

# ReoGrid Web

## Product Catalog

High-performance canvas spreadsheet library for the web

Version 1.4.0 — July 2026

	A	B	C	D	E	F
1	<b>FY2026 Summary Report</b>					
2	<b>Department</b>	<b>Q1</b>	<b>Q2</b>	<b>Q3</b>	<b>Q4</b>	<b>Total</b>
3	<b>Sales</b>	4,200	4,650	5,100	5,800	<b>19,750</b>
4	<b>Marketing</b>	1,800	1,750	2,100	2,300	<b>7,950</b>
5	<b>Support</b>	950	1,020	1,100	1,180	<b>4,250</b>
6	<b>Development</b>	3,100	3,300	3,450	3,700	<b>13,550</b>
7	<b>Operations</b>	1,500	1,480	1,620	1,750	<b>6,350</b>
8	<b>Total</b>	<b>11,550</b>	<b>12,200</b>	<b>13,370</b>	<b>14,730</b>	<b>51,850</b>
9						
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11						
	<b>+</b>	<b>Summary</b>	Sales	Inventory	明細	

# Core Features

The foundation: high-performance rendering, cell data, styling, and workbook structure.

	A	B	C	D	E	F	G	H	I	J	K	L
1	ID	Product	Region	Q1	Q2	Q3	Q4	Total	Revenue	Profit	Margin	Status
2	#1000	Sensor AB	Tokyo	1,000	1,022	1,054	1,400	11,222	-15%	0.9%	1	OK
3	#1001	Module B1	Osaka	9,007	9,207	9,290	3,554	19,648	-7%	8.0%	2	OK
4	#1002	Display C2	Nagoya	2,205	4,622	6,205	8,440	21,473	-1%	1.0%	3	OK
5	#1003	Battery D3	Fukuoka	2,658	7,817	8,331	5,990	22,896	3%	2.8%	4	OK
6	#1004	Cable E4	Sapporo	3,770	6,103	1,104	2,737	15,776	-7%	6.0%	5	OK
7	#1005	Adapter F5	Sentai	1,121	4,457	6,865	9,689	22,228	-12%	2%	6	OK
8	#1006	Frame G6	Tokyo	9,031	3,884	9,112	1,160	23,795	13%	9.7%	7	OK
9	#1007	Lens H7	Osaka	9,943	3,982	2,909	6,190	23,020	22%	6.0%	8	Review
10	#1008	Sensor I8	Nagoya	9,998	8,204	4,862	3,285	26,379	9%	0.3%	9	OK
11	#1009	Module J9	Fukuoka	9,267	6,484	4,199	8,867	31,823	-16%	8.0%	10	OK
12	#1010	Display K0	Sapporo	9,690	6,947	7,112	5,844	29,223	18%	5.2%	11	OK
13	#1011	Battery L1	Sentai	9,348	9,982	4,920	8,201	32,459	-4%	2.7%	12	OK
14	#1012	Cable M2	Tokyo	1,431	3,497	6,444	1,960	13,322	-2%	6.0%	13	OK
15	#1013	Adapter N3	Osaka	4,389	5,220	1,803	4,411	16,823	-9%	6.9%	14	OK
16	#1014	Frame O4	Nagoya	9,268	9,324	1,889	9,919	20,981	24%	9.2%	15	Review
17	#1015	Lens P5	Fukuoka	6,080	4,320	6,700	6,614	23,715	-4%	3.7%	16	OK
18	#1016	Sensor Q6	Sapporo	5,795	3,309	9,662	6,124	24,890	22%	1.8%	17	OK
19	#1017	Module R7	Sentai	2,434	3,954	7,216	3,060	22,889	-17%	4.4%	18	OK
20	#1018	Display S8	Tokyo	8,910	5,349	5,580	3,080	22,919	-12%	9.4%	19	OK
21	#1019	Battery T9	Osaka	8,880	3,381	7,819	4,062	24,099	19%	5.2%	20	OK
22	#1020	Cable U0	Nagoya	1,008	1,184	1,596	6,015	9,263	-8%	9.7%	21	OK
23	#1021	Adapter V1	Fukuoka	3,851	6,791	9,908	5,439	25,946	14%	2.1%	22	Review
24	#1022	Frame W2	Sapporo	6,883	6,403	5,169	3,384	18,815	-4%	2.0%	23	OK
25	#1023	Lens X3	Sentai	5,131	3,711	6,420	5,585	19,847	-11%	7.6%	24	OK
26	#1024	Sensor Y4	Tokyo	8,347	6,487	6,049	2,924	23,778	19%	4.0%	25	OK
27	#1025	Module Z5	Osaka	1,939	6,148	4,477	2,775	15,239	-4%	11.1%	26	OK
28	#1026	Display A6	Nagoya	4,544	2,474	6,541	8,504	24,063	13%	2.9%	27	OK
29	#1027	Battery B7	Fukuoka	3,942	3,121	3,608	9,265	19,737	13%	6.7%	28	OK
30	#1028	Cable C8	Sapporo	4,801	6,620	4,967	7,879	23,687	-16%	9.4%	29	Review
31	#1029	Adapter D9	Sentai	8,038	1,168	6,002	5,375	22,680	9%	0.1%	30	OK
32	#1030	Frame E0	Tokyo	8,802	9,777	9,909	3,220	30,699	-9%	4.4%	31	OK
33	#1031	Lens F1	Osaka	6,279	8,983	7,792	6,296	28,248	-8%	6.8%	32	OK

## Canvas Rendering LITE

High-performance cell rendering on HTML5 Canvas — no DOM bloat, 10,000 rows at 60 fps.

```
createReogrid({ workspace: '#grid' })
```

