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Outlines

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- 3. Microsoft Excel 2007 Interface
- 4. Worksheet
- 5. Creating a New Workbook
- 6. Saving a Workbook
- 7. **Opening a Workbook**
- 8. Inserting Additional WorkSheet
- 9. Naming a Worksheet

Outlines

- **10.** Formatting the Worksheet
- 11. Entering Data
- 12. Line Break in a Cell
- 13. Auto Fill
- 14. Selecting Multiple Cells
- 15. Adjusting row height and column width
- 16. Inserting and Deleting Row and Column
- 17. Formatting Cells
- 18. Printing



- Storage of data in tabular (table) form
- Data is arranged in the rows and columns
- Each entry is called a *cell*.

2. Introduction to Microsoft Excel

- Part of Microsoft Office program package, like Microsoft PowerPoint and Microsoft Word.
 - Microsoft Excel is a spreadsheet application, with tools for:
 - O Perform Calculation
 - O Creating Summary
 - O Drawing Charts & Graphs
- An Excel file is a collection of spreadsheet (worksheet), sometime called a *Workbook.*
- In Excel, you can also insert text, images, symbols.
- Excel provides many functions that allow quick calculation and analysis of data





3. Microso	ft Excel 2007 Interface	Quic Cont com
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A B D	E F G H I J F	Tool
2 3		
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	Ribbon	
Where commands are divi	ded into tabs, such as <i>Home, or Insert</i> .	
Command icons will ap	pear when the tab they belong to are	
	selected	
17 H + + H Sheet1 Sheet2 Sheet3		
Ready		

Quick Access Toolbar Contains often used commands. You can add or remove commands from quick access toolbar by clicking at ∓ on the right side of the icons and select *Customize Quick Access*

3. Microsoft Excel 2007 Interface



3. Microsoft Excel 2007 Interface



3. Microsoft Excel 2007 Interface — Cell Name

- **Row Name** is used to referenced data in horizontal organization. Ranged from 1 to 1,048,576.
- **Column Name** is used to referenced data in vertical organization. Ranged from *A*, *B*, *C*, ..., *Z*, *AA*,... to *XFD*.

	С	D	E
1			
2			
3			
4			
5			
6			

- Name of a cell, such as *E3* comes from the name of the column the cell is on concatenated with name of row the cell is on.
 - A cell can be thought of as an intersection of a row and a column.
 - So *E3* is the cell where column E crosses with row 3.



5. Creating a new Workbook

- In Excel, creating a new file is creating a new workbook, which can contain multiple worksheets.
- The name of the workbook means the name of the file.
- There are two ways to create a new workbook in Excel:

Method 1	Method 2
1. Click the Office Button 📵	Press $Ctrl + N$
2. Select New	

Notice: The Title Bar will now contain the name of the new workbook file

6.Saving a Workbook

When you want to save a file in Excel, you can do:



- File in Excel 2007 is in new format, with extension *.xlsx*
- If you want the older version, with extension *.xls*, Change the file type *(Save as Type)* to *(Excel 97-2003 workbook (*.xls))*



7. Opening a Workbook

If you want to open an existing workbook, you can:



8. Inserting Additional Worksheet

You can add more worksheet to the existing worksheets.



9. Naming a Worksheet

You should change the name of the worksheet to the fit the data it contains. This will help you remember and make reference easier afterward.



10. Formatting the Workbook



10. Formatting the Workbook (2)



10. Formatting the Workbook (3)



10. Formatting the Workbook (4)



10. Formatting the Workbook (5)

10.3 (2) Custom header or footer



11. Entering Data into a Cell

To enter data into a cell, do the following:

- 1. Click cell you want to enter data.
- 2. Type the data into the cell
 - **L**Text (aligned to left, cannot be calculated)
 - **Numeral (aligned to right, can be calculated)**
- 3. When you're done on that cell, press Enter key or click the other cell.

