

I'm not a bot



PlatformIO Labs is dedicated to delivering the most advanced and innovative embedded development solutions on the market. With PlatformIO IDE, developers can take their embedded software development to the next level and achieve maximum productivity and efficiency. We are excited to announce a new major release of PlatformIO IDE 3.0 for Microsoft Visual Studio Code (VSCode) and provide embedded software developers with an advanced development environment that meets their evolving needs and demands. The new version of the IDE is built on the latest technology, delivering an enhanced user experience, improved performance and expanded functionality compared to previous versions. There's a lot going on with this release, so we've prepared this special post with lots of details about new features and enhancements that provide a powerful and unique functionality, opening up new opportunities for developers to build highly sophisticated embedded applications. Table of ContentsWhat is NewPlatformIO IDE 3.0 for VSCode has something new for every developer. In this section, we are going to highlight the most important changes and features introduced in the latest release. Please visit PlatformIO IDE for VSCode Release Notes for more detailed information. Onboarding with "Walkthroughs" First impressions are crucial. That's why we prepared an informative Walkthrough page to help developers understand the PlatformIO ecosystem and features of the PlatformIO IDE extension via a comprehensive multi-step checklist. We hope that this improvement will significantly simplify the onboarding process when developers install PlatformIO IDE 3.0 for the first time. Demo! PlatformIO IDE for VSCode is already installed, please open Walkthroughs via Menu: Help > Get Started > Walkthroughs > More... Project ManagementIntelliSense for "platformio.ini" Each PlatformIO project contains a highly customizable configuration file that provides tens of handy options that sometimes can be hard to remember. Even though developers can always consult PlatformIO documentation, it would be much more productive if all necessary information and hints were available without leaving the development environment. That's why PlatformIO IDE 3.0 for VSCode finally brings the long-awaited IntelliSense support for the platformio.ini configuration file with the following features:Auto-completion for configuration optionsAuto-completion for choice-based option valuesHover over an option and get a quick documentationRealtime serial port auto-completion for port-related optionsQuickly jump to a development platform or library located in the PlatformIO Registry.Demo Unit Testing! UploadPlatformIO Unit Testing allows developers to separate independent parts of the firmware/program and test that individual parts in isolation to make sure they are working correctly. The new PlatformIO IDE 3.0 brings a seamless integration of the PlatformIO Unit Testing solution and VSCode Testing UI so that developers now have a single unified view of their testing results. Once you add tests to your project, a test beaker icon will be displayed on the VS Code Activity bar. The beaker icon is for the Test Explorer view. When you open the Test Explorer, you will see a list of test suites where you can manage project tests:Filter test suitesRun selected test suitesJump to a failed test case.DemoHere is a demonstration of a simple calculator example based on the Unity Testing Framework: Port SwitcherProject Port Switcher was one of the most requested feature by our community. We love to implement slight improvements to simplify lives of our users and bring better developer experience. Now it is possible to override the "upload", "monitor" or "test" ports without any changes to the platformio.ini configuration file. You can now pass your custom value to the ports such as IP address for OTA, media disk, or even a network wildcard pattern. Note that the overridden port changed via the new switcher has higher priority over Platform ports configured in the platformio.ini configuration file. Demo Custom PlatformIO ToolbarCustom PlatformIO toolbar has the same priorities as the make PlatformIO IDE more personalized and flexible so that developers can customize their development environment and hence significantly increase their programming productivity. PlatformIO IDE 3.0 for VSCode allows developers to configure their own custom platformio.ide.toolbar configuration option. Now they can declare their own buttons and attach arbitrary commands to them. They can use Built-in VSCode Commands or commands from any of their favorite 3rd party extensions. The button can be text, an icon, or even a mix of them. The list of supported icons is documented in the VSCode Icon Listing. Developers can also have different toolbars per workspace thanks to the User and Workspace Settings.DemoBelow is the overridden toolbar with custom buttons: UpgradeRequires VSCode 1.65 or abovePlease navigate to "VSCode > View > Extensions" and click "Update". Stay in touch with usStay tuned to this blog or follow us on LinkedIn and Twitter @PlatformIO Org to keep up to date with the latest news, articles and tips! If you've ever used the Arduino IDE for your ESP32 projects, you know it gets the job done, but it has limitations. From a basic text editor with minimal autocomplete to poor project organization, the Arduino IDE can quickly feel outdated and restrictive. That's where PlatformIO in Visual Studio comes in. In this beginner-friendly guide, I'll show you how to program your ESP32 using PlatformIO inside VS Code. This modern development environment brings useful tools like intelligent code completion, proper syntax highlighting, and a lot more! While the Arduino IDE is great for getting started, you will encounter several limitations when diving deeper into embedded development. For instance, the Arduino IDE doesn't offer an auto-completion feature that would make programming way faster. On PlatformIO with VS Code, when typing "dig", a proper autocomplete would already suggest the function "digitalWrite()". Also, it will show you information, like the parameters of the function and its return type. That's only one of many advantages PlatformIO has over the Arduino IDE. Here's a list of the most important advantages: Supports multiple frameworks (e.g., Arduino, ESP-IDF), Advanced debugging and testing tools (pid pin) Intelligent auto-completion Proper syntax highlighting User-friendly explorer with tabs for deviated code navigation Modern and feature-rich development environment with Visual Studio Code... If you haven't already, download and install Visual Studio Code from Microsoft. It's a lightweight, open-source, and powerful code editor available for Windows, macOS, and Linux. Head to the official download page and download the installer for your operating system. Then run it and follow the instructions there. Start Visual Studio Code and click the extensions button (4 blocks) on the left. Next, search for PlatformIO in the search bar and install the PlatformIO IDE extension by hitting install. This process might take a few minutes, so don't worry. When it's finished, there will be a message in the bottom right corner. As soon as you see this message, restart VS Code. After the restart, there should be an alien icon under the extensions button on the left. That's your PlatformIO home button. If you click on it, you are greeted with the PlatformIO Home tab, where you can open and create projects, see your recent projects, some news, along with other information. If you don't see the home tab when clicking the PlatformIO home button, click on the PlatformIO button again and then QUICK ACCESS > PIO Home > Open. Let's create a new ESP32 project inside PlatformIO! To do so, hit "New Project" in your PlatformIO home view. Next, you can