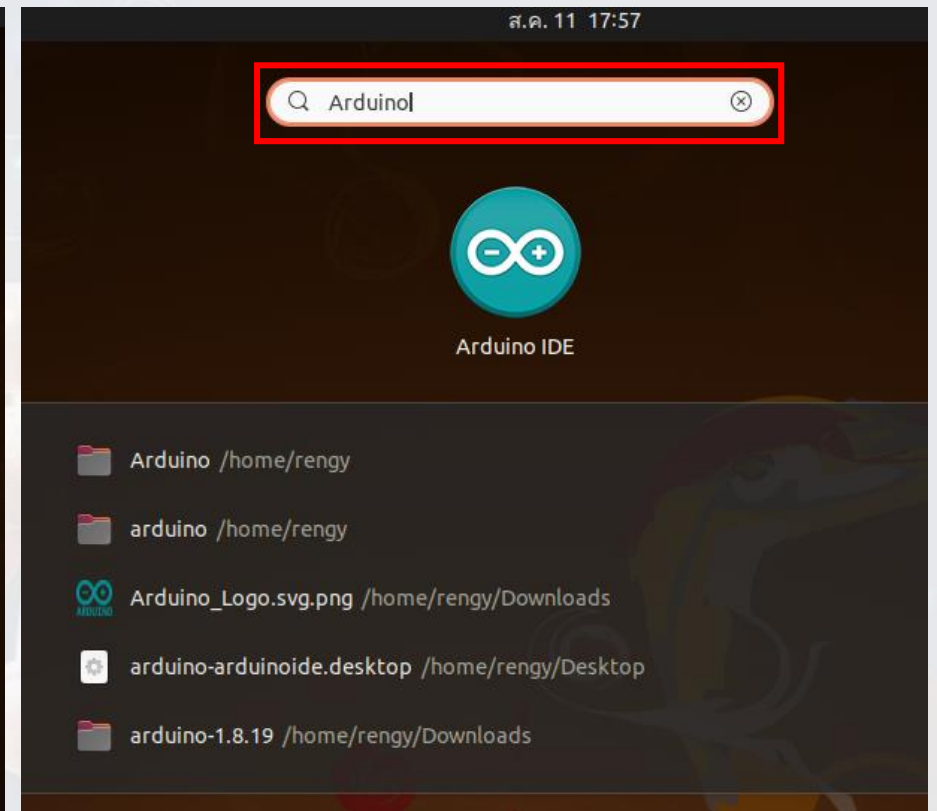
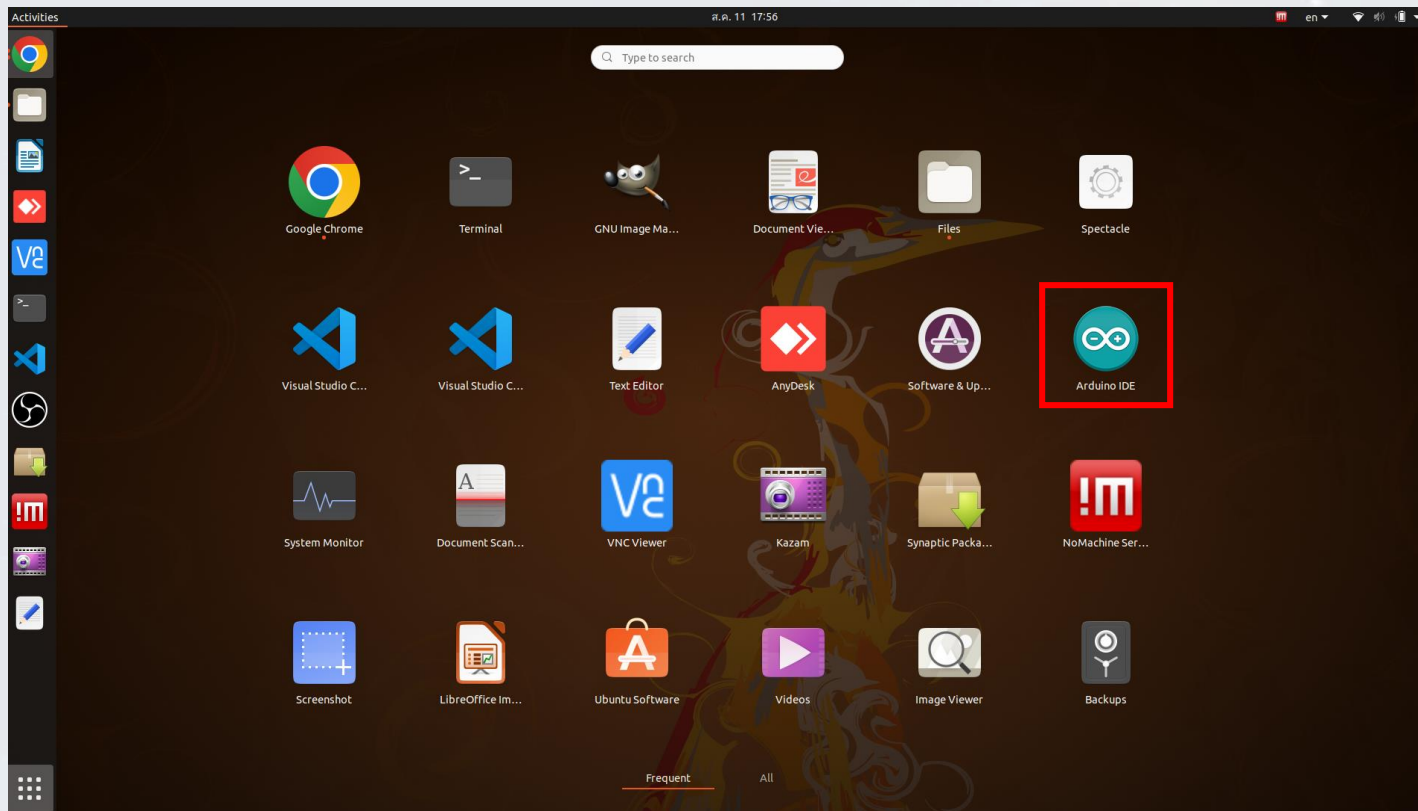
Open Arduino