	A	B	C	D	E	F
1	FY2026 Summary Report					
2	Department	Q1	Q2	Q3	Q4	Total
3	Sales	4,200	4,650	5,100	5,800	19,750
4	Marketing	1,800	1,750	2,100	2,300	7,950
5	Support	950	1,020	1,100	1,180	4,250
6	Development	3,100	3,300	3,450	3,700	13,550
7	Operations	1,500	1,480	1,620	1,750	6,350
8	Total	11,550	12,200	13,370	14,730	51,850
9						
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11						

+ Summary Sales Inventory 明細

## Multi-Sheet Workbook LITE

A grid is a workbook of N worksheets with a built-in sheet tab bar — add, rename, reorder, hide, and color tabs. Each sheet keeps its own data, selection, frozen panes, and undo history.

```
instance.workbook.addSheet('Sheet2')
```

# Core Features

	A	B	C	D
1	<b>Type</b>	<b>Input</b>	<b>Display</b>	<b>API</b>
2	Text	Hello, ReoGrid	General	cell.setValue('Hello, ReoGrid')
3	Number	1,234,567.89	#,##0.00	setCellInput(r, c, '1234567.89')
4	Percentage	72.5%	0.0%	setCellNumberFormat(r, c, '0.0%')
5	Currency	¥49,800	¥#,##0	setCellNumberFormat(r, c, '¥#,##0')
6	Date	2024/01/15	yyyy/mm/dd	setCellNumberFormat(r, c, 'yyyy/mm/dd')
7	Formula	2,489,135.78	#,##0.00	setCellInput(r, c, '=B3*B4')
8	Japanese text	請求書データ 第42号	General	cell.value = ...
9				
10				
...				

## Cell Data LITE

Read and write cell values, bulk-load datasets, and retrieve formatted display text through a simple API.

```
worksheet.loadCells(data)
```

	A	B	C	D
1	<b>Style</b>	<b>Example</b>		
2	Bold / Italic / Underline	<i><b>The quick brown fox</b></i>		
3	Font family	Georgia 14px serif text		
4	Font size	<b>Large heading 18px</b>		
5	Text color	Crimson #dc143c		
6	Background color	Amber background #f1c232		
7	Inverse	White on slate		
8	Align left	Left		
9	Align center	Center		
10	Align right	Right		
11	Wrap text	A long sentence that wraps onto multiple lines inside one cell.		
12				
...				

## Cell Styles LITE

Font family, size, bold, italic, underline, text and background colors, horizontal/vertical alignment, and text wrapping.

```
worksheet.setRangeStyle(range, style)
```

	A	B	C
1	<b>Format Code</b>	<b>Raw Value</b>	<b>Formatted</b>
2	#,##0	1234567	1,234,567
3	#,##0.00	1234567.891	1,234,567.89
4	¥#,##0	49800	¥49,800
5	\$#,##0.00	1299.5	\$1,299.50
6	0.0%	0.725	72.5%
7	0.00E+00	12345678	0.0033683+00
8	yyyy/mm/dd	45306	2024/01/15
9	mmm d, yyyy	45306	Jan 15, 2024
10	h:mm AM/PM	0.8042	11:30 PM
11	#,##0;[Red](#,##0)	-52000	(52,000)
12			

## Number Formatting LITE

Excel-compatible format codes — thousands separators, currency, percentages, dates and times (#,##0, ¥#,##0, 0.00%).

```
worksheet.setCellNumberFormat(r, c, '#,##0')
```

# Core Features

	A	B	C
1	フォーマットコード	値	表示
2	ggge"年"m"月"d"日"	45306	令和6年1月15日
3	ge/m/d	45306	R6/1/15
4	gge.m.d	43586	令1.5.1
5	gggee"年"mm"月"dd"日"	36586	平成12年03月01日
6	ggge"年" m"月"	45306	令和6年 1月
7	¥#,##0;[赤]¥-#,##0	-128000	¥-128,000
8	#,##0"円"	4980000	4,980,000円
9	0.0"割"	7.25	7.3割
10			
11			

## Japanese Era & Color Formats LITE

Reiwa/Heisei/Showa era dates and [Red]/[赤] color bracket formats for Japanese business documents.

	A	B	C	D	E	F	G	H	I
1									
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20									

## Borders LITE

Cell and range borders on any side, with style, color, and width control.

```
worksheet.setRangeBorders(range, borders)
```

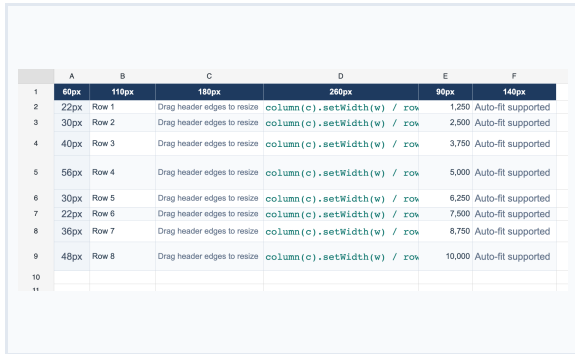
Monthly Sales Report — 2026						
Region	First Half			Second Half		
	Q1	Q2	Subtotal	Q3	Q4	Subtotal
Kanto	4,200	4,650	8,850	5,100	5,800	10,900
Kansai	3,300	3,150	6,450	3,600	3,900	7,500
Tohoku	1,450	1,500	2,950	1,700	1,850	3,550
Kyushu	2,100	2,300	4,400	2,250	2,500	4,750
Grand Total						49,350

## Cell Merging LITE

Merge and unmerge cells for titles, grouped headers, and complex multi-level table layouts.

```
worksheet.mergeCells(range)
```

