

Introduction to Excel 2013



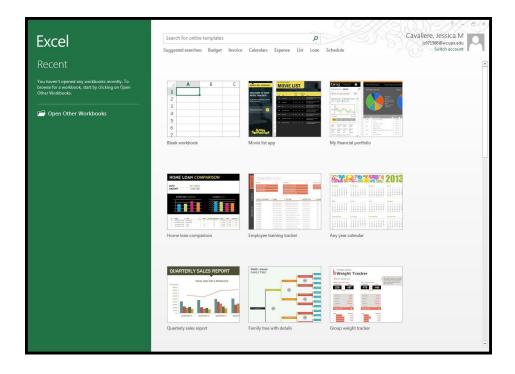
CONTENTS

Introduction	4
New Features	5
Instant Data Analysis Flash Fill One WorkbooK, One Window New Excel Functions New Charting Features	
Excel Spreadsheet	7
Quick Access Toolbar To Add / Delete Commands Mini Toolbar	
The Ribbon	
Minimizing the Ribbon	
Worksheet Tabs	10
Cells	11
Ways to Enter Information into a Cell	11 12
Cut, Copy, Paste	13
Formulas and Functions	13
Formulas Functions Setting Up a Simple Sum Function: Formula Auto-Complete Cell References	
Move and Copy	17
Moving Text	
Columns and Rows	18
Hiding / Unhiding Columns Changing the Width of Columns and Rows Changing the Width of Two or More Consecutive Columns or Rows	18
Comments	19
Page Layout	20
Saving a Workbook	21
Printing A File	21

INTRODUCTION

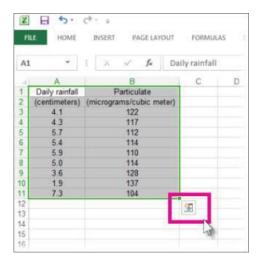
Welcome to Excel 2013. Excel is a great program to use for putting together budgets, lists for mail merges and other tasks that involve data. Excel 2013 has some of the great features of Excel 2010, but has expanded and improved upon some as well. In Excel 2013 you will find:

- An easier to find and sleeker Backstage View
- New charts and graphs that are easier to use
- Make quick reports with Power View
- Share files and work with other people



INSTANT DATA ANALYSIS

The new Quick Analysis tool helps convert data into tables, charts, and graphs in just a few steps. You can find this tool in the bottom right of your data. You can also find it by highlighting your data and pressing Ctrl + Q. Then select the graph type you would like to use.



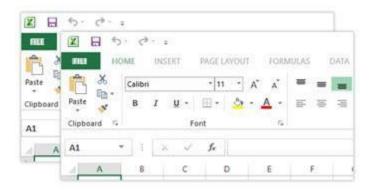
FLASH FILL

This tool recognizes common patterns in your data and finishes your work for you. You do not have to press anything to activate this tool. Flash fill starts working when a pattern is recognized. However, if you data does not have consistency, Flash Fill might not work.



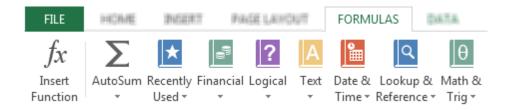
ONE WORKBOOK, ONE WINDOW

When working on multiple workbooks, each one will be shown in a new window. This can be helpful when working on 2 desktops.



NEW EXCEL FUNCTIONS

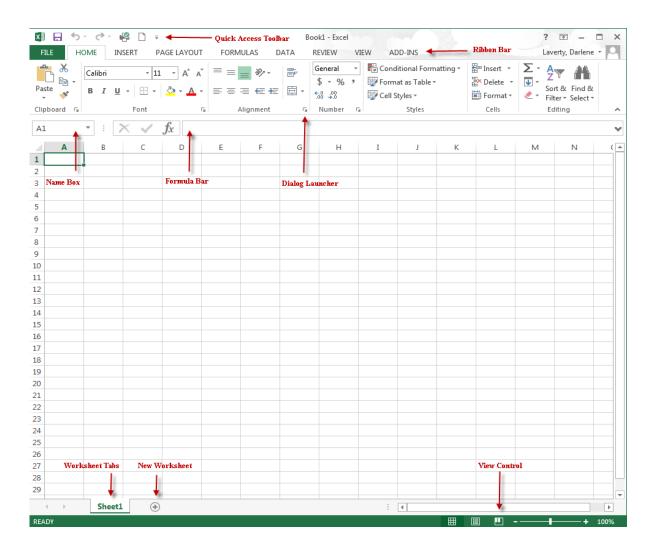
You'll find several new functions in the math and trigonometry, statistical, engineering, date and time, lookup and reference, logical, and text function categories.



