Embedded Hardware Design

Monsoon 2017

Topic: <u>Arduino IDE installation guide for Windows/Linux/Mac</u>

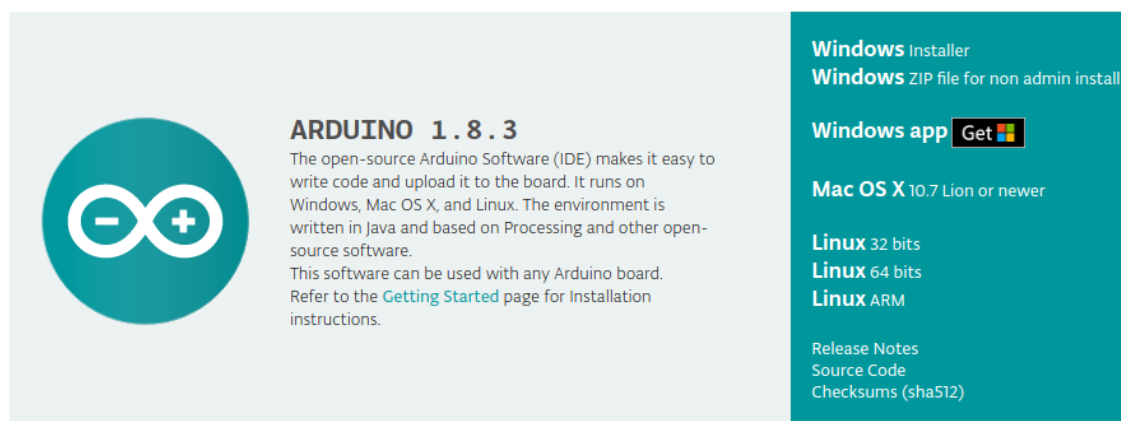****Please follow this guide and install the Arduino IDE on your laptops before attending the first lab session on 10th August****

<u>Installing the Arduino IDE 1.8.3 on Linux (all distros)-</u>

Note: In Ubuntu, Arduino IDE is available in the Software Center which can be installed via *apt-get* in a single go. However, since the IDE version is pretty old, you are discouraged from doing so. Follow these steps instead-

1. Open the following URL in your favorite browser: https://www.arduino.cc/en/main/software

2. Scroll down to the section which says "Download the Arduino IDE" and select Linux 32 or 64 based on your OS (to check whether your system is 32 or 64 bits, open terminal and type: $uname -a)

3. The downloaded file would be a compressed *tar* file in your Downloads directory. Navigate to the this directory and extract it into a folder-

```
adarsh1001@adarsh:~$ cd ~/Downloads
adarsh1001@adarsh:~/Downloads$ tar -xvf arduino-1.8.3-linux64.tar.xz
```
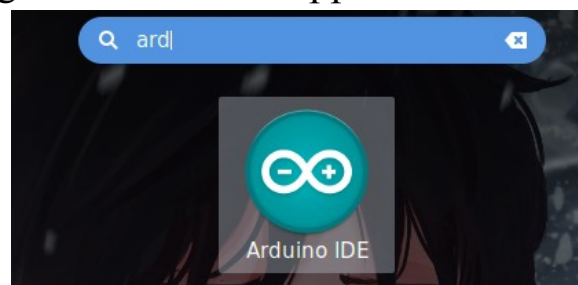
4. Move the extracted directory to /opt and after that change your terminal directory to the arduino folder inside /opt.

```
adarsh1001@adarsh:~/Downloads$ sudo mv arduino-1.8.3 /opt && cd /opt/arduino-1.8.3
[sudo] password for adarsh1001:
adarsh1001@adarsh:/opt/arduino-1.8.3$ ls
arduino          hardware     lib          revisions.txt  uninstall.sh
arduino-builder  install.sh   libraries    tools
examples         java         reference_   tools-builder
```

