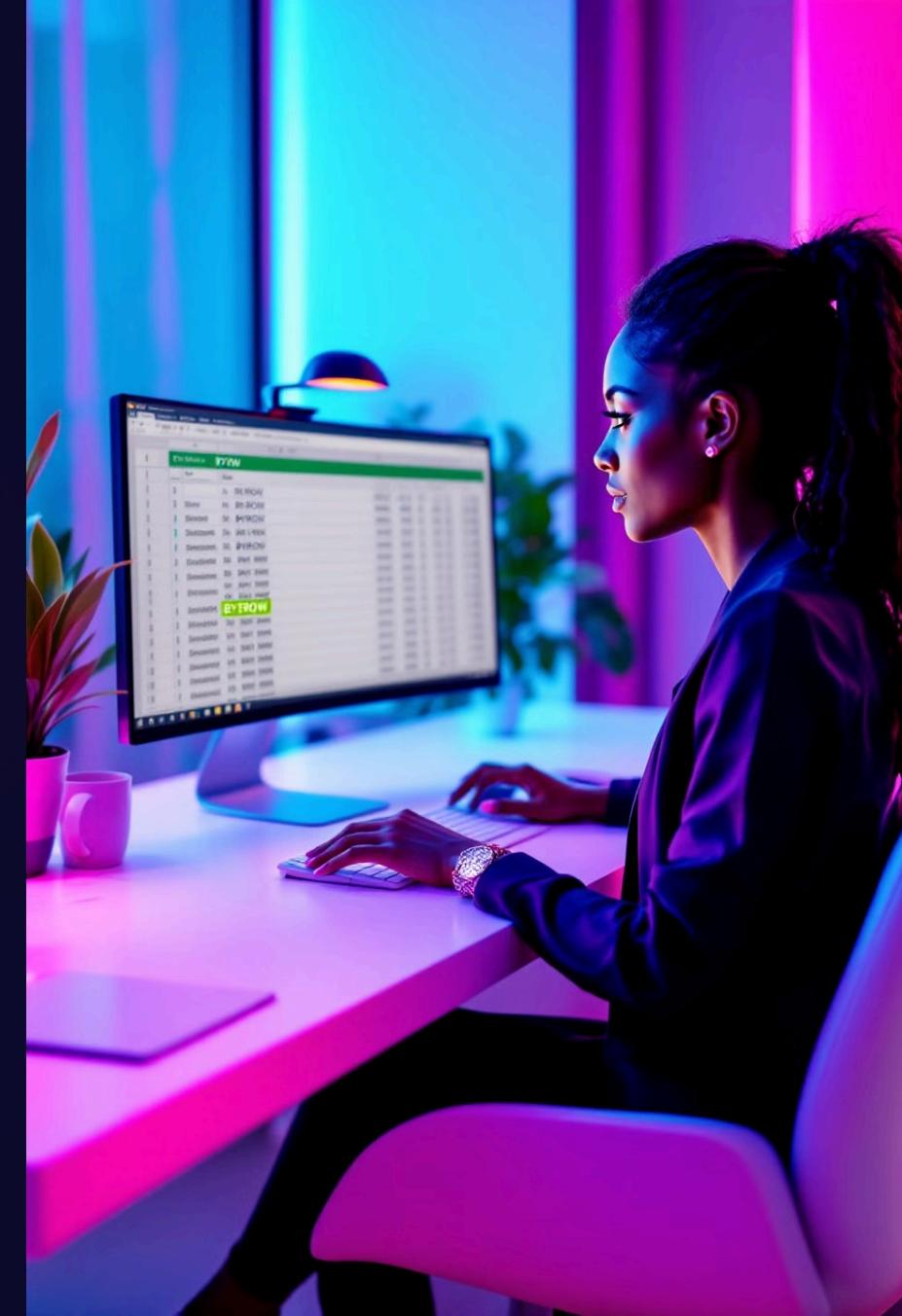


Excel BYROW Function

The BYROW function applies a calculation to each row of an array. It returns one result per row in a single array.



