Arduino Pre-class Preparations for Windows
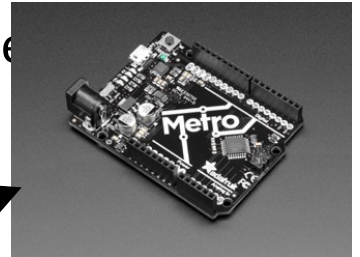
Joe Wilkes, PhD

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Introduction

- This material will guide the student through the downloading and installation of the Arduino Development Environment
- If you need additional help see
  - https://www.arduino.cc/en/Guide/HomePage
  - Scroll down to the "Install the Arduino Desktop IDE" section
- Also come to the first class early
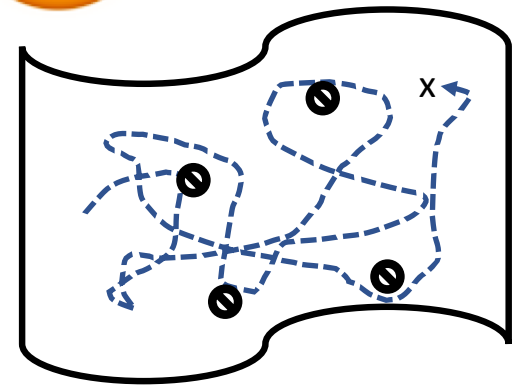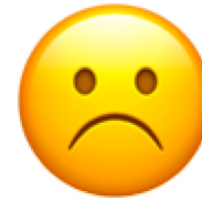- Please see important notes on the next two pages!

Big Caveat!

- Not all boards that are sold under the Arduino name are the same
- Many of the Chinese clones use a different USB chip.
- Finding the drivers can be difficult
- It is suggested the you order your Arduino from
  - Adafruit (their version is licensed and called the metro)
    - https://www.adafruit.com/product/50
    - See note about downloading driver for board

  - Sparkfun
    - https://www.sparkfun.com/products/11021
- Amazon (look for sold by Arduino and fulfilled by Amazon)
    - https://www.amazon.com/Arduino-A000066-ARDUINO-UNO-R3/dp/B008GRTSV6/ref=sr_1_3?ie=UTF8&qid=1542548200&sr=8-3&keywords=arduino+uno+r3
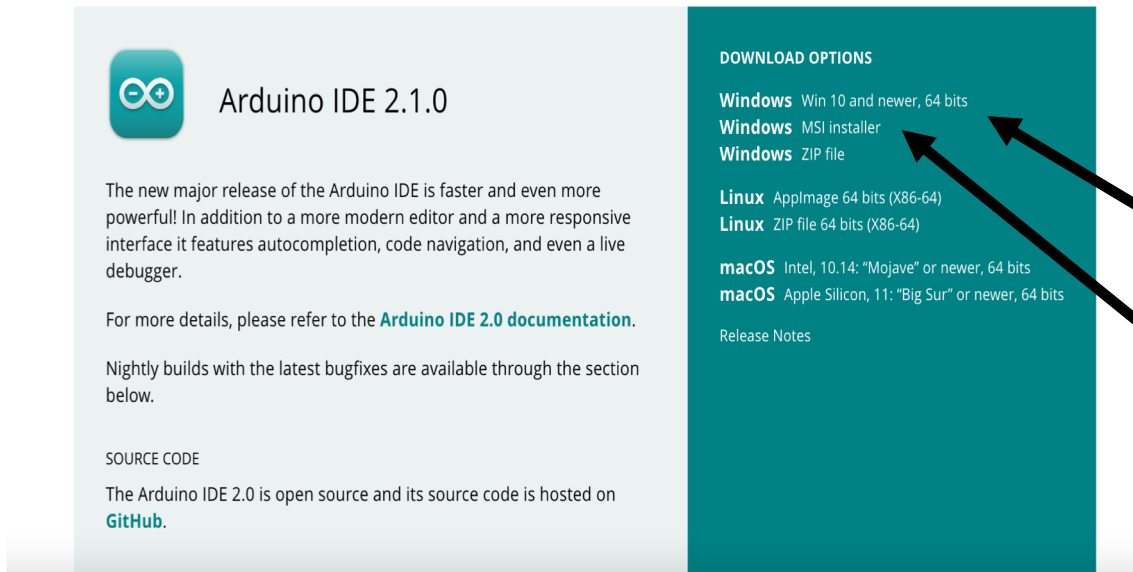
Additional Information

