

Improvements on Calc tab area and grouping

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Grouping

What is grouping?

- group rows or columns of data together
- collapse/expand the view of the data
- easier to work with and analyze large datasets
- focuses on specific sections
- useful when working with hierarchical or nested data structures.



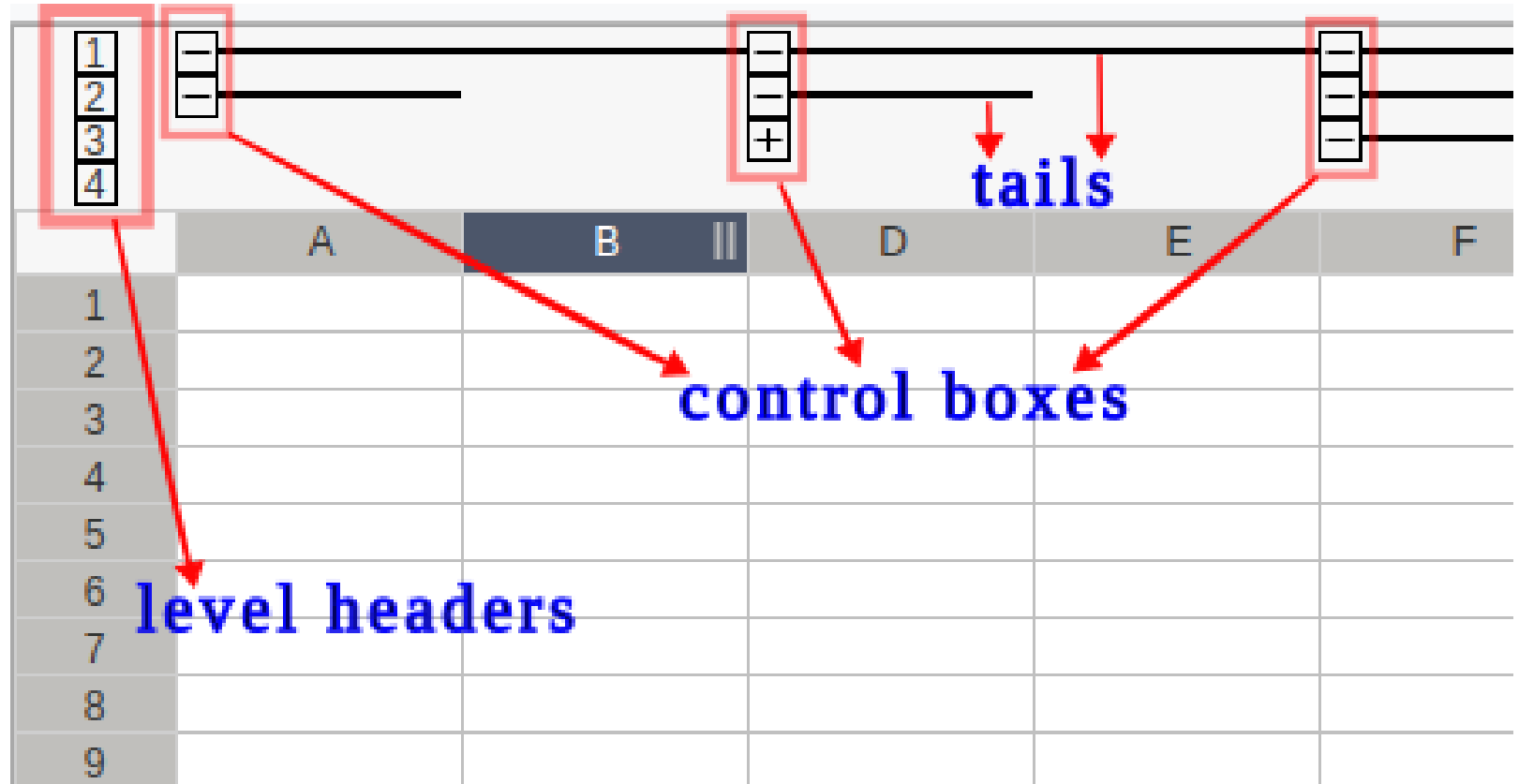
Grouping

1 2		A	B
	1	Hello world	
	2		
	3		
	4		
	5	Row 5	
-	6	Item #1	
	7	Item #2	
	8	Item #3	
	9	Item #4	
	10	Row 10	
	11		
	12		
	13		

