

15 Must-Know Functions

1. SUM

Use Case: Add up total sales, expenses, or any numeric data quickly.
 Example: A1:A10 contains sales numbers.
 Total Sales = `=SUM(A1:A10)`

2. AVERAGE

Use Case: Calculate the average monthly sales figure in sales reports.
 Example: B2:B10 contains monthly revenue.
 Total Sales = `=AVERAGE(B2:B10)`

3. SUMIFS

Use Case: Calculate total sales for a specific region ("West") and product (Q1).

Example: A1:A10 contains product names, B2:B10 contains regions, and C2:C10 contains sales amounts.

Total West Sales = `=SUMIFS(C2:C10, A2:A10, "Q1", B2:B10, "West")`

4. COUNTA

Use Case: Count non-empty cells in a range.

Example: A1:A5 contains Q1, West, Q2, Q3, Q4.
 Non-Empty Cells = `=COUNTA(A1:A5)`

Result: 4 (ignores empty cells)

5. AVERAGEIF

Use Case: Calculate the average value of a range of cells, ignoring errors.

Example: A1:A5 contains 10, 20, 30, 40, 50. B1:B5 contains a mix of valid numbers and errors.

Required Average = `=AVERAGEIF(B1:B5, "$#N/A$")`

Result: 30 (average of valid numbers 10, 20, 30, 40, and 50, while ignoring the errors)

6. IF

Use Case: Perform conditional checks, like showing "Bonus" or "No Bonus" for sales. Example: A1 contains sales figures, and B1 contains the target sales.
 Bonus or No Bonus = `=IF(A1>=B1, "Bonus", "No Bonus")`

7. INDEX

Use Case: Fetch values and return a custom result = "Top Performer" or "Good job". Example: A1 contains names and B1 contains sales.
 Fetch Top Performer = `=INDEX(A1:A10, 1)`

8. VLOOKUP

Use Case: Lookup an item and extract the price from a product catalog.
 Example: A1:A10 contains product names, and B1:B10 contains prices.
 Price of "Apple" = `=VLOOKUP("Apple", A1:B10, 2, TRUE)`

9. MATCH

Use Case: Extract data that matches criteria = Region = "West" or Sales = 100.
 Example: A1:A10 contains product names, B2:B10 contains regions, and C2:C10 contains amounts.
 Matched Sales = `=MATCH(100, C2:C10, 0)`

10. UNIQUE

Use Case: Get a list of unique product names.

Example: A1:A10 contains product names ("Apple", "Banana", "Apple", "Orange", "Banana", "Banana", "Orange").

Formula: `=UNIQUE(A1:A10)`

Result: ("Apple", "Banana", "Orange", "Banana") (Returns unique product names, excluding duplicates)

11. TRIM

Use Case: Clean up extra spaces in text data. Example: A1 contains "John Parker".
 Cleaned Name = `=TRIM(A1)`
 Result: "John Parker"

12. TEXTJOIN

Use Case: Combine first and last names into full names.
 Example: A1 contains "John" and B1 contains "Parker".
 Full Name = `=TEXTJOIN(" ", TRUE, A1, B1)`
 Result: "John Parker"

13. SUBSTITUTE

Use Case: Replace and Product IDs with new ones, preserving the old ones for reference.
 Example: A1 contains "ABC_123".
 New Product ID = `=SUBSTITUTE(A1, "ABC", "XYZ")`
 Result: B1 contains "XYZ_123" & A1 still contains "ABC_123"

14. SORT

Use Case: Sort sales data by region (A-D) and sales (High to Low).

Example: A1:A10 contains sales data ("Apple", "Banana", "Orange", "Banana", "Apple", "Banana", "Apple").

Formula: `=SORT(A1:A10, 2, 0, -1)`

Result: ("Banana", "Banana", "Apple", "Banana", "Apple", "Orange", "Banana", "Apple", "Apple")

15. TEXT

Use Case: Format a date serial number to a "YYYYMM" format.