☹️

- If you do not have a genuine Arduino
- In other words you bought a Chinese clone by mistake
- All is not lost
- You may have to go into treasure hunt mode
- To find the driver for your board
- Hint: If you find the driver on a website in Mandarin
  - Click on the big button to download the driver
  - Mac users need to google for directions on using an earlier driver

- If you can't find it,
please come to first class early and
someone can probably help you 🤓

Windows Installation

Download the Software - 1

Downloads

Arduino IDE 2.1.0

The new major release of the Arduino IDE is faster and even more powerful! In addition to a more modern editor and a more responsive interface it features autocompletion, code navigation, and even a live debugger.

For more details, please refer to the **Arduino IDE 2.0 documentation**.

Nightly builds with the latest bugfixes are available through the section below.

SOURCE CODE

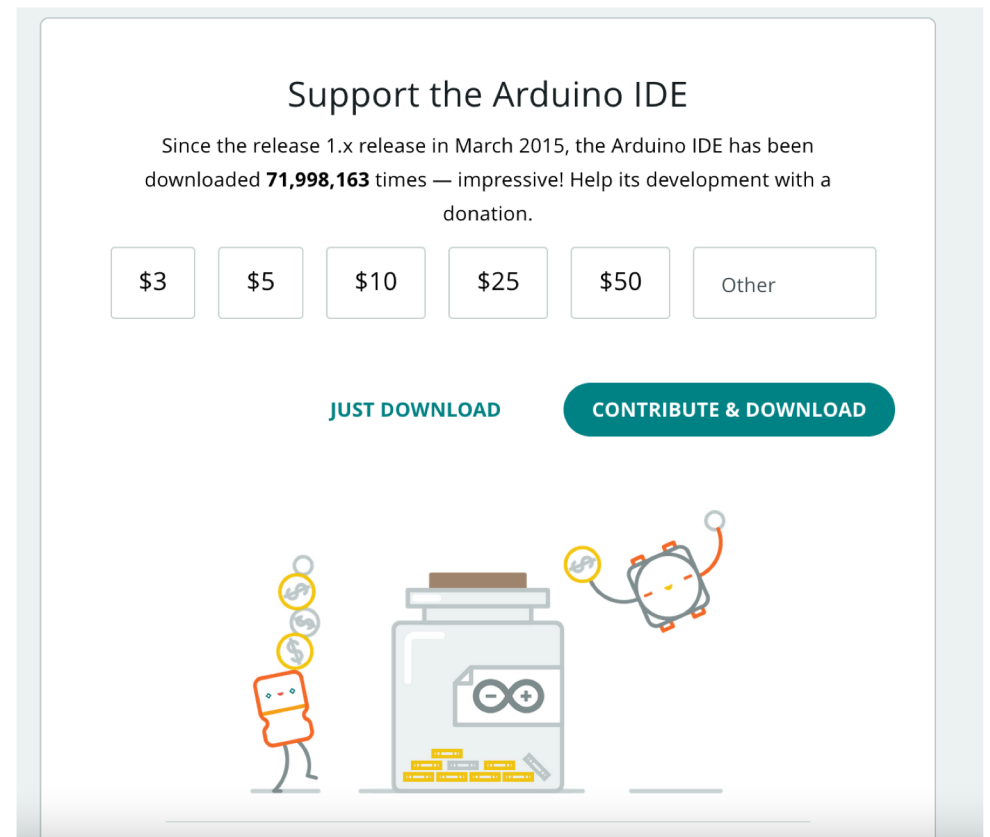The Arduino IDE 2.0 is open source and its source code is hosted on **GitHub**.

