

Visual Basic® for Applications 2016 Introduction

Visual Basic for Applications (VBA) is the programming language, or code, used to automate tasks in Microsoft Office applications. You can manually compose your own VBA code or have it created for you by recording actions in either case, the code is played back to repeat tasks which, when strung together, automate an entire procedure.

Showing the Developer Tab

Always display the DEVELOPER tab as it provides quick access to macros, VBA code and related security settings.

1. Choose **FILE > OPTIONS > then CUSTOMIZE > RIBBONS**.
2. [Click] the DEVELOPER checkbox in the right side of the CUSTOMIZE THE RIBBONS column and [Click] OK.

Setting Macro Security

1. Choose **DEVELOPER > Macro Security**.
2. Choose one of the MACRO SETTINGS, then [Click] OK. Tip: Use the Enable All Macros option when working on your own code.

Organizing VBA Projects

The VBA Editor, contained within each Office application, is used to create and organize VBA code. Its left-side Project Explorer pane lists, in tree style view, a Project, representing the open Office file, plus associated Object or Module folders.

- The Objects folder lists an open file's documents, Microsoft Word Objects.
- The Modules folder lists modules, filled with user created VBA code.
- The code is displayed in a larger pane to the right.
- Code created for a document only applies to that document, while module code applies to any document in the project.

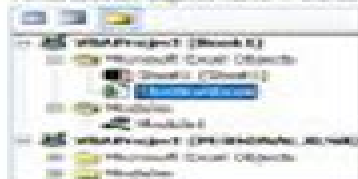
1. Press <Alt-F11> or choose **DEVELOPER > VISUAL BASIC**.
2. Open the left-side Project Explorer pane. If necessary, use **VBA > PROJECT > EXPLORER** or <Ctrl-R>.

Opening or Creating Code Windows

1. [Double Click] any Project Explorer item to open its code window. If necessary, first open its containing folder by [Clicking] the folder's "+".
2. [Right Click] any Project Explorer item and choose **INSERT > MODULE** to create a new module.

Project Explorer's tree view is different for each Office application. For example, PowerPoint has no Objects folder, while Excel has a separate object for each worksheet. The naming convention is:

- **Excel:** Project name = Workbook name or Personal.xlsb, Object name = Worksheet name.



- **Word:** Project name = Document name or Normal, Object name = TheDocument.
- **Access:** Project name = Database file name, Object name = Name of form or report.
- **PowerPoint:** Project name = PowerPoint file name.
- **Modules:** and module windows are named Module1 (2, 3, ...)

Deleting a Code Window

1. [Right Click] an object or module name in Project Explorer and select **REMOVE (window name)**...
2. [Click] NO from the pop-up message unless you want to export the code for safekeeping.

Creating VBA Code

1. Open an existing code window or add a new module.
2. Position the cursor at the code insertion point, if necessary, and choose **INSERT > PROCEDURE**.
 - a. Enter a NAME (see Code Name Rules).
 - b. Select SUB to automate tasks with a Subroutine, or FUNCTION to perform customized calculations.
 - c. Select PUBLIC to make your code globally available to any subroutine. PRIVATE will restrict its use to the subroutine being created or modified.
 - d. Select 'All local variables as Static' to retain the value of the procedure's variables after code execution ends (e.g., done a running total).
 - e. [Click] OK.
3. Enter your code in an organized way (see Organizing Code).
4. Choose **FILE > SAVE** (see Saving Code).

Tip: Save time writing code in Excel or Word by recording actions in a Macro, then copying the recorded code to your module.

Running VBA Code

Manually

1. Choose **DEVELOPER > MACROS**.
2. [Click] the subroutine name in the MACROS IN THIS LIST. If the list is too long, restrict it to a specific location from the MACROS IN LIST.
3. [Click] one of action buttons on the right side: **RUN** - Runs the code to completion.
STEP INTO - Runs one code line at a time to help you catch errors. For details, see [Troubleshooting](#).
EDIT - Displays the window code.
DELETE - Deletes the subroutine.
OPTIONS - Useful for creating a keyboard shortcut to run the subroutine.