12. Line Breaking in a Cell

Sometime, text data in a cell is too long to display properly without increasing the width of the cell. You will need to insert a line break into the text. Do the following:

- Type to the edge of the cell, then press *Alt* **+ Enter**
 - Or, if you already have the long text, you can move the cursor to where you want to insert the line break, then press Alt + Enter.
- The text will continue to the new line, but still inside the same cell.

Comparing a cell with line break (red) and the one without (blue)



13. Auto Fill

You can input data into cell in increasing order automatically with Auto Fill by doing the followings: Method 1

Example The value of starting cell, A1 is 15. You can use auto fill to fill in the rest of the data.



** Notice ** When you press Ctrl, a small plus (+) will appear at mouse. You can then auto fill the data, increasing/decreasing by one per cell.

- 1. Type in numeral data at the starting cell.
- 2. Click at the starting cell.
- 3. Move mouse to bottom-right corner of the cell.
- 4. Press Ctrl + left-click and hold both.
- 5. Drag mouse vertically (same column) or horizontally (same row):
 - ** Drag upward/leftward to decrease the number by one per cell.
 - ** Drag downward/rightward to increase the number by one per cell.
- 6. Release the mouse where you want to end the data sequence.

13. Auto Fill (2)

Method 2

1. Type numeral data into two cells next to each other, in the order you want.

Example Starting cells are A1 and A2 with values 15 and 16. Using Auto Fill horizontally results as follows:



2. Drag mouse to select the two cells.

- 3. Move mouse to the bottom-right corner of the second cell.
- 4. Left-click and hold.
- 5. Drag mouse vertically (same column) or horizontally (same row) to increase/decrease values of cells, like in Method 1.
- 6. . Release the mouse where you want to end the data sequence.









Example: Auto Fill with Day-of-the-Week (2)

Mon	Tue	Mon	Tue	Mon	Tue	Mon		
Mon	Tue	Wed	Thu	Fri	Sat	Sun		-
							0	Copy Cells
Mon	Tue						0	Fill Series
							0	Fill <u>F</u> ormatting Onl
Mon	Tue						0	Fill Without Forma
MOn	146	Wed	Thu	Fri	Sat	Sun	0	Fill <u>D</u> ays
14	T				<i>a</i> .	~	0	Fill <u>W</u> eekdays
Mon	Tue	Wed	Thu	Fri	Sat	Sun		
Mon	Tue	Wed	Thu	Fri	Mon	Tue		

14. Selecting Multiple Cells

4 ways to do this:

- Drag mouse to select cells
- Selecting whole rows
- Selecting whole columns
 - Selecting the entire worksheet

14.1 Drag Mouse to Select Cells

Thu

Fri

4

5

4

5

1.1 Cells in a Rectangle

3





25

40

45

Drag mouse to the last cell (diagonal of starting cell), then release.

. 2	A	В	С	D
1	Mon	1	5	25
2	Tue	2	10	30
3	Wed	3	15	35
4	Thu	4	20	40
5	Fri	5	25	45

Cells dragged over (selected cells) are highlighted

14.1 Drag Mouse to Select Cells (2) 1.2 Non-adjacent Cells Use dragging mouse Use dragging mouse with second with first group of cell (and more) group of cell you want Press Ctrl and hold you want to select. to select. C D В C D В 1 Mon Mon Mon Tue Tue Tue Wed Wed Wed Thu Thu Thu Fri Fri Fri

Cells dragged over (selected cells) are highlighted



Selected cells will be highlighted.
14.2 Selecting Whole Rows (2)

2.2 Non-adjacent Rows





	A	В	С	D	
1	Mon	1	5	25	
2	Tue	2	10	30	
3	Wed	3	15	35	
4	Thu	4	20	40	
5	Fri	5	25	45	

Selected cells will be highlighted

14.3 Selecting Whole Column

2.1 Adjacent Columns





	use dr	00	C		ease at
2	A	В	С	D	
1	Mon	1	5	25	
2	Tue	2	10	30	
3	Wed	3	15	35	
4	Thu	4	20	40	
5	Fri	5	25	45	