DOWNLOAD OPTIONS

Windows Win 10 and newer, 64 bits
Windows MSI installer
Windows ZIP file

Linux AppImage 64 bits (X86-64)
Linux ZIP file 64 bits (X86-64)

macOS Intel, 10.14: "Mojave" or newer, 64 bits
macOS Apple Silicon, 11: "Big Sur" or newer, 64 bits
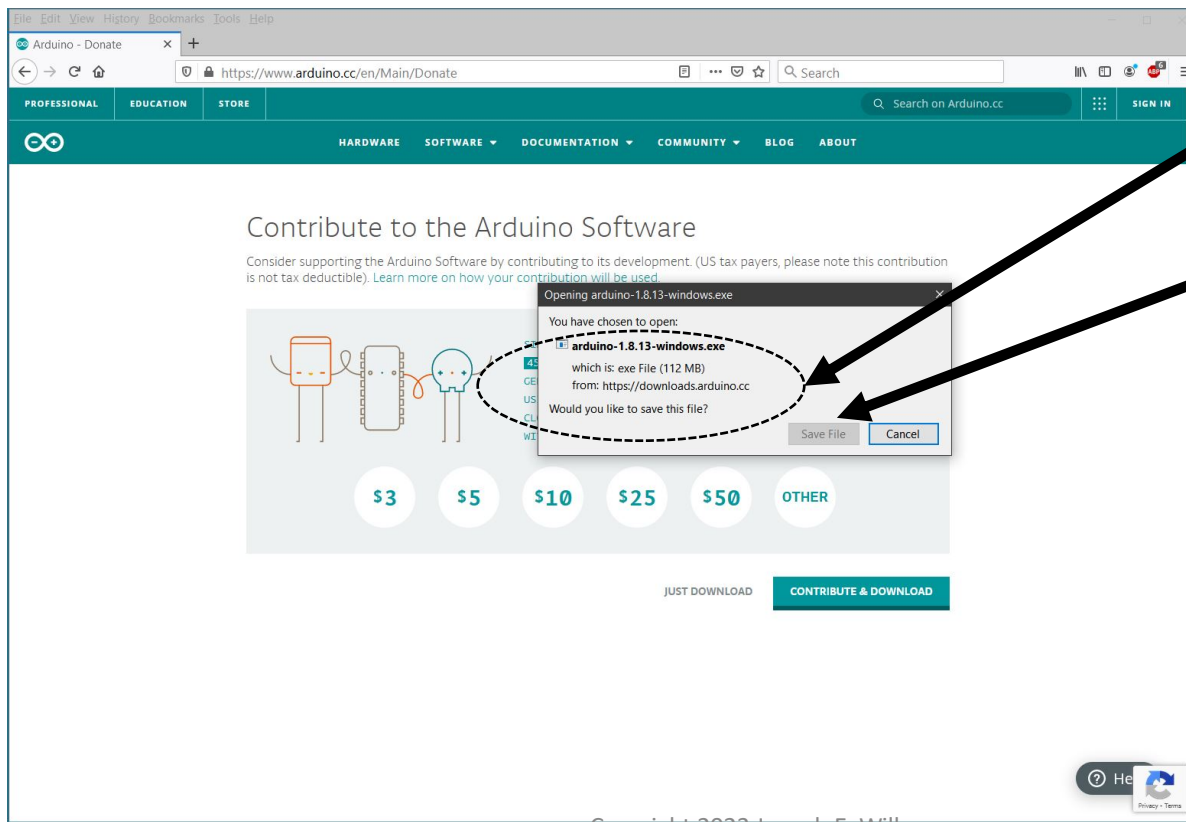
Release Notes

- Go to https://www.arduino.cc/en/Main/Software
- Scroll down the page to find: Downloads
- Click on the link for "Windows: Win 10 and up"
- If you have an older version, click on "Windows MSI Installer"
- Follow the directions on the next pages