Automatically

VBA subroutines can be triggered by events, but by other subroutines, or start when an Office program starts.

- See [Understanding the VBA Language, Using Code Window Lists and Useful Code Events](#) for examples of event triggering.
- Add the code <Ctrl> <Open> (or <document>) to run a subroutine from within another subroutine.
- To automatically run code upon opening a document or workbook, create a subroutine called **Document_Open()** in Word's TheDocument code window or a subroutine called **Workbook_Open()** in Excel's TheWorkbook code window.
Tip: To run a subroutine automatically when an Access database opens, see the steps listed in [http://msdn.microsoft.com/en-us/library/ms345312.aspx](#).

Saving Code

Code can only be saved by saving the Office file it is stored in. Default file types for Excel, Word or PowerPoint ("*.xls", "*.docx", "*.pptx") cannot contain macros. Restrict use in these programs.

1. Choose **FILE > SAVE** or press <Ctrl-S>.
2. If a "macro free" warning message pops up, [Click] NO.
3. Change FILE TYPE to **MACRO ENABLED ("*.docx", "*.docx", "*.pptx")**.
4. Choose a location, specify a FILE NAME, then [Click] SAVE.

Saving Global Macros

Macros, recorded in Excel or Word can be saved only to the current workbook/document, or globally for all workbooks or documents. To save a recorded macro globally choose the following from the STORE MACRO IN drop list in the RECORD MACRO dialog box:

- In Excel, choose **PERSONAL > MACRO WORKBOOK**.
- In Word, don't change the default **ALL DOCUMENTS (NORMAL.DOTM)** choice.
- VBA code can also be saved globally if it is manually created under the **NORMAL** project in Word or the **PERSONAL** project in Excel.

Code Name Rules

- Code names must begin with a letter.
- Subsequent characters should only be letters, numbers, or underscore characters.
- Good practice makes names shorter than 25 characters and substitutes underscores for spaces.
- Avoid names that are the same as cell references in Excel or restricted VBA keywords such as ISAMOUNT.

VBA Editor Tips

- The Project Explorer pane is best used to navigate between code windows.
- Use the code window's Procedure drop list (see [Navigating Code Window Lists](#)) to navigate between subroutines in a long code window.
- [Click] the Project Explorer folder icon (📁) at the top of its pane to toggle between a grouped list (Folder) and a straight list. Making this change in any one Office application will affect all Office applications.
- To maximize the code window, close all other windows and panes.
- To directly edit a name in Excel or Word, press <Alt-F11>, select the macro name, then [Click] EDIT.
- Press <Alt-Q> to close the VBA Editor and return to its Office application.

Using Code Window Lists

Object List	Procedure List

The Object and Procedure drop lists at the top of any code window. They can be used to navigate between subroutines or create event-triggered code.

1. Select an appropriate item from the Object drop list.
2. Then select an appropriate item from the Procedure drop list.
3. Write code into the newly created subroutine. For example, a subroutine can be created to validate Access form data, with entered entries reported, before the form is saved. Select the **BEFORECLOSE** event from the PROCEDURE list at the top of the form's code window. A new subroutine is automatically created called **Sub Form1_BeforeClose (Cancel As Integer), Insert validation code and it will run just before the form's contents are saved.**

Navigating Code Window Lists

Object List Items

- GENERAL:** Displays all existing subroutine and function procedures.
- WORKSHEET > WORKBOOK:** Displays code for the selected Excel worksheet or workbook.
- DOCUMENT:** Displays code for a selected Word document.
- [Name of Control]:** Displays code for the Access object or sub-object within the selected form or report.

Procedure List Items

- DECLARATIONS:** To jump to a code window's Declarations area above the first procedure.
- [Event Name]:** To create a procedure or to display code that acts on the selected object.
- [Procedure Name]:** To navigate to an existing procedure within a code window.