enter a name for your project, select your board, and a Framework. After selecting an ESP32 board, you can choose between the Arduino and the ESP-IDF framework. In this tutorial, we will be using the Arduino framework, as that's what most developers are familiar with coming from the Arduino IDE. After hitting finish, your new project will be created. Because this is the first time you create a project, PlatformIO needs to download the toolbar required for your board type and framework. Hence, this process takes a while. Now that your first project is created, we can get into writing the first code. Probably, the first thing you see is a file called platformio.ini. We will cover that later on. Additionally, there's a project explorer tab on the left, which shows multiple folders, a .gitignore file, and the platformio.ini file. The folders that are the most important to us are the lib folder and the src folder. The lib folder is where our main source code will go, just like you may know it from the Arduino IDE. The src folder, on the other hand, is where we put our own libraries. For instance, if we've written a library called LEDController, we create a folder inside lib called LEDController, and place the header and cpp file there. These libraries can be accessed in the source code like any other libraries you might include. For example, #include For more details, read the README file inside lib. To start writing a simple test program, open the src folder. Probably, there already is a file called main.cpp filled with some other example code. Feel free to remove all of that and write your own blink sketch, like you would in the Arduino IDE. You can also use this one: #include const int LED = 2; void setup() { pinMode(LED, OUTPUT); } void loop() { digitalWrite(LED, HIGH); delay(250); digitalWrite(LED, LOW); delay(250); } Always make sure to include Arduino.h at the top to make use of the Arduino framework! In addition, your source code files are now regular .cpp files, not .ino files like they were used in the Arduino IDE. Last but not least, we need to upload the program to our ESP32. Before we can do that, however, we must specify the COM port for uploading and reading the serial monitor. That's where the platformio.ini file comes in. Inside it, you need to specify the upload port and monitor port as follows: upload port = COM4 monitor port = COM4 On Linux, the ports are specified differently: upload port = /dev/ttyUSB* monitor port = /dev/ttyUSB* The asterisk (*) means that the first port matching the preceding expression will be used. This also works on Windows with COM*. Hint: You can also specify an IP address as the upload port for OTA (Over-The-Air) programming. Additionally, you can specify the baud rate for the serial monitor with the following line inside platformio.ini: After all of that has been set up, we can now upload the program via the little arrow button located at the bottom of the VS Code window. One of PlatformIO's strengths is how easy it makes it to manage libraries. Because PlatformIO lists all the libraries used in a project in the platformio.ini file, sharing your project or working on it from different computers doesn't require you to collect and install all the libraries manually again. Instead, it will automatically download all the required libraries for the project. PlatformIO has its own library manager, where you can search for libraries and add them to your project. You can access the library manager from your PlatformIO Home tab, where you can search for the library you need. If you click on it, you have the option to directly add it to your project. Always make sure that your board is supported by the library though. Instead of using the "Add to Project" button from the library manager, you can manually add libraries in the platformio.ini file. This way, you can also add libraries from GitHub that are not listed in the library manager. Open the platformio.ini file and add the libraries by their name from the library manager or the GitHub link as follows: lib_deps = TensorFlowLite ESP32@1.0.0 You can also specify the version of a library using the @ symbol followed by the version number. Note that for using libraries from GitHub, you need to have Git installed on your computer. Accessing the Serial Monitor on PlatformIO is very easy. Just click on the little plug icon located at the bottom of your VS Code window. Upload Failed? Make sure the right COM port is selected and no other app is using the port. Also, if your board doesn't automatically switch into upload mode, press the BOOT button on your board while uploading. Board not recognized? You might need to install the USB drivers for your ESP32 board. PlatformIO is a fantastic tool for programming the ESP32 in a professional development environment. Once you get used to it, you'll never want to go back! Have questions or run into issues? Drop a comment below or reach out through the contact page! Thanks for reading, happy coding! Links marked with an asterisk (*) are affiliate links which means we may receive a commission for purchases made through these links at no extra cost to you. Read more on our Affiliate Disclosure Page. PlatformIO: Your Gateway to Embedded Software Development Excellence. Unlock the true potential of embedded software development with PlatformIO's collaborative ecosystem, embracing data-driven principles, test-driven methodologies, and modern toolchains for unparalleled success. Open source, maximizing the permissive Apache 2.0 license, Cross-platform IDE and Unified Debugger, Static Code Analyzer and Remote Unit Testing, Multi-platform and Multi-architecture Build System, Firmware File Explorer and Memory Inspector, Platform: Atmel AVR, Atmel SAM, Expressif 8266, Expressif K210, Freescale Kinetis, Infineon XMC, Intel ARC32, Intel MCS-51 (8051), Lattice iCE40, Maxim 32, Microchip PIC32, Nordic nRF52, Nordic nRF53, Nordic nRF54, RISC-V, Silicon Labs EFM32, ST STM32, ST STM8, Teensy, TI MSP430, TI Tiva, WIZNET W7500 Frameworks: Arduino, CMSIS, ESP-IDF, ESP8266 RTOS SDK, Freedom E SDK, Kendryte Standalone SDK, Kendryte FreeRTOS SDK, libOpenCM3, mbed, PULP OS, SPL, STM32Cube, WiringPi, Zephyr RTOS Features: Cross-platform code builder without external dependencies to a system software: 1000+ embedded boards 40+ development platforms 20+ frameworks Debugging Unit Testing Static Code Analysis Remote Development C/C++ Intelligent Code Completion C/C++ Smart Code Linter for rapid professional development Library Manager for the thousands of popular libraries Multi-projects workflow with multiple panes Themes support with dark and light colors Serial Port Monitor Built-in Terminal with PlatformIO Core tool (pio, platformio) How it works !!! PLEASE READ "QUICK START" AND "USER GUIDE" BEFORE !!! Installation Quick Start User Guide Please follow to the official documentation PlatformIO IDE for VSCode. License Copyright (C) 2017-present PlatformIO contact@platformio.org The PlatformIO IDE for VSCode is licensed under the permissive Apache 2.0 license, so you can use it in both commercial and personal projects with confidence. Share — copy and redistribute the material in any medium or format for any purpose, even commercially. Adapt — remix, transform, and build upon the material for any purpose, even commercially. The licensor cannot revoke these freedoms as long as you follow the license terms. Attribution — You must give appropriate credit, provide a link to the license, and indicate if changes were made. You may do so in any reasonable manner, but not in any way that suggests the licensor endorses you or your use. ShareAlike — If you remix, transform, or build upon the material, you must share your creations under the same license as the original. No additional restrictions. You may not apply legal terms or technological measures that