

# How to install Arduino IDE in Ubuntu

All you need to do is buy an Arduino, add some accessories, install the Arduino IDE and you're ready to start your new project!

If you're interested in all DIY electronics, then you've probably heard of Arduino. Simply put, Arduino allows you to add programming logic to everything, from homemade robots to something as simple as a thermostat. Arduino allows you to do this without all the small tasks you need to do if you start everything from scratch.

All you need to do is buy an Arduino, add some accessories, install the Arduino IDE and you're ready to start your new project!**Join TipsMake.com** to learn how to install the Arduino IDE in Ubuntu via the following article!

## Instructions for installing Arduino IDE on Ubuntu operating system

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### Before start

The article will show you how to install the Arduino IDE and not how to use it. Learning any programming language can be daunting, so you'll have to find a way to handle it yourself. Fortunately, you will find many resources to help you learn online.

This tutorial assumes you are running Ubuntu 16.04 and above. You obviously also need an Arduino board and a mini-USB cable to connect it to the computer.

### Warning!

Arduino IDE is available through Ubuntu's integrated repositories, but this is not the recommended installation. Installing in the proposed way is not as difficult as through integrated repositories and ensuring you have more up-to-date software.

### Download and install Tarball

To get started, download the Arduino IDE from the Arduino website. Please note where you downloaded, but normally, the download file will be in `' / home / USERNAME / Downloads'`, where **USERNAME** is your username.

## Download the Arduino IDE



Open the Terminal application and change it to this folder:

```
cd ~/Downloads
```

Unzip the file with the following command:

```
tar xzf FILENAME
```

Here, **FILENAME** will be something like **'arduino-1.8.9-linux64.tar.xz'**. To get the correct name, enter **ls** to list the content of the **Downloads** folder .

It's time to run the installer. There will be a new folder in this folder. Just **cd** into it, then type the following command:

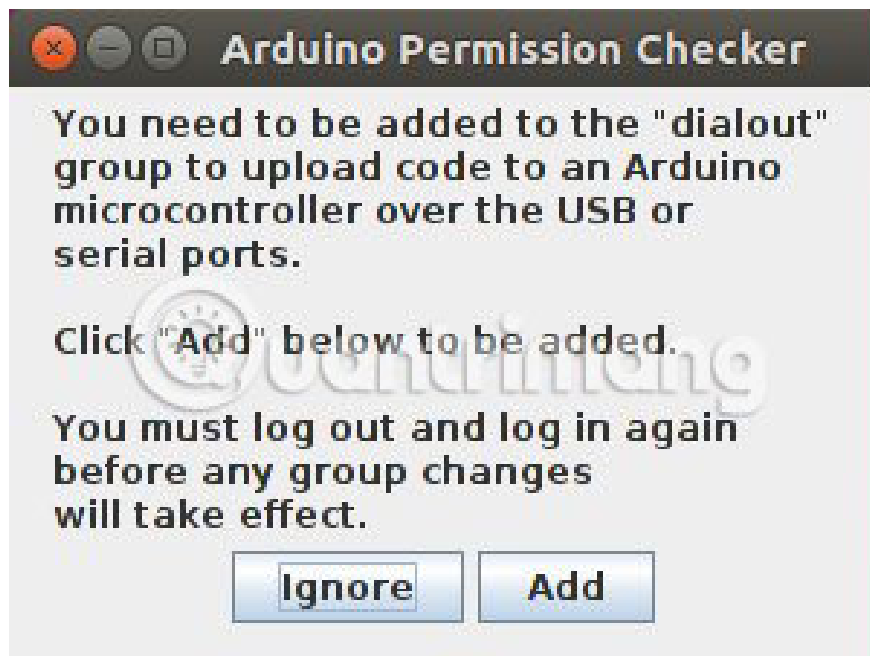
```
./install.sh
```

Press **Enter** and if everything goes smoothly, the installer will issue a message saying **'done'!**

## Run the Arduino IDE

You are almost done. Please connect Arduino to computer. Open Arduino IDE, via the **Applications** menu or by typing **Arduino** in Terminal.

You may see a prompt to add your username to the **'dialout'** group . Click **Add** and you will see the main IDE window launch.



If you explore the window, you may notice some options are gray. You need to troubleshoot access related issues.

## Modify access rights

An access issue may sound awkward, but don't worry. The problem is that even though your username has been added to the '**dialout**' group, it has no immediate effect.

All you need to do is log out of your account and then log in again. After you log back in, launch the Arduino IDE and you're ready to get started.

Now you have completed the steps to install Arduino IDE in Ubuntu. What you can achieve next depends on your own programming experience. Experience also helps, if you have programmed similar devices before.

If you're not sure what to do after you've installed the Arduino IDE in Ubuntu, take a look at the great Arduino projects list for beginners of **TipsMake.com** to get an idea of ??what you can do.

Hope you are successful.

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