Useful Keyboard Shortcuts

- Shift + F10:** Hold this key down while opening an Office application and its AutoOpen code will be bypassed.
- Ctrl-Break:** Stops running code. This key combination is particularly useful in halting infinite loops.
- Shift-F2:** Displays the VBA Editor Object Browser definition of an object, method, or property selected in a code window.
- Alt-F8:** Display a list of macros in Excel or Word.

Bloomberg Technical Reference Guide Vba

Yves Hilpisch



Bloomberg Technical Reference Guide Vba:

Python for Finance Yves Hilpisch, 2014-12-11 The financial industry has adopted Python at a tremendous rate recently with some of the largest investment banks and hedge funds using it to build core trading and risk management systems This hands on guide helps both developers and quantitative analysts get started with Python and guides you through the most important aspects of using Python for quantitative finance Using practical examples through the book author Yves Hilpisch also shows you how to develop a full fledged framework for Monte Carlo simulation based derivatives and risk analytics based on a large realistic case study Much of the book uses interactive IPython Notebooks with topics that include Fundamentals Python data structures NumPy array handling time series analysis with pandas visualization with matplotlib high performance I O operations with PyTables date time information handling and selected best practices Financial topics mathematical techniques with NumPy SciPy and SymPy such as regression and optimization stochastics for Monte Carlo simulation Value at Risk and Credit Value at Risk calculations statistics for normality tests mean variance portfolio optimization principal component analysis PCA and Bayesian regression Special topics performance Python for financial algorithms such as vectorization and parallelization integrating Python with Excel and building financial applications based on Web technologies

Computerworld ,2003-08-18 For more than 40 years Computerworld has been the leading source of technology news and information for IT influencers worldwide Computerworld s award winning Web site Computerworld com twice monthly publication focused conference series and custom research form the hub of the world s largest global IT media network

[Technical Analysis of Stocks and Commodities](#) ,2007

Unlocking Financial Data Justin Pauley, 2017-10-06 Investors recognize that technology is a powerful tool for obtaining and interpreting financial data that could give them the one thing everyone on Wall Street wants an edge Yet many don t realize that you don t need to be a programmer to access behind the scenes financial information from Bloomberg IHS Markit or other systems found at most banks and investment firms This practical guide teaches analysts a useful subset of Excel skills that will enable them to access and interpret financial information without any prior programming experience This book will show analysts step by step how to quickly produce professional reports that combine their views with Bloomberg or Markit data including historical financials comparative analysis and relative value For portfolio managers this book demonstrates how to create professional summary reports that contain a high level view of a portfolio s performance growth risk adjusted return and composition If you are a programmer this book also contains a parallel path that covers the same topics using C Topics include Access additional data that isn t visible on Bloomberg screens Create tables containing corporate data that makes it possible to compare multiple companies bonds or loans side by side Build one page analytic Tear Sheet reports for individual companies that incorporates important financials custom notes relative value comparison of the company to its peers and price trends with research analyst targets Build two page portfolio summary report that contains a high level view of the portfolio s

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covering theoretical foundations practical applications and data driven decision making Simulation Optimization and Machine Learning for Finance offers a comprehensive introduction to the quantitative tools essential for asset management and corporate finance This extensively revised and expanded edition builds upon the foundation of the textbook Simulation and Optimization in Finance integrating the latest advancements in quantitative tools Designed for undergraduates graduate students and professionals seeking to enhance their analytical expertise in finance the book bridges theory with practical application making complex financial concepts more accessible Beginning with a review of foundational finance principles the text progresses to advanced topics in simulation optimization and machine learning demonstrating their relevance in financial decision making Readers gain hands on experience developing financial risk models using these techniques fostering conceptual understanding and practical implementation Provides a structured introduction to probability inferential statistics and data science Explores cutting edge techniques in simulation modeling optimization and machine learning Demonstrates real world asset allocation strategies advanced portfolio risk measures and fixed income portfolio management using quantitative tools Covers factor models and stochastic processes in asset pricing Integrates capital budgeting and real options analysis emphasizing the role of uncertainty and quantitative modeling in long term financial decision making Is suitable for practitioners students and self learners

