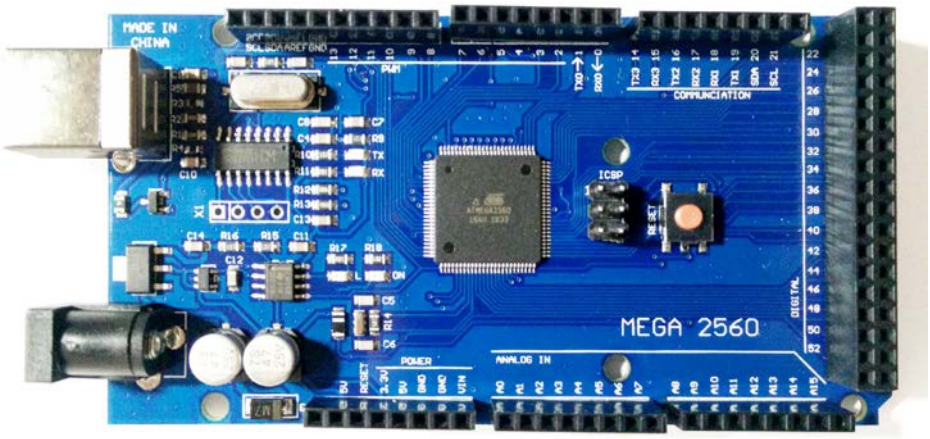
Welcome!

And thank you for purchasing our **AZ-Delivery Mega 2560 R3**! On the following pages, we will take you through the first steps of the installation process to the first script.
We wish you a lot of fun!



https://az-delivery.de/mega2560-r3

The **AZ-Delivery Mega 2560 R3** has the same pin layout as its original from Arduino/Genuino. It is 100% compatible with all shields for the Mega 2560. It is powered by USB or a 6-12V-power supply with a 5,5x2,1mm plug.

Overview of the most important information

» Programming via a standard USB-B cable

» Power supply via:
  » Standard USB-B on the USB port of the computer
  » Standard USB-B on the 5V USB power adapter
  » Power supply with a 5,5x2,1mm plug (min. 6V - max. 12V)

» 54 digital I / O-pins, 12 of them with PWM
» 16 analog I / O-pins
» ATmega2560 microcontroller

On the following pages, you will find information about
» **Hardware installation**
And instructions for
» **the first script.**

Overview of all links

Driver:

» Windows: *http://www.wch.cn/download/CH341SER_ZIP.html*
» Mac: *http://www.wch.cn/download/CH341SER_MAC_ZIP.html*

Application programming interfaces:

» Arduino IDE: *https://www.arduino.cc/en/Main/Software*
» Web-Editor: *https://create.arduino.cc/editor*
» Arduino extension for SublimeText:
https://github.com/Robot-Will/Stino
» Arduino extension "Visual Micro" for Atmel Studio or Microsoft Visual Studio:
http://www.visualmicro.com/page/Arduino-for-Atmel-Studio.aspx

Arduino Tutorials, Examples, Reference, Community:

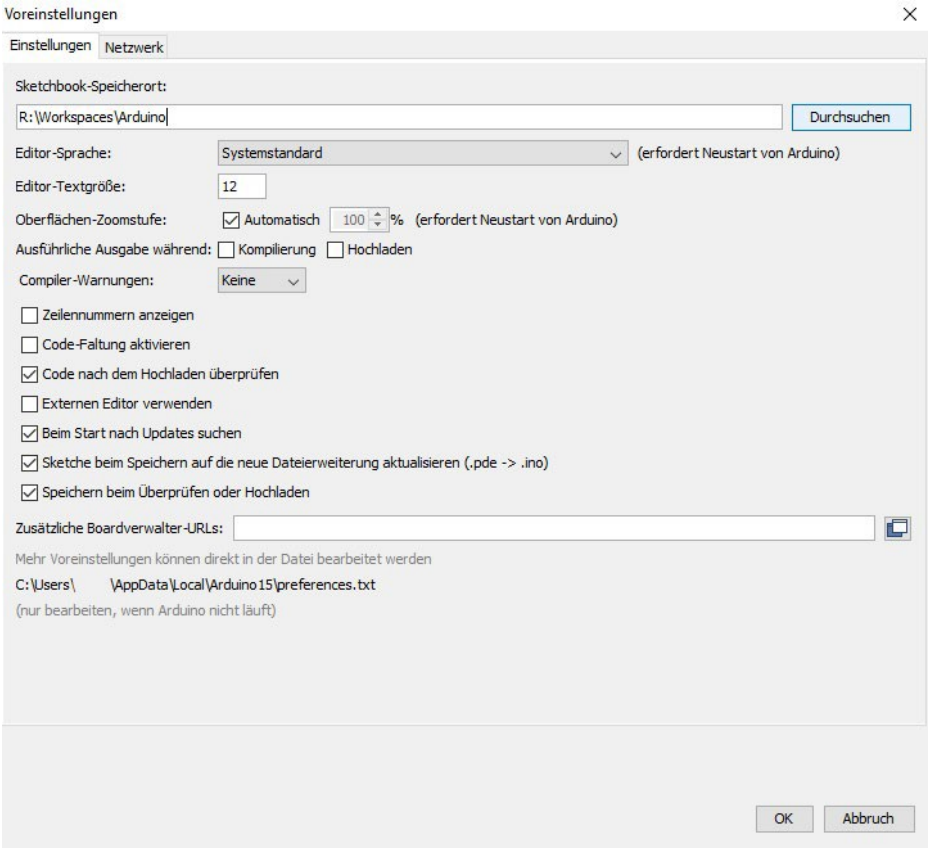
» *https://www.arduino.cc/en/Tutorial/HomePage*
» *https://www.arduino.cc/en/Reference/HomePage*

