

WEEK-1

Arduino Installation

1. **Aim:** Install necessary software for Arduino and Raspberry Pi.

Arduino:

- Arduino is a platform that makes it easy for you to build projects using electronics.
- IoT is a way of using electronics - to make electronic modules talk to each other remotely and wirelessly (often using a Cloud) to solve problems.
- Now, Arduino can also help you easily build IoT projects in two ways: Using traditional Arduino boards and attaching communication breakout modules (like nRF Bluetooth, WiFi, LoRA, GSM, etc) to them.
- Arduino is a micro controller that can be connected to one or more sensors and help you capture the data or information and then pass it on to processor. If you know the full stack of IoT then you should also look at Raspberry.
- RaspPi is a microprocessor so the basic difference between Arduino and RasPi is that RaspPi is controller plus processor and Arduino is just a micro controller.
- They suit the need for different use cases. You can easily read online about this

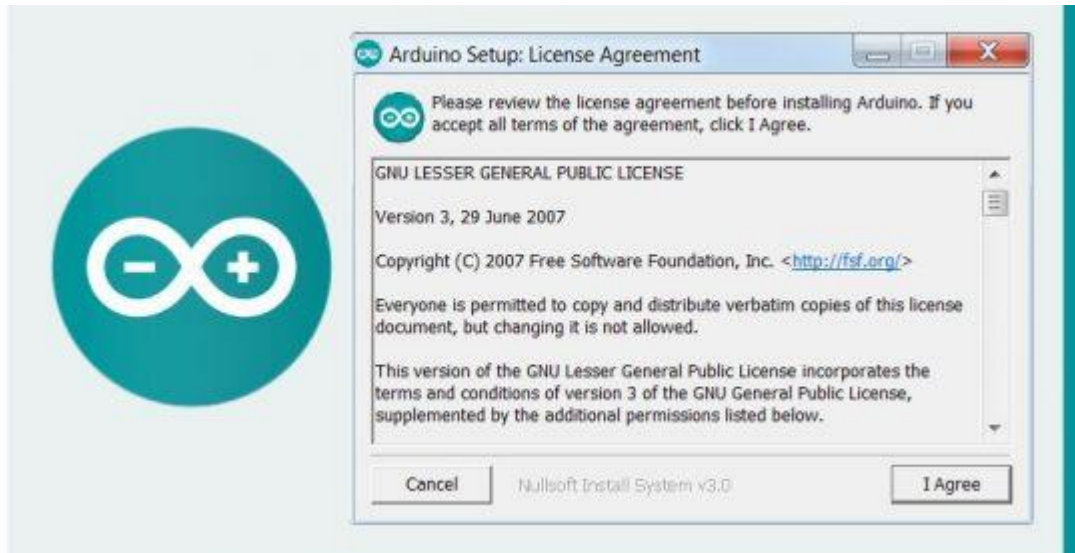
both.

Download and install the Arduino software (Arduino IDE 1.8.5)

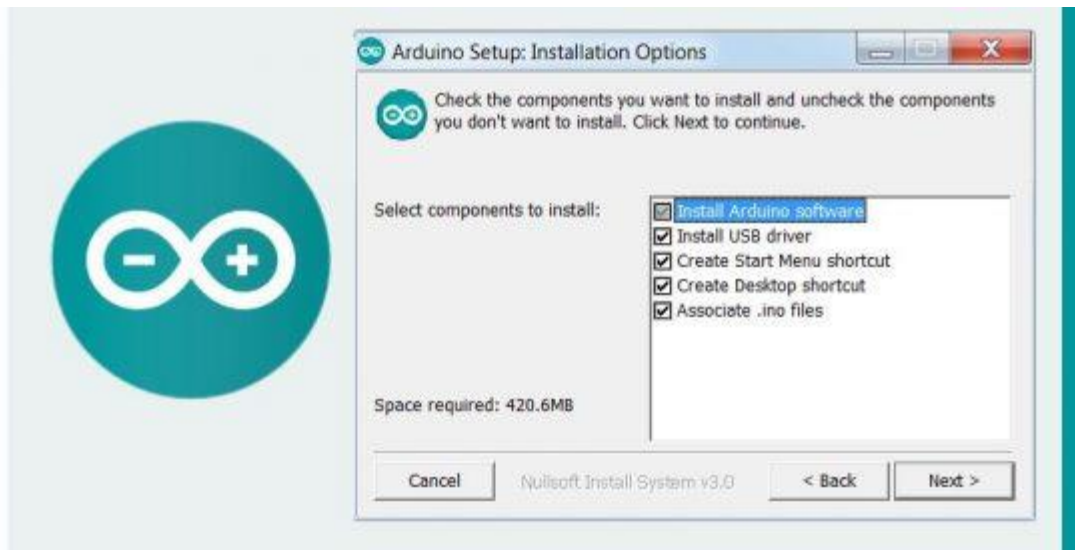
- Go to the [Arduino website](#) and click the download link to go to the download page.
- After downloading, locate the downloaded file on the computer and extract the folder from the downloaded zipped file. Copy the folder to a suitable place such as your desktop.