The Vermont Bar Journal & Law Digest ,1994 **The Petroleum Economist** ,1998 *Cumulated Index to the Books* ,1999 Graduate Programs in Business, Education, Health, Information Studies, Law and Social Work Peterson's Guides Staff,Peterson's,2007-12 The six volumes of Peterson's Annual Guides to Graduate Study the only annually updated reference work of its kind provide wide ranging information on the graduate and professional programs offered by accredited colleges and universities in the United States and U S territories and those in Canada Mexico Europe and Africa that are accredited by U S accrediting bodies Books 2 through 6 are divided into sections that contain one or more directories devoted to individual programs in a particular field Book 6 contains more than 19 000 programs of study in 147 disciplines of business education health information studies law and social work *Excel VBA* Elite Tech Academy,2019-05-17 Get the Kindle version FREE when purchasing the Paperback Have you always wanted to learn EXCEL VBA Programming but are afraid it ll be too difficult for you What if you had access to an Excel VBA guide who would literally take you step by step through every essential process of learning this application Excel is one of the most powerful software tools in the world for collecting analyzing and summarizing data but its incredible power comes at a cost Excel is a massive program and it can literally take a beginner months or even years to master it Research shows that many first time Excel users don t take advantage of all the program s functionality Beginners continue to manually enter data instead of easily using macros that could save them a ton of time and skyrocket their productivity Over the years I have realized that nearly every operation that you could perform with a mouse keyboard or a dialog box could also be done by using VBA Further if it can be done once with VBA it can easily be done a hundred or a thousand times

As you read this book you will start to realize the incredible power that VBA has in automating repetitive or routine tasks Whether your goal is to use Excel VBA in your day job to enhance your productivity or you would like to use your VBA Programming skills in another profession I can tell you this This book is for you This is my step by step manual that will literally take you through every essential process of mastering the basics of Excel VBA Programming Here s What You ll Discover The TOP 5 reasons why you should Learn Excel VBA Programming today You have never used VBA before No worries as I will take you step by step with images to getting started with the Visual Basic Editor What are Objects and Object Properties in EXCEL VBA Find out on pages 19 through 22 An Introduction to Programming Concepts such as Variables Program Control Looping structures and Syntax to get you ready for the next level The 2 most Critical Rules that you MUST follow while Scoping and Declaring Variables How to create and work with VBA Sub and Function Procedures I will walk you through Writing and Recording MACROS Understand this chapter thoroughly and you are on your way to success VBA Error Types and Error Handling Techniques We will step through VBA Programming Examples and Techniques Are you ready for the next level Let s talk about User Forms and how to create these with specific examples You will learn the most important UserForm Techniques and Tricks that I have used successfully for years We will go over Worksheet Functions and Add Ins Pivot Tables Pivot Tables are one of the most powerful features within Excel Unfortunately a vast majority of Excel users never take advantage of this feature believing it is too complicated We will walk through a step by step process on how to create and use Pivot Tables with VBA And much more So What Are You Waiting For The opportunity is there Will you take it Click the BUY button now to start learning EXCEL VBA Programming today Tags excel for dummies excel vba excel vba programming for dummies excel vba programming for beginners excel vba 2019 excel vba 2016 excel vba for dummies excel 2016 microsoft excel 2016 excel 2016 bible excel 2016 for dummies excel 2016 essential skills excel 2016 vba excel 2016 formulas and functions excel 2016 basics excel for beginners excel 2016 power programming with vba **VB & VBA in a Nutshell: The Language** Paul Lomax,2008-02-21 The online documentation of VB VBA language components seems to follow the 80 20 rule the basic facts that you need to use a language statement are provided in the documentation But the additional 20 percent that you need to use it effectively or to apply it to special cases is conspicuously absent To a professional VB VBA programmer though this missing 20 percent of the language s documentation isn t a luxury it s a necessity And in VB VBA in a Nutshell The Language it finally is available The bulk of the book consists of an alphabetical reference to the statements procedures and functions of the VB VBA language Each entry has a standardized listing containing the following information Its syntax using standard code conventions Differences in the operation of the keyword in a macro environment e g in Office and in Visual Basic if there are any A list of arguments accepted by the function or procedure if any A description of the data type returned by a function The finer points of a keyword s usage that are often omitted from or blurred over by the documentation Tips and gotchas that include undocumented behaviors and practical