- After install, you can find Arduino by click "Show Applications"



Open Arduino

- You can find **Arduino** on Application screen or find in search box "**Arduino**"



Open Arduino

- Open Arduino IDE and then, connect USB wire to PC/Laptop. Then, you can check which port connected to your PC/Laptop by select Tools > port



The first screenshot shows the Arduino IDE splash screen with the Arduino and Genuino logos and a "Starting..." status. The second screenshot shows the Arduino IDE interface with a sketch named "sketch_aug11a" open, displaying C++ code for setup and loop functions. The third screenshot shows the "Tools" menu open, with the "Port" option selected, displaying a list of available serial ports. The selected port is "/dev/ttyUSB0".

```
sketch_aug11a | Arduino 1.8.19
File Edit Sketch Tools Help
[Icons]
sketch_aug11a
1 void setup() {
2   // put your setup code here, to run once:
3 }
4
5
6 void loop() {
7   // put your main code here, to run repeatedly:
8 }
9 }
```

sketch_aug11a | Arduino 1.8.19

Tools Help

- Auto Format Ctrl+T
- Archive Sketch
- Fix Encoding & Reload
- Manage Libraries... Ctrl+Shift+I
- Serial Monitor Ctrl+Shift+M
- Serial Plotter Ctrl+Shift+L
- WiFi101 / WiFinINA Firmware Updater
- Board: "Arduino Uno" ▶
- Port: "/dev/ttyUSB0" ▶ Serial ports
- Get Board Info ✓ /dev/ttyUSB0
- Programmer: "AVRISP mkII" ▶
- Burn Bootloader

So, Arduino port is /dev/ttyUSB0

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Scan here



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จังหวัดนบุรี 11000