# Core Features



	A	B	C	D	E	F
1	60px	110px	180px	260px	90px	140px
2	22px	Row 1	Drag header edges to resize	<code>column(c).setWidth(w) / row</code>	1,250	Auto-fit supported
3	30px	Row 2	Drag header edges to resize	<code>column(c).setWidth(w) / row</code>	2,500	Auto-fit supported
4	40px	Row 3	Drag header edges to resize	<code>column(c).setWidth(w) / row</code>	3,750	Auto-fit supported
5	56px	Row 4	Drag header edges to resize	<code>column(c).setWidth(w) / row</code>	5,000	Auto-fit supported
6	30px	Row 5	Drag header edges to resize	<code>column(c).setWidth(w) / row</code>	6,250	Auto-fit supported
7	22px	Row 6	Drag header edges to resize	<code>column(c).setWidth(w) / row</code>	7,500	Auto-fit supported
8	36px	Row 7	Drag header edges to resize	<code>column(c).setWidth(w) / row</code>	8,750	Auto-fit supported
9	48px	Row 8	Drag header edges to resize	<code>column(c).setWidth(w) / row</code>	10,000	Auto-fit supported
10						
11						

## Row & Column Sizing LITE

Resize rows and columns by dragging headers or via the API, with auto-fit to content.

```
worksheet.setColumnWidth(col, 120)
```

## Row & Column Insert / Delete / Hide PRO

Insert and delete rows or columns, and show or hide them. Formula references shift automatically.

```
worksheet.rows.insertAt(5, 2)
```

# Formula Engine

An Excel-compatible formula engine with automatic recalculation and cross-sheet references.

	A	B	C	D	E
1	Item	Price	Qty	Amount	Formula
2	Standing Desk	¥64,800	4	¥259,200	=B2*C2
3	Ergonomic Chair	¥48,800	6	¥228,800	=B3*C3
4	Monitor Arm	¥12,800	10	¥128,000	=B4*C4
5	USB-C Dock	¥18,500	8	¥148,000	=B5*C5
6	Webcam	¥9,800	12	¥117,600	=B6*C6
7	Subtotal			¥952,400	=SUM(D2:D6)
8	Tax (10%)			¥95,240	=D7*0.1
9	<b>Total</b>			<b>¥1,047,640</b>	=D7+D8
10					
11					

## Formula Engine LITE

Excel-compatible AST parser with a dependency graph — referenced cells recalculate automatically. A1 relative and absolute references, range references.

```
worksheet.setCellInput(r, c, '=A1+B1*2')
```

	A	B	C	D	E
1	Category	Formula	Result	Sales	Region
2	Math	=SUM(D2:D7)	8195	1250	East
3	Statistics	=AVERAGE(D2:D7)	1365.8333	890	West
4	Statistics	=MEDIAN(D2:D7)	1362.5	2100	East
5	Logical	=IF(SUM(D2:D7)>9000, "On target", "	On target	1475	North
6	Conditional	=SUMIF(B2:E7, "East", D2:D7)	5170	860	West
7	Conditional	=COUNTIFS(D2:D7, ">1000", E2:E7, "Ea	3	1920	East
8	Lookup	=XLOOKUP(2100, D2:D7, E2:E7)	East		
9	Text	=PROPER("reogRID web")	Reogrid Web		
10	Text	=CONCAT("Total: ", SUM(D2:D7))	Total: 8195		
11	Date	=DATE(2026, 6, 11)	2026/06/11		
12	Math	=ROUND(PI()*100, 2)	314.16		
13	Trig	=SIN(PI()/2)	1		
14					
15					

## 109 Built-in Functions PRO

109 functions across math, statistics, trigonometry, logical, text, date/time, lookup, info, conditional aggregation, and random categories.

```
=SUM(A1:A10)
```

# Formula Engine

	A	B	C
1	<b>Invoice Summary — cross-sheet references</b>		
2	<b>Item</b>	<b>Value</b>	<b>Formula</b>
3	First line item (明細A1)	Standing Desk	=明細!A1
4	Subtotal of 明細 sheet	¥834,800	=SUM(明細!B1:B4)
5	Largest line item	¥298,800	=MAX(明細!B1:B4)
6	Line item count	4	=COUNT(明細!B1:B4)
7	Tax (10%)	¥83,480	=SUM(明細!B1:B4)*0.1
8	Grand total	¥918,280	=SUM(明細!B1:B4)*1.1
9			
+	請求書	明細	

## Cross-Sheet Formulas LITE

Reference cells on other sheets — =Sheet1!A1, =SUM(明細!A1:A3), =VLOOKUP(A1,Master!A1:C10,2). Renames rewrite formulas; edits propagate across sheets.

=SUM('My Sheet'!A1:B2)

	A	B	C	D	E	F
1	<b>Code</b>	<b>Product</b>	<b>Price</b>		<b>Formula</b>	<b>Result</b>
2	P-001	Standing Desk	¥64,800		=VLOOKUP("P-003",A2:C7,2)	
3	P-002	Ergonomic Chair	¥49,800		=VLOOKUP("P-003",A2:C7,3)	¥12,800
4	P-003	Monitor Arm	¥12,800		=XLOOKUP("P-005",A2:A7,B2:B7)	Webcam HD
5	P-004	USB-C Dock	¥18,600		=INDEX(B2:B7,MATCH("P-002",A2:A7,0))	Ergonomic Chair
6	P-005	Webcam HD	¥9,800		=MATCH("P-004",A2:A7,0)	4
7	P-006	Desk Lamp	¥4,200		=ADDRESS(MATCH("P-006",A2:A7,0)+1)	\$B\$7
8						
9						

## Lookup & Reference PRO

VLOOKUP, HLOOKUP, XLOOKUP, INDEX, MATCH, XMATCH, ADDRESS, ROW, COLUMN, ROWS, COLUMNS.