applications for particular language elements a section particularly invaluable for diagnosing or avoiding potential programming problems A brief nonobvious example that illustrates the use of the keyword Also included in VB VBA in a Nutshell The Language is a brief overview of the VB VBA language including Basic VBA programming concepts such as its data types and its support for variables constants and arrays Error handling in VBA applications Object programming with VBA Using VBA with particular applications Excel and Project are utilized to show how to work with an application s integrated development environment and to take advantage of its object model Regardless of how much experience you have programming with VBA this is the book you ll pick up time and time again both as your standard reference guide and as a tool for troubleshooting and identifying programming problems VB VBA in a Nutshell The Language is the definitive reference for Visual Basic and VBA developers

Definitive Guide to Excel VBA Michael Kofler,2008-01-01 In this book Michael Kofler provides definitive coverage of Visual Basic for Applications VBA for Excel by showing how it can be used to implement real world business solutions Designed to be useful to programmers who have never used VBA before it also covers advanced topics needed for users already familiar with VBA First Kofler introduces VBA and gives examples of the kinds of tasks that it can perform He then introduces the Excel object model focusing on the unique characteristics of programming and debugging code that are associated with spreadsheets The next few chapters cover menus toolbars forms and templatesthe tools for creating customized user interfaces and full featured applications Kofler then moves on to a broad range of advanced topics including automating graphs and diagrams accessing external databases from Excel and analyzing data using grouping and pivot tables He even covers Excel related features of Office Developer such as the development of COM Add Ins Throughout the book the author never loses sight of the real world problems faced by Excel programmers The book also explores ways to avoid undocumented problems that may arise when programming Excel VBA practical knowldege that was gained through years of hard experience

Visual Basic for Applications (VBA) 2013 Quick Reference Guide Beezix Software Services,2014-07-09 Four page laminated quick reference guide that will open the world of Microsoft Office automation in Word Excel PowerPoint and Access You will learn how to modify macros customize functions and create your own programming Written with Beezix s trademark focus on clarity accuracy and the user s perspective this guide will be a valuable resource for composing Visual Basic for Applications code Geared toward the intermediate to advanced Microsoft Office 2013 user The following topics are covered Getting Started Showing the Developer Tab Setting Macro Security Opening a Code Window Deleting a Code Window Saving Code Project Explorer Names Code Name Rules VBA Editor tips Password Protect Code Navigating Code Window Lists Object List Items and Procedure List Items Organizing Code Variables and Constants for Efficiency Good Practices with Variables Sophistication with VBA Functions Useful VBA Function Categories Decision Power with IF and SELECT Troubleshooting Constructing a Code Statement Simple Code Variables Code Decisions Eliminating Repeats Interacting with Users