NEW CHARTING FEATURES

In Excel 2013, there is a **Chart Recommendation** button that can be found under the Insert tab, where you can pick from a variety of charts that would best fit your data. You can also add **animations** in your chart by changing the source data.

EXCEL SPREADSHEET



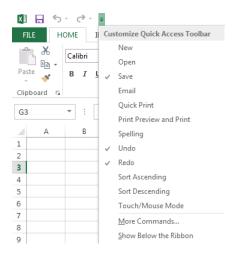
QUICK ACCESS TOOLBAR

The quick access tool bar is a customizable toolbar that contains a set of commands that are independent of the tab that is currently displayed. The Quick Access toolbar is located above the "File" Tab. You may modify this toolbar by adding and or deleting commands on the toolbar.

TO ADD / DELETE COMMANDS

- 1. Click the arrow on the right hand side of the quick access bar.
- 2. Select the name of the Command that you want to add or delete.

Check mark indicates that the command is currently active on the toolbar.



MINI TOOLBAR



The Mini Toolbar floats above your text and displays the more commonly-used formatting choices. The toolbar will only show when you are in editing mode or when you right-click in the cell.

To turn the toolbar on or off

- 1. Click the File button then Options.
- 2. Under the General tab, uncheck **Show Mini Toolbar on selection**.
- Show Mini Toolbar on selection i

THE RIBBON

The Ribbon is a device that presents commands organized into groups. The groups on the Ribbon display the commands that are the most relevant for each of the task areas in the applications.

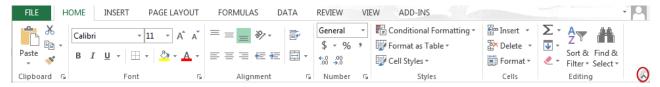


MINIMIZING THE RIBBON

The Ribbon can be minimized so that it is not visible while you are in your spreadsheet.

To *collapse* (or minimize) the **Ribbon**, do one of the following:

- 1. Double-click the label of the tab you're currently using.
- 2. Click the Minimize the Ribbon button:



RIBBON BAR GROUPS

Home Tab Clipboard, Font, Alignment, Number, Styles, Cells, Editing

Insert Tab Tables, Illustrations, Apps, Charts, Reports, Sparklines, Filters, Links, Text, Symbols

Page Layout Tab Themes, Page Setup, Scale to Fit, Sheet options, Arrange

Formulas Tab Function Library, Defined Names, Formula Auditing, Calculation

Data Tab Get External Data, Connections, Sort & Filter, Data Tools, Outline

Review Tab Proofing, Language, Comments, Changes

View Tab Workbook Views, Show, Zoom, Window, Macros

Add-Ins Menu Commands, Custom Toolbars

Quick Access Toolbar – This is a customizable toolbar that contains a set of commands that are independent of the tab that is currently displayed. You may modify this toolbar by adding and or deleting commands on the toolbar.

Ribbon Bar – A new device that presents commands organized into a set of tabs. The tabs on the Ribbon display the commands that are most relevant for each of the task areas in the applications.

Sizing Buttons – These buttons are used to manipulate the size of the spreadsheet window.

Name Box – This box displays the data in the active cell.

Dialog Launcher – This appears in the lower right corner of the Group providing access to the Group's corresponding dialog box.

Formula Bar – This bar displays the data in the active cell.

Worksheet Tabs – You can rename these sheets using up to 31 characters in the name.

Zoom Control – This option will allow you to magnify your spreadsheet. Click and drag the slide to the right to increase magnification and click and drag to the left to decrease the magnification.