Download the Software - 2

- Click on:
  - just download
  - contribute and download
- The download with then start
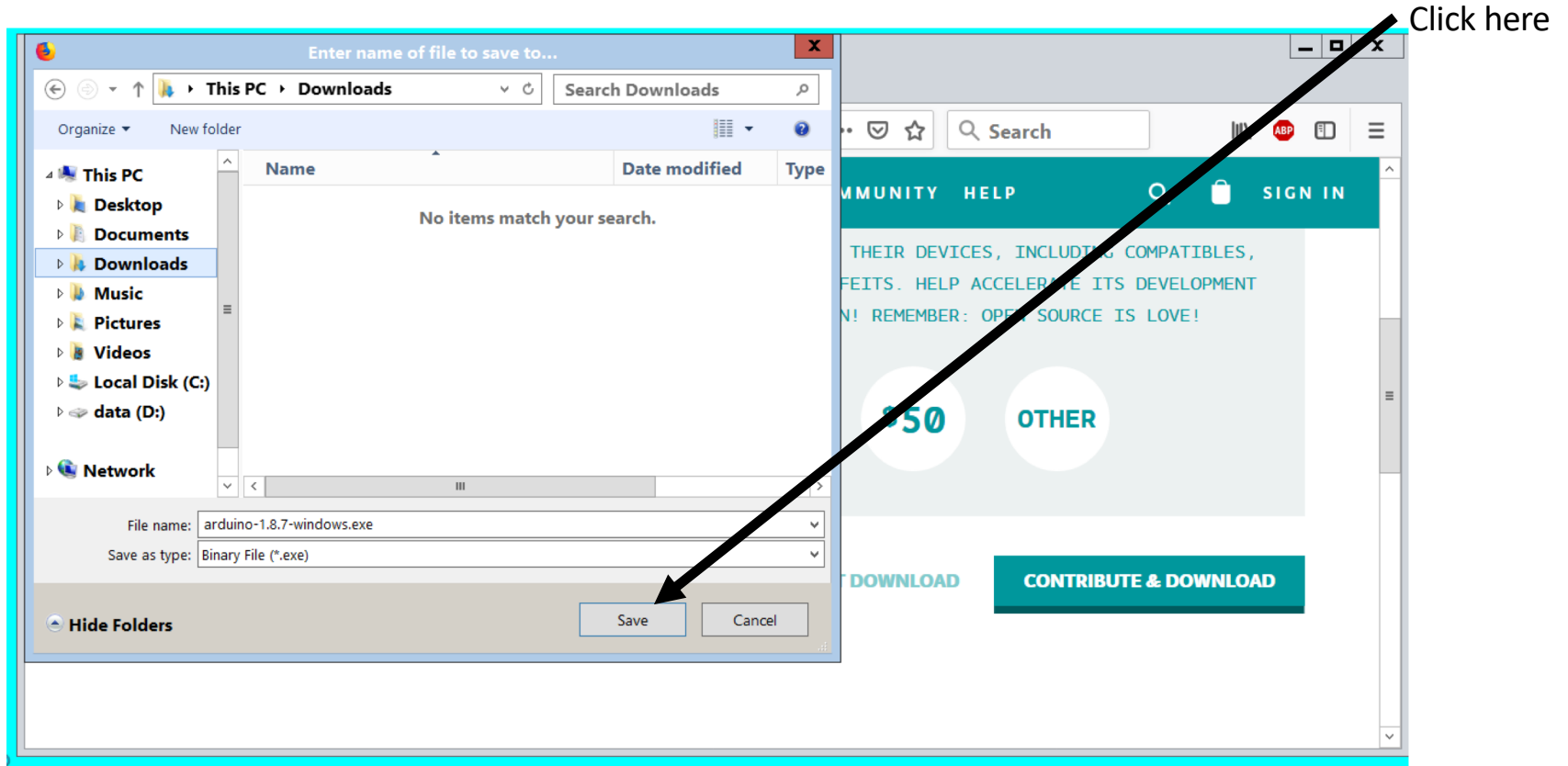
Download the Software - 5