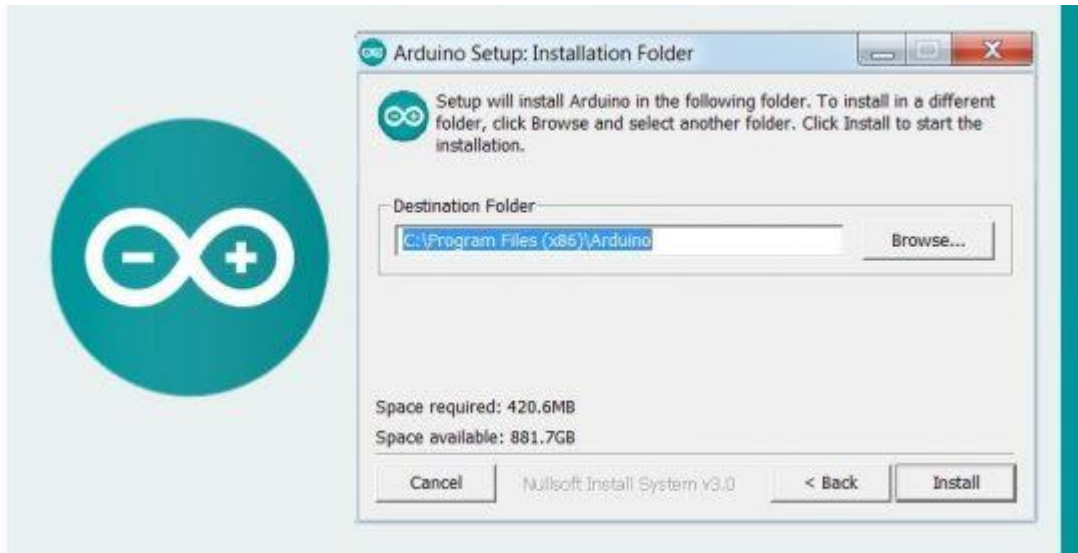
Download the Arduino IDE



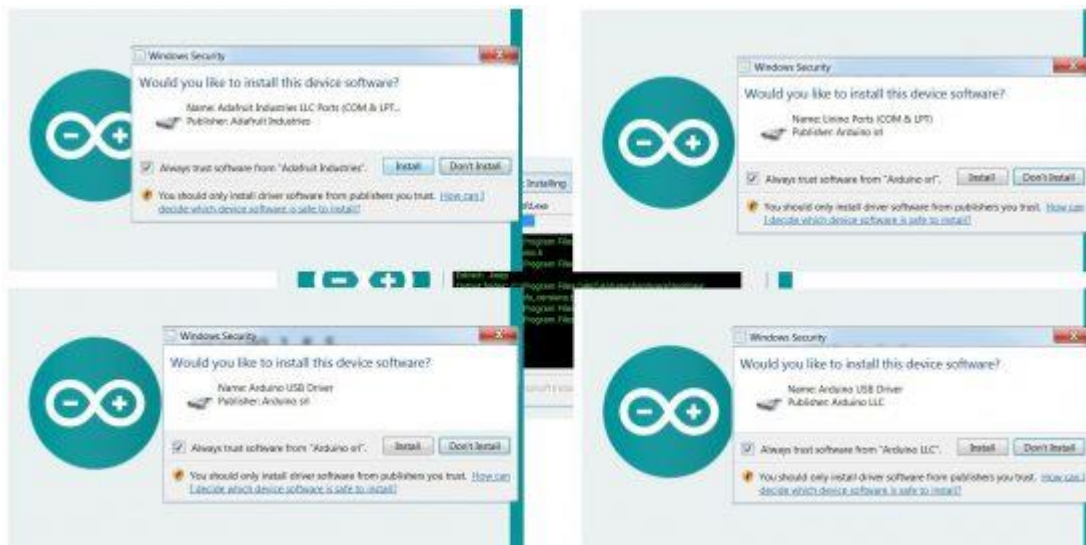


Read the Arduino License agreement and click the “I Agree” button.





The Arduino software will start to install.



Running the Arduino IDE Software



Raspberry Pi