=VLOOKUP(A2, D2:F10, 2)

	A	B	C	D	E	F
1	<b>Region</b>	<b>Rep</b>	<b>Sales</b>		<b>Formula</b>	<b>Result</b>
2	East	Tanaka	1,250		=SUMIF(A2:A9,"East",C2:C9)	5,170
3	West	Suzuki	890		=COUNTIF(A2:A9,"West")	3
4	East	Sato	2,100		=AVERAGEIF(A2:A9,"North",C2:C9)	1,228
5	North	Yamamoto	1,475		=SUMIFS(C2:C9,A2:A9,"East",C2:C9,">1)	3,920
6	West	Ito	660		=COUNTIFS(C2:C9,">1000",A2:A9,"East")	3
7	East	Watanabe	1,820		=MAXIFS(C2:C9,A2:A9,"West")	#NAME?
8	North	Kato	980		=MINIFS(C2:C9,A2:A9,"North")	#NAME?
9	West	Kimura	1,340			
10						

## Conditional Aggregation PRO

SUMIF, COUNTIF, AVERAGEIF and the multi-criteria \*IFS variants (SUMIFS, COUNTIFS, MAXIFS, MINIFS).

=SUMIFS(C2:C20, A2:A20, "East")

# Formula Engine

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## Smart Formula Editor LITE

While editing a formula, click cells to insert references — each reference is color-coded with a matching outline on the grid, and ranges can be dragged to move or resize.

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## Named Ranges PRO New in 1.4.0

Define workbook- or sheet-scoped names for cells and ranges — =SUM(Sales), =Price\*Qty. Renames, deletes, and structural shifts update or break (#REF!) names like a literal reference. xlsx/JSON round-trip; reads work in Lite.

```
instance.defineName('Sales', 'C2:C20')
```

---

# Advanced Features

Data-application features: filtering, sorting, grouping, rich cell types, and million-row datasets.

	A	B	C	D	E	F	G	H
1	Pattern	Number	Step 5	Date	Weekday	Formula	Copy	Mixed
2	source	1	5	1/15	Mon	10	ReoGrid	Item 1
3	source	2	10	1/16	Tue	20	ReoGrid	Item 2
4	filled	3	15	1/17	Wed	30	ReoGrid	Item 3
5	filled	4	20	1/18	Thu	40	ReoGrid	Item 4
6	filled	5	25	1/19	Fri	50	ReoGrid	Item 5
7	filled	6	30	1/20	Sat	60	ReoGrid	Item 6
8	filled	7	35	1/21	Sun	70	ReoGrid	Item 7
9	filled	8	40	1/22	Mon	80	ReoGrid	Item 8
10	filled	9	45	1/23	Tue	90	ReoGrid	Item 9
11	filled	10	50	1/24	Wed	100	ReoGrid	Item 10
12	filled	11	55	1/25	Thu	110	ReoGrid	Item 11
13	filled	12	60	1/26	Fri	120	ReoGrid	Item 12
14								

## Auto-fill (Fill Handle) LITE

Drag the bottom-right square of the selection to extend values in any direction. Detects copy, arithmetic progression, date increment, and formula relative-reference patterns.

	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z
1	Region	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec			
2	Tokyo 1	800	1,881	933	815	1,594	1,209	993	1,628	1,032	1,314	1,329	1,45			
3	Osaka 1	1,225	883	1,081	1,061	1,547	980	1,025	1,201	1,883	1,711	884	1,29			
4	Hiroya 1	1,884	1,252	1,450	1,395	1,897	1,892	1,095	1,923	1,254	988	728	94			
5	Fukuoka 1	1,142	942	1,305	1,316	1,593	1,816	987	910	1,340	1,283	1,132	79			
6	Sapporo 1	1,882	883	1,048	1,016	1,486	1,886	1,273	748	1,558	822	1,048	1,13			
7	Sendai 1	998	1,297	1,421	840	1,859	1,188	1,794	1,452	1,481	1,224	1,257	1,93			
8	Himezima 1	1,959	1,095	1,092	876	1,380	1,028	995	1,097	1,692	1,816	895	1,72			
9	Kobe 1	816	1,110	720	816	1,884	830	1,468	716	1,585	1,389	795	1,88			
10	Yokohama 1	1,820	1,835	1,827	1,861	1,811	813	515	872	814	502	1,435	84			
11	Nyoto 1	1,811	1,254	1,231	887	1,823	882	1,060	1,841	877	1,223	594	1,86			
12	Kawasaki 1	1,455	1,883	831	1,850	782	1,953	1,347	1,519	899	834	813	1,34			
13	Chiba 1	978	1,824	1,551	1,971	1,247	949	895	878	696	1,031	1,839	95			
14	Higashi 1	1,824	1,782	1,889	1,831	1,867	1,129	872	1,891	1,823	1,097	852	1,19			
15	Shizuoka 1	1,820	1,338	1,027	1,432	1,622	1,022	1,587	1,134	797	987	1,978	1,89			
16	Osayama 1	1,448	1,885	1,877	799	1,897	733	1,244	1,238	1,837	1,818	1,223	79			
17	Tokyo 2	1,170	749	1,493	1,282	1,342	1,280	1,835	1,043	1,628	539	844	1,31			
18	Osaka 2	804	1,584	936	853	1,489	1,143	812	1,059	1,734	1,872	1,895	1,82			
19	Hiroya 2	1,938	937	1,642	1,851	1,886	1,847	956	793	850	862	827	85			
20	Fukuoka 2	1,487	1,818	788	700	803	1,212	864	1,184	1,980	1,133	1,510	1,95			
21	Sapporo 2	1,098	1,164	991	845	1,711	1,891	728	1,888	1,283	883	818	1,48			
22	Sendai 2	725	617	809	1,489	1,334	1,220	1,890	612	1,120	871	906	90			
23	Himezima 2	1,120	837	851	1,886	1,886	1,845	1,155	1,782	1,943	1,701	1,482	1,39			
24	Kobe 2	1,022	1,110	1,040	1,242	1,351	1,382	1,487	1,449	1,983	1,808	1,787	1,88			
25	Yokohama 2	1,187	1,220	1,835	1,882	1,836	818	1,014	1,823	1,842	1,807	1,832	1,89			
26	Nyoto 2	810	887	1,897	858	1,873	1,700	1,482	1,587	1,283	1,164	1,898	1,34			
27	Kawasaki 2	1,810	955	1,039	1,151	1,092	781	1,383	847	1,844	1,733	1,008	1,83			
28	Chiba 2	1,816	873	981	1,881	901	897	1,095	532	1,039	1,848	799	81			
29	Higashi 2	1,800	1,849	792	878	1,439	833	1,717	1,387	1,628	892	966	1,97			
30	Shizuoka 2	1,832	1,321	1,382	1,888	1,553	1,800	1,398	850	968	1,419	837	1,37			
31	Osayama 2	878	884	1,440	1,448	1,719	859	1,888	878	1,838	1,110	1,887	1,48			
32	Tokyo 3	1,327	856	1,879	1,251	1,734	1,137	1,799	1,885	1,590	1,881	1,787	78			
33	Osaka 3	1,678	731	887	1,897	1,932	854	815	890	1,911	1,804	1,834	81			