1 2		A	B
	1	Hello world	
	2		
	3		
	4		
	5	Row 5	
+	10	Row 10	
	11		
	12		
	13		
	14		
	15		
	16		
	17		



Grouping terms





Grouping terms

File Home Insert Layout **Data** Review Format View Help

Sort $\begin{matrix} A \\ Z \end{matrix}$ ↓ Sort Ascending $\begin{matrix} Z \\ A \end{matrix}$ ↓ Sort Descending AutoFilter Standard Filter Hide AutoFilter Reset Filter **Group**

index 0 = index 1 index 2

level 0 level 1

index 0 index 1

	A	B	C	D	E	F	G
1							
2							



Grouping terms

55 Issues: 50 1 4

Control.ColumnGroup.ts:106
{level: 0, index: 0, startPos: 0, endPos: 170, hidden: false}

Control.ColumnGroup.ts:106
{level: 0, index: 1, startPos: 170, endPos: 340, hidden: false}

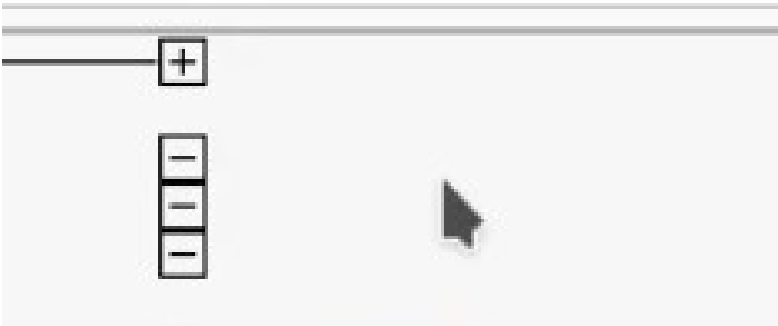
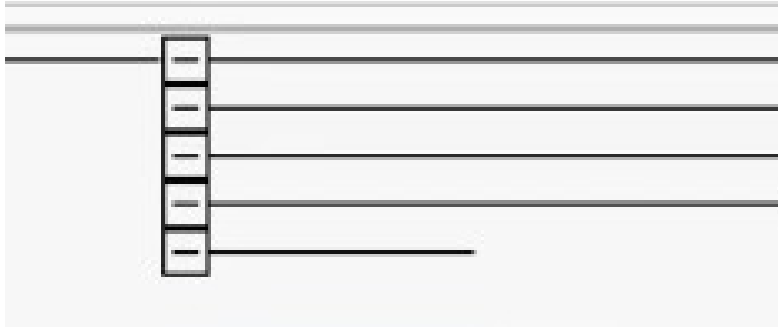
Control.ColumnGroup.ts:106
{level: 0, index: 2, startPos: 340, endPos: 510, hidden: false}

Control.ColumnGroup.ts:106
{level: 1, index: 0, startPos: 340, endPos: 425, hidden: false}

Control.ColumnGroup.ts:106
{level: 1, index: 1, startPos: 425, endPos: 510, hidden: false}



