Install Visual Studio Code

You can download Visual Studio code from URL

"https://code.visualstudio.com/download" by selecting the right platform:



You can click any of the icons mentioned above, depending on the operating system for which you are planning to download the visual studio code editor.

How to install Visual Studio Code on macOS?

Follow the below steps*(shown in gif file and mentioned in bullet points)* to install the VS Code on macOS:

- 1. Download Visual Studio Code for macOS.
- 2. After clicking on the Mac option on the download site, it will download a zip file, as shown below:
- 3. Double-click on the downloaded zip to expand the contents. It will give a file, as shown below:

- 4. Drag "Visual Studio Code.app" to the "Applications" folder, so as it available in the "Launchpad."
- 5. Double click on the "Visual Studio Code" to open.
- 6. Add VS Code to your Dock by right-clicking on the icon to bring up the context menu and choosing Options => Keep in Dock.



How to Install Visual Studio Code on Windows?

Firstly, download the Visual Studio Code installer for Windows. Once it is downloaded, run the installer (*VSCodeUserSetup-{version}.exe*). It will only take a minute.

Secondly, accept the agreement and click on next.

Please read the following important information before continuing.	
Please read the following License Agreement. You must accept the terms of this agreement before continuing with the installation.	
This license applies to the Visual Studio Code product. Source	^
Code for Visual Studio Code is available at	13
<u>https://github.com/Microsoft/vscode</u> under the MIT license	
agreement at	
https://github.com/microsoft/vscode/blob/master/LICENSE.txt.	
Additional license information can be found in our FAQ at	
https://code.visualstudio.com/docs/supporting/faq.	4
I accept the agreement	
I do not accept the agreement	

Thirdly, click on *"create a desktop icon"* so that it can be accessed from desktop and click on Next.

Select Additional Tasks			•
Which additional tasks should be p	erformed?		•
Select the additional tasks you wo Code, then dick Next.	uld like Setup to perfor	m while installing Vi	isual Studio
Additional icons:			
Create a desktop icon			
Other:			
Add "Open with Code" action	to Windows Explorer fil	le context menu	
Add "Open with Code" action	to Windows Explorer di	irectory context me	enu
Register Code as an editor fo	r supported file types		
Add to PATH (requires shell re	estart)		
	< Back	Next >	Can

After that, click on the install button.

eady to Install Setup is now ready to begin installing Visual	Studio Code on y	your computer.	>
Click Install to continue with the installation, change any settings.	or click Back if y	ou want to revie	ew or
Additional tasks: Additional icons: Create a desktop icon Other: Add to PATH (requires shell restart)			^
<			~
	< Back	Install	Cance

Finally, after installation completes, click on the finish button, and the visual studio code will get open.

🟹 Setup - Microsoft Visual St	tudio Code (User)	_		\times
-	Completing the Visu Setup Wizard	al Stud	lio Co	de
	Setup has finished installing Visual S computer. The application may be la installed icons.	tudio Code o aunched by s	on your electing t	he
	Click Finish to exit Setup.			
	Zuunch Visual Studio Code			
r t				
		Finish		

By default, VS Code installs under

C:\users{username}\AppData\Local\Programs\Microsoft VS Code.



After the successful installation, let's move to the next section to understand the various components of the User Interface of Visual Studio Code Editor.

What are the essential components of the VS Code?

Visual Studio Code is a code editor at its core. Like many other code editors, VS Code adopts a standard user interface and layout of an explorer on the left, showing all of the files and folders you have access to. Additionally, it has an editor on the right, showing the content of the files you have opened. Below are a few of the most critical components the VSCode editor:



VS Code comes with a straight-forward and intuitive layout that maximizes the space provided for the editor while leaving ample room to browse. Additionally, it allows access to the full context of your folder or project. The UI is divided into five areas, as highlighted in the above image.

- 1. Editor It is the main area to edit your files. You can open as many editors as possible side by side vertically and horizontally.
- 2. SideBar Contains different views like the Explorer to assist you while working on your project.
- 3. Status Bar It contains the information about the opened project and the files you edit.
- 4. Activity Bar It is located on the far left-hand side. It lets you switch between views and gives you additional context-specific indicators, like the number of outgoing changes when Git is enabled.
- Panels It displays different panels below the editor region for output or debug information, errors, and warnings, or an integrated terminal. Additionally, the panel can also move to the right for more vertical space.

VS Code opens up in the same state it was last in, every time you start it. It also preserves folder, layout, and opened files.

What are the language-specific features provided by VS Code?

Visual Studio Code supports the maximum of the modern programming languages. It provides various features that can be language-specific but are available in almost all the supported programming languages. Few of them are:

Syntax highlighting and bracket matching: Syntax highlighting determines the color and style of source code displayed in the Visual Studio Code editor. Moreover, it is responsible for colorizing keywords like if or for in JavaScript differently than strings and comments and variable names. Smart completion (IntelliSense): IntelliSense is a general term for a variety of code editing features, including code completion, parameter info, quick info, and member lists. Other names of IntelliSense features are "code completion," "content assist," and "code hinting." The below gif file shows a sample of the feature:



Linting and corrections: Linters provides warnings for suspicious-looking code. While VS Code does not include a built-in linter, many linter extensions available in the marketplace.

Code navigation (Go to Definition, Find All References): Code navigation lets you quickly navigate JavaScript projects.

Go To Definition F12 - It asks you to Go to the source code of a symbol definition.

Peek Definition \frown F12 - Bring up a Peek window that shows the definition of a symbol.

Go to References $rac{12}$ - Show all references to a symbol.

Go to Type Definition unassigned - Go to the type that defines a symbol. In other words, for an instance of a class, this will reveal the class itself instead of where the instance is defined.

Debugging: VS Code comes with great debugging support. Additionally, you can set breakpoints, inspect objects, navigate the call stack, and execute code in the Debug Console.

Refactoring: VS Code includes some handy refactorings such as Extract function and Extract constant. Just select the source code you'd like to extract and then click on the lightbulb in the gutter or press (\mathbb{H} .) to see available refactorings. Available refactorings include:

29	exp	<pre>port async function queryToasts(user, searchString) {</pre>
30		<pre>const response = await fetch(</pre>
31	1	<pre>\${config.apiEndpoint}/v0/toasts?user=\${user.id}query=\${searchString}`);</pre>
32		Extract to inner function in function 'queryToasts'
33		Extract to function in module scope
34	}	Extract to constant in enclosing scope ★
35		

Extract to method or function. Extract to constant. Convert between named imports and namespace imports. Move to a new file.