## Freeze Panes PRO

Freeze rows and columns so headers stay visible while scrolling large datasets.

```
worksheet.setFrozenRows(1)
```

# Advanced Features

	A	B	C	D	E	F
1	Employee	Department	Sales	Deals	Win Rate	Join Year
2	Inoue L.	Development	15,954	23	84%	2015
3	Sato C.	Support	15,831	15	46%	2017
4	Kato I.	Sales	12,773	7	86%	2023
5	Yoshida J.	Marketing	12,252	34	74%	2024
6	Abe Q.	Sales	12,176	11	36%	2020
7	Hayashi N.	Marketing	11,409	12	68%	2017
8	Suzuki B.	Marketing	10,843	12	66%	2016
9	Yamamoto D.	Development	10,799	7	84%	2018
10	Mori P.	Development	9,369	15	65%	2019
11	Watanabe E.	Sales	8,303	34	37%	2019
12	Kobayashi H.	Development	7,911	19	62%	2022
13	Kimura M.	Sales	5,995	40	79%	2016
14	Shimizu O.	Support	4,462	37	71%	2018
15	Ito F.	Marketing	3,731	8	40%	2020
16	Matsumoto K.	Support	3,634	5	61%	2025
17	Nakamura G.	Support	2,724	21	76%	2021
18	Iwata R.	Marketing	2,483	44	76%	2021
19	Tanaka A.	Sales	2,002	35	82%	2015

## Sorting PRO

Ascending and descending column sort, with custom comparators via the API.

```
worksheet.sortColumn(2, 'asc')
```

	A	B	C	D	E	F
1	Order ID	Product	Category	Region	Amount	Status
2	ORD-2000	Wireless Mouse	Electronics	Tokyo	\$29,259	Shipped
3	ORD-2001	USB-C Hub	Furniture	Tokyo	\$48,505	Delivered
5	ORD-2003	Ergonomic Chair	Electronics	Fukuoka	\$54,445	Delivered
6	ORD-2004	Keyboard	Furniture	Osaka	\$13,270	Shipped
8	ORD-2006	Webcam HD	Electronics	Nagoya	\$18,463	Shipped
9	ORD-2007	Desk Lamp	Furniture	Nagoya	\$36,896	Shipped
11	ORD-2009	USB-C Hub	Electronics	Nagoya	\$60,238	Delivered
12	ORD-2010	Standing Desk	Furniture	Tokyo	\$14,202	Pending
14	ORD-2012	Keyboard	Electronics	Fukuoka	\$78,923	Shipped
15	ORD-2013	Monitor Arm	Furniture	Tokyo	\$14,182	Pending
17	ORD-2015	Desk Lamp	Electronics	Osaka	\$69,515	Delivered
18	ORD-2016	Wireless Mouse	Furniture	Fukuoka	\$34,126	Delivered
20	ORD-2018	Standing Desk	Electronics	Fukuoka	\$41,579	Delivered
21	ORD-2019	Ergonomic Chair	Furniture	Nagoya	\$2,329	Shipped
23	ORD-2021	Monitor Arm	Electronics	Nagoya	\$46,735	Delivered
24	ORD-2022	Webcam HD	Furniture	Fukuoka	\$81,534	Delivered
26	ORD-2024	Wireless Mouse	Electronics	Tokyo	\$14,478	Pending
27	ORD-2025	USB-C Hub	Furniture	Osaka	\$6,187	Pending
29	ORD-2027	Ergonomic Chair	Electronics	Tokyo	\$43,890	Shipped
30	ORD-2028	Keyboard	Furniture	Nagoya	\$63,094	Delivered
32	ORD-2030	Webcam HD	Electronics	Nagoya	\$10,089	Pending
33	ORD-2031	Desk Lamp	Furniture	Fukuoka	\$42,539	Shipped

## Auto-Filter PRO

Excel-style header dropdowns for filtering rows by value, combined with sorting. Handles 10,000+ rows with ease.

```
worksheet.createAutoFilter(range)
```

	A	B	C	D	E	F	G
1	Account	Apr	May	Jun	Q1 Total	Budget	Diff
2	Salaries	3,200	3,200	3,300	9,700	10,195	485
3	Travel	420	510	380	1,310	1,376	66
4	Commissions	800	920	1,050	2,770	2,909	139
5	<b>Sales Division</b>	<b>4,420</b>	<b>4,630</b>	<b>4,730</b>	<b>13,780</b>		
6	Advertising	1,500	1,800	1,650	4,950	5,198	248
7	Events	300	0	700	1,000	1,050	50
8	Content	250	260	250	760	798	38
9	<b>Marketing Division</b>	<b>2,050</b>	<b>2,060</b>	<b>2,600</b>	<b>6,710</b>		
10	Salaries	5,100	5,100	5,300	15,500	16,275	775
11	Cloud Infra	880	910	960	2,750	2,888	138
12	Tooling	150	140	170	460	483	23
13	<b>Development Division</b>	<b>6,130</b>	<b>6,150</b>	<b>6,430</b>	<b>18,710</b>		

