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Greg Harvey, PhD
*Author of all editions of Windows
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by Greg Harvey



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About the Author

Greg Harvey has authored tons of computer books, the most recent being *Excel 2010 For Dummies*, *Windows 7 For Dummies Quick Reference*, and *Excel 2010 Workbook For Dummies*. He started out training business users on how to use IBM personal computers and their attendant computer software in the rough-and-tumble days of DOS, WordStar, and Lotus 1-2-3 in the mid-eighties of the last century. After working for a number of independent training firms, he went on to teaching semester-long courses in spreadsheet and database management software at Golden Gate University in San Francisco.

His love of teaching has translated into an equal love of writing. *For Dummies* books are, of course, his all-time favorites to write because they enable him to write to his favorite audience, the beginner. They also enable him to use humor (a key element to success in the training room) and, most delightful of all, to express an opinion or two about the subject matter at hand.

Dedication

To all the students in my different computer classes who taught so much about what's really important and what's not when it comes to using computer software.

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Introduction

Excel 2010 *All-in-One For Dummies* brings together plain and simple information on using all aspects of the latest and greatest version of Microsoft Excel. It's designed to be of help no matter how much or how little experience you have with the program. As the preeminent spreadsheet and data analysis software for the personal computer, Excel offers its users seemingly unlimited capabilities too often masked in technical jargon and obscured by explanations only a software engineer could love. On top of that, many of the publications that purport to give you the lowdown on using Excel are quite clear on how to use particular features without giving you a clue as to why you would go to all the trouble.

The truth is that understanding how to use the abundance of features offered by Excel is only half the battle, at best. The other half of the battle is to understand how these features can benefit you in your work, in other words, "what's in it for you." I have endeavored to cover both the "how to" and "so what" aspects in all my discussions of Excel features, being as clear as possible and using as little tech-speak as possible.

Fortunately, Excel is well worth the effort to get to know because it's definitely one of the best data processing productivity tools that has ever come along. Its all new Ribbon user interface, Live Preview feature, and tons of readymade galleries make this version of the program the easiest to use ever. In short, Excel 2010 is a blast to use when you know what you're doing, and my great hope is that this "fun" aspect of using the program comes through on every page (or, at least, every other page).

About This Book

As the name states, *Excel 2010 All-in-One For Dummies* is a reference (whether you keep it on your desk or use it to prop up your desk is your business). This means that although the chapters in each book are laid out in a logical order, each stands on its own ready for you to dig into the information at any point.

As much as possible, I have endeavored to make the topics within each chapter stand on their own. When there's just no way around relying on some information that's discussed elsewhere, I include a cross-reference that gives you the chapter and verse (actually the book and chapter) for where you can find that related information if you're of a mind to.

Use the full Table of Contents and Index to look up the topic of the hour and find out exactly where it is in this compilation of Excel information. You'll find that although most topics are introduced in a conversational manner, I don't waste much time cutting to the chase by laying down the main principles at work (usually in bulleted form) followed by the hard reality of how you do the deed (as numbered steps).

Foolish Assumptions

I'm only going to make one foolish assumption about you and that is that you have some need to use Microsoft Excel in your work or studies. If pushed, I further guess that you aren't particularly interested in knowing Excel at an expert level but are terribly motivated to find out how to do the stuff you need to get done. If that's the case, this is definitely the book for you. Fortunately, even if you happen to be one of those newcomers who's highly motivated to become the company's resident spreadsheet guru, you've still come to the right place.

As far as your hardware and software goes, I'm assuming that you already have Excel 2010 (usually as part of Microsoft Office 2010) installed on your computer, using a standard installation running under either Windows Vista or Windows XP.



This book is intended *only* for users of Microsoft Office Excel 2010! Because of the deep and significant changes to the user interface in Excel 2010, if you're using a previous version of Excel for Windows from Excel 97 through 2003, the information in this book will only confuse and confound you, as your version of Excel works nothing like the 2010 version this book describes.

If you're using a version of Excel that is from 2003 or earlier, please put this book down slowly and instead pick up a copy of *Excel 2003 All-in-One Desk Reference For Dummies*, published by Wiley Publishing. If, however, you're using Excel 2007, you will find slight differences between this and the 2010 version that, although not major, nonetheless warrant purchasing the more recent, *Excel 2007 All-in-One Desk Reference For Dummies*, also published by Wiley Publishing.