Problems

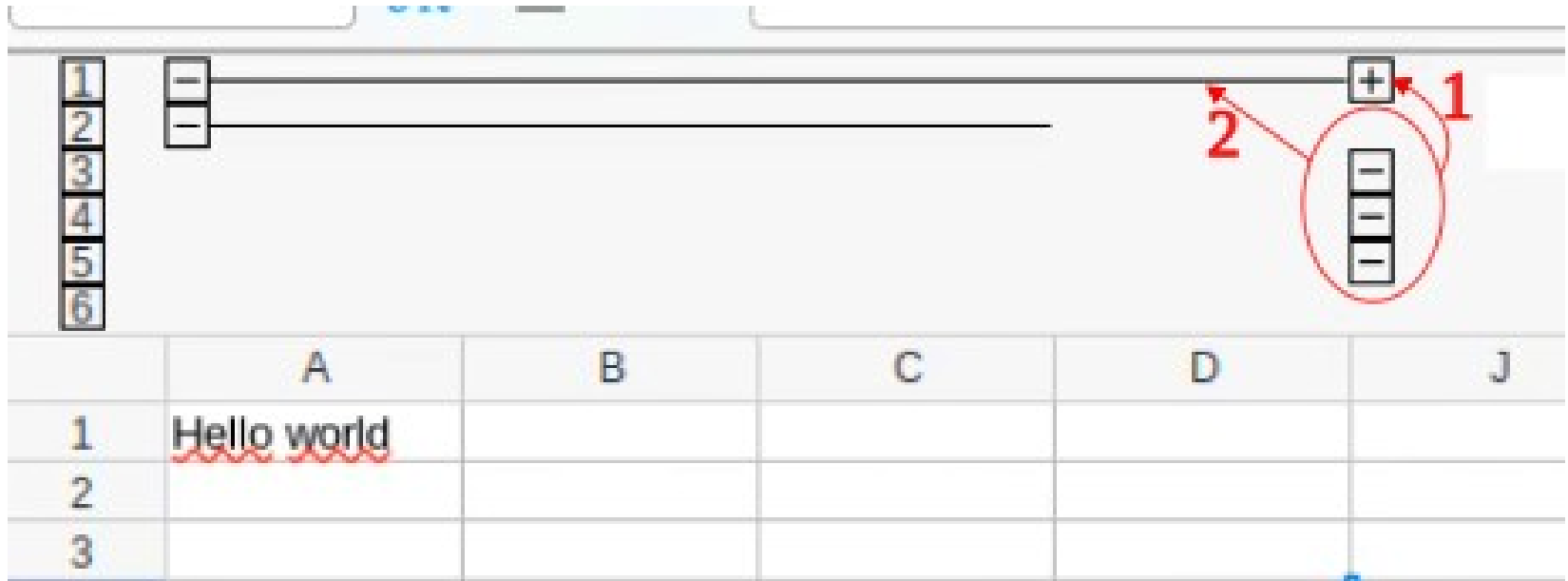


Collapse a parent group

- **Expected:** all sub-groups should be hidden
- **Actual:** some sub-groups are still visible
- **Problems:**
 - some groups are created but not drawn (they are invisible)
 - some parent groups do not hide their sub-groups
- **Root of the issues:** some groups are not being able to find their correct parent groups



