

Experiment 000 Arduino Setup

OVERVIEW

In this experiment, we will install and setup the Arduino software. There are two different versions of the Arduino Integrated Development Environment (IDE).

- 1) Arduino Create web browser Online IDE.
- 2) Arduino IDE software for Windows, Mac and Linux.

OUTCOMES

By the end of this activity you will be able to:

- download the Arduino Development Software.
- use the Arduino Create web-based development environment.
- Modify a program variable

REQUIREMENTS

- Arduino-Compatible board
- 321Maker Things Shield
- USB Cable
- Arduino Software or a web browser with the Arduino Create plugin installed.

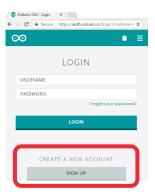
PREREQUISITES

None

LEVEL 1A PROCEDURE - SETTING UP ARDUINO CREATE (ONLINE WEB-BASED IDE)

Open a web browser, go to http://create.arduino.cc click on the "Arduino Web Editor" button. If you don't already have an Arduino account you can register one, and login with your account.











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#WeAreAllMakers

If you see a message like this. You need to install the plugin. Click Help to start the process of installing the Arduino Create plugin. M004_Probability <u>(</u> (2) No Plugin Connection. Uploading is disabled until you reconnect. Do you see the Arduino Plugin Icon in your top or bottom tray? Download the Arduino Plugin for Windows Install the Arduino Plugin for Windows SKIP Click on the links outlined in red above to download the Arduino Create plugin. Start the installation of the Arduino Create plugin and accept the defaults. LEVEL 1B PROCEDURE - INSTALLING THE ARDUINO IDE Open a web browser and go to: https://www.arduino.cc/en/Main/Software Click on the link for the correct installer for your operating system, then click just download. Unless you wish to make a donation to the Arduino foundation. © Support the Arduino Software Consider supporting the Arduino Software by contributing to its development. (US tax payers, please note this contributior is not tax deductible). Learn more on how your contribution will be used. ARDUINO 1.8.2 Windows app Get # ARDUING 1.0.2 The open-source Arduino Software (IDE) makes it easy to write code and upload it to the board. It runs on Windows, Mac DS X, and Linux. The environment is written in Java and based on Processing and other open-source software. Mac OS X 10.7 Lion or newer Linux 32 bits This software can be used with any Arduino board. Refer to the Getting Started page for Installation Linux 64 bits 53 55 \$10 525 550 OTHER

- Once the software is downloaded launch the installer for your operating system.
- Accept the defaults for your installation. (Keep clicking next).