legally restrict others from doing anything the license permits. You do not have to comply with the license for elements of the material in the public domain or where your use is permitted by an applicable exception or limitation. No warranties are given. The license may not give you all of the permissions necessary for your intended use. For example, other rights such as publicity, privacy, or other rights may limit how you use the material. In this tutorial, we will learn to program ESP32 and ESP8266 boards with VS code by using the PlatformIO extension available in visual studio code. As we have seen in previous tutorials, we have learned to program ESP32 and ESP8266 boards using various IDEs. Previously we looked upon Thonny IDE and uPyCraft IDE when programming our ESP boards using MicroPython. You can refer to them here: Getting Started with Thonny MicroPython IDE for ESP32 and ESP8266Getting Started with uPyCraft IDE MicroPython on ESP32 and ESP8266We also introduced our readers to the Pymark extension in VS Code and dedicated a separate article on how to use VS Code with the Pymark plugin. You can access it here. But through this user guide, we will look upon how to use Visual Studio Code (VS Code) to program our ESP32/ESP8266 development boards using PlatformIO instead. VS Code is a source code editor designed for Windows, macOS, and Linux which is used in building and debugging applications. PlatformIO IDE enhances the programming experience in VS Code and makes it very interactive and high level. To successfully implement the above-mentioned points, the following steps will be performed in this guide: Installing the VS Code Editor Installing the PlatformIO extension in VS Code Connecting our ESP32 and ESP8266 boards with the IDE Creating a simple LED blinking project in our ESP boards with VS Code and PlatformIO Before we start the installation of the PlatformIO IDE, make sure you have the latest version of Python 3.7 or the latest installed on your windows/boards. If you don't have the python 3 packages installed on your Windows, follow these steps to install one: First of all, go to this link here and download the latest version of Python 3.7. After downloading the python 3.7, click on the "Run the installer" button. After the download is completed, click on the "Install" button. The following options will be asked. Make sure to click "Add Python 3.7 to the PATH" button. After a few moments, the installation will be completed. To install Python in MacOS, execute the following commands one by one in terminal: \$ brew install python3 To install Python in Linux, run the following commands in terminal: \$ sudo apt install python3 To check which version of Python is installed and if it is installed successfully, run the following command: python3 --version To download and install the visual code editor IDE, click here. This will open the window as shown below. Click on the "Download for Windows" button which is shown in the red rectangular box. You can choose your system bit by clicking on the drop-down arrow. If you are using another operating system example Linux or macOS then click the "Download" button in the top right corner. A few moments later, after specifying the directory your download will start. After opening the setup. exe file you will see the window asking for your agreement. Click "I accept the agreement" and then go to the "Next" button. Then, choose your desired location to install the editor by specifying it as shown below. After clicking "Next", choose any additional tasks you want to add. Then, click on the "Install" button. You can view all the features we ticked along the way in the red rectangular box above. After the installation is completed, click "Finish" to launch the application. The following "Getting Started-Visual Studio Code" window will open up indicating a successful installation. To install VS Code in your macOS X click here. This will open a window containing various download options. Go to the download option for Mac and choose the .zip file according to your machine type. After downloading the setup file, the following pop-up appears. Click on "Open" to launch the editor. Alternatively, you can also open the editor through the Downloads folder. You will receive the following welcome page in VS Code initiating a successful installation in macOS X. To install VS Code in your Linux Operating system, click here. This will open a window containing various download options. Go to the download option for Linux and choose the .tar.gz file according to your machine type. After downloading the setup file, the following pop-up appears. Click on "Open" to launch the editor. Alternatively, you can also open the editor through the Downloads folder. You will receive the following welcome page in VS Code initiating a successful installation in Linux. To install VS Code in your Windows Operating system, click here. This will open a window containing various download options. Go to the download option for Windows and choose the .exe file according to your machine type. After downloading the setup file, the following pop-up appears. Click on "Open" to launch the editor. Alternatively, you can also open the editor through the Downloads folder. You will receive the following welcome page in VS Code initiating a successful installation in Windows. To install VS Code in your macOS X click here. This will open a window containing various download options. Go to the download option for Mac and choose the .zip file according to your machine type. After downloading the setup file, the following pop-up appears. Click on "Open" to launch the editor. Alternatively, you can also open the editor through the Downloads folder. You will receive the following welcome page in VS Code initiating a successful installation in macOS X. To install VS Code in your Linux Operating system, click here. This will open a window containing various download options. Go to the download option for Linux and choose the .tar.gz file according to your machine type. After downloading the setup file, the following pop-up appears. Click on "Open" to launch the editor. Alternatively, you can also open the editor through the Downloads folder. You will receive the following welcome page in VS Code initiating a successful installation in Linux. To install VS Code in your Windows Operating system, click here. This will open a window containing various download options. Go to the download option for Windows and choose the .exe file according to your machine type. After downloading the setup file, the following pop-up appears. Click on "Open" to launch the editor. Alternatively, you can also open the editor through the Downloads folder. You will receive the following welcome page in VS Code initiating a successful installation in Windows. To install VS Code in your macOS X click here. This will open a window containing various download options. Go to the download option for Mac and choose the .zip file according to your machine type. After downloading the setup file, the following pop-up appears. Click on "Open" to launch the editor. Alternatively, you can also open the editor through the Downloads folder. You will receive the following welcome page in VS Code initiating a successful installation in macOS X. To install VS Code in your Linux Operating system, click here. This will open a window containing various download options. Go to the download option for Linux and choose the .tar.gz file according to your machine type. After downloading the setup file, the following pop-up appears. Click on "Open" to launch the editor. Alternatively, you can also open the editor through the Downloads folder. You will receive the following welcome page in VS Code initiating a successful installation in Linux. To install VS Code in your Windows Operating system, click