## Grouping (Outline) PRO

Row and column outlining with collapse/expand controls and multi-level nesting.

```
worksheet.groupRows(2, 5)
```

# Advanced Features

	A	B	C	D	E	F	G	H
1	Name	Sales	Achievement %	PAI %	Rating	Monthly Trend	Active	Profile
2	Tanaka Yuki	12,500	<div style="width: 80%;"></div>	<div style="width: 70%;"></div>	★★★★★		<input checked="" type="checkbox"/>	Tanaka
3	Suzuki Haru	9,800	<div style="width: 60%;"></div>	<div style="width: 50%;"></div>	★★★★☆		<input checked="" type="checkbox"/>	Suzuki
4	Sato Kenji	15,200	<div style="width: 90%;"></div>	<div style="width: 80%;"></div>	★★★★★		<input checked="" type="checkbox"/>	Sato
5	Yamamoto Aoi	4,300	<div style="width: 40%;"></div>	<div style="width: 30%;"></div>	★★★☆☆		<input type="checkbox"/>	Yamamoto
6	Watanabe Riko	11,000	<div style="width: 75%;"></div>	<div style="width: 65%;"></div>	★★★★☆		<input checked="" type="checkbox"/>	Watanabe
7	Ito Sota	7,600	<div style="width: 55%;"></div>	<div style="width: 45%;"></div>	★★★☆☆		<input checked="" type="checkbox"/>	Ito
8	Nakamura Mai	13,800	<div style="width: 85%;"></div>	<div style="width: 75%;"></div>	★★★★★		<input checked="" type="checkbox"/>	Nakamura
9	Kobayashi Ren	5,100	<div style="width: 35%;"></div>	<div style="width: 25%;"></div>	★★☆☆☆		<input type="checkbox"/>	Kobayashi
10	Kato Sakura	10,500	<div style="width: 70%;"></div>	<div style="width: 60%;"></div>	★★★★☆		<input checked="" type="checkbox"/>	Kato
11	Matsumoto Yuna	14,500	<div style="width: 85%;"></div>	<div style="width: 75%;"></div>	★★★★★		<input checked="" type="checkbox"/>	Matsumoto
12								

## Cell Types PRO

Checkbox, dropdown, button, progress bar, star rating, sparkline, and hyperlink — interactive widgets inside cells.

```
worksheet.setCellType(r, c, { type: 'progress' })
```

	A	B	C	D	E	F	G
1	Product	Category	Stock	Target	Sales	Revenue	Status
2	Wireless Mouse	Electronics	150	200	210	6300	Delivered
3	USB-C Hub	Electronics	25	180	165	8250	Delivered
4	Standing Desk	Furniture	45	100	82	24600	Pending
5	Ergonomic Chair	Furniture	8	60	45	13500	Pending
6	Mechanical Keyboard	Electronics	200	300	320	25600	Delivered
7	Monitor Arm	Accessories	12	80	90	4500	Delivered
8	Webcam HD	Electronics	65	150	95	4750	Cancelled
9	Desk Lamp	Accessories	180	120	130	3900	Delivered
10	Laptop Stand	Accessories	5	90	70	2100	Pending
11	Noise-Cancel Buds	Electronics	15	250	180	14400	Pending
12	Whiteboard	Office	30	40	38	2280	Delivered
13	Paper Shredder	Office	3	20	12	1440	Cancelled
14							
15							

## Conditional Formatting PRO

Value-, expression-, and text-based rules that restyle matching cells live, with per-side border overrides.

```
worksheet.addConditionalFormat(rule)
```

	A	B	C	D	E	F	G
1	Row	Order ID	Customer	Product	Amount	Date	Status
49994	ORD-549994	Wayne Enterprises	Battery Pack	6642	2026/3/19		Pending
49995	ORD-549995	Hoel	Battery Pack	6642	2026/3/19		Pending
49996	ORD-549996	Verdrey	Cable Set	7021	2026/4/20		Delivered
49997	ORD-549997	Acme Corp	Printer Kit	8149	2026/2/21		Shipped
49998	ORD-549998	Clidex	Control Module	2159	2026/4/22		Pending
49999	ORD-549999	Irishch	Display Panel	6028	2026/2/23		Delivered
50000	ORD-549990	Umbrella	Battery Pack	1797	2026/8/24		Shipped
50001	ORD-549991	Slak Industries	Cable Set	2316	2026/2/22		Pending
50002	ORD-549992	Wayne Enterprises	Printer Kit	2323	2026/1/26		Delivered
50003	ORD-549993	Hoel	Control Module	41754	2026/1/27		Shipped
50004	ORD-549994	Verdrey	Display Panel	4063	2026/1/28		Pending
50005	ORD-549995	Acme Corp	Battery Pack	5752	2026/1/11		Delivered
50006	ORD-549996	Clidex	Cable Set	6511	2026/2/2		Shipped
50007	ORD-549997	Umbrella	Printer Kit	2742	2026/2/3		Pending
50008	ORD-549998	Slak Industries	Control Module	81349	2026/4/4		Delivered
50009	ORD-549999	Wayne Enterprises	Display Panel	15488	2026/2/5		Shipped
50010	ORD-549990	Verdrey	Battery Pack	7187	2026/6/6		Pending
50011	ORD-549991	Hoel	Cable Set	15106	2026/7/7		Delivered
50012	ORD-549992	Wayne Enterprises	Printer Kit	2323	2026/6/8		Shipped
50013	ORD-549993	Acme Corp	Control Module	3044	2026/6/9		Pending
50014	ORD-549994	Clidex	Display Panel	23663	2026/1/10		Delivered
50015	ORD-549995	Irishch	Battery Pack	46762	2026/1/11		Shipped
50016	ORD-549996	Umbrella	Cable Set	54701	2026/1/12		Pending
50017	ORD-549997	Slak Industries	Printer Kit	63262	2026/1/13		Delivered
50018	ORD-549998	Wayne Enterprises	Control Module	70209	2026/2/14		Shipped
50019	ORD-549999	Hoel	Display Panel	15488	2026/2/15		Pending
50020	ORD-549990	Verdrey	Battery Pack	86377	2026/4/16		Delivered
50021	ORD-549991	Acme Corp	Cable Set	4296	2026/5/17		Shipped
50022	ORD-549992	Clidex	Printer Kit	32716	2026/6/18		Pending
50023	ORD-549993	Irishch	Control Module	20134	2026/7/19		Delivered
50024	ORD-549994	Umbrella	Display Panel	23663	2026/8/20		Shipped
50025	ORD-549995	Slak Industries	Battery Pack	36972	2026/9/21		Pending