by **Excel Training London**



Purpose and Syntax

1 Purpose

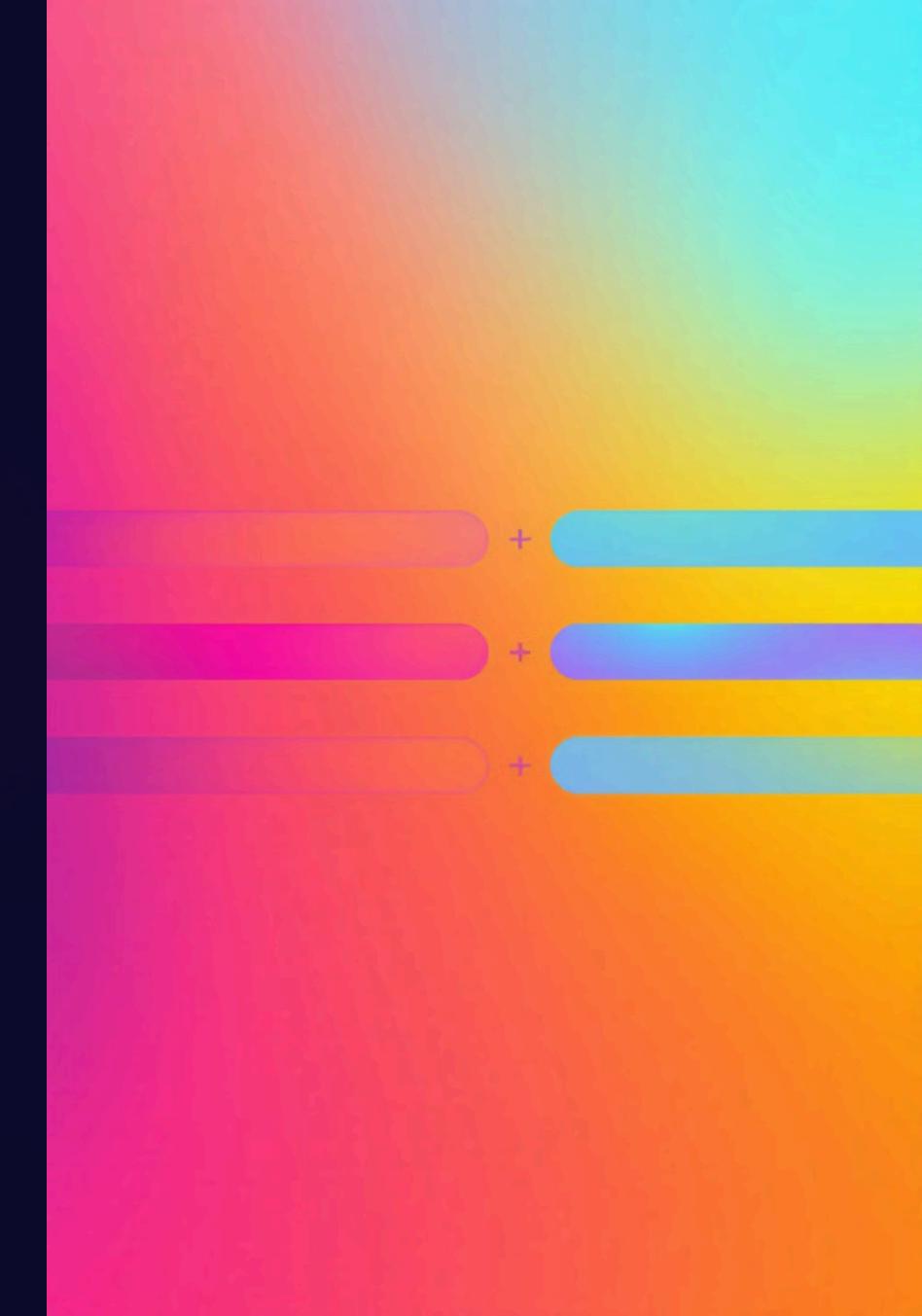
Apply a function to each row
of an array

2 Return Value

One result per row

3 Syntax

=BYROW(array, function)