here. This will open a window containing various download options. Go to the download option for Windows and choose the .exe file according to your machine type. After downloading the setup file, the following pop-up appears. Click on "Open" to launch the editor. Alternatively, you can also open the editor through the Downloads folder. You will receive the following welcome page in VS Code initiating a successful installation in Windows. To install VS Code in your macOS X click here. This will open a window containing various download options. Go to the download option for Mac and choose the .zip file according to your machine type. After downloading the setup file, the following pop-up appears. Click on "Open" to launch the editor. Alternatively, you can also open the editor through the Downloads folder. You will receive the following welcome page in VS Code initiating a successful installation in macOS X. To install VS Code in your Linux Operating system, click here. This will open a window containing various download options. Go to the download option for Linux and choose the .tar.gz file according to your machine type. After downloading the setup file, the following pop-up appears. Click on "Open" to launch the editor. Alternatively, you can also open the editor through the Downloads folder. You will receive the following welcome page in VS Code initiating a successful installation in Linux. To install VS Code in your Windows Operating system, click here. This will open a window containing various download options. Go to the download option for Windows and choose the .exe file according to your machine type. After downloading the setup file, the following pop-up appears. Click on "Open" to launch the editor. Alternatively, you can also open the editor through the Downloads folder. You will receive the following welcome page in VS Code initiating a successful installation in Windows. To install VS Code in your macOS X click here. This will open a window containing various download options. Go to the download option for Mac and choose the .zip file according to your machine type. After downloading the setup file, the following pop-up appears. Click on "Open" to launch the editor. Alternatively, you can also open the editor through the Downloads folder. You will receive the following welcome page in VS Code initiating a successful installation in macOS X. To install VS Code in your Linux Operating system, click here. This will open a window containing various download options. Go to the download option for Linux and choose the .tar.gz file according to your machine type. After downloading the setup file, the following pop-up appears. Click on "Open" to launch the editor. Alternatively, you can also open the editor through the Downloads folder. You will receive the following welcome page in VS Code initiating a successful installation in Linux. To install VS Code in your Windows Operating system, click here. This will open a window containing various download options. Go to the download option for Windows and choose the .exe file according to your machine type. After downloading the setup file, the following pop-up appears. Click on "Open" to launch the editor. Alternatively, you can also open the editor through the Downloads folder. You will receive the following welcome page in VS Code initiating a successful installation in Windows. To install VS Code in your macOS X click here. This will open a window containing various download options. Go to the download option for Mac and choose the .zip file according to your machine type. After downloading the setup file, the following pop-up appears. Click on "Open" to launch the editor. Alternatively, you can also open the editor through the Downloads folder. You will receive the following welcome page in VS Code initiating a successful installation in macOS X. To install VS Code in your Linux Operating system, click here. This will open a window containing various download options. Go to the download option for Linux and choose the .tar.gz file according to your machine type. After downloading the setup file, the following pop-up appears. Click on "Open" to launch the editor. Alternatively, you can also open the editor through the Downloads folder. You will receive the following welcome page in VS Code initiating a successful installation in Linux. To install VS Code in your Windows Operating system, click here. This will open a window containing various download options. Go to the download option for Windows and choose the .exe file according to your machine type. After downloading the setup file, the following pop-up appears. Click on "Open" to launch the editor. Alternatively, you can also open the editor through the Downloads folder. You will receive the following welcome page in VS Code initiating a successful installation in Windows. To install VS Code in your macOS X click here. This will open a window containing various download options. Go to the download option for Mac and choose the .zip file according to your machine type. After downloading the setup file, the following pop-up appears. Click on "Open" to launch the editor. Alternatively, you can also open the editor through the Downloads folder. You will receive the following welcome page in VS Code initiating a successful installation in macOS X. To install VS Code in your Linux Operating system, click here. This will open a window containing various download options. Go to the download option for Linux and choose the .tar.gz file according to your machine type. After downloading the setup file, the following pop-up appears. Click on "Open" to launch the editor. Alternatively, you can also open the editor through the Downloads folder. You will receive the following welcome page in VS Code initiating a successful installation in Linux. To install VS Code in your Windows Operating system, click here. This will open a window containing various download options. Go to the download option for Windows and choose the .exe file according to your machine type. After downloading the setup file, the following pop-up appears. Click on "Open" to launch the editor. Alternatively, you can also open the editor through the Downloads folder. You will receive the following welcome page in VS Code initiating a successful installation in Windows. To install VS Code in your macOS X click here. This will open a window containing various download options. Go to the download option for Mac and choose the .zip file according to your machine type. After downloading the setup file, the following pop-up appears. Click on "Open" to launch the editor. Alternatively, you can also open the editor through the Downloads folder. You will receive the following welcome page in VS Code initiating a successful installation in macOS X. To install VS Code in your Linux Operating system, click here. This will open a window containing various download options. Go to the download option for Linux and choose the .tar.gz file according to your machine type. After downloading the setup file, the following pop-up appears. Click on "Open" to launch the editor. Alternatively, you can also open the editor through the Downloads folder. You will receive the following welcome page in VS Code initiating a successful installation in Linux. To install VS Code in your Windows Operating system, click here. This will open a window containing various download options. Go to the download option for Windows and choose the .exe file according to your machine type. After downloading the setup file, the following pop-up appears. Click on "Open" to launch the editor. Alternatively, you can also open the editor through the Downloads folder. You will receive the following welcome page in VS Code initiating a successful installation in Windows. To install VS Code in your macOS X click here. This will open