The file name
Should be
1.8.13 or higher

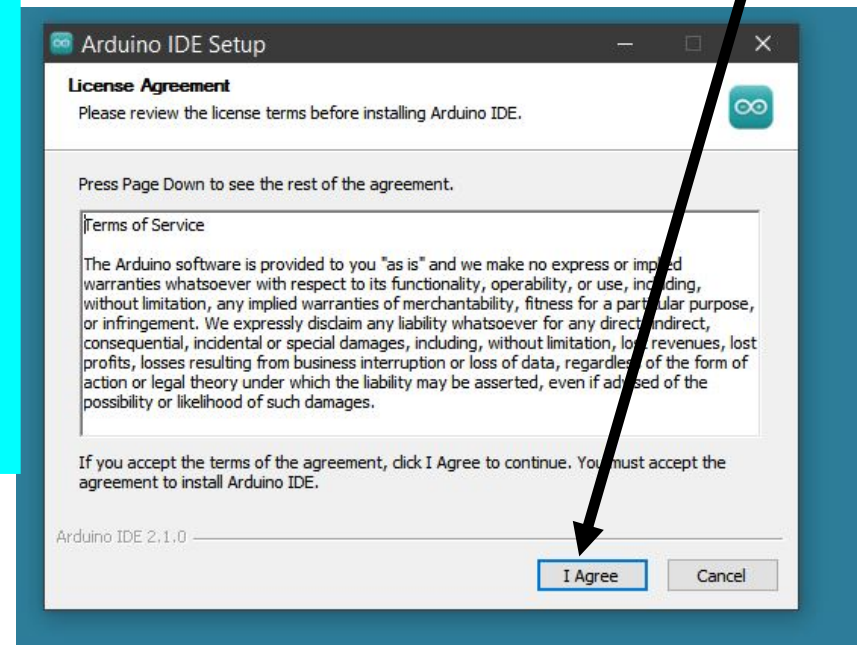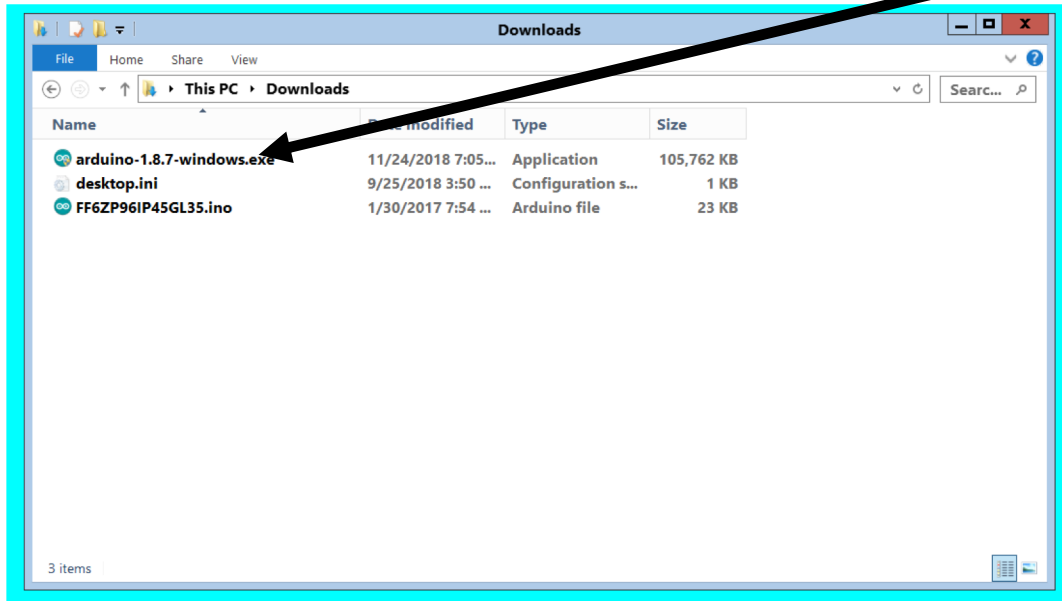Click here