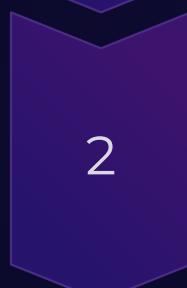


How BYROW Works



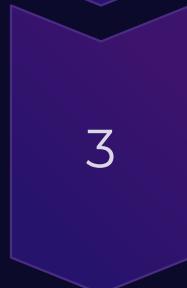
Input Array

BYROW takes an array or range as input



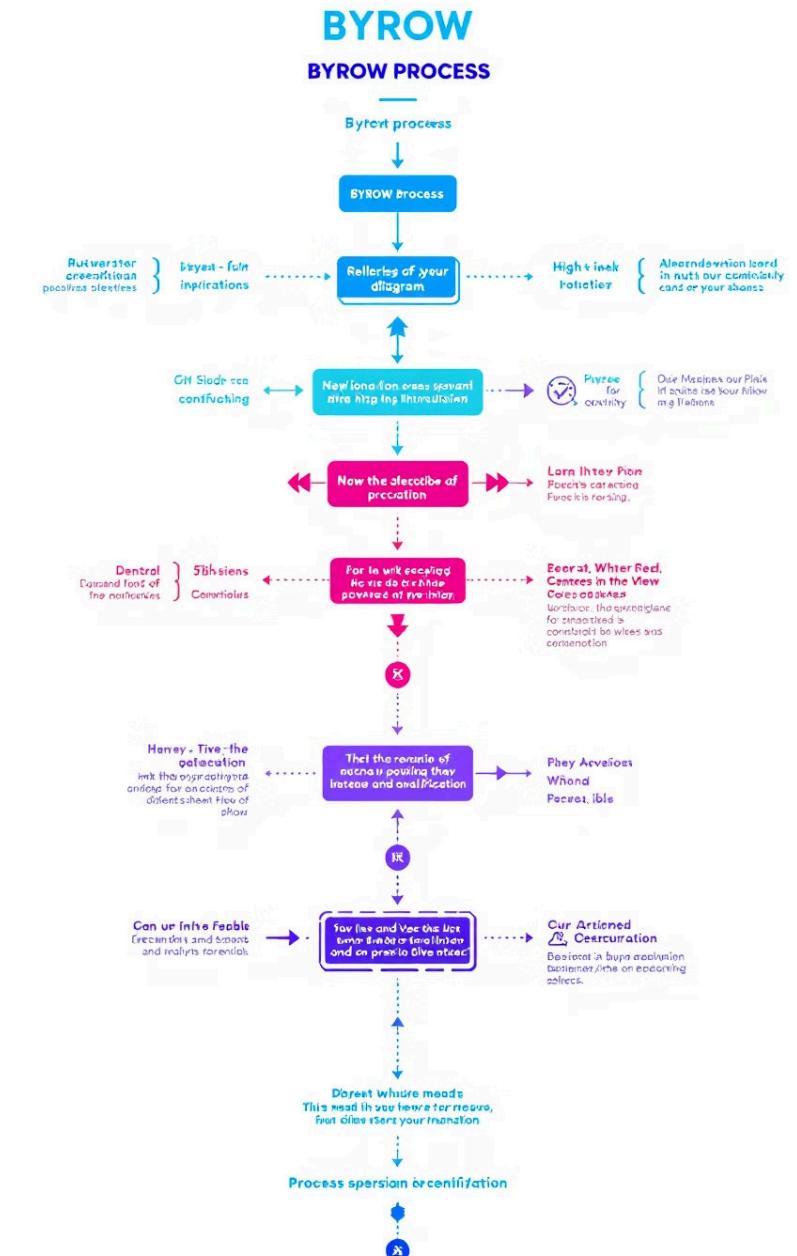
Apply Function

Applies specified function to each row



Return Results

Returns an array with one result per row



Function Options

Stock Functions

Use built-in functions like SUM, COUNT, AVERAGE

Custom LAMBDA

Create custom calculations with LAMBDA functions

Syntax Options

Short Form

```
=BYROW(array, SUM)
```

Long Form

```
=BYROW(array, LAMBDA(row,  
SUM(row)))
```

Custom LAMBDA

```
=BYROW(array, LAMBDA(row, [custom calculation]))
```

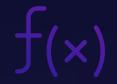
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Example: Sum All Rows