Example: A1 contains the serial date number 45234.

Formula: `=TEXT(A1, "YYYYMM")`

Result: "202401"

20 Must-Know Keyboard Shortcuts

1. Copy

Ctrl + C

2. Cut

Ctrl + X

3. Paste

Ctrl + V

4. Undo

Ctrl + Z

5. Redo

Ctrl + Y

6. Select All

Ctrl + A

7. Insert Tables

Ctrl + T

8. Find

Ctrl + F

9. Find & Replace

Ctrl + H

10. Paste as Values

Ctrl + Shift + V

11. Insert Line Break

Alt + Enter

12. Move Cells

Ctrl + Shift + V

13. Jump to the edge of the data range

Ctrl + ↓

14. Select All Non-Empty Cells Below

Ctrl + Shift + ↓

15. Show Formulas

Ctrl + `

16. Auto-Fit Column Width

Alt + Shift + W

17. Apply Currency Format

Ctrl + Shift + \$

18. Hide Rows

Ctrl + Shift + ↓

19. Hide Columns

Ctrl + Shift + W

20. Toggle's Color

Ctrl + Shift + C



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7 Must-Know Data Validation Techniques



1. Drop-down Lists:

(Data tab > Data Validation > List)

Use Case: Create a list of permitted options users can select from.

3. Create Dynamic Lists:

(Data tab > Data Validation > List)

Use Case: Auto-update drop-down lists as new entries are added.
 Example: The inputs = `=OFFSET(A1, 2, 0, COUNT(A1:A100), 1)` in the Source box where 100 entries in cell A1.

2. Data Validation Rule:

(Data tab > Data Validation)

Use Case: Limit allowable data types, like phone numbers, dates, specific text lengths, etc.

4. Custom Validation Formulas:

(Data tab > Data Validation > Custom)

Use Case: Ensure only numbers are entered in a cell.
 Example: The inputs = `=ISNUMBER(A1)` in the Formula box, and it will get auto-applied to all cells in the selected cell.

7. Restrict Duplicate Entries:

(Data tab > Data Validation > Custom)

Use Case: Prevent duplicates in a list.
 Example: The inputs = `=COUNTIF($A:$A, A1) < 2` in the Formula box, it will return a message "1" if the formula evaluates to FALSE, showing error & preventing the duplicate entry in column A.

5. Limit Decimal Places:

(Data tab > Data Validation > Decimal)

Use Case: Ensure numeric entries are limited to a certain number of decimal places.

6. Date Range Validation:

(Data tab > Data Validation > Date)

Use Case: Limit date entries to a specific date range, for e.g., dates between 1/1/2024 & 12/31/2024.

- Remember:**
1. Consistent date entry
 2. Simplified date entry
 3. Enhanced accuracy
 4. Reduced formatting
 5. Increase in spreadsheet data entry speed & ease

8 Must-Know Formatting Hacks

1. Tables

Use Case: Automatic formatting and filter buttons.
 Example: The inputs = Format as Table

2. Wrap Text

Use Case: Ensure long text fits within a cell by wrapping it.
 Example: The inputs = Wrap Text

3. Cell Styles

Use Case: Apply pre-designed styles to cells for a consistent look.
 Example: The inputs = Cell Styles

4. Conditional Formatting

Use Case: Change the visual look and feel of your spreadsheet by applying a theme.
 Example: The inputs = Themes

5. Number Formatting

Use Case: Add a look to your data centered across the columns A to D, without moving cells.
 Example: The inputs = Alignment > Horizontal Alignment > Center across Selection

6. Conditional Formatting

Use Case: Highlight cells based on their values (e.g., color-coded high and low sales).
 Example: The inputs = Conditional Formatting

7. Conditional Formatting

Use Case: Create custom number styles (e.g., showing phone numbers with parentheses).
 Example: The inputs = Number > More Number Formats

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Use Case: Create custom number styles (e.g., showing phone numbers with parentheses).
 Example: The inputs = Number > More Number Formats



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S Marginson



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