Status Bar – This bar displays the current settings and commands in Excel. Also, when two or more cells are selected, and one or more contains a value, the status bar displays a total for the selected cells.

WORKSHEET TABS

Adding a Worksheet

Click on the New Worksheet sheet button.

Sheet1 +

OR

- 1. Right-Click on a worksheet tab.
- 2. Select Insert
- 3. Select Worksheet
- 4. Click OK

Renaming Sheet Tabs

- 1. Right-Click on the sheet tab
- 2. Select Rename
- 3. Type in a name for the sheet

OR

- 1. Double-click left
- 2. Change name when highlighted

Color Coding Sheet Tabs

- 1. Right-Click on the sheet tab
- 2. Select Tab Color
- 3. Pick a color

Hide and Unhide Sheet Tabs

- 1. Select the Page Layout Tab
- 2. Select Cells Format under Visibility select Hide Sheet

OR

- 1. Click the View Tab
- 2. In the Window box select Hide or Unhide

CELLS

As you begin to type you will notice that your information will appear in the formula bar as well as in the cell itself. Once you are done typing in a cell, you have to remember to ENTER that information in the cell. If you do not enter your information into that particular cell then Excel will not let you continue to the next step. Once your information has been entered, Excel will look at that particular cell as a label cell (any content that Excel cannot interpret as a number, date, time, or formula) or value cell (any data Excel interprets as a number, date, time, or formula).

WAYS TO ENTER INFORMATION INTO A CELL

- Click in another cell
- Hitting the enter key
- Hitting the tab key
- Hitting the arrow keys
- Clicking the grey check mark on the formula bar

MOVING WITHIN THE SPREADSHEET

The mouse key is easy to point, click, and drag but it's sometimes difficult to control. Therefore, there are several keystrokes that can help accomplish the same tasks.

- Arrow keys allow you to move one cell in the direction of that arrow
- Ctrl key + Arrow keys will take you to the four corners of the worksheet
- Ctrl + Home will take you to cell A1
- Tab moves one to the right and Shift + Tab moves one to the left
- Ctrl + N will open a new workbook
- Ctrl + Page Down takes you to the next sheet in a workbook
- Ctrl + Page Up takes you to the next sheet in a workbook
- Ctrl + Spacebar will highlight the entire column containing the selected cell

SELECTING CELLS

Non-consecutive cells

- 1. Select the first cell
- 2. Hold down the Ctrl key
- 3. Select any additional cells

Consecutive cells

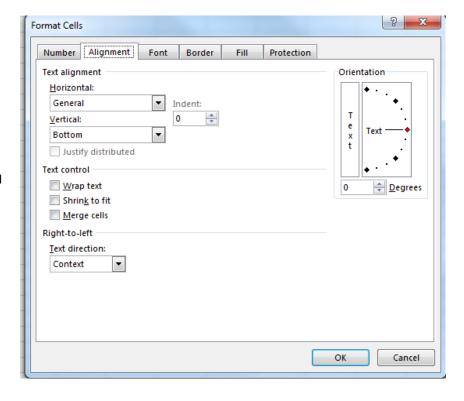
- 1. Select the first cell
- 2. Hold down the Shift key
- 3. Select the last cell

LABEL AND VALUE CELLS

To access the Format Cells box click on the Dialog Launcher in the lower right-hand corner of the alignment box.



- Select the **Number** tab to format any value cells
- Select Alignment to format your value and label cells
- Select Font to format the appearance of your value or label cells
- Select Border to add border to your cells
- Select Fill to shade your cells
- Select **Protection** to lock your cells



CUT, COPY, PASTE

As of Office 2010, you have the Paste with Live Preview option. This option allows you to determine how your content will be pasted.

- 1. Right-click on the content that is to be copied or cut.
- 2. Select Cut or Copy.
- 3. Right-click on the cell where the content will be placed.
- 4. Select a paste option. To preview before you paste, hover your mouse over the available options.

Note: Available paste options change to best fit the content you are using.