Input Data

Range C5:H15 with 11 rows of data



Formula

```
=BYROW(C5:H15, LAMBDA(row,  
SUM(row)))
```



Result

Array with 11 sums, one per row



Short Form "Eta Lambda" Syntax

1

Simplified Syntax

=BYROW(array, SUM)

2

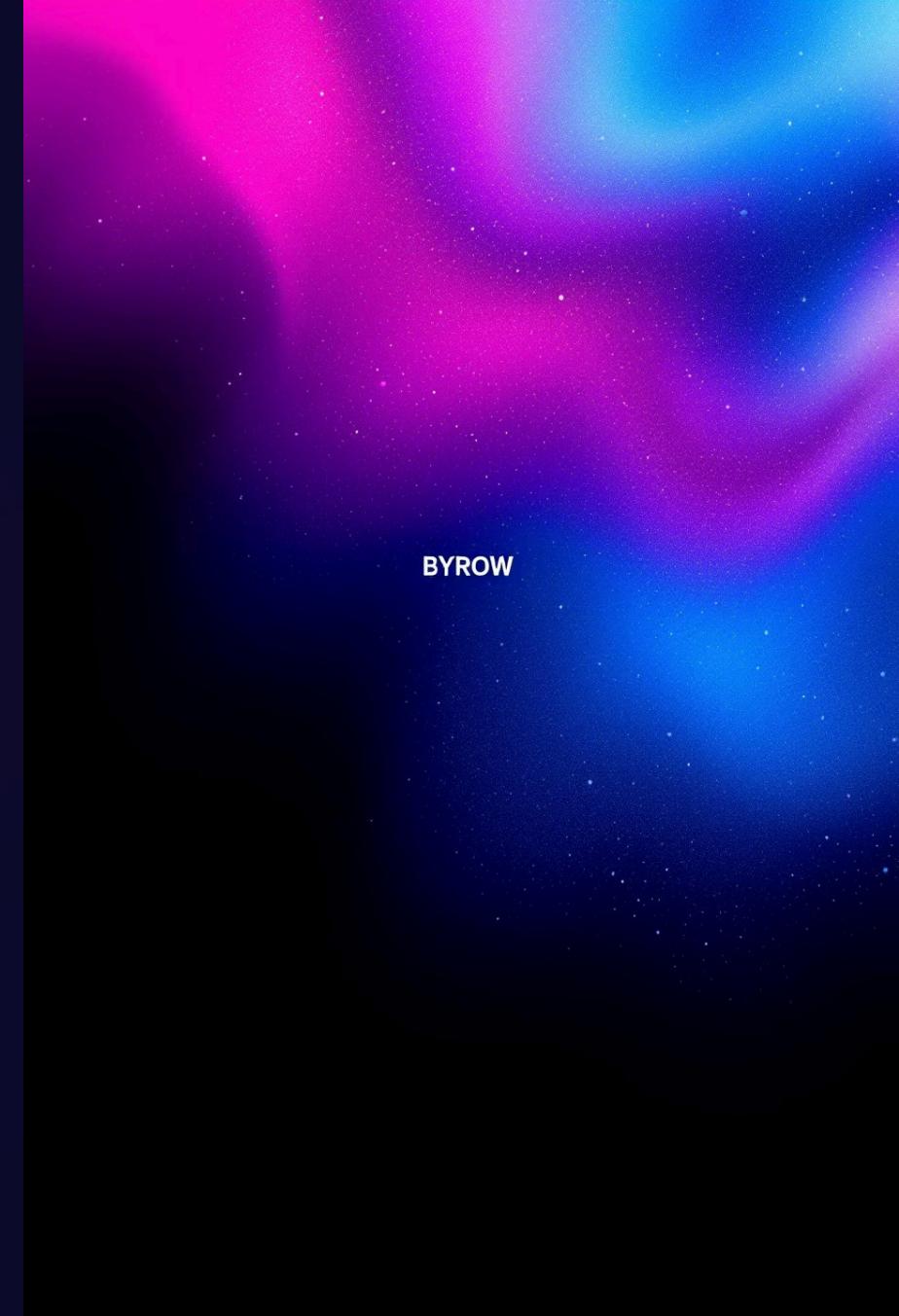
Excel Interpretation

Excel passes each row to the specified function

3

Limitation

Works for single-argument functions only



BYROW

Example: Count Cells Over 90



```
=BYROW(C5:H15, LAMBDA(row, SUM(--(row>90))))
```

Multiple Functions with BYROW

1

Use HSTACK or VSTACK

2

Combine Multiple Functions

3

Return Multiple Results per Row

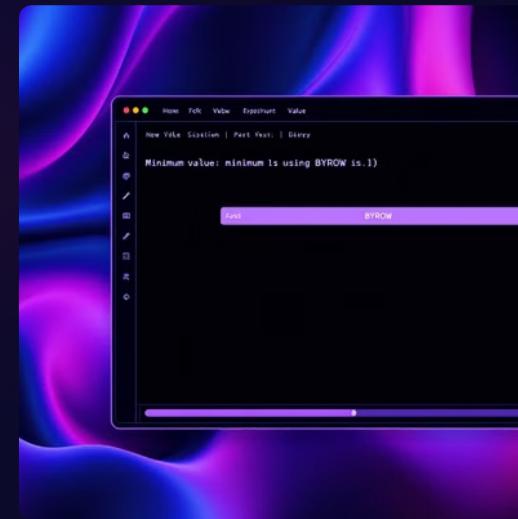
=BYROW(C5:H15, HSTACK(SUM, MAX, MIN))

BYROW Function Examples



A futuristic interface showing a 'Weekly Reports' dashboard. The dashboard displays a grid of data with various columns and rows of numbers. A prominent total value of **\$158,560** is displayed at the bottom right of the grid.

Category	Sub-Cat	Value 1	Value 2	Value 3	Value 4	Value 5	Value 6	Value 7	Value 8	Value 9	Value 10	Total
Revenue	Q1	123,456	78,901	56,789	45,678	34,567	23,456	12,345	9,876	7,654	5,432	382,288
Revenue	Q2	135,678	89,012	67,890	56,789	45,678	34,567	23,456	12,345	9,876	7,654	402,288
Revenue	Q3	147,890	98,123	77,012	66,987	55,890	44,789	33,678	22,567	11,456	9,345	422,288
Revenue	Q4	159,102	107,234	87,213	76,102	65,012	54,890	43,678	32,567	21,456	10,345	442,288
Profit	Q1	45,678	34,567	23,456	12,345	9,876	7,654	5,432	3,210	1,098	876	132,721
Profit	Q2	46,789	35,678	24,567	13,456	10,345	8,210	6,098	3,876	1,654	1,432	133,821
Profit	Q3	47,901	36,789	25,678	14,567	11,456	9,210	7,098	4,876	2,654	2,432	134,921
Profit	Q4	49,012	37,890	26,789	15,678	12,567	10,210	8,098	5,876	3,654	3,432	136,021
Total		188,890	158,560	128,234	98,102	78,789	58,456	38,123	28,790	18,456	16,132	564,444



A laptop screen displaying a table titled "Maximum value by row". The table has columns for Row, Date, Month, Max Factor, Per 100T, Total, and % of Total. Data rows are shown from 1 to 10.

Row	Date	Month	Max Factor	Per 100T	Total	% of Total
1	2023-01-01	January	100%	100.00%	100	100.00%
2	2023-01-02	January	90%	90.00%	90	90.00%
3	2023-01-03	January	80%	80.00%	80	80.00%
4	2023-01-04	January	70%	70.00%	70	70.00%
5	2023-01-05	January	60%	60.00%	60	60.00%
6	2023-01-06	January	50%	50.00%	50	50.00%
7	2023-01-07	January	40%	40.00%	40	40.00%
8	2023-01-08	January	30%	30.00%	30	30.00%
9	2023-01-09	January	20%	20.00%	20	20.00%
10	2023-01-10	January	10%	10.00%	10	10.00%

Related Functions



LAMBDA

Create custom, reusable functions



MAP

Apply function to each array element



BYCOL

Apply function to each column



Learn More About BYROW

15+

Example Formulas

Explore practical BYROW applications

7

Related Functions

Discover complementary Excel functions

1

Comprehensive Guide

Access full BYROW documentation on
Exceljet