How This Book Is Organized

Excel 2010 All-in-One For Dummies is actually eight smaller books rolled into one. That way, you can go after the stuff in the particular book that really interests you at the time, putting all the rest of the material aside until you

need to have a look at it. Each book in the volume consists of two or more chapters consisting of all the basic information you should need in dealing with that particular component or aspect of Excel.

In case you're the least bit curious, here's the lowdown on each of the eight books and what you can expect to find there.

Book I: Excel Basics

This book is for those of you who've never had a formal introduction to the program's basic workings. Chapter 1 covers all the orientation material including how to deal with the program's new Ribbon user interface. Of special interest may be the section on migrating to Excel 2010 from earlier versions of Excel: This section is primarily intended to ease users who have some experience with earlier versions of Excel (97 through 2007) through the first moments of getting used to Excel's new way of doing business.

Chapter 2 is your place to go to find out how to get online help in Excel. Believe it or not, after you have the *All-in-One* basics down, some of the online help topics actually start making sense!

Chapter 3 is not to be missed, even by those of you who do not consider yourselves beginners by any stretch of the imagination. This chapter covers the many ways to customize Excel and make the program truly your own. It includes information on customizing the Quick Access toolbar as well as great information on how to use and procure add-in programs that can greatly extend Excel's considerable features.

Book II: Worksheet Design

Book II focuses on the crucial issue of designing worksheets in Excel. Chapter 1 takes up the call on how to do basic design and covers all the many ways of doing data entry (a subject that's been made all the more exciting with the addition of voice and handwriting input).

Chapter 2 covers how to make your spreadsheet look professional and read the way you want it through formatting. Excel offers you a wide choice of formatting techniques, from the very simple formatting as a table all the way to the now very sophisticated and super-easy conditional formatting.

Chapter 3 takes up the vital subject of how to edit an existing spreadsheet without disturbing its design or contents. Editing can be intimidating to the new spreadsheet user because most spreadsheets not only contain data entries that you don't want to mess up but formulas that can go haywire if you make the wrong move.

Chapter 4 looks at the topic of managing the worksheets that contain the spreadsheet applications that you build in Excel. It opens the possibility of going beyond the two-dimensional worksheet with its innumerable columns and rows by organizing data three-dimensionally through the use of multiple worksheets (each Excel file already contains three blank worksheets to which you can add more). This chapter also shows you how to work with and organize multiple worksheets given the limited screen real estate afforded by your monitor and how to combine data from different files and sheets when needed.

Chapter 5 is all about printing your spreadsheets, a topic that ranks only second in importance to knowing how to get the data into a worksheet in the first place. As you expect, you find out not only how to get the raw data to spit out of your printer but also how to gussy it up and make it into a professional report of which anyone would be proud.

Book III: Formulas and Functions

This book is all about calculations and building the formulas that do them. Chapter 1 covers formula basics from doing the simplest addition to building array formulas and using Excel's built-in functions courtesy of the Function Wizard. It also covers how to use different types of cell references when making formula copies and how to link formulas that span different worksheets.

Chapter 2 takes up the subject of preventing formula errors from occurring, and, barring that, how to track them down and eliminate them from the spreadsheet. This chapter also includes information on circular references in formulas and how you can sometimes use them to your advantage.

Chapters 3 through 6 concentrate on how to use different types of built-in functions. Chapter 3 covers the use of date and time functions, not only so you know what day and time it is, but actually put this knowledge to good use in formulas that calculate elapsed time. Chapter 4 takes up the financial functions in Excel and shows you how you can use them to both reveal and determine the monetary health of your business. Chapter 5 is concerned with math and statistical functions (of which there are plenty). Chapter 6 introduces you to the powerful group of lookup, information, and text functions. Here, you find out how to build formulas that automate data entry by returning values from a lookup table, get the lowdown on any cell in the worksheet, and combine your favorite pieces of text.

Book IV: Worksheet Collaboration and Review

Book IV looks at the ways you can share your spreadsheet data with others. Chapter 1 covers the important issue of security in your spreadsheets. Here, you find out how you can protect your data so that only those to whom you give permission can open or make changes to their contents.