Download the Software - 6

Depending on the browser and its setting
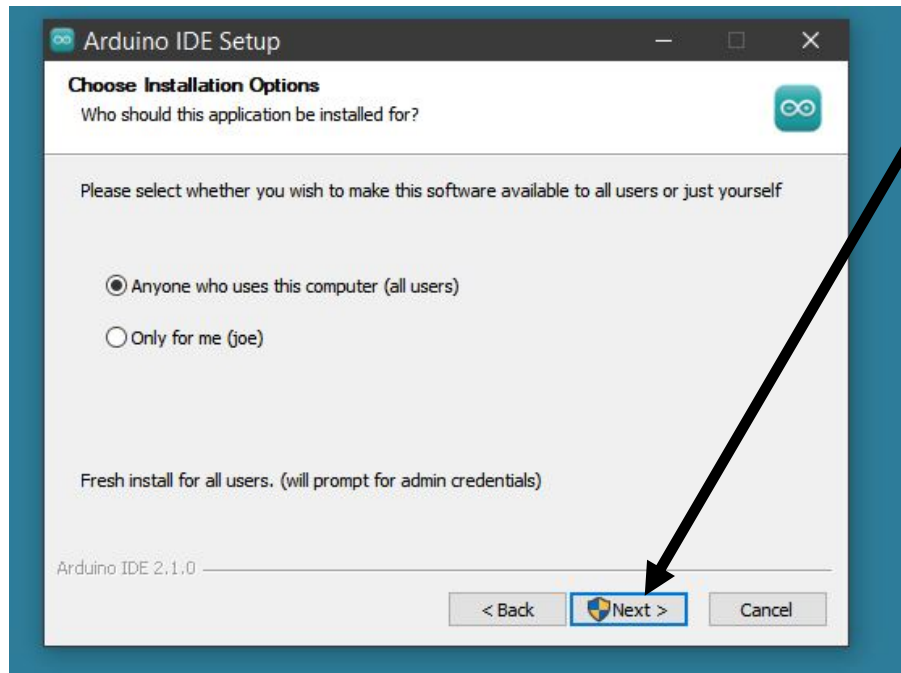This screen may not show up
The file may download automatically

Click here

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Install the Software - 1

Double Click here

Click here

arduino-1.8.7-windows.exe

Arduino IDE Setup

License Agreement
Please review the license terms before installing Arduino IDE.

Press Page Down to see the rest of the agreement.

Terms of Service

The Arduino software is provided to you "as is" and we make no express or implied warranties whatsoever with respect to its functionality, operability, or use, including, without limitation, any implied warranties of merchantability, fitness for a particular purpose, or infringement. We expressly disclaim any liability whatsoever for any direct, indirect, consequential, incidental or special damages, including, without limitation, lost revenues, lost profits, losses resulting from business interruption or loss of data, regardless of the form of action or legal theory under which the liability may be asserted, even if advised of the possibility or likelihood of such damages.

If you accept the terms of the agreement, click I Agree to continue. You must accept the agreement to install Arduino IDE.