a window containing various download options. Go to the download option for Mac and choose the .zip file according to your machine type. After downloading the setup file, the following pop-up appears. Click on "Open" to launch the editor. Alternatively, you can also open the editor through the Downloads folder. You will receive the following welcome page in VS Code initiating a successful installation in macOS X. To install VS Code in your Linux Operating system, click here. This will open a window containing various download options. Go to the download option for Linux and choose the .tar.gz file according to your machine type. After downloading the setup file, the following pop-up appears. Click on "Open" to launch the editor. Alternatively, you can also open the editor through the Downloads folder. You will receive the following welcome page in VS Code initiating a successful installation in Linux. To install VS Code in your Windows Operating system, click here. This will open a window containing various download options. Go to the download option for Windows and choose the .exe file according to your machine type. After downloading the setup file, the following pop-up appears. Click on "Open" to launch the editor. Alternatively, you can also open the editor through the Downloads folder. You will receive the following welcome page in VS Code initiating a successful installation in Windows. To install VS Code in your macOS X click here. This will open a window containing various download options. Go to the download option for Mac and choose the .zip file according to your machine type. After downloading the setup file, the following pop-up appears. Click on "Open" to launch the editor. Alternatively, you can also open the editor through the Downloads folder. You will receive the following welcome page in VS Code initiating a successful installation in macOS X. To install VS Code in your Linux Operating system, click here. This will open a window containing various download options. Go to the download option for Linux and choose the .tar.gz file according to your machine type. After downloading the setup file, the following pop-up appears. Click on "Open" to launch the editor. Alternatively, you can also open the editor through the Downloads folder. You will receive the following welcome page in VS Code initiating a successful installation in Linux. To install VS Code in your Windows Operating system, click here. This will open a window containing various download options. Go to the download option for Windows and choose the .exe file according to your machine type. After downloading the setup file, the following pop-up appears. Click on "Open" to launch the editor. Alternatively, you can also open the editor through the Downloads folder. You will receive the following welcome page in VS Code initiating a successful installation in Windows. To install VS Code in your macOS X click here. This will open a window containing various download options. Go to the download option for Mac and choose the .zip file according to your machine type. After downloading the setup file, the following pop-up appears. Click on "Open" to launch the editor. Alternatively, you can also open the editor through the Downloads folder. You will receive the following welcome page in VS Code initiating a successful installation in macOS X. To install VS Code in your Linux Operating system, click here. This will open a window containing various download options. Go to the download option for Linux and choose the .tar.gz file according to your machine type. After downloading the setup file, the following pop-up appears. Click on "Open" to launch the editor. Alternatively, you can also open the editor through the Downloads folder. You will receive the following welcome page in VS Code initiating a successful installation in Linux. To install VS Code in your Windows Operating system, click here. This will open a window containing various download options. Go to the download option for Windows and choose the .exe file according to your machine type. After downloading the setup file, the following pop-up appears. Click on "Open" to launch the editor. Alternatively, you can also open the editor through the Downloads folder. You will receive the following welcome page in VS Code initiating a successful installation in Windows. To install VS Code in your macOS X click here. This will open a window containing various download options. Go to the download option for Mac and choose the .zip file according to your machine type. After downloading the setup file, the following pop-up appears. Click on "Open" to launch the editor. Alternatively, you can also open the editor through the Downloads folder. You will receive the following welcome page in VS Code initiating a successful installation in macOS X. To install VS Code in your Linux Operating system, click here. This will open a window containing various download options. Go to the download option for Linux and choose the .tar.gz file according to your machine type. After downloading the setup file, the following pop-up appears. Click on "Open" to launch the editor. Alternatively, you can also open the editor through the Downloads folder. You will receive the following welcome page in VS Code initiating a successful installation in Linux. To install VS Code in your Windows Operating system, click here. This will open a window containing various download options. Go to the download option for Windows and choose the .exe file according to your machine type. After downloading the setup file, the following pop-up appears. Click on "Open" to launch the editor. Alternatively, you can also open the editor through the Downloads folder. You will receive the following welcome page in VS Code initiating a successful installation in Windows. To install VS Code in your macOS X click here. This will open a window containing various download options. Go to the download option for Mac and choose the .zip file according to your machine type. After downloading the setup file, the following pop-up appears. Click on "Open" to launch the editor. Alternatively, you can also open the editor through the Downloads folder. You will receive the following welcome page in VS Code initiating a successful installation in macOS X. To install VS Code in your Linux Operating system, click here. This will open a window containing various download options. Go to the download option for Linux and choose the .tar.gz file according to your machine type. After downloading the setup file, the following pop-up appears. Click on "Open" to launch the editor. Alternatively, you can also open the editor through the Downloads folder. You will receive the following welcome page in VS Code initiating a successful installation in Linux. To install VS Code in your Windows Operating system, click here. This will open a window containing various download options. Go to the download option for Windows and choose the .exe file according to your machine type. After downloading the setup file, the following pop-up appears. Click on "Open" to launch the editor. Alternatively, you can also open the editor through the Downloads folder. You will receive the following welcome page in VS Code initiating a successful installation in Windows. To install VS Code in your macOS X click here. This will open a window containing various download options. Go to the download option for Mac and choose the .zip file according to your machine type. After downloading the setup file, the following pop-up appears. Click on "Open" to launch the editor. Alternatively, you can also open the editor through the Downloads folder. You will receive the following welcome page in VS Code initiating a successful installation in macOS X. To install VS Code in your Linux Operating system, click here. This will open a