

RANGES CHEAT SHEET

Operators

Range operator (colon)

4-sided range including all cells

	A	B	C	D	E	F
1						
2		5	1	4	1	
3		6	2	3	1	
4		7	6	8	5	
5		8	7	9	2	
6						

B2:D4

Range operator

Intersection operator (space)

Range shared by 2 or more ranges

	A	B	C	D	E	F
1						
2		5	1	4	1	
3		6	2	3	1	
4		7	6	8	5	
5		8	7	9	2	
6						

B2:D4 C2:D5

Intersection operator

Union operator (comma)

Combines two or more ranges together

	A	B	C	D	E	F
1						
2		5	1	4	1	
3		6	2	3	1	
4		7	6	8	5	
5		8	7	9	2	
6						

B2:D2, C4:E4

Union operator

Formulas returning ranges

8 formulas to return ranges.

[1] CHOOSE

CHOOSE (2, B2:B5, C2:C5, D2:D5)

[2] IF

C2: IF (TRUE, C5, D5)

[3] IFS

IFS (1=2, B2:B5, 2=2, C2:C5, 2=2, D2:D5)

[4] INDEX

C2: INDEX (B2:E5, 4, 2) or INDEX (B2:E5, 0, 4)

[5] INDIRECT

C2: INDIRECT ("C5")

[6] OFFSET

OFFSET (B2, 0, 1, 4, 1)

[7] SWITCH

SWITCH (2, 1, B2:B5, 2, C2:C5, 3, D2:D5, 4, E2:E5)

[8] XLOOKUP

C2: XLOOKUP (8, B2:B5, C2:C5)

	A	B	C	D	E	F
1						
2		5	1	4	1	
3		6	2	3	1	
4		7	6	8	5	
5		8	7	9	2	
6						

All examples
return C2:C5

Calculation Order

[1] Brackets [2] Range [3] Intersection [4] Union

Ex1

	A	B	C	D	E	F
1						
2		5	1	4	1	
3		6	2	3	1	
4		7	6	8	5	
5		8	7	9	2	
6						

B3:E3 (C2:C5, D4)

Intersection

1 (C2:C5, D4) 2 B3:E3 (C2:C5, D4) 3 C3

Ex2

	A	B	C	D	E	F
1						
2		5	1	4	1	
3		6	2	3	1	
4		7	6	8	5	
5		8	7	9	2	
6						

B3:E3 C2:C5, D4

Intersection

1 B3:E3 C2:C5 2 C3, D4 3 C3, D4

Ex3

	A	B	C	D	E	F
1						
2		5	1	4	1	
3		6	2	3	1	
4		7	6	8	5	
5		8	7	9	2	
6						

B2:(D3, C4)

Includes all cells

1 (D3, C4) 2 B2:(D3, C4) 3 B2:D4

Other Operators

\$

Absolute marker:

Freezes cell references when copying or dragging

Use [F4] to cycle through options

#

Spill operator:

Returns range from a dynamic array spill range

@

Implicit intersection operator:

Returns cell from same row or column