

Advanced Excel 2010




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Advanced Excel 2010

What's new in Excel 2010 Intro

- Customizable ribbon
- Office Backstage View
- Workbook management tools
- Sparkline's
- Slicers
- Paste with Live Preview
- New Equation editing tools
- Many other enhancements



TIP See these resources:
[What's New in Excel 2010: http://office.microsoft.com/en-us/excel-help/what-s-new-in-excel-2010-HA010369709.aspx?CTT=5&origin=HA101842942f_Toc274334080](http://office.microsoft.com/en-us/excel-help/what-s-new-in-excel-2010-HA010369709.aspx?CTT=5&origin=HA101842942f_Toc274334080)
[Guide to locate favorite menu and toolbar commands in 2010 Ribbons: http://office.microsoft.com/en-us/outlook-help/learn-where-menu-and-toolbar-commands-are-in-office-2010-and-related-products-HA101794130.aspx?Toc268688375](http://office.microsoft.com/en-us/outlook-help/learn-where-menu-and-toolbar-commands-are-in-office-2010-and-related-products-HA101794130.aspx?Toc268688375)

Advanced Excel 2010



- Power user Tips and Tricks
 - Master the Data
 - It's all about the Data
- Data tools to manage the Data
 - Transform the Data
- Automate - adopt Developer skills

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Power user Tips & Tricks

- **Quick Access Tool bar and Ribbon - customize**

The ribbon new to Excel 2007 allowed users to Customize quick access toolbar

➔ **New to Excel 2010 customize Ribbon**

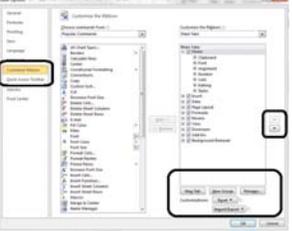
Create custom tabs and groups and rename or change the order of the built-in tabs and groups.

TIP You can also get to the Customize the Ribbon window, by right-clicking any tab on the ribbon, and then clicking Customize the Ribbon.



Advanced Excel 2010
Power user Tips & Tricks 

Excel 2010 customize Ribbon File tab\Help\Options\Click Customize Ribbon



- Customize options
- New Tab
- New Group
- Rename
- Import/Export
- Rearrange with up and down arrows

TIP See this resource
 Video: [How to customize the Ribbon;](http://office.microsoft.com/en-us/excel-help/video-customize-the-ribbon-HA101850352.aspx?CTT=5&origin=HA010355697)
<http://office.microsoft.com/en-us/excel-help/video-customize-the-ribbon-HA101850352.aspx?CTT=5&origin=HA010355697>

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Power user Tips & Tricks 

➔ **Templates** - save time and add consistency to your excel documents

File Tab\New
 templates grouped by categories

A powerful dashboard template is one of the many options available



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Power user Tips & Tricks

- ➔ **Status Bar** - get more information
Customize the status bar - right-click status bar

- ➔ **Freeze and unfreeze worksheet titles** - view titles while scrolling through large data sets
View tab \ Freeze Panes (Unfreeze Panes)
Excel displays dark lines to indicate frozen elements.


- ➔ **Split and Un-split Worksheet windows** - a toggle command, allows users to scroll and view sections of large data sets.
View tab \ Split - toggle on and off.


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Power user Tips and Tricks

- ➔ **View Side by Side**
Line up Multiple Sheets in the same Worksheet in same window
View tab \ New Window \ View Side by Side
By default, Synchronous Scrolling option is turned on, so that you can scroll through both pages by dragging the slider bar in one of them.
Turn off Synchronous Scrolling if you prefer to scroll through each sheet separately.


- ➔ **Magnification** - Zoom slider allows user to view more data on the screen. Click Zoom slider bar to desired magnification
To focus on specific group of cells or data, select data set, than slide Zoom Slider
Zoom dialog box; allows user to define zoom ration


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Power user Tips and Tricks

- ➔ **Keyboard shortcuts** - adding a few of these can be a huge time saver
CTRL key shortcuts
ALT key shortcuts - and Hot Keys for editing commands
Press ALT key - KeyTips displayed over each feature that is available in the current view.
My new favorite ALT = =SUM() function

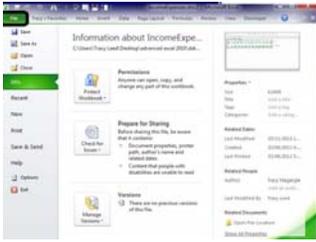

- CNTL** -: - **CTNL** than keys - [at the same time- highlights the Formulas that -Reference the Current Cell Excel 2010 Keyboard shortcuts
Function keys- F1-F12