Chapter 2 takes up the subject of building and using hyperlinks in your Excel spreadsheets (the same kind of links that you know and love on Web pages on the World Wide Web). This chapter covers how to create hyperlinks for moving from worksheet to worksheet within the same Excel file as well as for opening other documents on your hard disk, or logging onto the Internet and browsing to a favorite Web page.

Chapter 3 introduces Excel's sophisticated features for sending out spreadsheets and having a team of people review and make comments on them. It also covers techniques for reviewing and reconciling the suggested changes.

Chapter 4 is concerned with sharing spreadsheet data with other programs that you use. It looks specifically at how you can share data with other Office 2010 programs such as Microsoft Word, PowerPoint, and Outlook. This chapter also discusses the role of Actions in enabling you to automatically bring information into your spreadsheets from outside sources such as your Outlook Address Book and special Web sites on the Internet, how to save Excel files in a bunch of other easily-accessed file formats (PDF, XPS, and HTML), and how to publish them to shared spaces.

Book V: Charts and Graphics

Book V focuses on the graphical aspects of Excel. Chapter 1 covers charting your spreadsheet data in some depth. Here, you find out not only how to create great looking charts but also how to select the right type of chart for the data that you're representing graphically.

Chapter 2 introduces you to all the other kinds of graphics that you can have in your spreadsheets. These include graphic objects that you draw as well as graphic images that you import, including clip art included in Microsoft Office as well as digital pictures and images imported and created with other hardware and software connected to your computer.

Book VI: Data Management

Book VI is concerned with the ins and outs of using Excel to maintain large amounts of data in what are known as databases or, more commonly, data lists. Chapter 1 gives you basic information on how to set up a data list and add your data to it. This chapter also gives you information on how to reorganize the data list through sorting and how to total its numerical data with the Subtotal feature.

Chapter 2 is all about how to filter the data and extract just the information you want out of it (a process officially known as querying the data). Here, you find out how to perform all sorts of filtering operations from the simplest, relying upon the AutoFilter feature, to the more complex that use custom filters and specialized database functions. Finally, you find out how to perform queries on external data sources such as those maintained with

dedicated database management software for Windows such as Microsoft Access or dBASE as well as those that run on other operating systems such as DB2 and Oracle.

Book VII: Data Analysis

Book VII looks at the subject of data analysis with Excel; essentially how to use the program's computational abilities to project and predict possible future outcomes. Chapter 1 looks at the various ways to perform what-if scenarios in Excel. These include analyses with one- and two-input variable data tables, doing goal seeking, setting a series of different possible scenarios, and using the Solver add-in.

Chapter 2 is concerned with the topic of creating special data summaries called pivot tables that enable you to analyze large amounts of data in an extremely compact and modifiable format. Here, you find out how to create and manipulate pivot tables as well as build pivot charts that depict the summary information graphically.

Book VIII: Excel and VBA

Book VIII introduces the subject of customizing Excel through the use of its programming language called Visual Basic for Applications (VBA for short). Chapter 1 introduces you to the use of the macro recorder to record tasks that you routinely perform in Excel for later automated playback. When you use the macro recorder to record the sequence of routine actions (using the program's familiar menus, toolbars, and dialog boxes), Excel automatically records the sequence in the VBA programming language.

Chapter 2 introduces you to editing VBA code in Excel's programming editor known as the Visual Basic Editor. Here, you find out how to use the Visual Basic Editor to edit macros that you've recorded that need slight modifications as well as how to write new macros from scratch. You also find out how to use the Visual Basic Editor to write custom functions that perform just the calculations you need in your Excel spreadsheets.

Conventions Used in This Book

This book follows a number of different conventions modeled primarily after those used by Microsoft in its various online articles and help materials. These conventions deal primarily with Ribbon command sequences and shortcut or hot key sequences that you encounter.

Excel 2010 is a sophisticated program that uses the Ribbon interface first introduced in Excel 2007. In Chapter 1, I explain all about this new Ribbon interface and how to get comfortable with its new command structure. Throughout the book, you'll find Ribbon command sequences using the