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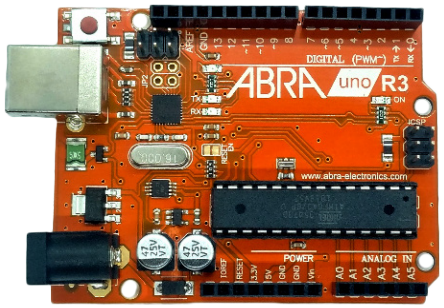
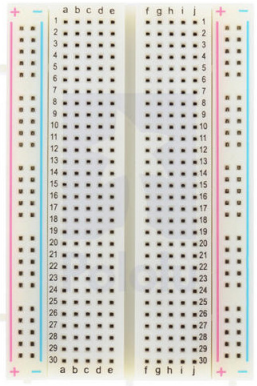
Arduino UNO Basic Kit

THE ARDUINO BASIC KIT IS AN IDEAL REUSABLE KIT FOR DEVELOPMENT OF ARDUINO PROJECTS FOR SCHOOLS OR INDIVIDUALS.





Includes:

- Arduino Uno R3 Compatible Microcontroller
- 400 Tie Point Quality Breadboard
- 140 Piece Jumper Wire Set
- 6ft. USB A-B Cable
- 9V power Supply Adapter

ARD-105

SETUP & INSTALLATION

A. Arduino IDE (For Windows)

This part will guide you through the set up and installation process of the Integrated Development Environment (IDE).

1. Open your default internet browser and access the Arduino website. Download the latest Arduino IDE version. The software is compatible with Linux, Mac and Windows so just choose the one that matches your OS. The Arduino download page is at http://arduino.cc/en/Main/Software.

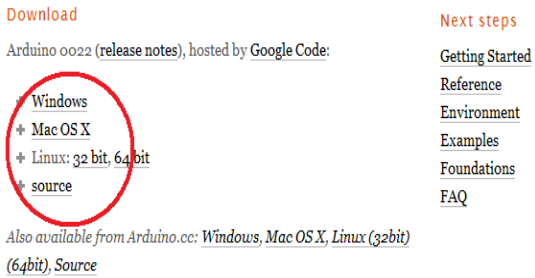


Figure 1: A part of Arduino Website's download page. The current version at this time was 0022. Arduino allows you to install its IDE on several platforms (see encircled)

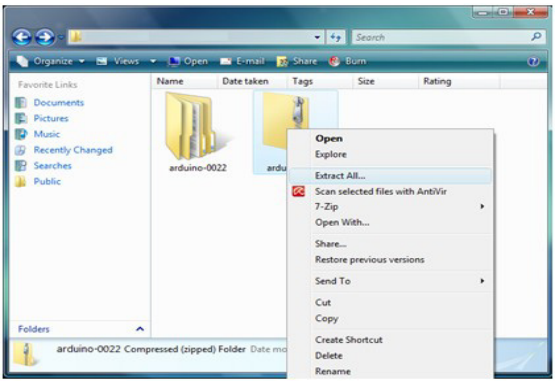


Figure 2: Screenshot of attempt to extract the zipped Arduino folder. Make sure you have an archive utility such as 7zip or WinRAR.

2. After downloading the compressed file, extract its contents to your preferred directory (C:\Program Files, your Desktop or etc…). Note that the whole folder size is around 200MB when completely extracted.

3. Congratulations! Arduino IDE is installed on your computer. To use it, just navigate to your main folder directory and run the Arduino application.

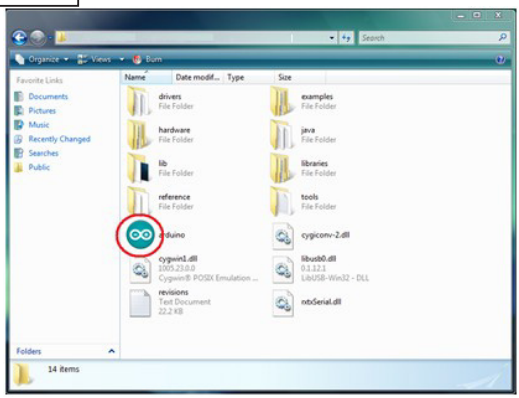


Figure 3: Screenshot of what's inside the Arduino-0022 folder. The application icon looks like an infinity symbol.

B. Arduino Uno board driver (For Windows)

This part will guide you through the set-up and installation process of the Arduino Uno board driver for the device to be recognized by the IDE.

1. Connect the Arduino UNO to the computer via USB Cable (A on fig. 4) [2]. Check if it is properly connected by observing the green LED labeled ON (B on fig. 4) on the board.

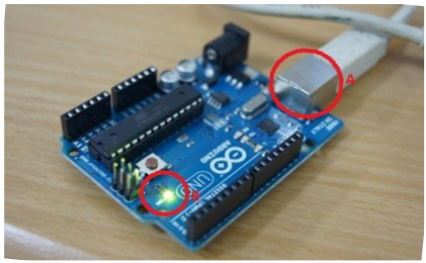


Figure 4: Photo of Arduino Uno board connected to a Computer. Note that the board's USB-B port.

