

Microsoft Access 2010 Vba Macro Programming

Visual Basic for Applications

Applications (VBA) is an implementation of Microsoft's event-driven programming language Visual Basic 6.0 built into most desktop Microsoft Office 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 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 low-level functionality through dynamic-link libraries (DLLs). It supersedes and expands on the abilities of earlier application-specific macro programming languages such as Word's WordBASIC. It can be used to control many aspects of the host application, including manipulating user interface features, such as menus and toolbars, and working with custom user forms or dialog boxes.

As its name suggests...

Microsoft Access

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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 objects including the legacy DAO (Data Access Objects), ActiveX Data Objects, and many other ActiveX components. Visual objects used in forms and reports expose their methods and properties in the VBA programming environment, and VBA code modules may declare and call Windows operating system operations.

== History ==

In the 1980s, Microsoft Access referred to an unrelated telecommunication program...

Microsoft Excel

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

Microsoft Excel, or simply 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.

== Features ==

Visual Studio Tools for Office

NET Framework Code Access Security constraints, in addition to the digital signature based permission model that governs VBA macros. VSTO development is

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 Office development. The developer editions of Office have been discontinued after Office XP and VSTO is available for Office 2003 and later versions only. The VSTO runtime, although part of VSTO development tools, is also downloadable separately if required. COM addin development is still possible for Office 2000 and all later versions using the Shared Add-in template in any version of Microsoft...

Microsoft Project

the last 16-bit version. Additionally it was the first version to use VBA macro language and introduced screen tooltips, Cue Cards, GanttChartWizard,

Microsoft Project was a project management software product, developed and sold by Microsoft. It is designed to assist a project manager in developing a schedule, assigning resources to tasks, tracking progress, managing budgets, and analyzing workloads. Microsoft Project for the web was set to retire on August 1, 2025. It is now a part of Microsoft Planner.

Microsoft Project was the company's third Microsoft Windows-based application. Within a few years after its launch, it became the dominant PC-based project management software. From 2015 to 2020 it was the most popular application for project management according to Project Management Zone. The application's proprietary file format is .mpp.

== History ==

Visual Basic (classic)

a VBA variant available in Lotus SmartSuite and Lotus Notes. Later versions of Corel WordPerfect Office implement access to VBA as one of the macro/scripting

Visual Basic (VB), sometimes referred to as Classic Visual Basic or as VB6, 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.

Visual Basic .NET (VB.NET) is based on Classic Visual Basic. Because VB.NET was later rebranded back to Visual Basic, the name is ambiguous: it can refer to either Classic Visual Basic or to the .NET version.

Just as BASIC was originally intended to be easy to learn, Microsoft intended the same for VB.

Development of a VB application is exclusively supported via the VB integrated development...

Microsoft Office

note-taking program (OneNote), and an email client (Outlook); the Windows version also includes a database management system (Access). Microsoft Office previously

Microsoft Office, MS Office, or simply Office, is an office suite and (formerly) a family of client software, server software, and services developed by Microsoft. The first version of the Office suite, announced by Bill Gates on August 1, 1988, at COMDEX, contained Microsoft Word, Microsoft Excel, and Microsoft PowerPoint, all three of which remain core products in Office. Over time, the Office suite has grown substantially, adding programs such as OneNote and Outlook; the suite has also been made highly extensible with the use of the VBA scripting language.

The suite currently includes a word processor (Word), a spreadsheet program (Excel), a presentation program (PowerPoint), a note-taking program (OneNote), and an email client (Outlook); the Windows version also includes a database management system (Access). Microsoft Office previously offered desktop, mobile, and web applications; out of these, only the desktop suite is still maintained.

Since Office 2013, Microsoft has promoted Microsoft 365 (formerly Office 365) as the primary means of obtaining Microsoft Office: it allows the use of the software and other services on a subscription business model, and users receive feature...

Access Database Engine

The Access Database Engine (also Office Access Connectivity Engine or ACE and formerly Microsoft Jet Database Engine, Microsoft JET Engine or simply Jet)

The Access Database Engine (also Office Access Connectivity Engine or ACE and formerly Microsoft Jet Database Engine, Microsoft JET Engine or simply Jet) is a database engine on which several Microsoft products have been built. The first version of Jet was developed in 1992, consisting of three modules which could be used to manipulate a database.

JET stands for Joint Engine Technology. Microsoft Access and Visual Basic use or have used Jet as their underlying database engine. However, it has been superseded for general use, first by Microsoft Desktop Engine (MSDE), then later by SQL Server Express. For larger database needs, Jet databases can be upgraded (or, in Microsoft parlance, "up-sized") to Microsoft's flagship SQL Server database product.

== Architecture ==

VBScript

VBScript (Microsoft Visual Basic Scripting Edition) is a deprecated programming language for scripting on Microsoft Windows using Component Object Model

VBScript (Microsoft Visual Basic Scripting Edition) is a deprecated programming language for scripting on Microsoft Windows using Component Object Model (COM), based on classic Visual Basic and Active Scripting. It was popular with system administrators for managing computers and automating many aspects of computing environments, and has been installed by default in every desktop release of Microsoft Windows since Windows 98; in Windows Server since Windows NT 4.0 Option Pack; and optionally with Windows CE (depending on the device it is installed on).

VBScript running environments include Windows Script Host (WSH), Internet Explorer (IE), and Internet Information Services (IIS). The running environment is embeddable in other programs via the Microsoft Script Control (msscript.ocx).

In October 2023, Microsoft announced that VBScript was deprecated. In May 2024, a multi-phase deprecation schedule was announced with disabling it by default "around 2027" and removing it sometime later.

== History ==

VBScript began as part of the Microsoft Windows Script Technologies, launched in 1996. This technology (which also included JScript) was initially targeted at web developers. During a period...

AutoLISP

2025-01-26. Retrieved 2025-03-17. "Microsoft Visual Basic for Applications Module FAQ". Retrieved 14 April 2014. "VBA support in AutoCAD 2011". Archived

AutoLISP is a dialect of the programming language Lisp built specifically for use with the full version of AutoCAD and its derivatives, which include AutoCAD Civil 3D, AutoCAD Map 3D, AutoCAD Architecture and AutoCAD Mechanical. Neither the application programming interface (API) nor the interpreter to execute AutoLISP code is included in the AutoCAD LT product line (up to Release 2023, AutoCAD LT 2024 includes AutoLISP). A subset of AutoLISP functions is included in the browser-based AutoCAD web app.

== Features ==

AutoLISP is a small, dynamically scoped, dynamically typed Lisp language dialect with garbage collection, immutable list structure, and settable symbols, lacking in such regular Lisp features as macro system, records definition facilities, arrays, functions with variable number of arguments and let bindings. Aside from the core language, most of the primitive functions are for geometry, accessing AutoCAD's internal DWG database, or manipulation of graphical entities in AutoCAD. The properties of these graphical entities are revealed to AutoLISP as association lists

in which values are paired with AutoCAD group codes that indicate properties such as definitional points, radii...

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