

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.

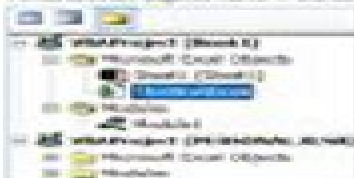
1. Press <Alt-F11> or choose **DEVELOPER, VISUAL BASIC**.
2. Open the left-side Project Explorer pane. If necessary, use **VBA, PROJECT EXPLORER** or <Ctrl-R>.

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 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. Rename to these programs.

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

Saving Global Macros

Macros, recorded in Excel or Word can be used to be available 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.VBA 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 Form_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 or 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.

Vba Quick Reference Guide

Beezix Software Services

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Vba Quick Reference Guide:

VBA for Dummies Quick Reference Paul Litwin,1997 This quick reference gives tips and techniques that can be applied to VBA programming for any application Non programmers also will be able to use VBA with Microsoft Office and many other VBA licensed software packages

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

The Unofficial Guide to Microsoft Office Excel 2007 Julia Kelly,Curt Simmons,2008-03-11 The inside scoop for when you want more than the official line Microsoft Office Excel 2007 may be just what you need to crunch numbers but to use it with confidence you ll need to know its quirks and shortcuts Find out what the manual doesn t always tell you in this insider s guide to using Excel in the real world What are the secrets of pro users Are there shortcuts for repetitive tasks From writing formulas to using charts first get the official way then the best way from two experts Unbiased coverage of how to get the most out of Excel 2007 from creating workbooks and writing formulas to comparing data Savvy real world advice

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Transact-SQL Programming Kevin Kline, Lee Gould, Andrew Zanevsky, 1999 Provides detailed information about Transact SQL programming and shows specific differences between the Microsoft and Sybase versions of the language

ADO ActiveX Data Objects Jason T. Roff, 2001 The architecture of ADO ActiveX Data Objects Microsoft s newest form of database communication is simple concise and efficient This indispensable reference takes a comprehensive look at every object collection method and property of ADO for developers who want to get a leg up on this technology

Microsoft Excel 2019 Programming Pocket Primer Julitta Korol, 2019-05-22 As part of the best selling Pocket Primer series this book was designed for someone like you who needs to master Excel programming fundamentals without spending too much time All you need is a short book to get you started It will show you only the things you need to know to feel at home with VBA What you learn in this book on Excel programming will also apply to say Access programming The book is divided into nine chapters that progressively introduce you to programming Microsoft Excel 2019 Features Includes a companion disc with all of the Hands On files needed to complete the chapter projects and all the images from the text Introduces you to programming Microsoft Excel 2019

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