

Visual Studio Code

What is Visual Studio Code?

Any programme / software that we see or use, works on the code that runs in the background. Traditionally coding used to be done in the traditional editors or even in the basic editors like notepad ! These editors used to provide basic support to the coders. Some of them, so were so basic that it was very difficult in writing basic English level programmes in them. As the time-went by, some programming languages needed specific framework and support for further coding and development in it, which was not possible using these editors. VI Editor, Sublime Text Editor and Visual Studio Code are one of the many kinds of editors that came into existence. The most prominent and which supports almost every coding language is VISUAL STUDIO CODE. Visual Studio Code features let user modify the editor as per the usage, which means, user is able to download the libraries from the internet and integrate it with the code as per his requirements.

Visual Studio Code Definition and understanding it

Visual Studio Code is a code editor in layman's terms. To define it, Visual Studio Code is, "a free-editor which helps the programmer to write a code, helps in debugging and corrects the code using the intelli-sense method ". In normal terms, it facilitates user to write the code in easy manner. Many people say that it is half of an IDE and an editor; but the decision is upto to the coders.

What Visual Studio Code can do

Visual Studio Code has some very unique features. They are listed as below :

- Support for multiple programming languages :

Visual Studio Code supports multiple programming languages. So earlier, programmers needed to use different editor for different languages, but it has built-in multi-language support. This also means it easily detects, if there's any fault or cross-language reference, it'll be able to detect it easily.

- Intelli-Sense :

It can detect,if any snippet of code is left incomplete. Also, common, variable,syntaxes and variable declarations are made automatically. **Ex:** If a certain variable is being used in the program and the user has forgotten to declare, intelli-sense will declare it for the user.

- Cross-Platform Support :

Traditionally, editors used to support either the Windows or Linux or Mac Systems. But Visual Studio Code is cross-platform. So it can work on all three platforms. Also, the code works on all three platforms, else, the open-source and proprietary software codes used to be different.

- Extensions and Support : Usually supports all the programming languages are supported in Visual Studio Code, but, if the user / programmer wants to use the programming language which

is not supported then, he can download the extension and use it. And performance wise, extension doesn't slow down the editor as it runs as a different process.

- **Repository:** With ever-increasing demand of the code, it's secure and timely storage is equally important. Visual Studio Code is connected with Git, or can be connected with any other repository for pulling or saving the instances.
- **Web-Support :** Comes with built-in support for Web applications. So web-applications can be built and supported in VSC.
- **Hierarchy Structure :** The code files are located into files and folders. Along-with the required code files, it also has some files, which may be required for other complex projects. These files can be deleted as per convenience.
- **Improving Code :** Some code snippets can be declared a bit differently, which might help the user in the code. This function prompts the user wherever necessary to change it to the suggested option.
- **Terminal Support :** Many of the times, user need to start from the root of the directory to start with a particular action, in-built terminal or console provides user the support to not to switch in-between two screens for the same.
- **Multi-Projects :** Multiple projects containing multiple files / folder can be opened simultaneously. These projects / folders might or might not be related to eachother.
- **Git Support :**Resources can be pulled from Git Hub Repo online and vice-versa; saving can be done too. Resource pulling also means to clone the code which is made available on the internet. This code can later be changed and saved.
- **Commenting :** A common feature, but some of the languages do not support it. Commenting the code helps user to recall or track according to the sequence he wants.

Advantages of Visual Studio Code and Why should we use Visual Studio Code

As are the feature, there are many advantages of using Visual Studio Code over any other IDE, they are :

- **Cross-platform support :**
 - a. Windows
 - b. Linux
 - c. Mac
- **Light-weight**

- Robust Architecture
- Intelli-Sense
- Freeware: Free of Cost- probably the best feature of all for all the programmers out there, even more for the organizations.
- Many users will use it or might have used it for desktop applications only, but it also provides great tool support of Web Technologies like; HTML, CSS, JSON.

There are a few things, which one can find a bit odd compared with so many features of Visual Studio Code. It mainly helps for the front-end developers as compared with the back-end developers. But as per some users opinion, it is equally helpful. It supports most of the languages used by most of the programmers but others languages might have to download or extensions may have to be used for them. Along with these common zoom-in, zoom-out brightness, theme selection features too are made available.

Visual Studio Scope

The most common languages which are the Visual Studio Code supports are:

- C#
- Visual Basic
- Java-Script
- R
- XML
- Python
- CSS
- GO
- PERL

Another feature which naïve-users or anyone can see instantly different from other editors is the user-friendliness of the Visual Studio Code. The usability of Visual Studio Code is very easy to handle. The file is arranged hierarchically and has regular software's like tool bar, status bar and a sidebar. Also has a floating windows explorer window, which can be fixed at one place according to the convenience, which consists of the directory structure of files. These files (code files, image folders, etc.) can be opened or renamed from here and changes will automatically get reflected in the storage.

Why do we need Visual Studio Code

Till recent times, there's hardly been an IDE or code editor which has been so user-friendly, that even the first time users can use each and every feature without any hassles. The coding-friendly feature and code error recognition also helps users new and old, a long way into making the code more efficient and error-less.

Who is the right audience to learn Visual Studio Code and How this technology will help you in career growth

With new and emerging technologies, and new frameworks being used by the softwares, Visual Studio Code brings into play a great variety of code effectiveness. These emerging technologies are sure thing, that is to be added into the Visual Studio Code and its extensions. The developers, testers, data administrators; both old and newbies can equally use it and that too very effectively. The people who are into this industry might find it a bit tough to learn this new technology, considering their use of more manual modes of code-logic.

Conclusion

With advancements in technology day-by-day, Visual Studio Code is going to play a pivotal role in the development of softwares. With it's ever-evolving features and soon-to-be-added new settings, which will enable to users to work with it from anywhere, it is certainly "THE THING" to keep one ahead of everyone in this ever-increasing IT market.