FORMULAS AND FUNCTIONS

FORMULAS

A formula is a mathematical arrangement of one or more values, cell references, functions, and operators that produce numeric value. The operators for formulas include:

- + Addition
- Multiplication
- ^ Exponentiation
- Subtraction
- / Division

FUNCTIONS

A function is an abbreviation of a formula. It provides a quick way to calculate the value of a cell that would often require a long expression. Each function begins with an equal sign followed by the name of the function.

Note:

- Calculations can only be performed on values
- To create a value cell you must always precede the data with an equal symbol (=).
- When you have a formula that contains two or more operators Excel performs the calculations in the following order: percent, exponentiation, multiplication and division, addition and subtraction, concatenation, comparison. To control this order of calculation, use parentheses. Excel evaluates all items within parentheses first, from the inside out, using the same order as listed.

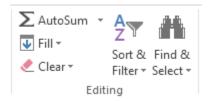
SETTING UP A SIMPLE SUM FUNCTION:

(In this example we will add the values in cells A1 through A5)

1. Select the cell where the answer will be placed. In this example, that is A6.

	Α
1	12
2	23
3	34
4	65
5	38
6	

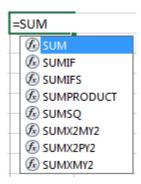
2. Select AutoSum, which is located on the Home tab in the Editing section.



3. Select the values to add. Hit Enter.

FORMULA AUTO-COMPLETE

- 1. Select the cell where the answer will be placed
- 2. Type the equal sign and the beginning letters of the function
- 3. The Formula AutoComplete box appear with valid results



- 4. Double-click on the function
- 5. Select the values to be included in the function
- 6. Type in the end Parenthesis
- 7. Hit Enter

CELL REFERENCES

Cell references can be included in formulas, built-in functions and mathematical operators. You can either type in a cell reference or select the cell with your mouse.

Relative cell reference such as A1, is based on the relative position of the cell that contains the formula and the cell the reference refers to.

Example of a relative cell reference in a formula: =A1*23

Absolute cell reference such as \$A\$1, always refers to a specific cell in a specific location.

Example of an absolute cell reference in a formula: =\$A\$1*23

Error Codes		
Error	What It Means	Suggestions/Solutions
#Value	Formula contains an argument of the wrong type.	Make sure the formula or function is correct for the required operand or argument, and that the cells referenced by the formula contain valid values.
####	The numeric value entered into a cell is too wide and too long to display within the cell. In Excel 2007 the column automatically resizes to fit the number. Resizing will not work if you have already set the column manually.	Follow the directions in this handout for changing the width of a column.
#DIV/0	Formula is trying to divide by a zero value or a blank cell.	Check the divisor in your formula and make sure it does not refer to a blank cell.
#VALUE!	This error occurs when the wrong type of argument or operant is used.	You've probably mixed two incompatible data types in one formula. Check the formula.
#N/A	This code means that "No value is available".	You can enter this into a cell that temporarily has no value.
#NAME?	Value contains text that is neither a valid function nor a defined name.	Look to make sure you didn't misspell a function name or a range name.
#NULL!	Refers to intersection of two areas that don't intersect.	Choose new labels for the row or column or both.
#NUM!	This error occurs with invalid numeric values in a formula or function.	This usually means you've used a function incorrectly. Check your function.
#REF!	This error occurs when a cell reference is not valid.	Did you delete a cell or range that this formula originally referred to? Check your formula.

MOVE AND COPY

Move and copy are two powerful features available with a spreadsheet package. It gives the user the opportunity to copy or move content of a cell to another cell without having to retype the information. The information can contain text as well as a formula or function.

MOVING TEXT

- 1. Right-click on the cell(s) you want to move
- 2. Select cut
- 3. Click on the cell you want to move the information to, right-click and select paste.

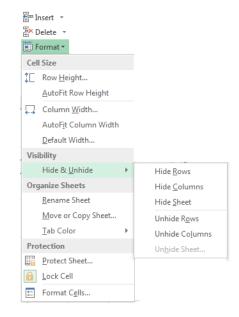
COPYING TEXT

- 1. Select the cell(s) you want to copy.
- 2. Place your mouse over the bottom right corner of the cell.
- 3. Hold down the left mouse over the bottom right corner of the cell.

