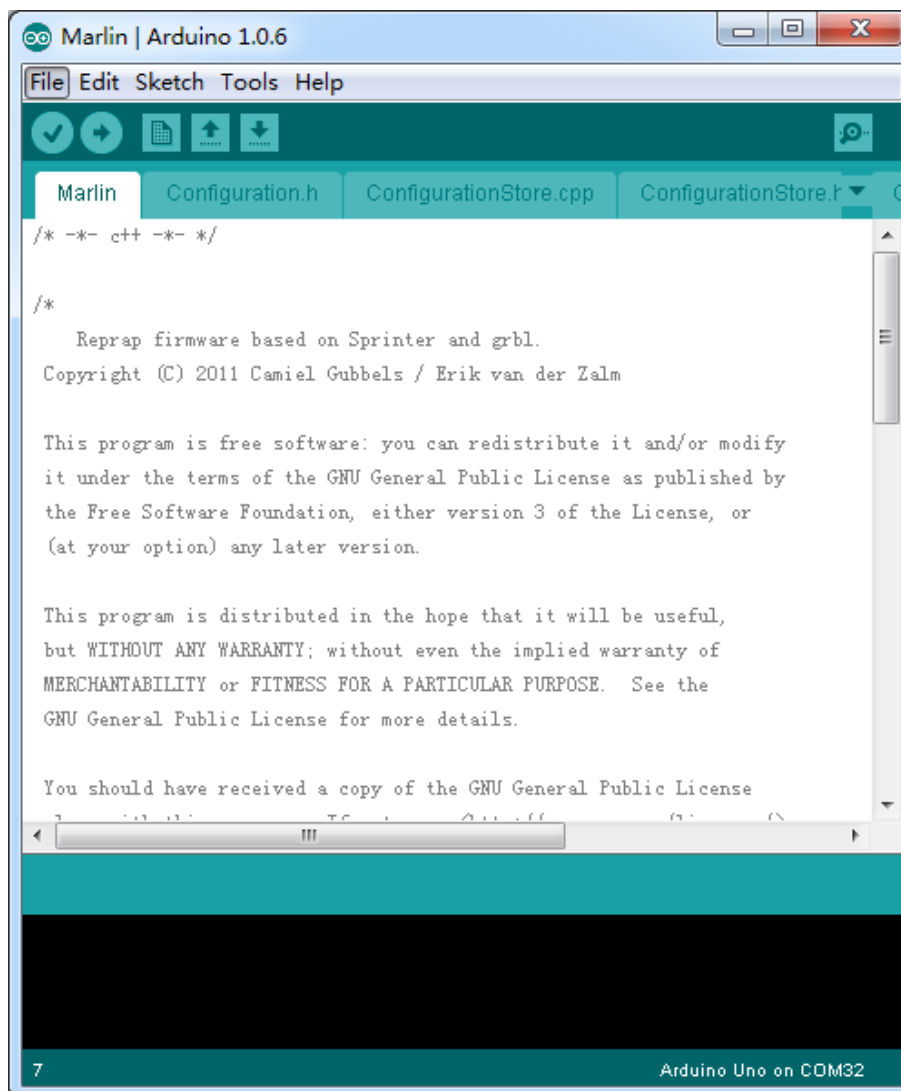


3. Upload the firmware



The screenshot shows the Arduino IDE interface with the Marlin firmware source code open. The window title is "Marlin | Arduino 1.0.6". The menu bar includes "File", "Edit", "Sketch", "Tools", and "Help". The toolbar contains icons for saving, running, and uploading. The file explorer shows "Marlin", "Configuration.h", "ConfigurationStore.cpp", and "ConfigurationStore.r". The code editor displays the following text:

```
/* -*- c++ -*- */  
  
/*  
   Reprap firmware based on Sprinter and grbl.  
   Copyright (C) 2011 Camiel Gubbels / Erik van der Zalm  
  
   This program is free software: you can redistribute it and/or modify  
   it under the terms of the GNU General Public License as published by  
   the Free Software Foundation, either version 3 of the License, or  
   (at your option) any later version.  
  
   This program is distributed in the hope that it will be useful,  
   but WITHOUT ANY WARRANTY; without even the implied warranty of  
   MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the  
   GNU General Public License for more details.  
  
   You should have received a copy of the GNU General Public License  
   along with this program. If not, see <http://www.gnu.org/licenses/>.  
*/
```

The status bar at the bottom left shows the page number "7" and the right side shows "Arduino Uno on COM32".

