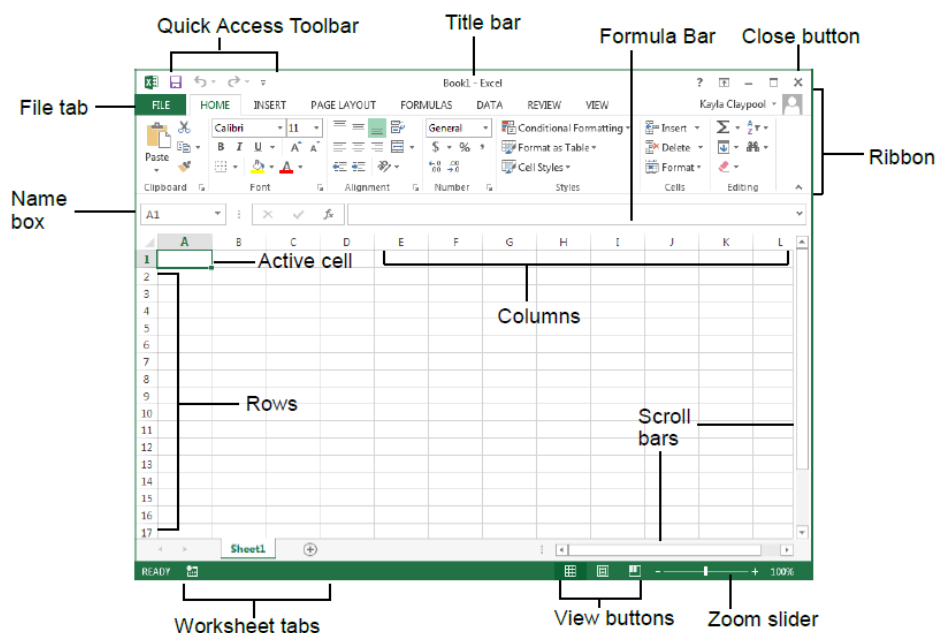


Microsoft Excel

Cheat Sheet

The Excel Screen



Keyboard Shortcuts

General

Open a Workbook	Ctrl + O
Create New	Ctrl + N
Save	Ctrl + S
Preview and Print	Ctrl + P
Close a Workbook	Ctrl + W
Help	F1
Run Spelling Check	F7
Calculate worksheets	F9
Create an absolute, normal, or mixed reference	F4

Navigation

Move Between Cells	↑, ↓, ←, →
Right One Cell	Tab
Left One Cell	Shift + Tab
Down One Cell	Enter
Up One Cell	Shift + Enter
One Screen Down	Page Down
One Screen Up	Page Up
To Cell A1	Ctrl + Home
To Last Cell	Ctrl + End
Go To Dialog Box	F5

Editing

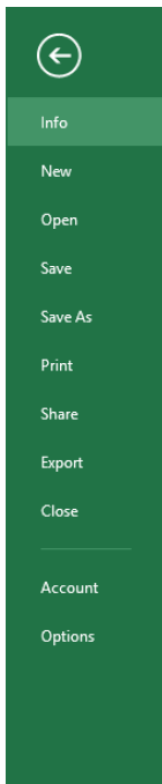
Cut	Ctrl + X
Copy	Ctrl + C
Paste	Ctrl + V
Undo	Ctrl + Z
Redo	Ctrl + Y
Find	Ctrl + F
Replace	Ctrl + H
Select All	Ctrl + A
Edit active cell	F2
Clear cell contents	Delete

Formatting

Bold	Ctrl + B
Italics	Ctrl + I
Underline	Ctrl + U
Open Format Cells Dialog Box	Ctrl + Shift + F
Select All	Ctrl + A
Select entire row	Shift + Space
Select entire column	Ctrl + Space
Hide selected rows	Ctrl + 9
Hide selected columns	Ctrl + 0




The Fundamentals

- The **File** tab menu and Backstage view contain commands for working with a program's files, such as Open, Save, Close, New, and Print.