## Delay Load — 1,000,000 Rows PRO

setDataSource() fetches only visible rows on demand — display million-row datasets while keeping a few hundred rows in memory.

```
worksheet.setDataSource({ rowCount: 1_000_000, load })
```

# Advanced Features

	A	B	C	D	E	F	G	H	I	J
1	Region	Category	Sales			Electronics	Furniture	Office	Grand Total	
2	East	Office	65	Region		Sum of Sales	Sum of Sales	Sum of Sales	Sum of Sales	
3	South	Electronics	87	East		273	449	612	1,334	
4	West	Electronics	16	North		153	107	348	608	
5	South	Office	58	South		608	534	430	1,572	
6	West	Furniture	94	West		446	445	279	1,170	
7	South	Office	48	Grand Total		1,486	1,535	1,669	4,684	
8	West	Office	43							
9	West	Electronics	77							
10	South	Furniture	28							
11	South	Electronics	51							
12	West	Electronics	20							
13	North	Office	18							
14	North	Office	34							

## Pivot Tables PRO New in 1.4.0

API-driven live pivot tables — rows, columns, values, and aggregations (sum, count, average, min, max) computed from a source range and rendered into the grid. Recomputes on source edits.

```
worksheet.createPivot({ source, anchor, rows, values })
```

	A	B	C	D	E
1	Product	Region	Quarter	Units	Revenue
2	Banana	West	Q2	17	6,537
3	Elderberry	East	Q3	19	2,024
4	Date	West	Q2	42	4,765
5	Date	West	Q2	70	3,693
6	Apple	North	Q4	13	2,834
7	Apple	North	Q1	43	8,416
8	Elderberry	North	Q4	14	3,361
9	Date	East	Q1	87	1,689
10	Banana	South	Q4	94	6,629
11	Apple	West	Q3	61	3,814
12	Banana	North	Q2	14	6,931
13	Apple	East	Q3	46	5,344
14					
15					

## Table Styles PRO New in 1.4.0

Excel “Format as Table” — built-in banded styles rendered as a live overlay that re-flows on row/column insert & delete. Round-trips real `xl/tables/*.xml`.

```
worksheet.addTable(range, { style: 'TableStyleMedium2' })
```

	A	B	C	D	E	F	G
1	Product	Priority	Qty	Unit Price	Due Date	Code	
2	Apple	List	1-100	> 0	3.50	2026/7/10	< 6 chars
3	Banana	Medium	48	1.20	2026/7/15	B22	
4	Cherry	Low	12	5.80	2026/8/1	C7	
5	Date	High	75	2.40	2026/8/12	D310	
6	Elderberry	Medium	6	9.10	2026/9/3	E9	
7							
8							
9							

## Data Validation PRO New in 1.4.0

Excel-style input rules (入力規則): list dropdowns, whole/decimal/date/time and text-length bounds, and custom formulas — with stop / warning / information alerts. Pro-authored rules still enforce in Lite.

```
range.setValidation({ type: 'list', options: [...] })
```

# Advanced Features

The screenshot shows a spreadsheet with columns A through E. The title is "請求書 / Invoice". It contains a table with 4 rows of item data and summary rows at the bottom.

No	品名	数量	単価	金額
1	Webサイト制作	1	350,000	350,000
2	保守サポート(月額)	12	30,000	360,000
3	ドメイン取得	2	5,000	10,000
4	デザイン費	3	45,000	135,000
			小計	855,000
			合計(税込)	940,500

## Report Binding PRO New in 1.4.0

Template-driven detail repetition (テンプレート明細繰り返し): header / detail( $\times N$ ) / footer sections materialize in place from bound data with `{{token}}` interpolation, per-row formula shift, footer aggregates, and report-driven page breaks.

```
worksheet.defineReportTemplate(spec); worksheet.bindReport(data)
```

The screenshot shows a spreadsheet with columns A through E. It contains a table with 5 rows of item data. Red corner markers are visible in the first four rows, indicating cell comments.

Item	Qty	Unit Price	Amount
Notebook	3	480	1,440
Ballpoint pen	12	110	1,320
Sticky notes	5	260	1,300
Highlighter	8	150	1,200

## Cell Comments PRO New in 1.4.0

Classic Excel comments / memos ( $\times \text{円}$ ) — one per cell, shown with a red corner marker and a hover bubble. `xlsx` read, `JSON` round-trip.

```
worksheet.setComment(r, c, 'Check this value')
```

## Cell Protection LITE

Sheet protection with per-cell locking — keep templates intact while users edit input cells.

## Images PRO

Insert and position images over the grid — logos on invoices, product photos in catalogs.

# Data I/O

Move data in and out: Excel files, lossless JSON, clipboard, and printing.