- ➔ **F1= help; F7 spelling; F9 calculate; F10 KeyTips; F11 create chart current cell range; F12 Save As**
TIP See these resources:
[Excel 2010 Keyboard Shortcuts including PDF Quick Reference Cards: http://office.microsoft.com/en-us/excel-help/keyboard-shortcuts-in-excel-2010-HP0103424294.aspx#BM3http://office.microsoft.com/en-us/excel-help/keyboard-shortcuts-in-excel-2010-HP0103424294.aspx#BM3](http://office.microsoft.com/en-us/excel-help/keyboard-shortcuts-in-excel-2010-HP0103424294.aspx#BM3http://office.microsoft.com/en-us/excel-help/keyboard-shortcuts-in-excel-2010-HP0103424294.aspx#BM3)
[Excel 2010 keyboard shortcuts II: ALT key Course & Quick Reference Card: http://office.microsoft.com/en-us/excel-help/excel-2010-keyboard-shortcuts-ii-alt-key-shortcuts-R2102733786.aspx](http://office.microsoft.com/en-us/excel-help/excel-2010-keyboard-shortcuts-ii-alt-key-shortcuts-R2102733786.aspx)
[Excel 2010 ALT hot keys for editing commands: http://www.dummies.com/how-to/content/hot-keys-for-excel-2010-editing-commands.html](http://www.dummies.com/how-to/content/hot-keys-for-excel-2010-editing-commands.html)

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Power user Tips and Tricks

➔ **New Backstage view & File Tab** – Where you do things to the file which you don't do in the file
 Replaces File menu or Office button in earlier versions
 Contains common tasks related to files



The Office Backstage view is where you manage your files and the data about them — creating, saving, inspecting for hidden metadata or personal information, and setting options.

Backstage view – simplified printing (Ctrl+P)- preview, change settings, and print all with a live preview

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Power user Tips and Tricks

➔ **Excel 2010 Security** – Protect your files

Protected view and more!

Security Message Bars provide the opportunity to consider the potential security risks that may be in your file, and then the ability to open or read the file while reducing the risks that can occur.

Use the **Trust Center** to view security settings or to change them. **File Tab/Help- Options/Trust center**

Understand the reasons for **Protected View** and how to enable editing when it appears.

TIP See this resource
[Quick Reference Card: Office 2010 Security Protecting your files; http://office.microsoft.com/en-us/word-help/quick-reference-card-RZ101665538.aspx?section=10&mode=print](http://office.microsoft.com/en-us/word-help/quick-reference-card-RZ101665538.aspx?section=10&mode=print)

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Master the data

Format and edit - Home Tab



➔ **Transpose** – rearrange data in rows and columns
 Home tab\Clipboard\COPY\Paste\Transpose

➔ **Conditional formatting** – visual clues to data
 Home tab\Styles\Conditional Formatting

➔ **Format as Table** – quickly manage group of related data independently from data in other rows and columns.
 Home tab\Styles\Format as Table

➔ **Cell Styles**- quick and easy style changes to cells – more than 40 colorful predefined styles available
 Home tab\Styles\Cell Styles

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Master the data

Visually denote the data- Insert Tab



In Excel 2010 Chart wizard retired!

- ➔ **Charts > Insert tab** = direct access to all major types of charts
- ➔ **Pivot table and Table option** – use to quickly arrange, summarize, manage, and analyze the data
- ➔ **Slicer** – filter large data sets in more detail
- ➔ **Grouping** – outline and summarize data up to eight levels.

Advanced Excel 2010 

Master the data

- **Visually denote the data- Insert Tab**

- ➔ **Charts** – display data visually
 - Understand the parts of an excel chart to harness the power of the visualization.

The guts: Chart area, data marker, data series, axis, tick mark, plot area, gridlines, chart text, and legend.



TIP See this resource:

[Get to know the Parts of and Excel 2010 Chart;
http://www.dummies.com/how-to/content/getting-to-know-the-parts-of-an-excel-2010-chart-seriesid-223717.html](http://www.dummies.com/how-to/content/getting-to-know-the-parts-of-an-excel-2010-chart-seriesid-223717.html)

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Master the data

- ➔ **Sparkline's** – visualize data trends with one click
 - How to use Sparkline's to show data trends

TIP

How to use Sparkline's to show data trends: <http://office.microsoft.com/en-us/excel-help/use-sparklines-to-show-data-trends-HA010354892.aspx>

- ➔ **Hyperlinks** – embed links to documents, email addresses, picture, or website directly on worksheet.

Embed hyperlinks within a worksheet

The Essentials of Working with Excel 2010 Charts - For Dummies

- ➔ **Screenshot tool** - instantly insert picture of any program that is running and is not minimized. Use screen clipping to insert a part of the screen picture.



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It's all about the Data



Data tab – get connected

➔ **Get external data** – eliminate time consuming copy and paste
 Import data from a variety of sources with a few simple clicks
 After connection you can auto refresh data from its original source, manage and change connections and their properties.