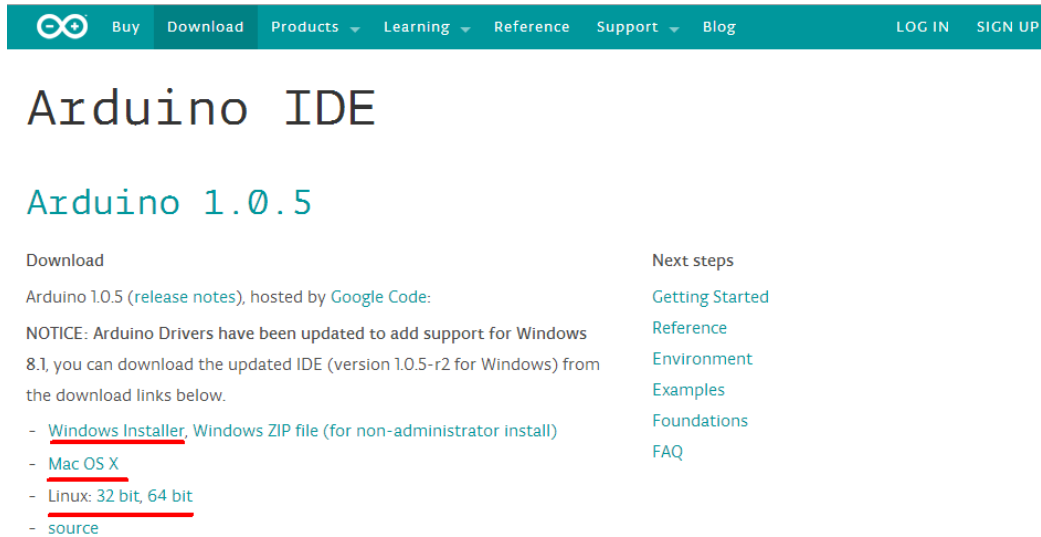
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3.1 Install Arduino IDE

Please download the Arduino software from Arduino official website and install it. (Download the version according your computer system)

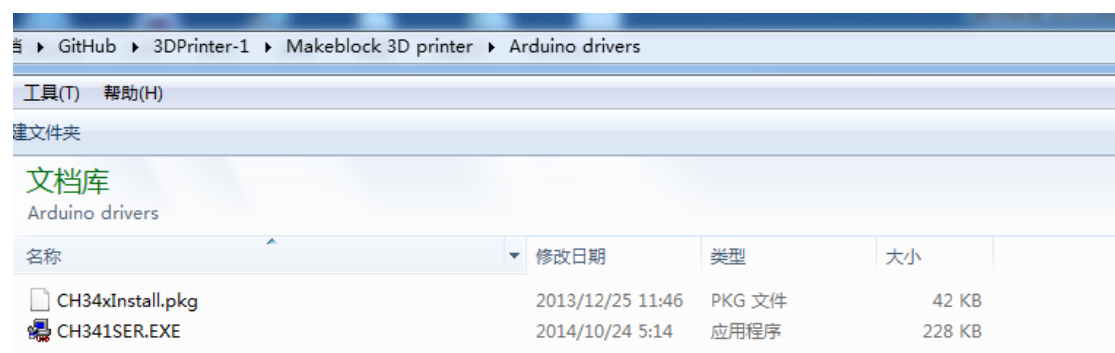
<http://arduino.cc/en/Main/Software>



The screenshot shows the Arduino IDE download page. At the top is a navigation bar with links for Buy, Download, Products, Learning, Reference, Support, and Blog, along with LOG IN and SIGN UP buttons. The main heading is "Arduino IDE" followed by "Arduino 1.0.5". Under "Download", it states "Arduino 1.0.5 (release notes), hosted by Google Code:" and includes a NOTICE about updated Windows support. A list of download links is provided: Windows Installer, Windows ZIP file (for non-administrator install), Mac OS X, Linux: 32 bit, 64 bit, and source. A "Next steps" sidebar lists links for Getting Started, Reference, Environment, Examples, Foundations, and FAQ.