- To Create a New Workbook:** Click the **File** tab, select **New**, and double-click workbook, or press **Ctrl + N**.
- To Open a Workbook:** Click the **File** tab and select **Open**, or press **Ctrl + O**.
- To Save a Workbook:** Click the **Save** button on the Quick Access Toolbar, or press **Ctrl + S**.
- To Preview and Print a Workbook:** Click the **File** tab and select **Print**, or press **Ctrl + P**.
- To Undo:** Click the **Undo** button on the Quick Access Toolbar, or press **Ctrl + Z**.
- To Redo or Repeat:** Click the **Redo** button on the Quick Access Toolbar, or press **Ctrl + Y**.
- To Close a Workbook:** Click the **Close** button, or press **Ctrl + W**.
- To Get Help:** Press **F1** to open the Help window. Type your question and press **Enter**.
- Cell addresses:** Cells are referenced by addresses made from their column letter and row number, such as cell A1, A2, B1, B2, etc. You can find the address of a cell by looking at the **Name Box** under the clipboard.
- To Select a Cell:** Click a cell or use the keyboard arrow keys to select it.
- To Select a Cell Range:** Click and drag to select a range of cells. Or, press and hold down the **Shift** key while using the **arrow keys** to move the mouse pointer to the last cell of the range.
- To Select an Entire Worksheet:** Click the **Select All** button where column and row headings meet. Or press **Ctrl + A**.
- To Minimize the Ribbon:** Click the **Minimize Ribbon** button on the Ribbon. Or, press **Ctrl + F1**. Or, right-click a **tab** and select **Unpin the Ribbon** from the contextual menu.
- To Change Program Settings:** Click the **File** tab and select **Options**.
- To Use Zoom:** Click and drag the zoom slider to the left or right. Or, click the **Zoom Out** and **Zoom In** buttons on the slider.
- To Change Views:** Click a **View** button in the status bar. Or, click the **View** tab and select a view.

Editing

- **To Edit a Cell's Contents:** Select the cell and click the **Formula Bar**, or double-click the cell. Edit the cell contents and press **Enter**.
- **To Clear a Cell's Contents:** Select the cell(s) and press the **Delete** key.
- **To Cut or Copy Data:** Select cell(s) and click the  **Cut** or  **Copy** button in the Clipboard group on the Home tab.
- **To Paste Data:** Place the insertion point where you want to paste and click the  **Paste** button in the Clipboard group on the Home tab.
- **To Preview an Item Before Pasting:** Place the insertion point where you want to paste, click the **Paste button list arrow** in the Clipboard group on the Home tab, and hold the mouse over the paste option to preview.
- **To Paste Special:** Select the destination cell(s), click the **Paste button list arrow** in the Clipboard group on the Home tab, and select **Paste Special**. Select an option and click **OK**.
- **To Copy Using Auto Fill:** Point to the fill handle at the bottom-right corner of the selected cell(s), then drag to the destination cell(s).
- **To Complete a Series Using AutoFill:** Select the cells that define the series. Click and drag the fill handle to complete the series.
- **To Move or Copy Cells Using Drag and Drop:** Select the cell(s) you want to move or copy, position the pointer over any border of the selected cell(s), then drag to the destination cells. To copy, hold down **Ctrl** key while dragging.
- **To Insert a Column or Row:** Right-click to the right of the column, or below the row you want to insert. Select **Insert** from the contextual menu, or click the **Insert** button in the Cells group on the Home tab.
- **To Delete a Column or Row:** Select the row or column heading(s). Right-click and select **Delete** from the contextual menu, or click the **Delete** button in the Cells group on the Home tab.
- **To Insert a Comment:** Select the cell where you want to insert a comment and click the **Review** tab on the Ribbon. Click the **New Comment** button in the Comments group. Type a comment and click outside the comment box.



Basic Formulas and Functions

- **To Enter a Formula:** Select the cell where you want to insert the formula. Type **=** and enter the formula using values, cell references, operators, and functions. Press **Enter** when you're finished.
- **Math Operators:** Select a cell. Examples:
Addition, subtraction, multiplication, division $=1+2-3*4/5$
Parentheses group terms together for completion first $=1+(2-((3*4)/5))$
Before building complex math, check for a function $=AVERAGE(B1:B5)$
- **SUM:** Select the cell where you want to display a sum. Examples:
Adding actual numbers specified in parentheses $=SUM(1+1)$
Adding cells by typing or holding CTRL and clicking them $=SUM(B1+B5)$
Adding a range of cells by typing or holding mouse button $=SUM(B1:B5)$
- **IF:** Select the cell where you want the conditional formula. Examples:
IF statement that yields a TRUE or FALSE $=IF(1=1)$
IF statement that yields a specific value $=IF(B1=B5,"EQUAL","NOT EQUAL")$
IF statement with two conditions $=IF(AND(B1=B5,B1=B6),"BOTH","NOT")$