window containing various download options. Go to the download option for Linux and choose the .tar.gz file according to your machine type. After downloading the setup file, the following pop-up appears. Click on "Open" to launch the editor. Alternatively, you can also open the editor through the Downloads folder. You will receive the following welcome page in VS Code initiating a successful installation in Linux. To install VS Code in your Windows Operating system, click here. This will open a window containing various download options. Go to the download option for Windows and choose the .exe file according to your machine type. After downloading the setup file, the following pop-up appears. Click on "Open" to launch the editor. Alternatively, you can also open the editor through the Downloads folder. You will receive the following welcome page in VS Code initiating a successful installation in Windows. To install VS Code in your macOS X click here. This will open a window containing various download options. Go to the download option for Mac and choose the .zip file according to your machine type. After downloading the setup file, the following pop-up appears. Click on "Open" to launch the editor. Alternatively, you can also open the editor through the Downloads folder. You will receive the following welcome page in VS Code initiating a successful installation in macOS X. To install VS Code in your Linux Operating system, click here. This will open a window containing various download options. Go to the download option for Linux and choose the .tar.gz file according to your machine type. After downloading the setup file, the following pop-up appears. Click on "Open" to launch the editor. Alternatively, you can also open the editor through the Downloads folder. You will receive the following welcome page in VS Code initiating a successful installation in Linux. To install VS Code in your Windows Operating system, click here. This will open a window containing various download options. Go to the download option for Windows and choose the .exe file according to your machine type. After downloading the setup file, the following pop-up appears. Click on "Open" to launch the editor. Alternatively, you can also open the editor through the Downloads folder. You will receive the following welcome page in VS Code initiating a successful installation in Windows. To install VS Code in your macOS X click here. This will open a window containing various download options. Go to the download option for Mac and choose the .zip file according to your machine type. After downloading the setup file, the following pop-up appears. Click on "Open" to launch the editor. Alternatively, you can also open the editor through the Downloads folder. You will receive the following welcome page in VS Code initiating a successful installation in macOS X. To install VS Code in your Linux Operating system, click here. This will open a window containing various download options. Go to the download option for Linux and choose the .tar.gz file according to your machine type. After downloading the setup file, the following pop-up appears. Click on "Open" to launch the editor. Alternatively, you can also open the editor through the Downloads folder. You will receive the following welcome page in VS Code initiating a successful installation in Linux. To install VS Code in your Windows Operating system, click here. This will open a window containing various download options. Go to the download option for Windows and choose the .exe file according to your machine type. After downloading the setup file, the following pop-up appears. Click on "Open" to launch the editor. Alternatively, you can also open the editor through the Downloads folder. You will receive the following welcome page in VS Code initiating a successful installation in Windows. To install VS Code in your macOS X click here. This will open a window containing various download options. Go to the download option for Mac and choose the .zip file according to your machine type. After downloading the setup file, the following pop-up appears. Click on "Open" to launch the editor. Alternatively, you can also open the editor through the Downloads folder. You will receive the following welcome page in VS Code initiating a successful installation in macOS X. To install VS Code in your Linux Operating system, click here. This will open a window containing various download options. Go to the download option for Linux and choose the .tar.gz file according to your machine type. After downloading the setup file, the following pop-up appears. Click on "Open" to launch the editor. Alternatively, you can also open the editor through the Downloads folder. You will receive the following welcome page in VS Code initiating a successful installation in Linux. To install VS Code in your Windows Operating system, click here. This will open a window containing various download options. Go to the download option for Windows and choose the .exe file according to your machine type. After downloading the setup file, the following pop-up appears. Click on "Open" to launch the editor. Alternatively, you can also open the editor through the Downloads folder. You will receive the following welcome page in VS Code initiating a successful installation in Windows. To install VS Code in your macOS X click here. This will open a window containing various download options. Go to the download option for Mac and choose the .zip file according to your machine type. After downloading the setup file, the following pop-up appears. Click on "Open" to launch the editor. Alternatively, you can also open the editor through the Downloads folder. You will receive the following welcome page in VS Code initiating a successful installation in macOS X. To install VS Code in your Linux Operating system, click here. This will open a window containing various download options. Go to the download option for Linux and choose the .tar.gz file according to your machine type. After downloading the setup file, the following pop-up appears. Click on "Open" to launch the editor. Alternatively, you can also open the editor through the Downloads folder. You will receive the following welcome page in VS Code initiating a successful installation in Linux. To install VS Code in your Windows Operating system, click here. This will open a window containing various download options. Go to the download option for Windows and choose the .exe file according to your machine type. After downloading the setup file, the following pop-up appears. Click on "Open" to launch the editor. Alternatively, you can also open the editor through the Downloads folder. You will receive the following welcome page in VS Code initiating a successful installation in Windows. To install VS Code in your macOS X click here. This will open a window containing various download options. Go to the download option for Mac and choose the .zip file according to your machine type. After downloading the setup file, the following pop-up appears. Click on "Open" to launch the editor. Alternatively, you can also open the editor through the Downloads folder. You will receive the following welcome page in VS Code initiating a successful installation in macOS X. To install VS Code in your Linux Operating system, click here. This will open a window containing various download options. Go to the download option for Linux and choose the .tar.gz file according to your machine type. After downloading the setup file, the following pop-up appears. Click on "Open" to launch the editor. Alternatively, you can also open the editor through the Downloads folder. You will receive the following welcome page in VS Code initiating a successful installation in Linux. To install VS Code in your Windows Operating system, click here. This will open