## Installation of the Wemos D1 Mini

### Download & Install required Serial drivers

Download one of the drivers for your platform from: <https://www.wemos.cc/downloads>

### Windows

Install the driver and restart the computer.

### Mac

If you use a Mac, you can download the drivers from this location: <https://github.com/adrianmihalko/ch340g-ch34g-ch34x-mac-os-x-driver>

This driver will also work on OS X Yosemite (10.10) and El Capitan (10.11).

Restart your computer after the installation.

### Linux

For Linux, you don't need to install a driver, the board will automatically detect the board when you connect it to an USB port. The first time you connect the board, you need to give the user who is running the Arduino IDE Access to the serial port. For that you need to go to the terminal and enter: 'sudo usermod -aG dialout <username>'

Where <username> is the name of the user you are logged in as.

### Download & Install the Arduino IDE

Choose the download for your platform from: <https://www.arduino.cc/en/Main/Software>

After downloading, install the application.

### Configure the Arduino IDE for the Wemos

Start the Arduino IDE and go to the preferences window.

At the bottom part of the window, you will find a textbox labelled 'Additional Boards Manager URLs'.  
Add the following URL: <http://arduino.esp8266.com/stable/package_esp8266com_index.json>

Now go to: Menu -> Tools -> Board -> Boards Manager...

Type at *Filter your search...*: esp8266<enter>

Select the esp8266 box and choose the highest version in the Select version pull down menu.

Click on Install and the requirements for your board will be installed.

When you plug anything into the Wemos (and you are not experienced with electronics), you first need to disconnect the Wemos from your computer and the attached powersource. After placement of the board, you can reconnect the board to your computer and powersource.

At the following pages, the Wemos itself and the shields will be described. With every board there is a basic script example that you can use to make your first steps with the board and shields.

The scripts come from the Wemos github repository, which you can find over here: <https://github.com/wemos/D1_mini_Examples>

There is also a very comprehensive book on the ESP8266 itself (the 'heart' of the Wemos D1 Mini). It is free to download, and if you wish, you can give a donation to the author. You can find it over here: <http://neilkolban.com/tech/esp8266/>

For getting started in programming in the Arduino IDE, this is a useful guide to get you on the way: <http://playground.arduino.cc/uploads/Main/arduino_notebook_v1-1.pdf>