

Arduino IDE

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Abstract—This manual is a guide to get started with the Arduino UNO on a Raspberry Pi running on the Raspbian OS. The instructions should work for any Debian/Ubuntu system.

2 ARDUINO IDE

- 1) Connect the Arduino to the computer.
- 2) In the Arduino IDE, open File → Examples → Basics → Blink
- 3) Now select Tools → Port → /dev/ttyACM0
- 4) Compile and run. The LED beside pin 13 will start blinking.

1 SOFTWARE INSTALLATION

- 1) From the sources.

```
sudo apt-get update  
sudo apt-get install arduino
```

- 2) From the website. This is relatively difficult but will give access to the latest arduino IDE.

```
cd ~  
sudo apt-get install wget  
wget https://downloads.arduino.cc/arduino-1.8.7-r1-linuxarm  
.tar.xz  
tar xvf arduino-1.8.7-r1-  
linuxarm.tar.xz  
cd arduino-1.8.7  
./install.sh  
cd ~  
sudo usermod -a -G dialout \  
$USER
```

Immediately logout and login. You may replace 1.8.7 above with your favourite version. Instead of using **wget**, you may download the **arduino-x.x.x-tar.zz** file directly from the downloads link in arduino.cc.

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