3.2 Install Arduino Drivers

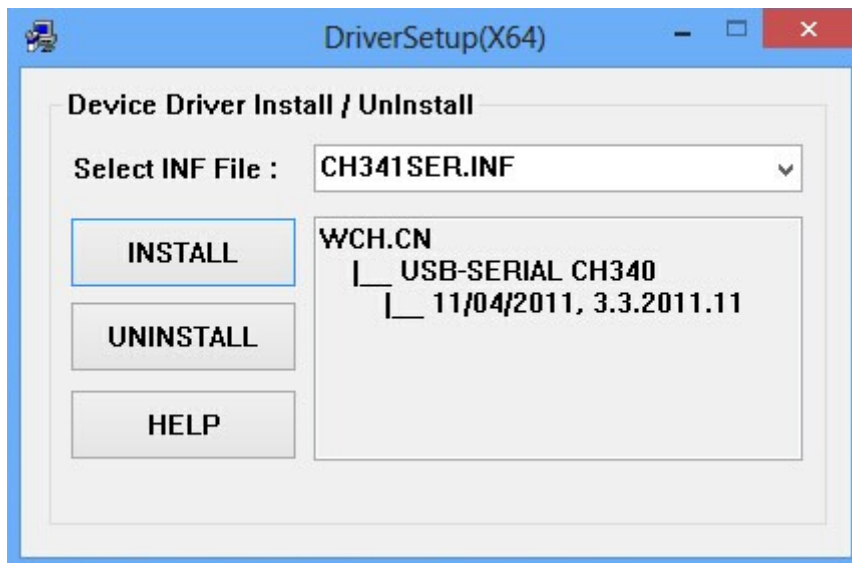
You can find Arduino drivers in folder "Arduino drivers"(Both Mac and Windows).



The screenshot shows a Windows file explorer window with the path: GitHub > 3DPrinter-1 > Makeblock 3D printer > Arduino drivers. The window title is "工具(T) 帮助(H)". Below the address bar, it says "建文件夹" and "文档库 Arduino drivers". A table lists the files in the folder:

名称	修改日期	类型	大小
CH34xInstall.pkg	2013/12/25 11:46	PKG 文件	42 KB
CH341SER.EXE	2014/10/24 5:14	应用程序	228 KB

double click the file "CH3415SER" and click "Install" button as the below picture



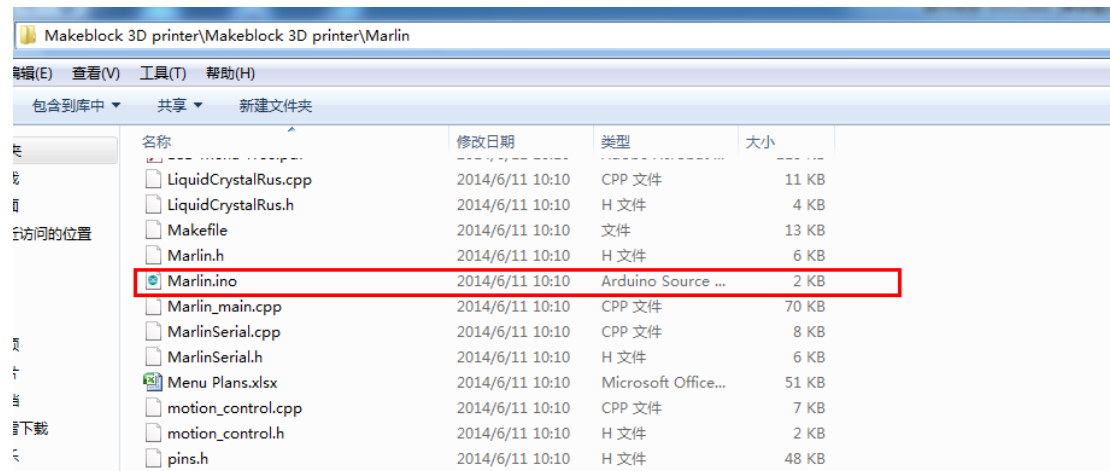
After seconds, the following window will popup the successful installation message, then click the "Confirm" button.



