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the documentation at <u>http://www.arduing.or</u>	
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The boards are described below. The bootloader will blink the on-board (pin 13) LED when it starts (i.e. when the board resets). Libraries from .zip files.Add File... Equivalent to Arduino Pro or Pro Mini (3.3V, 8 MHz) w/ ATmega328P, 6 Analog In, 14 Digital I/O and 6 PWM. LilyPad Arduino USB An ATmega32u4 running at 8 MHz with auto-reset, 4 Analog In, 9 Digital I/O and 4 PWM.LilyPad Arduino Pro or Pro Mini (5V, 16 MHz) w/ ATmega328P An ATmega328P running at 16 MHz with auto-reset. Select your preferred language from the menu, and restart the software to use the selected language. On Linux, it should be /dev/ttyACMx , /dev/ttyUSBx or similar. The bottom righthand corner of the window displays the configured board and serial port. This will insert one or more #include statements at the top of the sketch and compile the library with your sketch. Allows to save the current sketch with a different name. Page Setup It shows the Page Setup window for printing. Print Sends the current sketch to the printer according to the settings defined in Page Setup. Preferences window where some settings of the IDE may be customized, as the language of the IDE interface. Quit Closes all IDE windows. The documents are a local copy of the online ones and may link back to our online website. Find in Reference This is the only interactive function of the Help menu: it directly selects the relevant page in the local copy of the Reference for the function or command under the cursor. Sketchbook The Arduino Software (IDE) uses the concept of a sketchbook: a standard place to store your programs (or sketches). The text will change to "Upload using Programmer" New Creates a new sketch. To use a library menu. The file is saved to the data subfolder of the sketch, which is intended for assets such as documentation. Has eight analog inputs.Arduino Mega 2560 An ATmega 2560 running at 16 MHz with auto-reset, 16 Analog In, 54 Digital I/O and 15 PWM.Arduino Mega An ATmega 2560 running at 16 MHz with auto-reset, 16 Analog In, 54 Digital I/O and 15 PWM.Arduino Mega An ATmega 2560 running at 16 MHz with auto-reset, 16 Analog In, 54 Digital I/O and 15 PWM.Arduino Mega An ATmega 2560 running at 16 MHz with auto-reset, 16 Analog In, 54 Digital I/O and 15 PWM.Arduino Mega An ATmega 2560 running at 16 MHz with auto-reset, 16 Analog In, 54 Digital I/O and 15 PWM.Arduino Mega An ATmega 2560 running at 16 MHz with auto-reset, 16 Analog In, 54 Digital I/O and 15 PWM.Arduino Mega An ATmega 2560 running at 16 MHz with auto-reset, 16 Analog In, 54 Digital I/O and 15 PWM.Arduino Mega An ATmega 2560 running at 16 MHz with auto-reset, 16 Analog In, 54 Digital I/O and 15 PWM.Arduino Mega An ATmega 2560 running at 16 MHz with auto-reset, 16 Analog In, 54 Digital I/O and 15 PWM.Arduino Mega An ATmega 2560 running at 16 MHz with auto-reset, 16 Analog In, 54 Digital I/O and 15 PWM.Arduino Mega An ATmega 2560 running at 16 MHz with auto-reset, 16 Analog In, 54 Digital I/O and 15 PWM.Arduino Mega An ATmega 2560 running at 16 MHz with auto-reset, 16 Analog In, 54 Digital I/O and 15 PWM.Arduino Mega An ATmega 2560 running at 16 MHz with auto-reset, 16 Analog In, 54 Digital I/O and 15 PWM.Arduino Mega An ATmega 2560 running at 16 MHz with auto-reset, 16 Analog In, 54 Digital I/O and 15 PWM.Arduino Mega An ATmega 2560 running at 16 MHz with auto-reset, 16 Analog In, 54 Digital I/O and 15 PWM.Arduino Mega An ATmega 2560 running at 16 MHz with auto-reset, 16 Analog In, 54 Digital I/O and 15 PWM.Arduino Mega An ATmega 2560 running at 16 MHz with auto-reset, 16 Analog In, 54 Digital I/O and 15 PWM.Arduino Mega An ATmega 2560 running at 16 MHz with auto-reset, 16 Analog In, 54 Digital I/O and 15 PWM.Arduino Mega An ATmega 2560 running at 16 MHz with auto-reset, 16 Analog In, 54 Digital I/O and 15 PWM.Arduino Mega An ATmega 2560 running at 16 MHz with auto-reset, 16 Analog In, PWM.Arduino Leonardo An ATmega32u4 running at 16 MHz with auto-reset, 12 Analog In, 20 Digital I/O and 7 PWM.Arduino Micro An ATmega32u4 running at 16 MHz with auto-reset, 12 Analog In, 20 Digital I/O and 7 PWM.Arduino Esplora An ATmega32u4 running at 16 MHz with auto-reset, 12 Analog In, 20 Digital I/O and 7 PWM.Arduino Micro An ATmega32u4 running at 16 MHz with auto-reset, 12 Analog In, 20 Digital I/O and 7 PWM.Arduino Esplora An ATmega32u4 running at 16 MHz with auto-reset, 12 Analog In, 20 Digital I/O and 7 PWM.Arduino Micro An ATmega32u4 running at 16 MHz with auto-reset, 12 Analog In, 20 Digital I/O and 7 PWM.Arduino Micro An ATmega32u4 running at 16 MHz with auto-reset, 12 Analog In, 20 Digital I/O and 7 PWM.Arduino Micro An ATmega32u4 running at 16 MHz with auto-reset, 12 Analog In, 20 Digital I/O and 7 PWM.Arduino Micro An ATmega32u4 running at 16 MHz with auto-reset, 12 Analog In, 20 Digital I/O and 7 PWM.Arduino Micro An ATmega32u4 running at 16 MHz with auto-reset, 12 Analog In, 20 Digital I/O and 7 PWM.Arduino Micro An ATmega32u4 running at 16 MHz with auto-reset, 12 Analog In, 20 Digital I/O and 7 PWM.Arduino Micro An ATmega32u4 running at 16 MHz with auto-reset, 12 Analog In, 20 Digital I/O and 7 PWM.Arduino Micro An ATmega32u4 running at 16 MHz with auto-reset, 12 Analog In, 20 Digital I/O and 7 PWM.Arduino Micro An ATmega32u4 running at 16 MHz with auto-reset, 12 Analog In, 20 Digital I/O and 7 PWM.Arduino Micro An ATmega32u4 running at 16 MHz with auto-reset, 12 Analog In, 20 Digital I/O and 7 PWM.Arduino Micro An ATmega32u4 running at 16 MHz with auto-reset, 12 Analog In, 20 Digital I/O and 7 PWM.Arduino Micro An ATmega32u4 running at 16 MHz with auto-reset, 12 Analog In, 20 Digital I/O and 7 PWM.Arduino Micro An ATmega32u4 running at 16 MHz with auto-reset, 12 Analog In, 20 Digital I/O and 7 PWM.Arduino Micro An ATmega32u4 running at 16 MHz with auto-reset, 12 Analog In, 20 Digital I/O and 7 PWM.Arduino Micro An ATmega32u4 running at 16 MHz with auto-reset, 12 Analog In, 20 Digital I/O and 7 at 16 MHz with auto-reset, 8 Analog In, 14 Digital I/O and 6 PWM.Arduino Ethernet Equivalent to Arduino UNO with an Ethernet shield: An ATmega328P running at 8 MHz with auto-reset. Previous versions use the .pde extension. This command also set the right fuses. HelpHere you find easy access to a number of documents that come with the Arduino Software (IDE). Some libraries are included with the Arduino software, it will automatically create a directory for your sketchbook. If your operating system language is not supported, the Arduino Software (IDE) will default to English. You can return the software to its default setting of selecting its language based on your operating system by selecting system by selecting System Default from the Editor Language based on your operating system by selecting system by selecting its language based on your operating system by selecting syst without using any additional hardware. The other file types are left as is.UploadingBefore uploading your sketch, you need to select the correct items from the Tools > Board and Tools > Port menus. However, it allows you to use the full capacity of the Flash memory for your sketch. The message area gives feedback while saving and exporting and also displays errors. The rest can be found in the preferences file, whose location is shown in the preference dialog. Language Support Since version 1.0.1, the Arduino Software (IDE) has been translated into 30+ different languages. Normally you won't need this, but if you're burning a bootloader to a new microcontroller, you will use this. Burn Bootloader The items in this menu allow you to burn a bootloader onto the microcontroller on an Arduino board. You can find a comparison table between the various boards in the following list, all based on the AVR Core. The sketches in your sketchbook can be opened from the File > Sketchbook menu or from the Open button on the toolbar. It should automatically refresh every time you open the top-level tools menu. Programmer For selecting a hardware programmer when programming a board or chip and not using the onboard USB-serial connection. The Arduino Software (IDE) will display a message when the upload is complete, or show an error. When you upload a sketch, you're using the Arduino bootloader, a small program that has been loaded on to the microcontroller on your board. Verify Checks your code for errors compiling it. Arduino programming language can be divided in three main parts: functions, values (variables and constants), and structure. The toolbar buttons allow you to verify and upload programs, create, open, and save sketches, and open the serial monitor.NB: Versions of the Arduino Software (IDE) prior to 1.0 saved sketches with the extension .pde. If a sketch no longer needs a library, simply delete its #include statements from the top of your code. There is a list of libraries in the

reference. Please note that the Serial Monitor does not process control characters; if your sketch needs a complete management of the serial communication with control characters; you can use an external terminal program and connect it to the COM port assigned to your Arduino board. You can also talk to the board from Processing, Flash, MaxMSP, etc (see the interfacing page for details). Preferences Some preferences can be set in the preferences dialog (found under the Arduino menu on the Mac, or File on Windows and Linux). The archive is placed in the same directory as the sketch. Fix Encoding & Reload Fixes possible discrepancies between the editor char map encoding and other operating systems char maps. Serial Monitor Opens the serial monitor window and initiates the exchange of data with any connected board on the currently selected Port. The contents of the data folder are not compiled, so they do not become part of the sketch program. Auto Format This formats your code nicely: i.e. indents it so that opening and closing curly braces line up, and that the statements inside curly braces are indented more. Archive Sketch Archives a copy of the current sketch in .zip format. See this tutorial. Third-Party library. To write your own library, see this tutorial. Third-party library. To write your own library hardware can be added to the hardware directory of your sketchbook directory. On most boards, you'll see the RX and TX LEDs blink as the sketch is uploaded. Once you've selected the correct serial port and board, press the upload button in the toolbar or select the Upload item from the Sketch menu. Adds a supplemental file to the sketch (it will be copied from its current location) Equivalent to Arduino Duemilanove or Nano w/ ATmega168 running at 16 MHzwithout auto-reset. On the Mac, the serial port is probably something like /dev/tty.usbmodem241 (for an UNO or Mega2560 or Leonardo) or /dev/tty.usbserial-1B1 (for a Duemilanove or earlier USB board), or /dev/tty.USA19QW1b1P1.1 (for a serial board connected with a Keyspan USB-to-Serial adapter). You may still open .pde named files in version 1.0 and later, the software will automatically rename the extension to .ino.Tabs, Multiple Files, and CompilationAllows you to manage sketches with more than one file (each of which appears in its own tab). It connects to the Arduino hardware to upload programs and communicate with them. Writing Sketches. Platforms installed there may include board definitions (which appear in the board menu), core libraries, bootloaders, and programmer definitions. Open Presents a menu of all the sketches in your sketchbook. To do so a Tools -> Burn Bootloader command must be executed. Export Compiled Binary Saves a .hex file that may be kept as archive or sent to the board using other tools. Show Sketch Folder. Include Library Adds a library to your sketch by inserting #include statements at the start of your code. Serial Monitor Opens the serial monitor. Additional commands are found within the five menus: File, Edit, Sketch, Tools, Help. See below for descriptions of the various boards. Port This menu contains all the serial devices (real or virtual) on your machine. Choose the baud rate from the dropdown menu that matches the rate passed to Serial.begin in your sketch. Some of the board definitions differ only in the latter, so even if you've been uploading successfully with a particular selection you'll want to check it before burning the bootloader. With older boards (pre-Diecimila) that lack auto-reset, you'll need to press the reset button on the board just before starting the upload. Save Saves your sketch. To install, create the hardware directory, then unzip the third-party platform into its own sub-directory. These can be normal Arduino code files (no visible extension), C files (.c extension), C++ files (.cpp), or header files (.h). Before compiling the sketch, all the normal Arduino code files of the sketch (.ino, .pde) are concatenated into a single file following the order the tabs are shown in. Please note that this command will NOT burn the fuses. Next to the Editor Language there is a dropdown menu of currently supported languages. Ensure that you've selected the correct board from the Boards menu before burning the bootloader on the target board. The editor has features for cutting/pasting and for searching/replacing text. On Windows, it's probably COM1 or COM2 (for a serial board) or COM4, COM5, COM7, or higher (for a USB board) - to find out, you look for USB serial device in the ports section of the Windows Device Manager. The Boards Manager included in the standard installation allows to add support for the growing number of new boards based on different cores like Arduino Zero, Edison, Galileo and so on. Arduino Zero, Edison, Galileo and Secondario Edison In, 20 Digital I/O and 7 PWM.Arduino Uno An ATmega328P running at 16 MHz with auto-reset. (6 Analog In, 14 Digital I/O and 6 PWM.Arduino Diecimila or Duemilanove w/ ATmega328P running at 16 MHz with auto-reset. (Don't use "arduino" as the sub-directory name or you'll override the built-in Arduino platform.) To uninstall, simply delete its directory. For details on creating packages for third-party hardware, see the Arduino Platform.) To uninstall, simply delete its directory. For details on creating packages for third-party hardware, see the Arduino Platform.) board resets; then it starts whichever sketch was most recently uploaded to the microcontroller. By default, the IDE loads in the language selected by your operating system. The same sketches open when Quit was chosen will be automatically reopened the next time you start the IDE.EditUndo/Redo Goes back of one or more steps you did while editing; when you go back, you may go forward with Redo.Cut Removes the selected text from the editor and places it into the clipboard.Copy for Forum Copies the code of your sketch to the clipboard in a form suitable for posting to the forum, complete with syntax coloring.Copy as HTML Copies the code of your sketch to the clipboard as HTML, suitable for embedding in web pages.Paste Puts the contents of the editor.Comment/Uncomment Puts or removes the // comment marker at the beginning of each selected line. Increase/Decrease Indent Adds or subtracts a space at the beginning of each selected line, moving the text one space on the right or eliminating a space at the beginning. Find Opens the Find and Replace window where you can specify text to search inside the current sketch according to several options. Find Next Highlights the next occurrence - if any - of the string specified as the search item in the Find window, relative to the cursor position. Sketch Verify/Compile Checks your sketch for errors compiling it; it will report memory usage for code and variables in the console area. Upload Compiles and loads the binary file onto the configured board through the configured board to use Tools > Burn Bootloader to restore it and be able to Upload to USB serial port again. To send data to the board, enter text and click on the "send" button or press enter. All the examples are structured in a tree that allows easy access by topic or library. Close Closes the instance of the Arduino Software from which it is clicked. Save Saves the sketch with the current name. See uploading below for details. Note: If you are using an external programmer with your board, you can hold down the "shift" key on your computer when using this icon. The menus are context sensitive, which means only those items relevant to the work currently being carried out are available. FileNew Creates a new instance of the editor, with the bare minimum structure of a sketch already in place. Open Allows to load a sketch file browsing through the computer drives and folders. Open Recent Provides a short list of the most recent sketches, ready to be opened. Sketchbook folder structure: clicking on any name opens the corresponding sketch in a new editor instance. Examples Any example provided by the Arduino Software (IDE) or library shows up in this menu item. Upload Compiles your code and uploads it to the configured board. The console displays text output by the Arduino Software (IDE), including complete error messages and other information. Compilation and upload is equivalent to Arduino Diecimila or Duemilanove w/ ATmega168, but the bootloader burned has a slower timeout (and blinks the pin 13 LED three times on reset); 6 Analog In, 14 Digital I/O and 6 PWM.Arduino Robot Control An ATmega328P running at 16 MHz with auto-reset.Arduino Robot Control An ATmega328P running at 16 MHz with auto-reset. In, 3 Digital I/O and 2 PWM. For instructions on installing support for other boards, see third-party hardware above. Note that on Windows, Mac or Linux, this is determined by the locale setting which controls currency and date formats, not by the language the operating system is displayed in.) If you would like to change the language manually, start the Arduino IDE v1 works, such as compiling & uploading sketches, file management, installing dependencies and much more. The Arduino Integrated Development Environment - or Arduino Software (IDE) - contains a text editor for writing code, a message area, a text console, a toolbar with buttons for common functions and a series of menus. If the file hasn't been named before, a name will be provided in a "Save as..." window.Save as... It is possible to open these files with version 1.0, you will be prompted to save the sketch with the .ino extension on save. Current Arduino boards will reset automatically and begin the upload. This setting will take effect when you restart the Arduino Software (IDE). Others can be downloaded from a variety of sources or through the Library Manager. You can view or change the location of the sketchbook location from with the Preferences dialog. Beginning with version 1.0, files are saved with a .ino file extension. Clicking one will open it within the current window overwriting its content. Note: due to a bug in Java, this menu doesn't scroll; if you need to open a sketch late in the list, use the File | Sketchbook menu instead. Similarly, after changing your operating system's settings, you must restart the Arduino Software (IDE) to update it to the new default language. Boards The board selection has two effects: it sets the parameters (e.g. CPU speed and baud rate) used when compiling and uploading sketches; and sets and the file and fuse settings used by the burn bootloader command These sketches are written in the text editor and are saved with the file extension .ino. This is not required for normal use of an Arduino board but is useful if you purchase a new ATmega microcontroller (which normally come without a bootloader). You have access to Getting Started, Reference, this guide to the IDE and other documents locally. without an internet connection. This usually resets the board, if the board supports Reset over serial port opening. Board Select the board that you're using. For more details, see libraries below.

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