TIP
 Connect to external Data Excel 2010;
<http://office.microsoft.com/en-us/excel-help/connect-to-import-external-data-HP010342297.aspx>

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It's all about the Data

➔ **Connect data (import data) from text files**



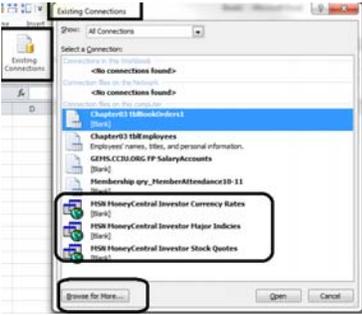
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It's all about the Data – get connected

➔ **Existing Connections**
 Data refreshed with saved connection options

MSN Money defaults

Use data connections for data files, databases, and other data sources including the Web.

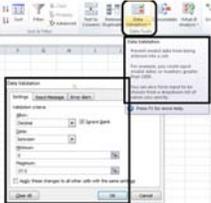


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Data tools to manage the data

Data Tab – empower yourself

- ➔ **Sort & Filter** - Specify the data you want to see with- you are the master over the data
- ➔ **Data validation** - control type of data entered into cells; Data tab\data validation.

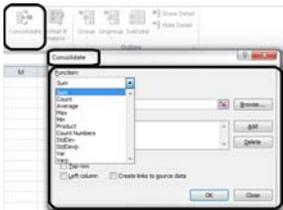


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Data tools to manage the data

Data Tab – empower yourself over the data

Consolidate - summarize and report values from multiple worksheets or workbooks into one NEW range/worksheet.
Two main techniques: by position; by category
[Data Tab/Consolidate](#)



Various functions available

Let's try!

TIPS [Consolidate data from multiple worksheets in a single worksheet](#)
[Video: Consolidate Excel Data from multiple workbooks](#)

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Data tools to manage the data

Data Tab – empower yourself

- ➔ **What -If Analysis**: -test values for the formulas in the sheet
- Scenario Manager**- Create and save various scenarios and switch between them
- Goal Seek**- find a desired value for a formula-
- Data tables**-see results of varied possible inputs.



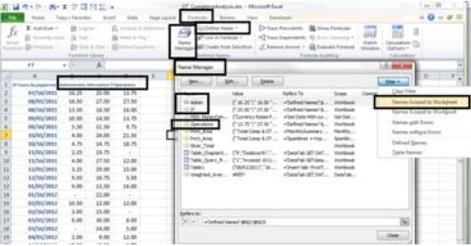
TIPS
[Intro to What -if analysis; http://office.microsoft.com/en-us/excel-help/introduction-to-what-if-analysis-HA010243164.aspx](http://office.microsoft.com/en-us/excel-help/introduction-to-what-if-analysis-HA010243164.aspx)
[Video: What-if analysis example; http://www.youtube.com/watch?v=2yehZAbj9lw](http://www.youtube.com/watch?v=2yehZAbj9lw)
[Compare Budgets with Scenarios; http://blog.contextures.com/archives/2009/12/16/compare-budgets-with-excel-scenarios/](http://blog.contextures.com/archives/2009/12/16/compare-budgets-with-excel-scenarios/)
[Video: What-If / Data Tables; http://www.youtube.com/watch?v=eSRr3a6pYY](http://www.youtube.com/watch?v=eSRr3a6pYY)

Let's Try it!

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Transform the data !

The Formula tab – take action
Function Library
Defined names - simplify data ranges for use in formulas



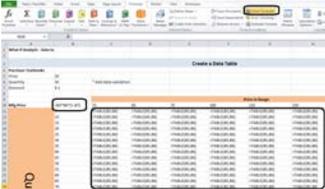
Ex, 3 names for Admin, IT, Operations created, review in name manager, use filter to assist with viewing defined names!

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Transform the data ! Formula Tab

➔ *Show Formulas* – powerful feature which auto displays all functions

HIDDEN GEM



➔ *Calculate Options* – specify when functions are calculated, default is recalculate when formula change made

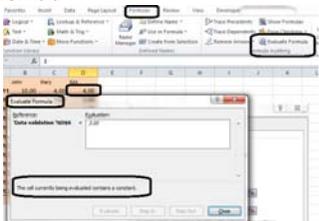
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Transform the data !

The Formula tab – take action
Function Library
 ➔ *Evaluate Formula* –

Select cell than evaluate formula option to get results

Results here
 Cell using data validation and contains a constant



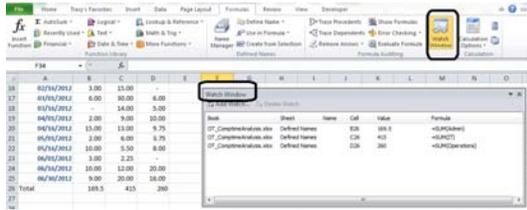
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Transform the data !

