

# Programming Excel With VBA And .NET

## Microsoft Excel

*pivot tables, and a macro programming language called Visual Basic for Applications (VBA). Excel forms part of the Microsoft 365 and Microsoft Office*

Microsoft Excel is a spreadsheet editor developed by Microsoft for Windows, macOS, Android, iOS and iPadOS. It features calculation or computation capabilities, graphing tools, pivot tables, and a macro programming language called Visual Basic for Applications (VBA). Excel forms part of the Microsoft 365 and Microsoft Office suites of software and has been developed since 1985.

## Visual Basic for Applications

*Visual Basic for Applications (VBA) is an implementation of Microsoft's event-driven programming language Visual Basic 6.0 built into most desktop Microsoft*

Visual Basic for Applications (VBA) is an implementation of Microsoft's event-driven programming language Visual Basic 6.0 built into most desktop Microsoft Office applications. Although based on pre-.NET Visual Basic, which is no longer supported or updated by Microsoft (except under Microsoft's "It Just Works" support which is for the full lifetime of supported Windows versions, including Windows 10 and Windows 11), the VBA implementation in Office continues to be updated to support new Office features. VBA is used for professional and end-user development due to its perceived ease-of-use, Office's vast installed userbase, and extensive legacy in business.

Visual Basic for Applications enables building user-defined functions (UDFs), automating processes and accessing Windows API and other...

## Visual Studio Tools for Office

*was also offered that enabled VBA developers to create COM Add-ins. VSTO supersedes developer editions of Office 2000 and Office XP for Office development*

Visual Studio Tools for Office (VSTO) is a set of development tools available in the form of a Visual Studio add-in (project templates) and a runtime that allows Microsoft Office 2003 and later versions of Office applications to host the .NET Framework Common Language Runtime (CLR) to expose their functionality via .NET.

This allows extensions to the Office applications to be written in CLI compliant languages as well as to use functionality and user interface constructs from Office applications in .NET applications. Extensions to Office prior to Office 2003 only allowed the creation of COM add-ins using Visual Basic or Visual C++ and a "Developer" edition was also offered that enabled VBA developers to create COM Add-ins.

VSTO supersedes developer editions of Office 2000 and Office XP for...

Microsoft Access

*Objects, and many other ActiveX components. Visual objects used in forms and reports expose their methods and properties in the VBA programming environment*

Microsoft Access is a database management system (DBMS) from Microsoft that combines the relational Access Database Engine (ACE) with a graphical user interface and software-development tools. It is part of the Microsoft 365 suite of applications, included in the Professional and higher editions or sold separately.

Microsoft Access stores data in its own format based on the Access Database Engine (formerly Jet Database Engine). It can also import or link directly to data stored in other applications and databases.

Software developers, data architects and power users can use Microsoft Access to develop application software. Like other Microsoft Office applications, Access is supported by Visual Basic for Applications (VBA), an object-based programming language that can reference a variety of...

Active Scripting

*language and/or tool not available by default, like programming Microsoft Excel in Perl or REXX rather than Visual Basic for Applications (VBA) or transferring*

Active Scripting (formerly known as ActiveX Scripting) is the technology used in Windows to implement component-based scripting support. It is based on OLE Automation (part of COM) and allows installation of additional scripting engines in the form of COM modules.

Visual Basic (classic)

*2009-08-23. Retrieved 2009-06-16. "PRB: Round Function different in VBA 6 and Excel Spreadsheet". Microsoft Support. Archived from the original on 2013-10-29*

Visual Basic (VB), sometimes referred to as Classic Visual Basic, is a third-generation programming language based on BASIC, as well as an associated integrated development environment (IDE). Visual Basic was developed by Microsoft for Windows, and is known for supporting rapid application

development (RAD) of graphical user interface (GUI) applications, event-driven programming, and both consumption and development of

components via the Component Object Model (COM) technology.

VB was first released in 1991. The final release was version 6 (VB6) in 1998. On April 8, 2008, Microsoft stopped supporting the VB6 IDE, relegating it to legacy status. The Microsoft VB team still maintains compatibility for VB6 applications through its "It Just Works" program on supported Windows operating systems...

Steven Roman

*O&#039;Reilly and Associates. Writing Excel Macros with VBA, Second Edition, O&#039;Reilly and Associates. Win32 API Programming with Visual Basic, O&#039;Reilly and Associates*

Steven Roman is a mathematician, currently Emeritus Professor of Mathematics at California State University, Fullerton and Visiting Professor of Mathematics at University of California, Irvine. He is one of the main developers of umbral calculus. He has written about 40 books on mathematics and computer programming.

Professor Roman's books have been translated into Portuguese, French, Korean, Chinese, Russian, Polish, Bulgarian, Czech and Spanish.

Windows Script Host

*the engines, and related functionality are also listed as objects which can be accessed and scripted and queried by means of the VBA and Visual Studio*

The Microsoft Windows Script Host (WSH) (formerly named Windows Scripting Host) is an automation technology for Microsoft Windows operating systems that provides scripting abilities comparable to batch files, but with a wider range of supported features. This tool was first provided on Windows 95 after Build 950a on the installation discs as an optional installation configurable and installable by means of the Control Panel, and then a standard component of Windows 98 (Build 1111) and subsequent and Windows NT 4.0 Build 1381 and by means of Service Pack 4. WSH is also a means of automation for Internet Explorer via the installed WSH engines from IE Version 3.0 onwards; at this, time VBScript became a means of automation for Microsoft Outlook 97. WSH is also an optional install provided with...

Höhere Berufsfachschule für Wirtschaftsinformatik

*application provides professional knowledge of the office programs Excel and Microsoft Word. In this context VBA (Visual Basic for Applications) is taught as well*

The Höhere Berufsfachschule für Wirtschaftsinformatik (HBFS-WI) located in

Saarbrücken, Germany is a school providing higher vocational education in information technology and economics awarding the designation "Staatlich geprüfte(r) Wirtschaftsinformatiker(in)" (English: "state-examined business informatics/software engineer"). According to the German Qualifications Framework, the designation is at the same level to a university-level bachelor's degree.

List of numerical libraries

*C++, C#, FreePascal, Delphi, VBA. ArrayFire is a high performance open source software library for parallel computing with an easy-to-use API. IMSL Numerical*

This is a list of numerical libraries, which are libraries used in software development for performing numerical calculations. It is not a complete listing but is instead a list of numerical libraries with articles on Wikipedia, with few exceptions.

The choice of a typical library depends on a range of requirements such as: desired features (e.g. large dimensional linear algebra, parallel computation, partial differential equations), licensing, readability of API, portability or platform/compiler dependence (e.g. Linux, Windows, Visual C++, GCC), performance, ease-of-use, continued support from developers, standard compliance, specialized optimization in code for specific application scenarios or even the size of the code-base to be installed.

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