COLUMNS AND ROWS

HIDING / UNHIDING COLUMNS

- 1. Select the cell within the column(s) to be hidden
- 2. Click the Home tab, in the Cells group click Format
- 3. Under the Visibility section select Hide and Unhide
- **Apply the same procedures to hide /unhide rows



CHANGING THE WIDTH OF COLUMNS AND ROWS

- 1. Place your mouse pointer between the Column or Row header
- 2. A cross will appear
- 3. Take the cross and click and drag with your mouse to the left or right depending on how wide or narrow you want your columns or rows to be

OR

Double click on the line between the Column or Row header.

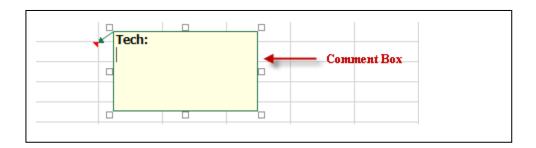
CHANGING THE WIDTH OF TWO OR MORE CONSECUTIVE COLUMNS OR ROWS

- 1. Highlight the entire row(s) or column(s) you want to change
- 2. Place your mouse between any of the rows or columns you have highlighted; a cross will appear
- 3. Move the cursor to the right or left depending on how wide or narrow you want your columns or rows to be.

COMMENTS

Comments can be used to document information, explain calculations and reminders.

- 1. Select the cell where the comment is to be placed.
- 2. Right-click in the cell and select insert comment; a comment box will appear.
- 3. Click inside the comment box and begin typing.
- 4. Once you are finished typing select any cell in the spreadsheet.



Comment boxes will display one of two ways. They will either be **hidden** or **displayed** on the spreadsheet. To get either option, click the comment and look to your Ribbon and under the Comments section, click **Show/Hide Comments**. You can also select either option by right- clicking in the cell with the comment box and select **Show Comment** or **Hide Comment** depending on which option is available.

Note:

- To view hidden comments simply place your mouse over the cell and the comment box will appear.
- One comment per cell

Editing a Comment- To edit a comment right-click in the cell when the comment is located and select Edit Comment from the list.

PAGE LAYOUT Width: Automatic * Gridlines Headings 🗓 Height: ✓ View √ View Automatic * Margins Orientation Breaks Background Print Size Scale: 100% Print Print Titles Area

Б

Scale to Fit

Sheet Options

Б

Page Setup Section

Margins Select the margin sizes for the entire document or the current section

Orientation Switch the pages between portrait and landscape layouts

Size Choose a paper size for the current section

Print Area Mark a specific area of the sheet for printing

Page Setup

Breaks Specify where a new page will begin in the printed copy

Background Choose an image to display as the background for the sheet

Print Titles Specify rows and columns to repeat on each printed page

Scale to Fit Section

Width Shrink the width of printed output to fit a maximum number of pages.

Height Shrink the height of printed output to fit a maximum number of pages.

Scale Stretch or shrink the printed output to a percentage of its actual size.

Sheet Options

Select the boxes if you want to view or print gridlines or headings.

SAVING A WORKBOOK

- 1. Open the File tab
- 2. Select Save or Save As

OR

Click 🔲 on the Quick Access Bar

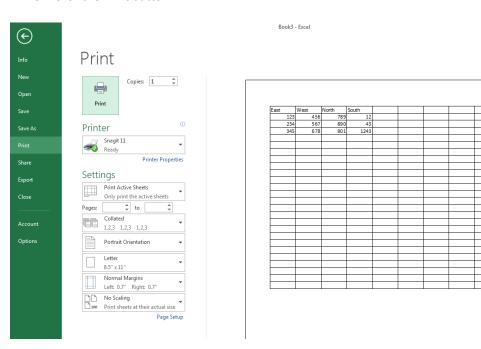
Save Saves the current file

Save As Options to change the location and file name

Other Formats Open the Save As file box to view all possible formats

PRINTING A FILE

- 1. Open the File Tab
- 2. Select Print; here you can change the printing options
- 3. Click the Print button



Notes: