

What is the purpose of using the SEQUENCE function in Google Sheets?

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The purpose of using the SEQUENCE function in Google Sheets is to automatically generate a sequence of numbers or dates based on a specified range and step value. This function is useful for creating organized lists, tracking progress, and performing numerical operations in a structured manner. It eliminates the need for manual input and saves time and effort in data management. Additionally, SEQUENCE allows for easy customization by allowing users to specify the starting number and direction of the sequence.

Google Sheets: Use SEQUENCE Function

You can use the SEQUENCE function in Google Sheets to return an array of sequential numbers.

This function uses the following basic syntax:

SEQUENCE(rows, columns, start, step)

where:

rows: The number of rows to return
columns: The number of columns to return (default is 1)
start: The number to start the sequence at (default is 1)
step: The amount to increase or decrease each number in the sequence (default is 1)

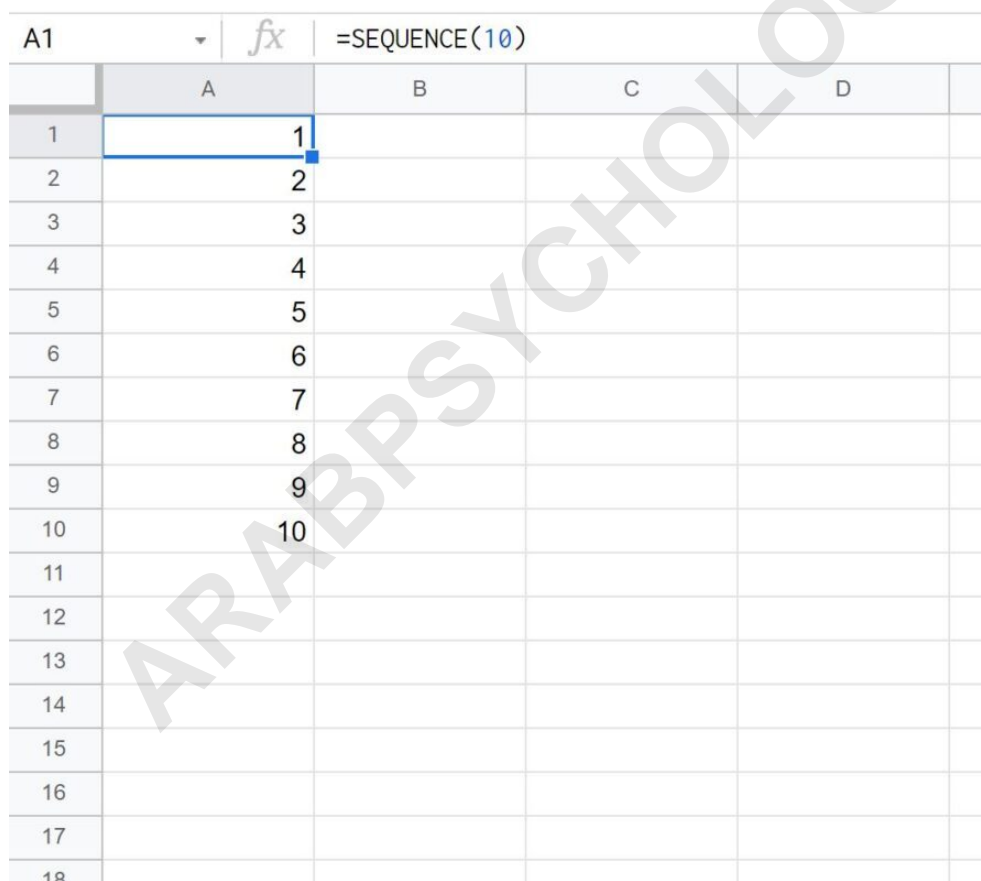
The following examples show to use this function in different scenarios in Google Sheets.

Example 1: Create Sequence of Values in One Column

We can use the following formula to create a sequence of values in one column:

SEQUENCE(10)

The following screenshot shows how to use this formula in practice:



The screenshot displays a Google Sheets spreadsheet. In cell A1, the formula `=SEQUENCE(10)` is entered. The formula bar shows the formula. The spreadsheet grid shows the result: a single column of sequential integers from 1 to 10, starting from row 1, column A. The formula bar also shows the formula `=SEQUENCE(10)`.

	A	B	C	D
1	1			
2	2			
3	3			
4	4			
5	5			
6	6			
7	7			
8	8			
9	9			
10	10			
11				
12				
13				
14				
15				
16				
17				
18				

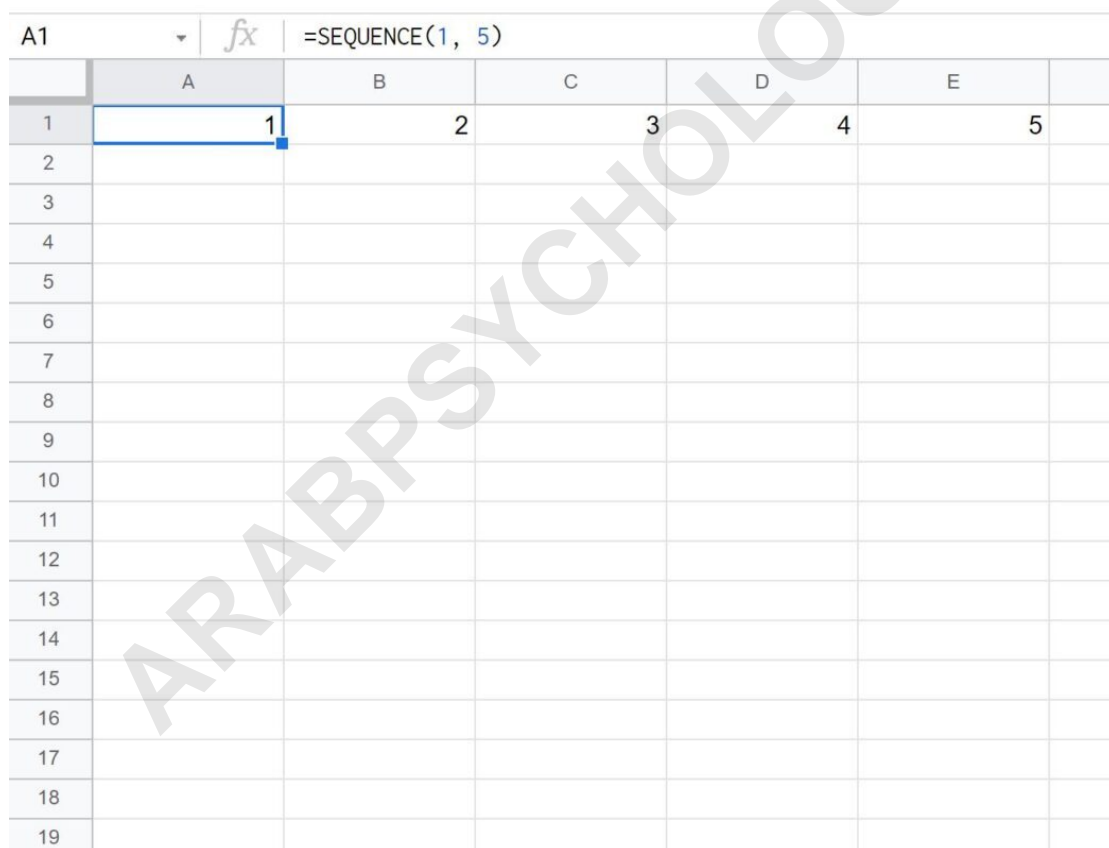
The result is a single column that contains the sequential values 1 through 10.

Example 2: Create Sequence of Values in One Row

We can use the following formula to create a sequence of values in one row:

SEQUENCE(1, 5)

The following screenshot shows how to use this formula in practice:



The screenshot displays a Google Sheets spreadsheet. The formula bar at the top shows the formula `=SEQUENCE(1, 5)` entered in cell A1. The spreadsheet grid shows the result of this formula: a sequence of numbers 1 through 5 placed in cells A1 through E1. The rest of the spreadsheet is empty.

	A	B	C	D	E
1	1	2	3	4	5
2					
3					
4					
5					
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					

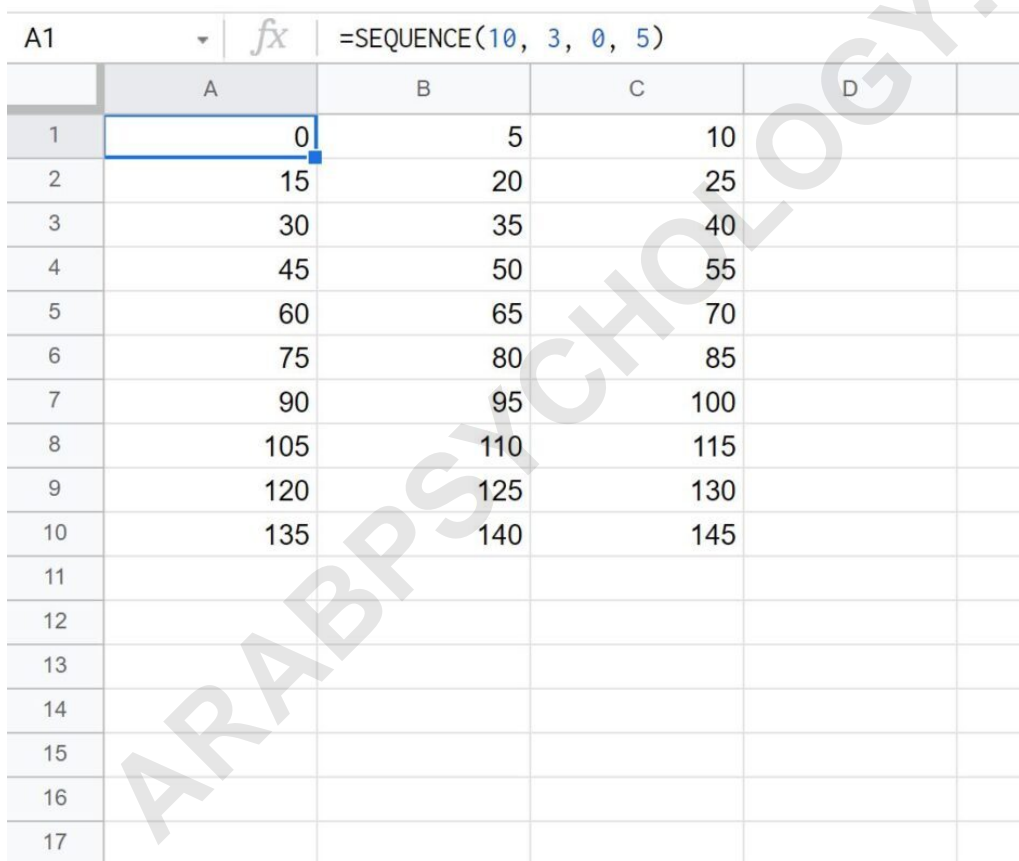
Example 3: Create Matrix of Sequential Values

We can use the following formula to create a matrix of

values with 10 rows, 3 columns, starts at 0, and increases each value by 5:

SEQUENCE(10, 3, 0, 5)

The following screenshot shows how to use this formula in practice:



The screenshot shows a Google Sheet with the formula `=SEQUENCE(10, 3, 0, 5)` entered in cell A1. The formula bar shows the formula. The spreadsheet displays a 10x3 grid of values starting from 0 and increasing by 5 in each row and column.

	A	B	C	D
1	0	5	10	
2	15	20	25	
3	30	35	40	
4	45	50	55	
5	60	65	70	
6	75	80	85	
7	90	95	100	
8	105	110	115	
9	120	125	130	
10	135	140	145	
11				
12				
13				
14				
15				
16				
17				

The result is a matrix with 10 rows, 3 columns, starts at 0, and increases each value by 5.

Note: You can find the complete documentation for the

SEQUENCE function in Google Sheets .

Additional Resources

The following tutorials explain how to use other common functions in Google Sheets:

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