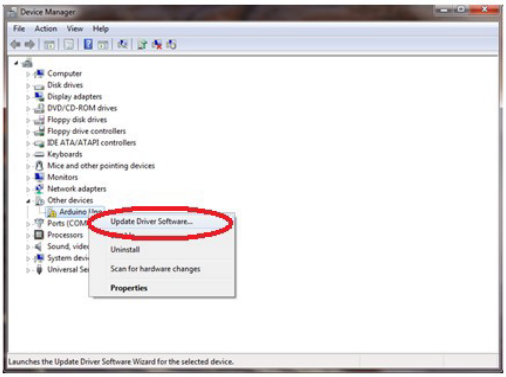


Figure 5: Screenshot of the Device Manager. The Arduino Uno should have an exclamation point.

2. Wait for Windows to try and install the device's driver until it fails. Navigate to the Device Manager through Start > Control Panel > Device Manager. Locate the Arduino Uno Device. Right-click it to choose Update Driver Software.

3. Choose to browse your computer for the driver by clicking Browse my computer for driver software.

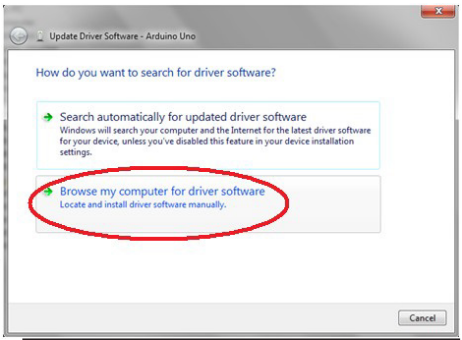


Figure 6: Screenshot of the options for searching the device driver. Choose the second option so that you can look for it in your hard disk.

4. A new window will open for you to indicate the location of the driver. Click Browse…

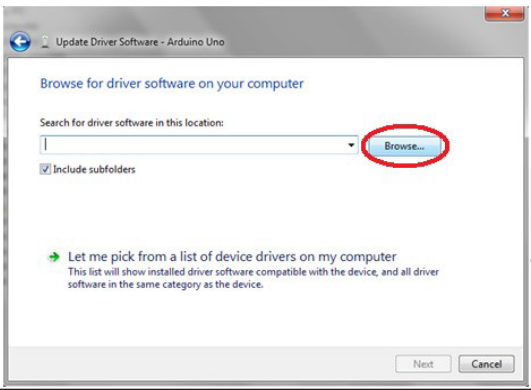


Figure 7: Screenshot of the browse option menu. Choose the first option which is to look manually for the folder that contains the Arduino Uno board's driver.

5. Navigate to your Arduino folder and choose the drivers folder. Click OK upon selection.

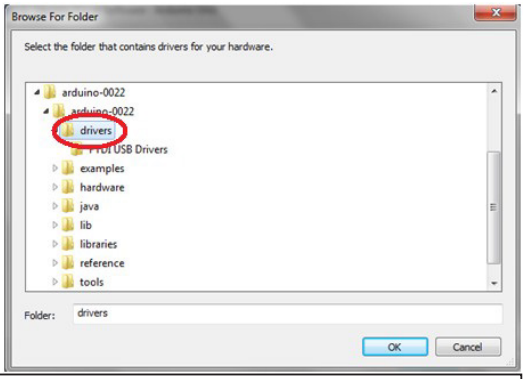


Figure 8: Screenshot of navigating through the Arduino software folder. Note that the drivers folder was chosen rather than the FTDI USB Drivers (It was mentioned earlier that only preceding models use this)

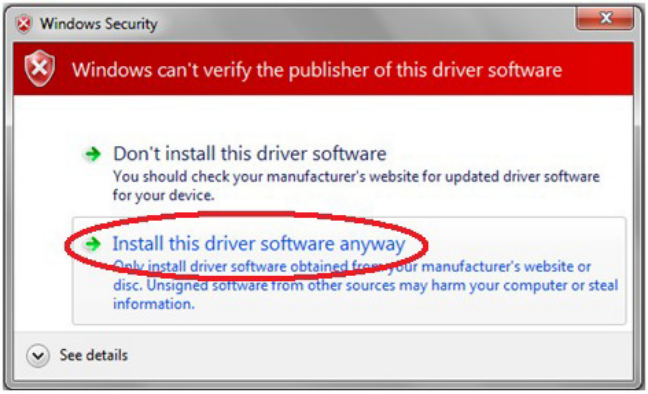


Figure 9: Screenshot of pop-up window. Windows can't verify the publisher of the device software but we know that the software's publisher is Arduino.

6. A Windows Security window sometimes pops up to confirm if you want to continue the installation. Just click, Install this driver software anyway.

7. Wait for Windows to finish installing the device driver. Upon completion, you should see an installation successful message. Congratulations and click Close. You are ready to start programming using Arduino!

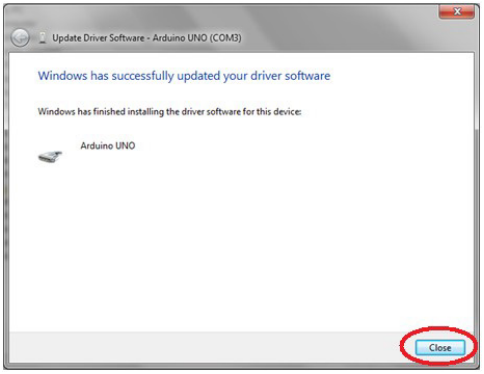


Figure 10: Screenshot of successful driver installation of the Uno board. The next step is to start doing the exercises.