Interesting information from AZ-Delivery

» Arduino compatible boards:
https://az-delivery.de/collections/arduino-kompatible-boards
» Arduino Accessories:
https://az-delivery.de/collections/arduino-zubehor
» AZ-Delivery G+Community:
https://plus.google.com/communities/115110265322509467732
» AZ-Delivery on Facebook:
https://www.facebook.com/AZDeliveryShop/

Installation of the Mega 2560 R3

Visit the following webpage *https://www.arduino.cc/en/Main/Software* and download the latest version for your operating system. Alternately, you can register for the Arduino Web-Editor and follow the easy-to-understand installation instructions provided there. The following first steps will use the zip-versions for Windows, which after the download should be unpacked at the place, of your choice, and then started on the **Arduino.exe**.



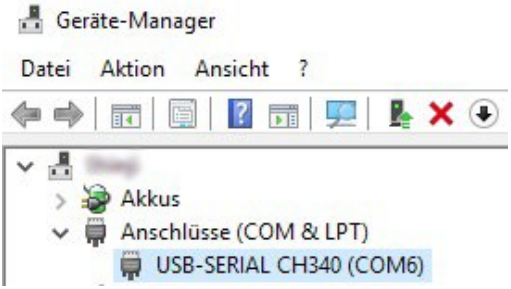
If the program has already been started, then the saving location for the first sketchbook should have already been set under **File > Preferences**, for example under **My Documents\Arduino**. With that, the software is appointed for the first steps and your scripts listed as Arduino "**Sketche**" will end up being there, where you would like them to be.

Connect the **AZ-Delivery Mega 2560 R3** to your computer via the included in the delivery USB cable. While the original by Arduino uses an FTDI chip, that may require manual driver installation, most AZ-Delivery boards use a CH340-Chip, which is automatically detected by Windows.

However, if that is not the case, then please download the current driver from this link and then unzip it.

» Windows: *http://www.wch.cn/download/CH341SER_ZIP.html*
» Mac: *http://www.wch.cn/download/CH341SER_MAC_ZIP.html*

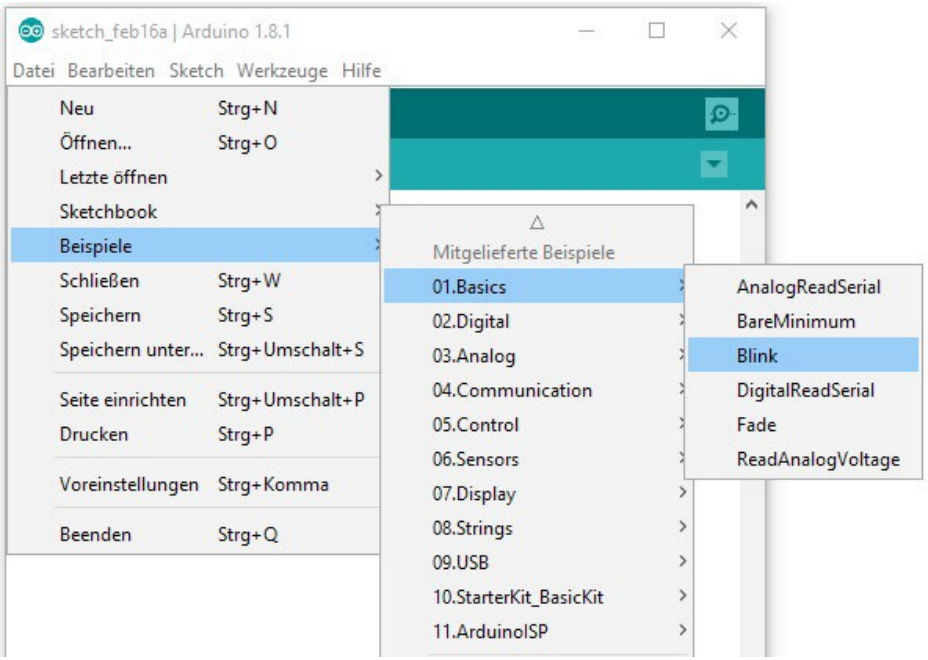
On Windows, you can simply install it by running "**SETUP.EXE**", which is located in the "**CH341SER**" folder. Mac-users are best advised to follow the installation instructions that come with the driver's package.
After reconnecting the Mega, it should be recognized as a "**USB-SERIAL CH340**" device (Windows).