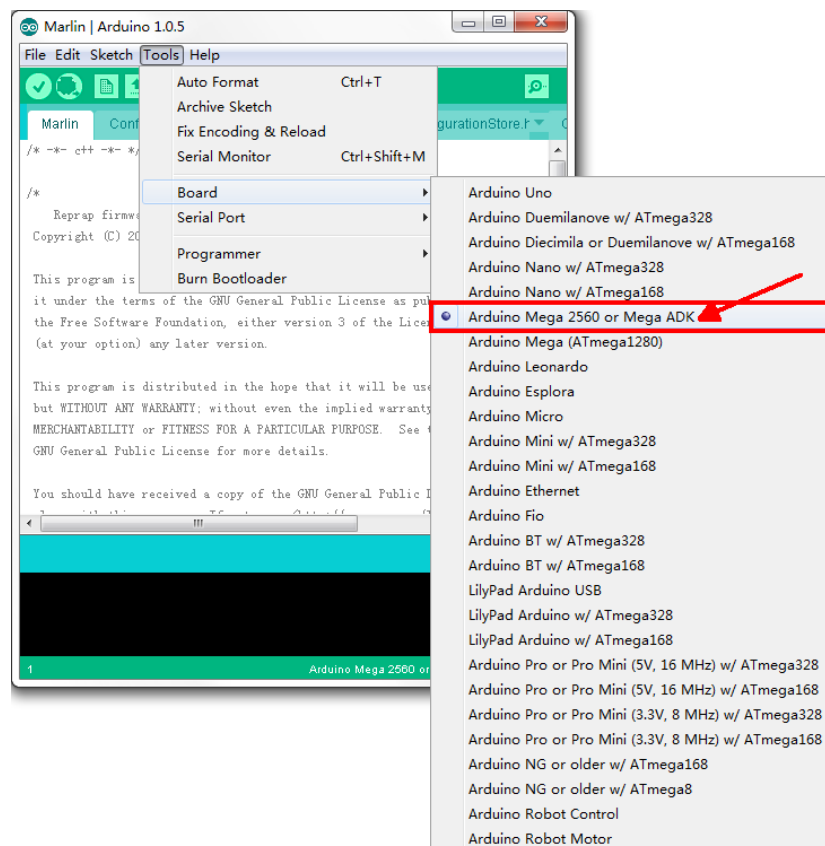
More details http://learn.makeblock.cc/driver_installation/,

3.3 Open the Marlin example

Navigate: Makeblock 3D printer->Marlin.ino

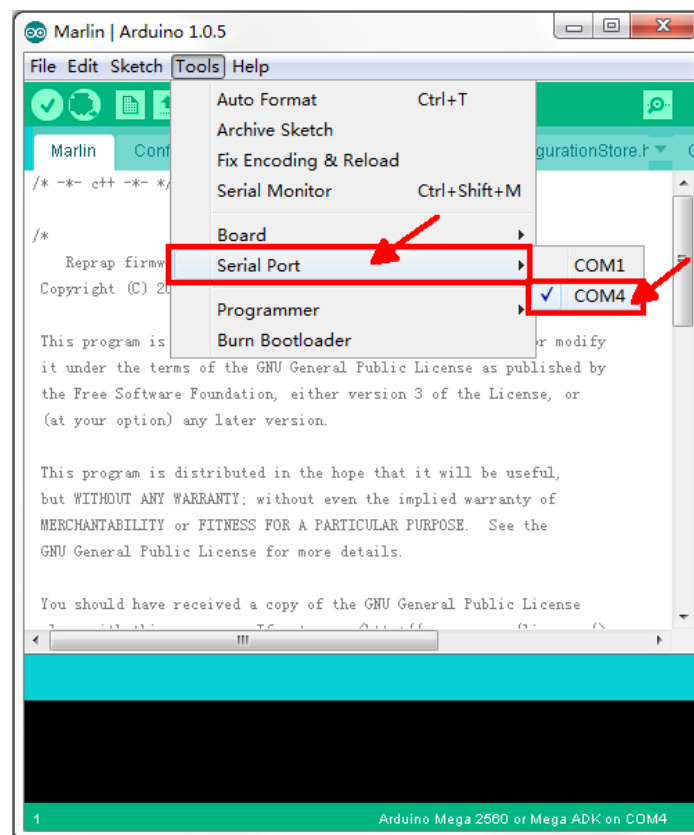


3.4 Select your board->Arduino Mega 2560 or Mega ADK



3.5 Select your serial port

Select the serial device of the Arduino board from the Tools | Serial Port menu. This is likely to be COM3 or higher (COM1 and COM2 are usually reserved for hardware serial ports). To find out, you can disconnect your Arduino board and re-open the menu; the entry that disappears should be the Arduino board. Reconnect the board and select that serial port.



3.6 Upload the program

Now, simply click the "Upload" button in the environment. Wait a few seconds - you should see the RX and TX leds on the board flashing. If the upload is successful, the message "Done uploading." will appear in the status bar.