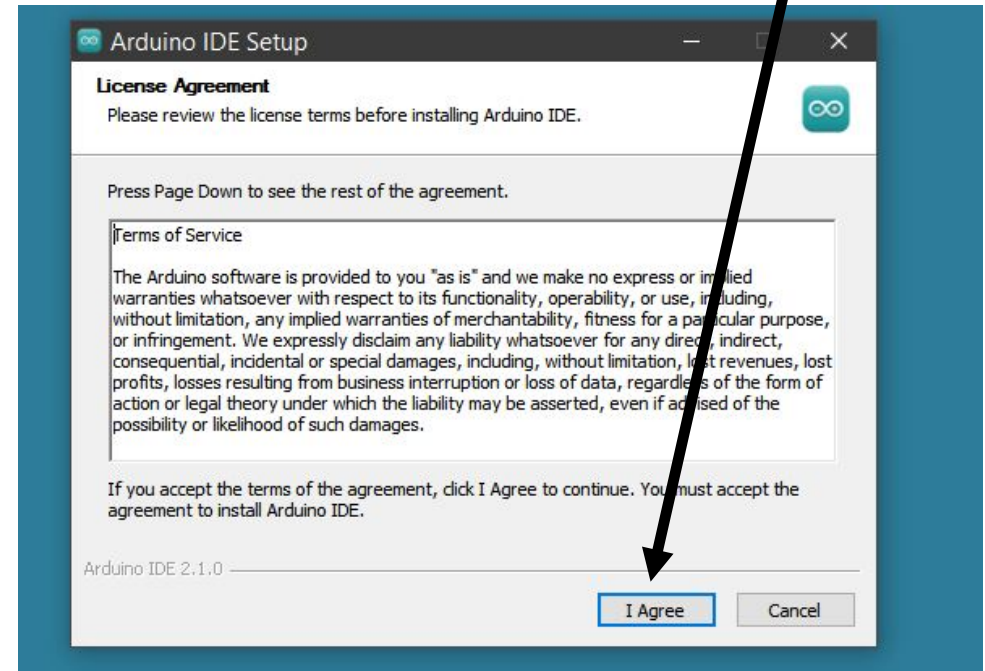Arduino IDE 2.1.0

I Agree   Cancel
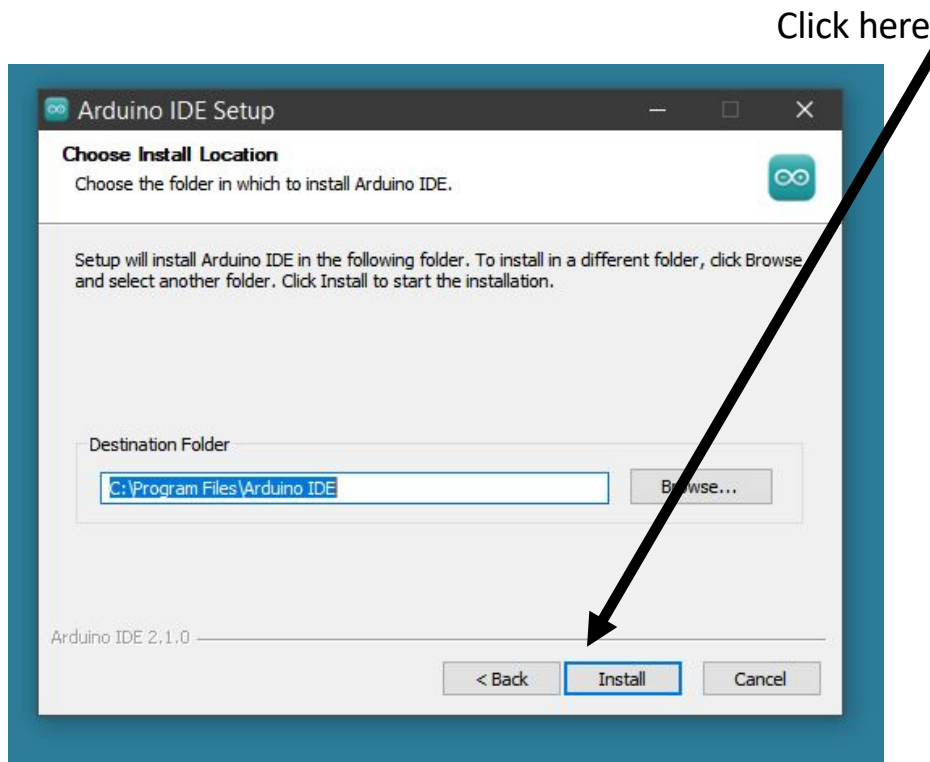
Install the Software - 2