Visual Basic for Applications (VBA) 2016 Introduction Quick

Reference Guide - Windows Version (Cheat Sheet of Instructions, Tips Beezix Software Services,2018-03-05 Four page example rich laminated quick reference guide that will open the world of Microsoft Office automation in Word Excel PowerPoint and Access You will learn how to modify macros customize functions and create your own programming Written with Beezix s trademark focus on clarity accuracy and the user s perspective this guide will be a valuable resource for composing Visual Basic for Applications code Geared toward the intermediate to advanced Microsoft Office 2016 user The following topics are covered Getting Started Showing the Developer Tab Setting Macro Security Organizing VBA Projects Opening or Creating Code Windows Deleting a Code Window Creating VBA Code Running VBA Code Saving Code Saving Global Macros Code Name Rules VBA Editor Tips Using Understanding the VBA Language Good Practices with Variables Decision Power Troubleshooting Sophistication with VBA Functions Useful VBA Function Categories Troubleshooting Catching Bugs Trap Errors Troubleshooting Tips Simple Code Variables Code Decisions Eliminating Repeats Reaching Out to Users *Microsoft 365 Excel VBA Programming For Dummies* Dick Kusleika,2025-01-03 Your step by step guide to doing more with Microsoft Excel Fully updated for the latest version of Office 365 Excel VBA Programming For Dummies will take your Excel knowledge to the next level With a little background in Visual Basic for Applications VBA programming you can go well beyond basic spreadsheets and functions Learn the coding basics and syntax you need to write simple or complex macros that can automate your routine Excel tasks Become an Excel power user by automating data management user forms pivot tables and beyond When you use VBA to perform Excel operations you can reduce errors save time and integrate with other Microsoft applications This handy guide also teaches you how to control the security settings for your macros and save macros to use across files and apps Plus you ll get updated coverage of Copilot AI integration Your spreadsheets are about to get much more powerful Get started with VBA coding to create macros and automate tasks in Excel Follow step by step instructions to write and execute your first scripts Learn about the advanced functions available with the VBA language Perform tasks faster and integrate excel with other Microsoft apps This Dummies guide is right up your alley if you re an Excel user looking to learn some next level features Students and professionals alike will reap the benefits of automation thanks to Excel VBA Programming For Dummies *From VBA to VSTO* Dr. Gerard M. Verschuuren,2006-04-12 This Excel user s guide to VSTO the new Excel Macro programming language being promoted by Microsoft shows how to perform the equivalent VBA actions with VSTO The differences between the VSTO and VBA development environments are explained helping Excel users decide if they should embrace VSTO or seek out other technologies Excel VBA Programming For Dummies John Walkenbach,2004-08-20 Having Excel and just using it for standard spreadsheets is a little like getting the ultimate cable system and a 50 flat panel plasma HDTV and using it exclusively to watch Lawrence Welk reruns With Visual Basic for Applications VBA programming you can take advantage of numerous Excel options such as creating new worksheet functions automating tasks and operations creating new appearances toolbars and menus designing custom dialog boxes and

add ins and much more This guide is not for rank Excel amateurs It s for intermediate to advanced Excel users who want to learn VBA programming or whose bosses want them to learn VBA programming You need to know your way around Excel before you start creating customized short cuts or systems for speeding through Excel functions If you re an intermediate or advanced Excel user Excel VBA For Dummies helps you take your skills and your spreadsheets to the next level It includes An introduction to the VBA language A hands on guided step by step walk through developing a useful VBA macro including recording testing and changing it and testing it The essential foundation including the Visual Basic Editor VBE and its components modules Excel object model subroutines and functions and the Excel macro recorder The essential VBA language elements including comments variables and constants and labels Working with Range objects and discovering useful Range objective properties and methods Using VBA and worksheet functions including a list and examples Programming constructions including the GoTo statement the If Then structure Select Case For Next loop Do While loop and Do Until loop Automatic procedures and Workbook events including a table and event handler procedures Error handling and bug extermination techniques and using the Excel debugging tools Creating custom dialog boxes also known as UserForms with a table of the toolbox controls and their capabilities how to for the dialog box controls and UserForm techniques and tricks Customizing the Excel toolbars Using VBA code to modify the Excel menu system Creating worksheet functions and working with various types of arguments Creating Excel add ins such as new worksheet functions you can use in formulas or new commands or utilities Author John Walkenbach is a leading authority on spreadsheet software and the author of more than 40 spreadsheet books including Excel 2003 Bible and Excel 2003 Power Programming with VBA While this guide includes tons of examples and screenshots Walkenbach knows there s no substitute for hands on learning The book is complete with A dedicated companion Web site that includes bonus chapters plus all sample programs to save you a lot of typing and let you play around and experiment with various changes Information to help you make the most of Excel s built in Help system so you can find out other stuff you may need to know What are you waiting for Sure learning to do VBA programming takes a little effort but it s a Very Big Accomplishment

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