## XLSX Import LITE

Load Excel files from a URL, File object, or ArrayBuffer — all sheets, styles, merges, borders, and formulas. Chunked async loading for big files.

```
instance.loadFromUrl('/data/report.xlsx')
```

## Page Layout & Printing PRO New in 1.4.0

Excel-style page-break preview with draggable breaks, a print-settings model (paper size, orientation, margins, scale, page order), manual breaks, and a printable range. Round-trips via `xlsx` `pageSetup` and JSON.

```
worksheet.setPrintSettings({ paperSize: 'A4' })
```

## XLSX Export PRO

Save the whole workbook as an `.xlsx` file — multi-sheet, styles, formulas, borders, and conditional formats round-trip to Excel.

```
instance.saveAsXlsx('report.xlsx')
```

## ReoGrid JSON LITE

Native lossless serialization — preserves cells, styles, number formats, merges, borders, freeze, conditional formats, outlines, filters, cell types, and protection.

```
instance.toJson() / instance.loadJson(json)
```

# Data I/O

---

## Clipboard LITE

Copy, cut, and paste with the OS clipboard in TSV and HTML formats — interoperable with Excel and Google Sheets.

---

## PDF Export PRO New in 1.4.0

PDF generation via our own in-house engine — paginates exactly like the on-screen page-break preview, with backgrounds, borders, images, and rich text. `instance.exportPdf()` / `saveAsPdf()`.

```
instance.saveAsPdf({ font })
```

---

## Browser Printing PRO

Convert worksheets to styled HTML tables for browser printing, preserving merges and borders. For paginated output, see PDF Export and Page Layout.

```
worksheet.printAsHTML()
```

---

# UI Features

Polished editing UX out of the box: inline editor, undo/redo, shortcuts, and animation.



	A	B	C	D	E	F
1	Customer	Plan	Seats	MRR	Renewal	Owner
2	Acme Corp	Enterprise	20	\$2,743	2020/1/1	Tanaka
3	Globex	Business	425	\$8,071	2020/2/4	Suzuki
4	Intech	Starter	47	\$7,361	2020/3/7	Sato
5	Umbrella	Enterprise	403	\$5,636	2020/4/10	Watanabe
6	Stark Industries	Business	283	\$8,952	2020/5/13	Ito
7	Wayne Enterprises	Starter	269	\$8,205	2020/6/16	Tanaka
8	Hood	Enterprise	80	\$8,083	2020/7/19	Suzuki
9	Vandelay	Business	455	\$546	2020/8/22	Sato
10	Wonka Industries	Starter	216	\$1,743	2020/9/25	Watanabe
11	Tyrell Corp	Enterprise	268	\$1,795	2020/10/1	Ito
12	Cyberdyne	Business	66	\$6,913	2020/11/4	Tanaka
13	Soylent Corp	Starter	26	\$8,265	2020/12/7	Suzuki
14	Massive Dynamic	Enterprise	204	\$9,598	2020/1/10	Sato
15	PhoD Piper	Business	290	\$1,607	2020/2/13	Watanabe
16	Aviabo	Starter	54	\$9,242	2020/3/16	Ito
17	Dunder Mifflin	Enterprise	248	\$9,594	2020/4/19	Tanaka
18	Prestige Worldwide	Business	241	\$8,165	2020/5/22	Suzuki
19	Bluth Company	Starter	266	\$6,009	2020/6/25	Sato

## Alternating Row Colors LITE

Built-in background striping for even/odd rows — readable tables without per-cell styling.

## Cell Editor LITE

Inline WYSIWYG text editing via double-click, F2, or Enter — the editor mirrors the cell’s font, line height, and alignment.

## Undo / Redo LITE

Action-based undo and redo (30 steps by default, configurable via `undoCapacity`), isolated per sheet.

`Ctrl+Z / Ctrl+Y`

## Keyboard Shortcuts LITE

`Ctrl+Z/Y`, `Ctrl+C/V/X`, Tab, Enter, arrow-key navigation, and more.

## Context Menu LITE

A right-click event API for building custom context menus that match your application.

`instance.onContextMenu(handler)`

## Grid Lines & Appearance LITE

Toggle grid line visibility per sheet — useful for document-style layouts like invoices.

# UI Features

---

## Cell Tooltip PRO

Contextual tooltips on hover — ideal for validation messages and inline help.

```
worksheet.setCellTooltip(r, c, text)
```

---

## Animation PRO

Smooth animation on cell value changes, with configurable duration and easing.

```
createReogrid({ animation: true })
```

---

# Edition Comparison

	Lite (Free)	Pro (Paid)
Rows	Up to 100 rows	Unlimited
Columns	Up to 26 columns (A-Z)	Unlimited
Formulas	Arithmetic only	All 109 functions
Multi-Sheet Workbook	✓	✓
Cross-Sheet Formulas	✓	✓
Cell Styles	✓	✓
Number Formatting	✓	✓
Borders	✓	✓
Cell Merging	✓	✓
Auto-fill	✓	✓
Smart Formula Editor	✓	✓
Freeze Panes	—	✓
XLSX Import	✓	✓
XLSX Export	—	✓
ReoGrid JSON I/O	✓	✓
Cell Types	—	✓
Row/Column Insert & Delete	—	✓

	Lite (Free)	Pro (Paid)
Row/Column Show & Hide	—	✓
Sort & Filter	—	✓
Delay Load (1,000,000 rows)	—	✓
Grouping	—	✓
Conditional Formatting	—	✓
Cell Tooltip	—	✓
Animation	—	✓
Images	—	✓
Named Ranges	Read only	✓
Data Validation	Read only	✓
Pivot Tables	—	✓
Table Styles	Read only	✓
Report Binding	—	✓
Cell Comments	Read only	✓
Page Layout & Print Settings	—	✓
PDF Export	—	✓
Browser Printing	—	✓

## Framework Support

Framework	Package	Component
React ≥17	@reogrid/lite/react or @reogrid/pro/react	<Reogrid> (forwardRef)
Vue ≥3	@reogrid/lite/vue or @reogrid/pro/vue	<Reogrid> (Composition API)
Vanilla JS/TS	@reogrid/lite or @reogrid/pro	createReogrid()

# ReoGrid Web

Get started today

Live demos & docs: <https://web.reogrid.net>

Free trial & licensing: <https://reogrid.net>

npm: @reogrid/lite · @reogrid/pro