a window containing various download options. Go to the download option for Windows and choose the .exe file according to your machine type. After downloading the setup file, the following pop-up appears. Click on "Open" to launch the editor. Alternatively, you can also open the editor through the Downloads folder. You will receive the following welcome page in VS Code initiating a successful installation in Windows. To install VS Code in your macOS X click here. This will open a window containing various download options. Go to the download option for Mac and choose the .zip file according to your machine type. After downloading the setup file, the following pop-up appears. Click on "Open" to launch the editor. Alternatively, you can also open the editor through the Downloads folder. You will receive the following welcome page in VS Code initiating a successful installation in macOS X. To install VS Code in your Linux Operating system, click here. This will open a window containing various download options. Go to the download option for Linux and choose the .tar.gz file according to your machine type. After downloading the setup file, the following pop-up appears. Click on "Open" to launch the editor. Alternatively, you can also open the editor through the Downloads folder. You will receive the following welcome page in VS Code initiating a successful installation in Linux. To install VS Code in your Windows Operating system, click here. This will open a window containing various download options. Go to the download option for Windows and choose the .exe file according to your machine type. After downloading the setup file, the following pop-up appears. Click on "Open" to launch the editor. Alternatively, you can also open the editor through the Downloads folder. You will receive the following welcome page in VS Code initiating a successful installation in Windows. To install VS Code in your macOS X click here. This will open a window containing various download options. Go to the download option for Mac and choose the .zip file according to your machine type. After downloading the setup file, the following pop-up appears. Click on "Open" to launch the editor. Alternatively, you can also open the editor through the Downloads folder. You will receive the following welcome page in VS Code initiating a successful installation in macOS X. To install VS Code in your Linux Operating system, click here. This will open a window containing various download options. Go to the download option for Linux and choose the .tar.gz file according to your machine type. After downloading the setup file, the following pop-up appears. Click on "Open" to launch the editor. Alternatively, you can also open the editor through the Downloads folder. You will receive the following welcome page in VS Code initiating a successful installation in Linux. To install VS Code in your Windows Operating system, click here. This will open a window containing various download options. Go to the download option for Windows and choose the .exe file according to your machine type. After downloading the setup file, the following pop-up appears. Click on "Open" to launch the editor. Alternatively, you can also open the editor through the Downloads folder. You will receive the following welcome page in VS Code initiating a successful installation in Windows. To install VS Code in your macOS X click here. This will open a window containing various download options. Go to the download option for Mac and choose the .zip file according to your machine type. After downloading the setup file, the following pop-up appears. Click on "Open" to launch the editor. Alternatively, you can also open the editor through the Downloads folder. You will receive the following welcome page in VS Code initiating a successful installation in macOS X. To install VS Code in your Linux Operating system, click here. This will open a window containing various download options. Go to the download option for Linux and choose the .tar.gz file according to your machine type. After downloading the setup file, the following pop-up appears. Click on "Open" to launch the editor. Alternatively, you can also open the editor through the Downloads folder. You will receive the following welcome page in VS Code initiating a successful installation in Linux. To install VS Code in your Windows Operating system, click here. This will open a window containing various download options. Go to the download option for Windows and choose the .exe file according to your machine type. After downloading the setup file, the following pop-up appears. Click on "Open" to launch the editor. Alternatively, you can also open the editor through the Downloads folder. You will receive the following welcome page in VS Code initiating a successful installation in Windows. To install VS Code in your macOS X click here. This will open a window containing various download options. Go to the download option for Mac and choose the .zip file according to your machine type. After downloading the setup file, the following pop-up appears. Click on "Open" to launch the editor. Alternatively, you can also open the editor through the Downloads folder. You will receive the following welcome page in VS Code initiating a successful installation in macOS X. To install VS Code in your Linux Operating system, click here. This will open a window containing various download options. Go to the download option for Linux and choose the .tar.gz file according to your machine type. After downloading the setup file, the following pop-up appears. Click on "Open" to launch the editor. Alternatively, you can also open the editor through the Downloads folder. You will receive the following welcome page in VS Code initiating a successful installation in Linux. To install VS Code in your Windows Operating system, click here. This will open a window containing various download options. Go to the download option for Windows and choose the .exe file according to your machine type. After downloading the setup file, the following pop-up appears. Click on "Open" to launch the editor. Alternatively, you can also open the editor through the Downloads folder. You will receive the following welcome page in VS Code initiating a successful installation in Windows. To install VS Code in your macOS X click here. This will open a window containing various download options. Go to the download option for Mac and choose the .zip file according to your machine type. After downloading the setup file, the following pop-up appears. Click on "Open" to launch the editor. Alternatively, you can also open the editor through the Downloads folder. You will receive the following welcome page in VS Code initiating a successful installation in macOS X. To install VS Code in your Linux Operating system, click here. This will open a window containing various download options. Go to the download option for Linux and choose the .tar.gz file according to your machine type. After downloading the setup file, the following pop-up appears. Click on "Open" to launch the editor. Alternatively, you can also open the editor through the Downloads folder. You will receive the following welcome page in VS Code initiating a successful installation in Linux. To install VS Code in your Windows Operating system, click here. This will open a window containing various download options. Go to the download option for Windows and choose the .exe file according to your machine type. After downloading the setup file, the following pop-up appears. Click on "Open" to launch the editor. Alternatively, you can also open the editor through the Downloads folder. You will receive the following welcome page in VS Code initiating a successful installation in Windows. To install VS Code in your macOS X click here. This will open a window containing