5. Give executable permissions to the *install.sh* file and simply run it.

```
adarsh1001@adarsh:/opt/arduino-1.8.3$ sudo chmod +x install.sh
adarsh1001@adarsh:/opt/arduino-1.8.3$ sudo ./install.sh
```
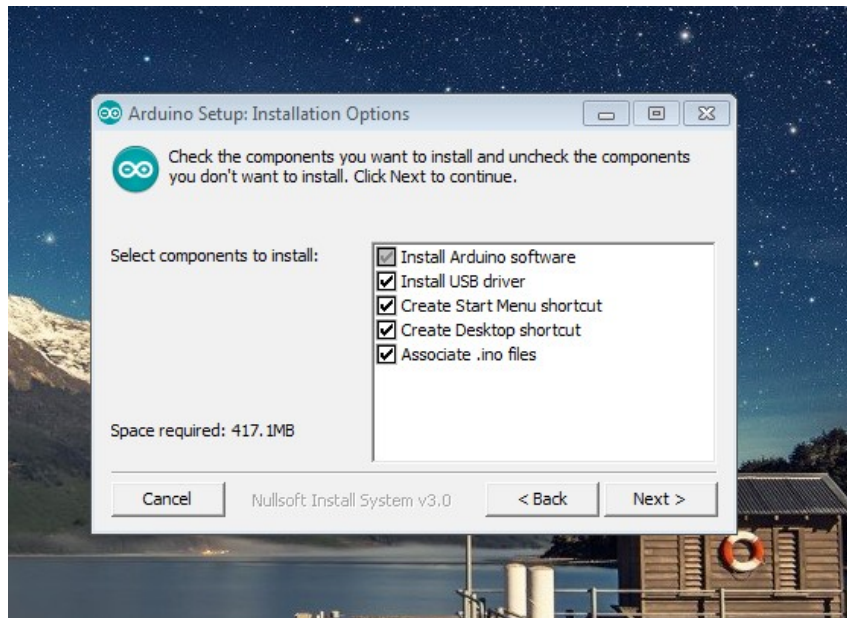
6. The process should complete without any errors. A shortcut would be automatically generated in the Applications menu.
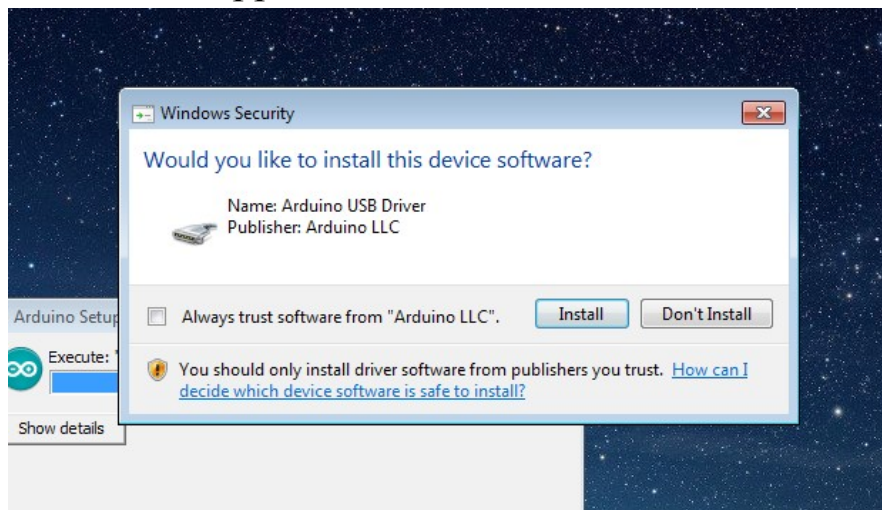

Installing the Arduino IDE 1.8.3 on Windows (7 /8 /8.1 / 10)-

Note: The installation procedure for windows is very starightforward for the latest version of Arduino IDE as drivers are automatically installed.

1. Open the following URL in your favorite browser:
   https://www.arduino.cc/en/main/software

2. Scroll down to the section which says "Download the Arduino IDE" and select "Windows Installer" from the options. An .exe file will be downloaded.

3. Simple install the .exe file. Make sure the following options are ticked during installation-

4. During installation, a dialog box asking whether you want to install the drivers would appear. Click "Install".

5. Installation should complete without any errors.

Installing the Arduino IDE 1.8.3 on OS X-

1. Open the following URL in Safari:
   https://www.arduino.cc/en/main/software
2. Scroll down to the section which says "Download the Arduino IDE" and select "Mac OS X 10.7 Lion or Newer".
3. The downloaded file is a zip file which has to be extracted (or may get automatically extracted by safari).
4. Go to Applications and you should see the Arduino shortcut there.