Charts

- **To Create a Chart:** Select the cell range that contains the data you want to chart and click the **Insert** tab on the Ribbon. Click a chart type button in the Charts group and select the chart you want to use from the list.
- **To Insert a Sparkline:** Select the cell range that contains the data you want to chart and click the **Insert** tab on the Ribbon. Select the sparkline you want to insert from the Sparkline group. Select the cell or cell range where you want to add the sparkline and click **OK**.

Formatting

- **To Format Text:** Use the commands in the Font group on the Home tab, or click the **Dialog Box Launcher** in the Font group to open the dialog box.
- **To Format Values:** Use the commands in the Number group on the Home tab, or click the  **Dialog Box Launcher** in the Number group to open the Format Cells dialog box.
- **To Copy Formatting with the Format Painter:** Select the cell(s) with the formatting you want to copy and click the  **Format Painter** button in the Clipboard group on the Home tab. Then, select the cell(s) you want to apply the copied formatting to.
- **To Apply a Cell Style:** Select the cell(s) you want to apply a cell style to. Click the **Cell Styles** button in the Styles group of the Home tab on the Ribbon and select a style from the gallery.
- **To Format a Cell Range as a Table:** Select the cells you want to apply table formatting to. Click the **Format as Table** button in the Styles group of the Home tab on the Ribbon and select a table format from the gallery.
- **To Apply a Document Theme:** Click the **Page Layout** tab on the Ribbon, click the **Themes** button in the Themes group, and select a theme from the gallery.
- **To Apply Conditional Formatting:** Select the cells to which you want to apply conditional formatting. Click the **Conditional Formatting** button in the Styles group of the Home tab. Select the formatting scheme you wish to use, then set the conditions in the dialog box.
- **To Adjust Column Width or Row Height:** Drag the right border of the column header, or the bottom border of the row header. Double-click the border to AutoFit the column or row according to its contents.

Workbook Management

- **To Insert a New Worksheet:** Click the  **Insert Worksheet** button next to the sheet tabs at the bottom of the program screen. Or, press **Shift + F11**.
- **To Delete a Worksheet:** Select the sheet want to delete, click the **Delete** button in the Cells group on the Home tab, and select **Delete Sheet**. Or, right-click the sheet tab and select **Delete** from the contextual menu.
- **To Rename a Worksheet:** Double-click the sheet tab, enter a new name for the worksheet, and press **Enter**.
- **To Change a Worksheet's Tab Color:** Right-click the sheet tab, select **Tab Color**, and choose the color you want to apply.
- **To Move or Copy a Worksheet:** Click and drag a tab to move a worksheet. Hold down the **Ctrl** key while clicking and dragging to copy the worksheet.
- **To Split a Window:** Click the **View** tab and click the **Split** button in the Window group. Or, press **Alt + WS** (one at a time).
- **To Freeze Panes:** Place the cell pointer where you want to freeze the window, click the **View** tab on the Ribbon, click the **Freeze Panes** button in the Window group, and select an option from the list.
- **To Select a Print Area:** Select the cell range you want to print, click the **Page Layout** tab on the Ribbon, click the **Print Area** button in the Page Setup group, and select **Set Print Area**.
- **To Adjust Page Margins, Orientation, Size, and Breaks:** Click the **Page Layout** tab on the Ribbon and use the commands in the Page Setup group, or click the  **Dialog Box Launcher** in the Page Setup group to open the Page Setup dialog box.
- **To Protect or Share a Workbook:** Click the **Review** tab on the Ribbon and use the commands in the Changes group.
- **To Recover Autosaved Versions:** Click the **File** tab on the Ribbon and select **Info**. Select an autosaved version from the Versions list. Or, click the **Manage Versions** button and select **Recover Unsaved Workbooks**.