various download options. Go to the download option for Mac and choose the .zip file according to your machine type. After downloading the setup file, the following pop-up appears. Click on "Open" to launch the editor. Alternatively, you can also open the editor through the Downloads folder. You will receive the following welcome page in VS Code initiating a successful installation in macOS X. To install VS Code in your Linux Operating system, click here. This will open a window containing various download options. Go to the download option for Linux and choose the .tar.gz file according to your machine type. After downloading the setup file, the following pop-up appears. Click on "Open" to launch the editor. Alternatively, you can also open the editor through the Downloads folder. You will receive the following welcome page in VS Code initiating a successful installation in Linux. To install VS Code in your Windows Operating system, click here. This will open a window containing various download options. Go to the download option for Windows and choose the .exe file according to your machine type. After downloading the setup file, the following pop-up appears. Click on "Open" to launch the editor. Alternatively, you can also open the editor through the Downloads folder. You will receive the following welcome page in VS Code initiating a successful installation in Windows. To install VS Code in your macOS X click here. This will open a window containing various download options. Go to the download option for Mac and choose the .zip file according to your machine type. After downloading the setup file, the following pop-up appears. Click on "Open" to launch the editor. Alternatively, you can also open the editor through the Downloads folder. You will receive the following welcome page in VS Code initiating a successful installation in macOS X. To install VS Code in your Linux Operating system, click here. This will open a window containing various download options. Go to the download option for Linux and choose the .tar.gz file according to your machine type. After downloading the setup file, the following pop-up appears. Click on "Open" to launch the editor. Alternatively, you can also open the editor through the Downloads folder. You will receive the following welcome page in VS Code initiating a successful installation in Linux. To install VS Code in your Windows Operating system, click here. This will open a window containing various download options. Go to the download option for Windows and choose the .exe file according to your machine type. After downloading the setup file, the following pop-up appears. Click on "Open" to launch the editor. Alternatively, you can also open the editor through the Downloads folder. You will receive the following welcome page in VS Code initiating a successful installation in Windows. To install VS Code in your macOS X click here. This will open a window containing various download options. Go to the download option for Mac and choose the .zip file according to your machine type. After downloading the setup file, the following pop-up appears. Click on "Open" to launch the editor. Alternatively, you can also open the editor through the Downloads folder. You will receive the following welcome page in VS Code initiating a successful installation in macOS X. To install VS Code in your Linux Operating system, click here. This will open a window containing various download options. Go to the download option for Linux and choose the .tar.gz file according to your machine type. After downloading the setup file, the following pop-up appears. Click on "Open" to launch the editor. Alternatively, you can also open the editor through the Downloads folder. You will receive the following welcome page in VS Code initiating a successful installation in Linux. To install VS Code in your Windows Operating system, click here. This will open a window containing various download options. Go to the download option for Windows and choose the .exe file according to your machine type. After downloading the setup file, the following pop-up appears. Click on "Open" to launch the editor. Alternatively, you can also open the editor through the Downloads folder. You will receive the following welcome page in VS Code initiating a successful installation in Windows. To install VS Code in your macOS X click here. This will open a window containing various download options. Go to the download option for Mac and choose the .zip file according to your machine type. After downloading the setup file, the following pop-up appears. Click on "Open" to launch the editor. Alternatively, you can also open the editor through the Downloads folder. You will receive the following welcome page in VS Code initiating a successful installation in macOS X. To install VS Code in your Linux Operating system, click here. This will open a window containing various download options. Go to the download option for Linux and choose the .tar.gz file according to your machine type. After downloading the setup file, the following pop-up appears. Click on "Open" to launch the editor. Alternatively, you can also open the editor through the Downloads folder. You will receive the following welcome page in VS Code initiating a successful installation in Linux. To install VS Code in your Windows Operating system, click here. This will open a window containing various download options. Go to the download option for Windows and choose the .exe file according to your machine type. After downloading the setup file, the following pop-up appears. Click on "Open" to launch the editor. Alternatively, you can also open the editor through the Downloads folder. You will receive the following welcome page in VS Code initiating a successful installation in Windows. To install VS Code in your macOS X click here. This will open a window containing various download options. Go to the download option for Mac and choose the .zip file according to your machine type. After downloading the setup file, the following pop-up appears. Click on "Open" to launch the editor. Alternatively, you can also open the editor through the Downloads folder. You will receive the following welcome page in VS Code initiating a successful installation in macOS X. To install VS Code in your Linux Operating system, click here. This will open a window containing various download options. Go to the download option for Linux and choose the .tar.gz file according to your machine type. After downloading the setup file, the following pop-up appears. Click on "Open" to launch the editor. Alternatively, you can also open the editor through the Downloads folder. You will receive the following welcome page in VS Code initiating a successful installation in Linux. To install VS Code in your Windows Operating system, click here. This will open a window containing various download options. Go to the download option for Windows and choose the .exe file according to your machine type. After downloading the setup file, the following pop-up appears. Click on "Open" to launch the editor. Alternatively, you can also open the editor through the Downloads folder. You will receive the following welcome page in VS Code initiating a successful installation in Windows. To install VS Code in your macOS X click here. This will open a window containing various download options. Go to the download option for Mac and choose the .zip file according to your machine type. After downloading the setup file, the following pop-up appears. Click on "Open" to launch the editor. Alternatively, you can also open the editor through the Downloads folder. You will receive the following welcome page in VS Code initiating a successful installation in macOS X. To install VS Code in your Linux Operating system, click here. This will open a window containing