The Formula tab – take action

Function Library

➡ **Watch Window** – monitor values of specified cells



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Transform the data !

Formula Tab

➡ **Rank data with Functions**

- =Percentile()** – specify ranking and return a value.
- =PercentRank()** – returns percentage based on specified value.
- =Quartile()** – returns value of cell range based on specified variable that divides distribution into four groups with equal frequency.
- =Rank()** – returns value base on the specified rank.

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Transform the data !

Formula Tab & Functions

➡ **Date functions-** for analyzing data

- =Today()** – displays current date
- =Now()** – displays current date and time
- =Date(Year, Month, Day)** – date displayed based on arguments
- =Days360()** – calculates # of days between two dates based on 360 calendar
- =NetWorkDays(StartDate,EndDate,Holidays)** – calculates number of work dates using specified dates
- =Year(Date)** – returns year portion of a date
- =Month(Date)** - returns month portion of a date

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**Transform the data !
Formula Tab & Functions**

➔ **Text Functions**

- =LEFT()** – returns leftmost characters of cell.
- =RIGHT()** – returns right most characters of cell
- =MID()**- returns specified number of characters of a cell
- =PROPER()**- capitalizes first character of each word in a cell.

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Transform the data ! Formula Tab & Functions

➔ **Sum, Average, & Count Data with conditions**

These functions calculate a range of cells based on ONE set of conditions

- =Sumif()** – sum data if it meets defined condition
- =Averageif()** – count values if they fall within specified conditions
- =Countif()**- count values if they meet specified conditions

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Transform the data ! Formula Tab & Functions

➔ **Calculate values based on multiple conditions conditionally**

- =SumIFS()**- Adds the cells in range which meet multiple criteria
- =CountIFS()** - Applies criteria to cells across multiple ranges and counts the number of times all criteria are met
- =AverageIFS()**-Returns the average (arithmetic mean) of all the cells in a range that meet a multiple criteria

Excel 2010 allows ability to calculate with multiple conditions – up to 127 cell ranges and conditions

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**Transform the data !
Formula Tab**

➔ **Conditional Formulas – If Statement**

Evaluate conditions with the **If Statement Function** – allows user to evaluate a condition in another cell or range of cells and place result in another cell.

The logical test or condition something that may be evaluated True or False. Syntax is: = If(Logical Test, Value if True, Value if False) IF(N3 > 100, N3, 0).

Requires one of these comparison operators: =, <>, >, <, >=, <=.

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Transform the data ! Formula Tab

➔ **Multiple If Functions**

Nest up to 255 If statements to evaluate more than one condition

Type closing parenthesis for each If statement in nesting.
IF(N3<100,N3*0.25+N3,IF(N3>100,N3*0.75-N3,0))

- **If Functions with Multiple AND Conditions** – AND allows you to test for multiple conditions and return a TRUE result if ALL conditions in function met. analyzing Data using
- **If Functions with Multiple OR Conditions** – OR allows you to test for multiple conditions and return a TRUE result if ONE of the conditions met

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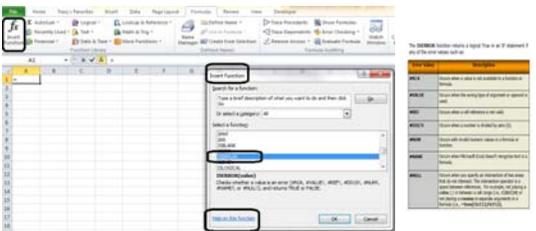
Transform the data ! Formula Tab

➔ **=Is Error function**

Use with If Statement Function to replace error messages

[is functions. http://office.microsoft.com/en-us/excel-help/is-functions-HP010342632.aspx](http://office.microsoft.com/en-us/excel-help/is-functions-HP010342632.aspx)

TIP Use Excel online for help with functions by using the insert function option



References

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- [For Dummies: The Essentials of Working with Excel 2010 Charts; http://www.dummies.com/how-to/content/the-essentials-of-working-with-excel-2010-charts.html](http://www.dummies.com/how-to/content/the-essentials-of-working-with-excel-2010-charts.html)
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- [PC Magazine: 14 Essential Excel 2010 Tips for Intermediate Users; http://www.pcmag.com/slideshow_viewer/0,3253,2657408a-2657308po-5,00.asp](http://www.pcmag.com/slideshow_viewer/0,3253,2657408a-2657308po-5,00.asp)
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- [Download Office 2010 training - PowerPoint presentations; http://office.microsoft.com/en-us/outlook-help/download-office-2010-training-HA101901726.aspx](http://office.microsoft.com/en-us/outlook-help/download-office-2010-training-HA101901726.aspx)
- [Microsoft Office; http://office.microsoft.com/](http://office.microsoft.com/)
