Arduino IDE

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Contents

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 Debain/Ubuntu system.**

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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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.