Selected cells will be highlighted

14.3 Selecting Whole Column (2)

2.2 Non-adjacent Columns



Selected cells will be highlighted

14.4 Selecting the Entire Worksheet

□ Click where the headings of column

and row meet <u>OR</u>

Press Ctrl+A





Selected cells will be highlighted

	A	В	С	D
1	Mon	1	5	25
2	Tue	2	10	30
3	Wed	3	15	35
4	Thu	4	20	40
5	Fri	5	25	45

40

15. Adjusting Column Width and Row Height

- Adjusting row height / for multiple rows
- Adjusting column width / for multiple columns
- Adjusting column width and row height for the entire worksheet

15.1 Adjusting Row Height / for Multiple Rows

border

Mouse

Select Rows 1

Mon 5 25 1 2 30 2 Tue 10 3 Wed 3 15 35 4 Thu 20 40 4 Э 23 45 5 **Fri**

Move mouse to the between two rows. pointer will change into a cross with up and down arrows. Click and drag to adjust height for

selected rows.

В С D Α 5 25 Mon 1 Tue 2 10 30 2 3 Wed 15 35 3 Decrease Thu 4 20 40 5 Fri 25 45 5

	А	В	С	D
1	Mon	1	5	25
2	Tue	2	10	30
3	Wed	3	15	35
4	Thu	4	20	40
5	Fri	5	25	45

Increase

2



42





Increase

16. Inserting/Deleting Row and Column

- Selecting one or more rows
- Right-click and select *Insert* to add more rows
- Right-click and select *Delete* to remove selected rows

- Selecting one or more columns
 - Right-click and select *Insert* to add more columns
 - Right-click and select *Delete* to remove selected columns

17. Formatting Cells

You can format a cell so that the data in the cell is displayed in a way you like. You can format the followings in a cell:

How the number in the cell is displayed

- Alignment of Data
- Font
- Cell Border
- Cell Fill (Background)

17. Formatting Cells (2)



17.1 Number Formatting

Click *Number* tab.

Method 1

Under *Category* there are these number display categories:

Category	Description and Extra Options
General	No specific number format. Number will appear as you type it.
Number	Used for general display of number. You can choose decimal places (how many digits after '.'), whether to use <i>1000 separator</i> (',' to separate every 3 digits), and how to display negative numbers.
Currency	General display for monetary values. You can pick currency symbol and how negative number will be displayed.

17.1 Number Formatting (2)

Category	Description and Extra Options
Accounting	Similar format with <i>Currency</i> but the currency symbol will be at the left side of the cell, while the number will be right-aligned.
Date	Display number as date.
Time	Display number as time.
Percentage	Multiply the value by 100 and close the number with percent symbol (%) at the end. For example, number .75 will be displayed as 75%

17.1 Number Formatting (3)

Category	Description and Extra Options
Fraction	Show number as fraction, where we can select the denominator (base).
	For example, .75 can be displayed as 3/4, 12/16, or 75/100.
Scientific	Display number in scientific format. For example, .75 as 7.50E- 01
Text	Number are treated as text and will be displayed as entered.
Special	Special number such as postal code or phone number
Custom	Use number format code to display number.



Method 2





Method 2











More Borders... H



Method 2 **17.5 Format Cell Fill (2)** Under Font group 1 Click Home tab 2 Home Insert Page Layo Theme Colors Calibri - 11 do. A A Ð U B \boldsymbol{I} Paste Standard Colors Clipboard 🖟 15 No Fill • More Colors... Click here to select 3 color More Colors... to go to Method 1.

18. Printing



Printer			
Name:	HP LaserJet P3005 PCL 6		Properties
Type:	Idle HP LaserJet P3005 PCL 6 10.4.28.40_1		Find Printer
commeric:			Print to file
Print range		Copies	
All Page(s)	From: 🔁 Io: 🚖	Number of <u>c</u> opies:	1
Print what Selectio <u>n</u> Acti <u>v</u> e sh Ianore p		1 22 33	Collate

