

Microsoft Visual C

Microsoft Visual C++

Microsoft Visual C++ (MSVC) is a compiler for the C, C++, C++/CLI and C++/CX programming languages by Microsoft. MSVC is proprietary software; it was - Microsoft Visual C++ (MSVC) is a compiler for the C, C++, C++/CLI and C++/CX programming languages by Microsoft. MSVC is proprietary software; it was originally a standalone product but later became a part of Visual Studio and made available in both trialware and freeware forms. It features tools for developing and debugging C++ code, especially code written for the Windows API, DirectX and .NET.

Many applications require redistributable Visual C++ runtime library packages to function correctly. These packages are frequently installed separately from the applications they support, enabling multiple applications to use the package with only a single installation. These Visual C++ redistributable and runtime packages are mostly installed for standard libraries that many applications use.

Visual Studio

Visual Studio is an integrated development environment (IDE) developed by Microsoft. It is used to develop computer programs including websites, web apps - Visual Studio is an integrated development environment (IDE) developed by Microsoft. It is used to develop computer programs including websites, web apps, web services and mobile apps. Visual Studio uses Microsoft software development platforms including Windows API, Windows Forms, Windows Presentation Foundation (WPF), Microsoft Store and Microsoft Silverlight. It can produce both native code and managed code.

Visual Studio includes a code editor supporting IntelliSense (the code completion component) as well as code refactoring. The integrated debugger works as both a source-level debugger and as a machine-level debugger. Other built-in tools include a code profiler, designer for building GUI applications, web designer, class designer, and database schema designer. It accepts plug-ins that expand the functionality at almost every level—including adding support for source control systems (like Subversion and Git) and adding new toolsets like editors and visual designers for domain-specific languages or toolsets for other aspects of the software development lifecycle (like the Azure DevOps client: Team Explorer).

Visual Studio supports 36 different programming languages and allows the code editor and debugger to support (to varying degrees) nearly any programming language, provided a language-specific service exists. Built-in languages include C, C++, C++/CLI, Visual Basic .NET, C#, F#, JavaScript, TypeScript, XML, XSLT, HTML, and CSS. Support for other languages such as Python, Ruby, Node.js, and M among others is available via plug-ins. Java (and J#) were supported in the past.

The most basic edition of Visual Studio, the Community edition, is available free of charge. The slogan for Visual Studio Community edition is "Free, fully-featured IDE for students, open-source and individual developers". As of March 23, 2025, Visual Studio 2022 is a current production-ready version. Visual Studio 2015, 2017 and 2019 are on Extended Support.

C Sharp (programming language)

ISO/IEC (ISO/IEC 23270 and 20619) in 2003. Microsoft introduced C# along with .NET Framework and Microsoft Visual Studio, both of which are technically speaking - C# (see SHARP) is a general-purpose

high-level programming language supporting multiple paradigms. C# encompasses static typing, strong typing, lexically scoped, imperative, declarative, functional, generic, object-oriented (class-based), and component-oriented programming disciplines.

The principal inventors of the C# programming language were Anders Hejlsberg, Scott Wiltamuth, and Peter Golde from Microsoft. It was first widely distributed in July 2000 and was later approved as an international standard by Ecma (ECMA-334) in 2002 and ISO/IEC (ISO/IEC 23270 and 20619) in 2003. Microsoft introduced C# along with .NET Framework and Microsoft Visual Studio, both of which are technically speaking, closed-source. At the time, Microsoft had no open-source products. Four years later, in 2004, a free and open-source project called Microsoft Mono began, providing a cross-platform compiler and runtime environment for the C# programming language. A decade later, Microsoft released Visual Studio Code (code editor), Roslyn (compiler), and the unified .NET platform (software framework), all of which support C# and are free, open-source, and cross-platform. Mono also joined Microsoft but was not merged into .NET.

As of January 2025, the most recent stable version of the language is C# 13.0, which was released in 2024 in .NET 9.0

Visual Basic (.NET)

Visual Basic (VB), originally called Visual Basic .NET (VB.NET), is a multi-paradigm, object-oriented programming language developed by Microsoft and - Visual Basic (VB), originally called Visual Basic .NET (VB.NET), is a multi-paradigm, object-oriented programming language developed by Microsoft and implemented on .NET, Mono, and the .NET Framework. Microsoft launched VB.NET in 2002 as the successor to its original Visual Basic language, the last version of which was Visual Basic 6.0. Although the ".NET" portion of the name was dropped in 2005, this article uses "Visual Basic [.NET]" to refer to all Visual Basic languages released since 2002, in order to distinguish between them and the classic Visual Basic. Along with C# and F#, it is one of the three main languages targeting the .NET ecosystem. Microsoft updated its VB language strategy on 6 February 2023, stating that VB is a stable language now and Microsoft will keep maintaining it.