Problems



- #1: parent that sub-groups should be pointing to
- #2: what actually happens



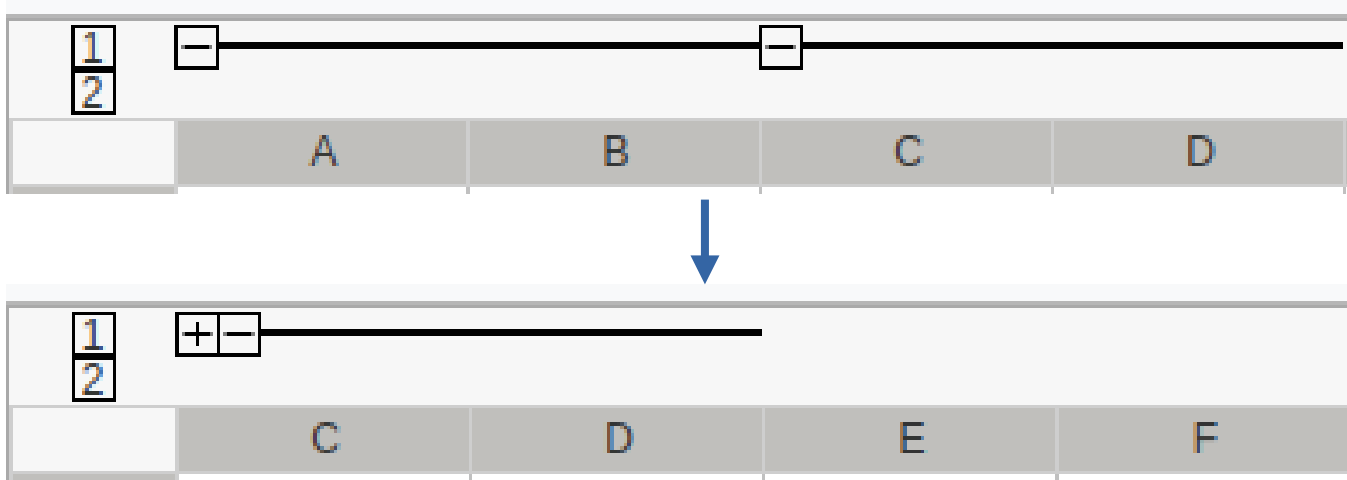
Solution

	A	B	C	D	J
1	Hello world				
2					
3					

- Don't use indexes
 - remove the index-based search of parent groups
- Implement startPos and endPos based search
- Also fixed various issues around grouping
 - not visible but still clickable control boxes



Overlapping



- Continuous groups
- If previous one collapses, overlap occurs
- Fixed by adjusting startPos of the control boxes
 - `startPos = prevGroupEntry.endPos + this._groupHeadSize;`

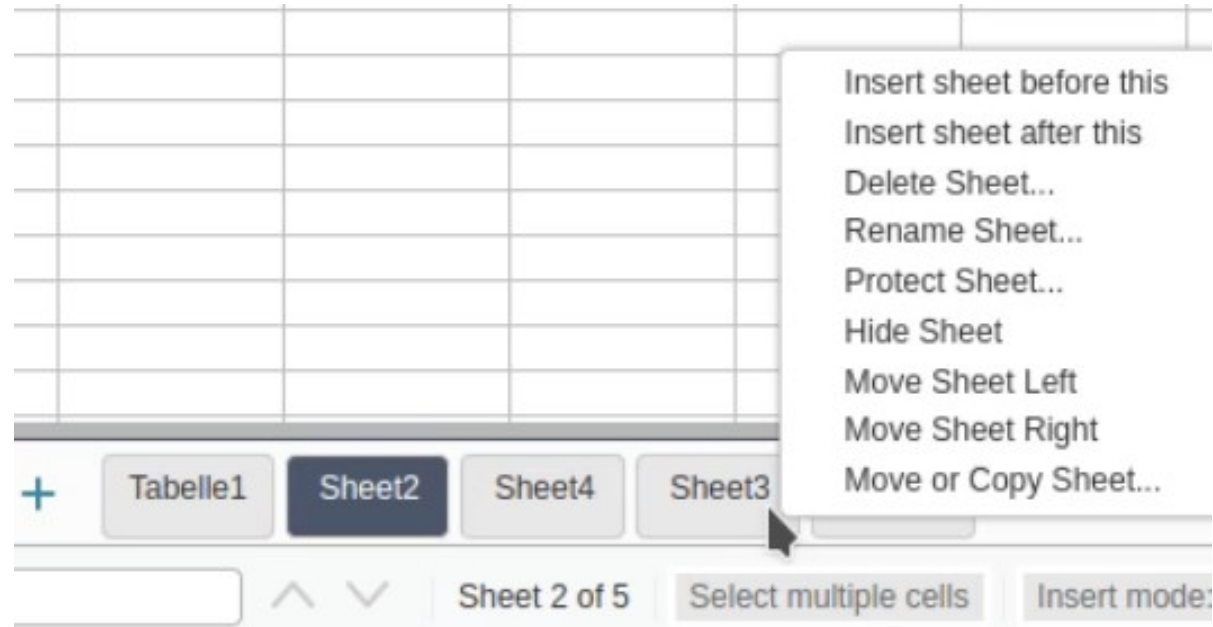
Calc: tab area



- Drag & drop
 - Added drop zone indicator
 - Now it is easy to see where the tab will drop while dragging



Calc: tab area



- Context menu
 - Trying to open context menu from a sheet tab, was also change the active tab.
 - Don't change the active tab.
 - Make context menu available for inactive tabs too.



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Thank you!

By Bayram Çiçek



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