The first script

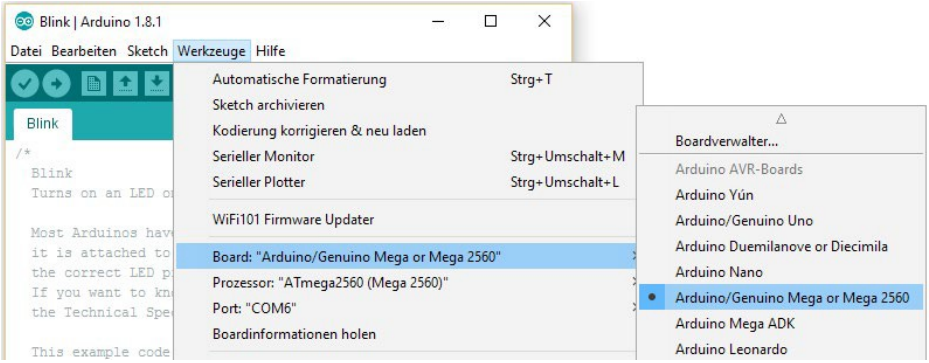
Although the first sign of success in most programming languages is the phrase: "Hello World!", for Arduino, the first sign of success is the blinking of the board's internal LED. In correspondence, the script is called "**Blink**".

» Start the Arduino IDE and open under "**Start**" the Blink-Script.



Each sketch always contains the "**setup**" and "**loop**" method. The "setup" method is initially executed and is typically used to initialize pins and separated hardware. The "loop" method is then permanently repeated, and thus contains almost all other functions.

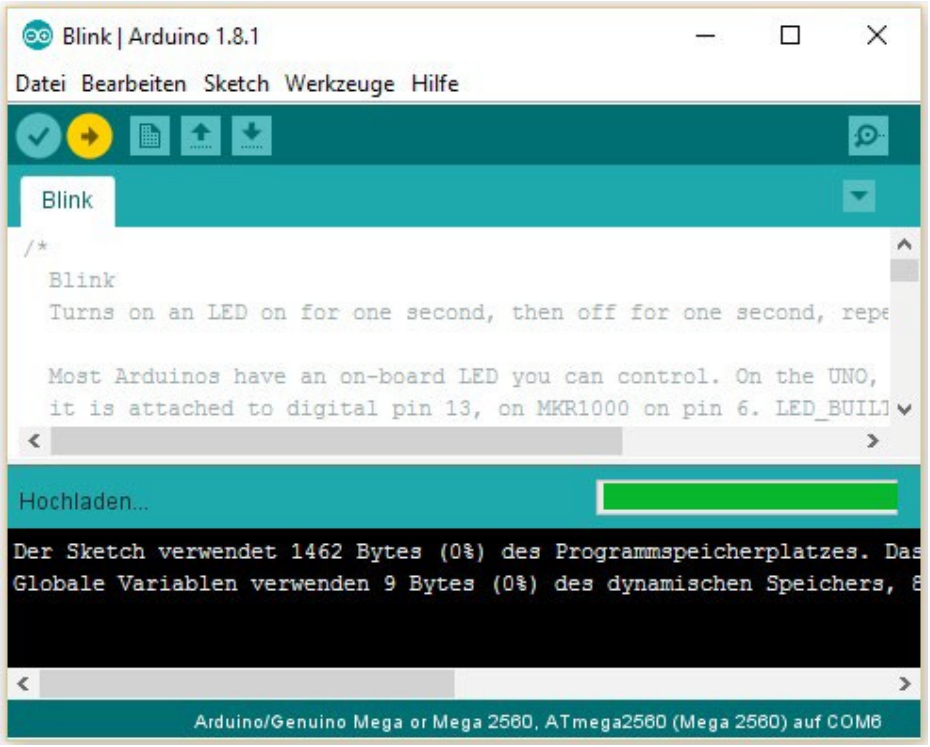
To load the sketch onto the board, select under "**Tools** > **Board**" your connected "**Arduino/Genuino Mega 2560**". Check if the correct processor "**Mega 2560**" is active. Finally, select the correct port, which is the "**COM**" port (for Windows) or "**ttyUSB**" port (for MacOS). If you have only one connected board, then only one would be available for selection.



With the second icon, under the command bar, you can load the sketch onto the Mega (image on the right).

If the upload was successful, then the LED of your Mega will start blinking every second.

You did it! Congratulations!



Now it is time to learn. You can do that with the help of the example scripts, on which you have already loaded the Blink, and other tutorials, which you can find on the internet. Here *https://www.arduino.cc/en/Tutorial/HomePage* you can begin your search.

And for more hardware, our online store is always at your disposal:

https://az-delivery.de

Enjoy!

Imprint

https://az-delivery.de/pages/about-us