Microsoft's integrated development environment (IDE) for developing in Visual Basic is Visual Studio. Most Visual Studio editions are commercial; the only exceptions are Visual Studio Express and Visual Studio Community, which are freeware. In addition, the .NET Framework SDK includes a freeware command-line compiler called vbc.exe. Mono also includes a command-line VB.NET compiler.

Visual Basic is often used in conjunction with the Windows Forms GUI library to make desktop apps for Windows. Programming for Windows Forms with Visual Basic involves dragging and dropping controls on a form using a GUI designer and writing corresponding code for each control.

Visual Studio Code

Visual Studio Code (VS Code) is an integrated development environment developed by Microsoft for Windows, Linux, macOS and web browsers. Features include - Visual Studio Code (VS Code) is an integrated development environment developed by Microsoft for Windows, Linux, macOS and web browsers. Features include support for debugging, syntax highlighting, intelligent code completion, snippets, code refactoring, and embedded version control with Git. Users can change the theme, keyboard shortcuts and preferences, as well as install extensions that add functionality.

Visual Studio Code is proprietary software released under the "Microsoft Software License", but based on the MIT licensed program named "Visual Studio Code – Open Source" (also known as "Code – OSS"), also

created by Microsoft and available through GitHub.

In the 2024 Stack Overflow Developer Survey, out of 58,121 responses, 73.6% of respondents reported using Visual Studio Code, more than twice the percentage of respondents who reported using its nearest alternative, Visual Studio.

Microsoft Visual Studio Express

Microsoft Visual Studio Express was a set of integrated development environments (IDEs) that Microsoft developed and released free of charge. They are - Microsoft Visual Studio Express was a set of integrated development environments (IDEs) that Microsoft developed and released free of charge. They are function-limited version of the non-free Visual Studio and require mandatory registration. Express editions started with Visual Studio 2005.

In 2013, Microsoft began supplanting Visual Studio Express with the more feature-rich Community edition of Visual Studio, which is available free of charge with a different license that disallow some scenarios in enterprise settings. The last version of the Express edition is the desktop-only 2017.

Visual C

Visual C may refer to: Visual C++, an integrated development environment (IDE) product from Microsoft for the C, C++, and C++/CLI programming languages - Visual C may refer to:

Visual C++, an integrated development environment (IDE) product from Microsoft for the C, C++, and C++/CLI programming languages

Visual C Sharp, Microsoft's implementation of the C# specification, included in the Microsoft Visual Studio suite of product

Microsoft Foundation Class Library

Somasegar's blog. Microsoft. April 7, 2008. "Visual C++ 2008 Feature Pack Released!"; C++ Team Blog. Microsoft. April 7, 2008. "Visual C++ 2008 Feature Pack - Microsoft Foundation Class Library (MFC) is a C++ object-oriented library for developing desktop applications for Windows.

MFC was introduced by Microsoft in 1992 and quickly gained widespread use. While Microsoft has introduced alternative application frameworks since then, MFC remains widely used.

Visual J++

Visual J++ is Microsoft's discontinued implementation of Java. Syntax, keywords, and grammatical conventions were the same as Java's. It was introduced - Visual J++ is Microsoft's discontinued implementation of Java. Syntax, keywords, and grammatical conventions were the same as Java's. It was introduced in 1996 and discontinued in January 2004, replaced to a certain extent by J# and C#.

The implementation, MSJVM, did not pass Sun Microsystems' compliance tests, leading to a lawsuit from Sun, Java's creator. Microsoft ceased such support for the MSJVM on December 31, 2007 (later Oracle bought Sun, and with it Java and its trademarks). Microsoft however, officially started distributing Java again in 2021 (though not bundled with Windows or its web browsers as before), i.e. their build of Oracle's

OpenJDK, which Microsoft plans to support for at least 6 years, for LTS versions, i.e. to September 2027 for Java 17.

Managed Extensions for C++

superseded by the new extensions. Microsoft introduced Managed Extensions for C++ in Microsoft Visual C++ 2002 (MSVC++). Microsoft attempted to minimize the deviations - Managed Extensions for C++ or Managed C++ is a deprecated set of language extensions for C++, including grammatical and syntactic extensions, keywords and attributes, to bring the C++ syntax and language to the .NET Framework. These extensions were created by Microsoft to allow C++ code to be targeted to the Common Language Runtime (CLR) in the form of managed code, as well as continue to interoperate with native code.

In 2004, the Managed C++ extensions were significantly revised to clarify and simplify syntax and expand functionality to include managed generics. These new extensions were designated C++/CLI and included in Microsoft Visual Studio 2005. The term Managed C++ and the extensions it refers to are thus deprecated and superseded by the new extensions.

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