Click here

If this screen comes up again
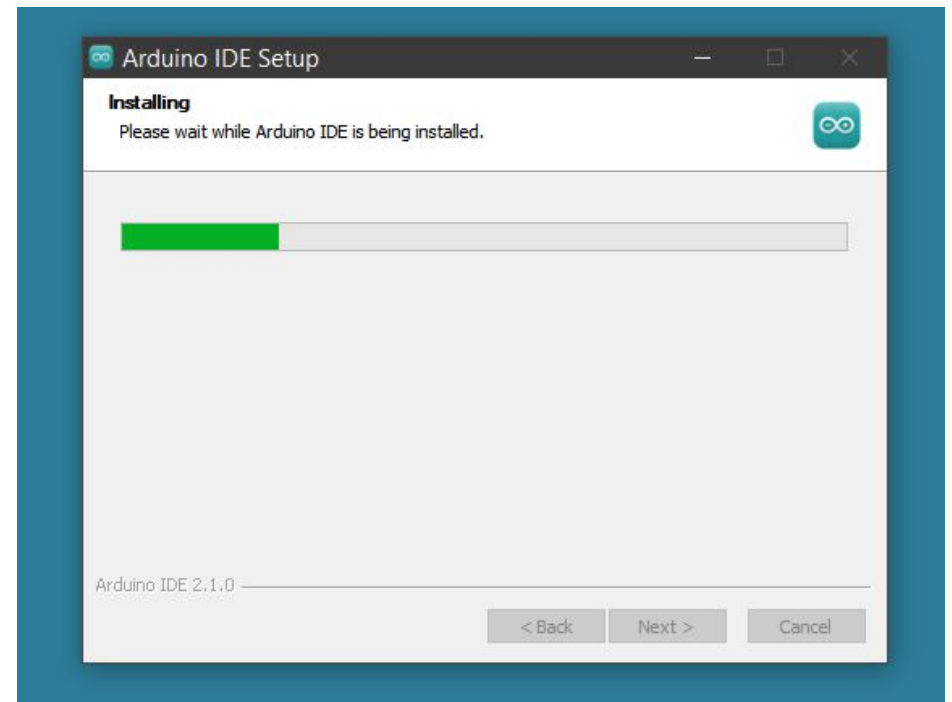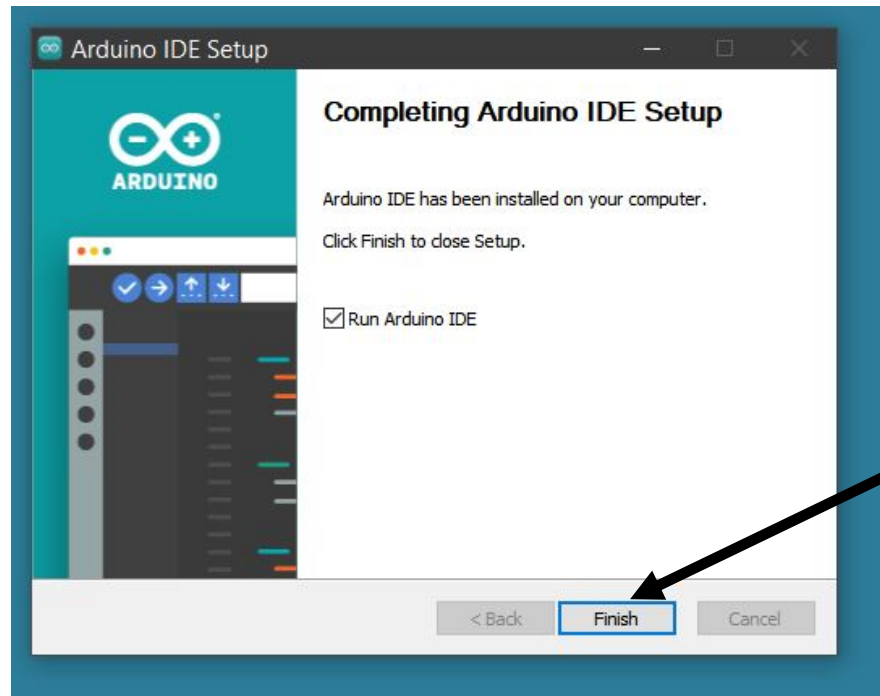
Click here

Install the Software - 3

Click here

The install will start

Finish

Click here

Arduino Development Environment is Installed

- In class:
- We will show how to connect Arduino to laptop
- We will show how to establish connection to Arduino
- We will show the most simple program