Improvements on Calc tab area and grouping

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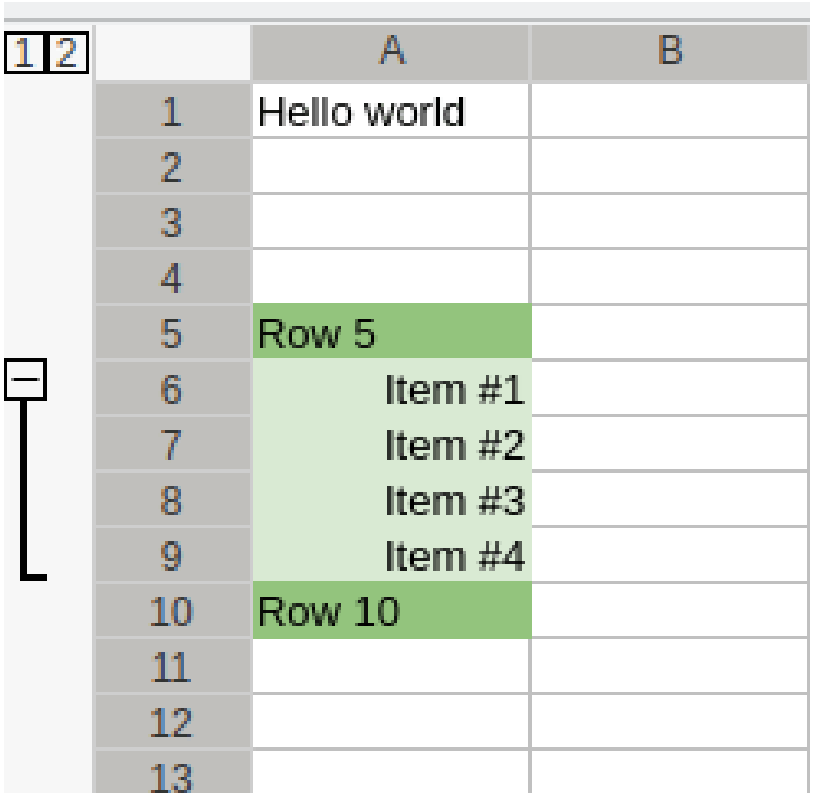
Grouping

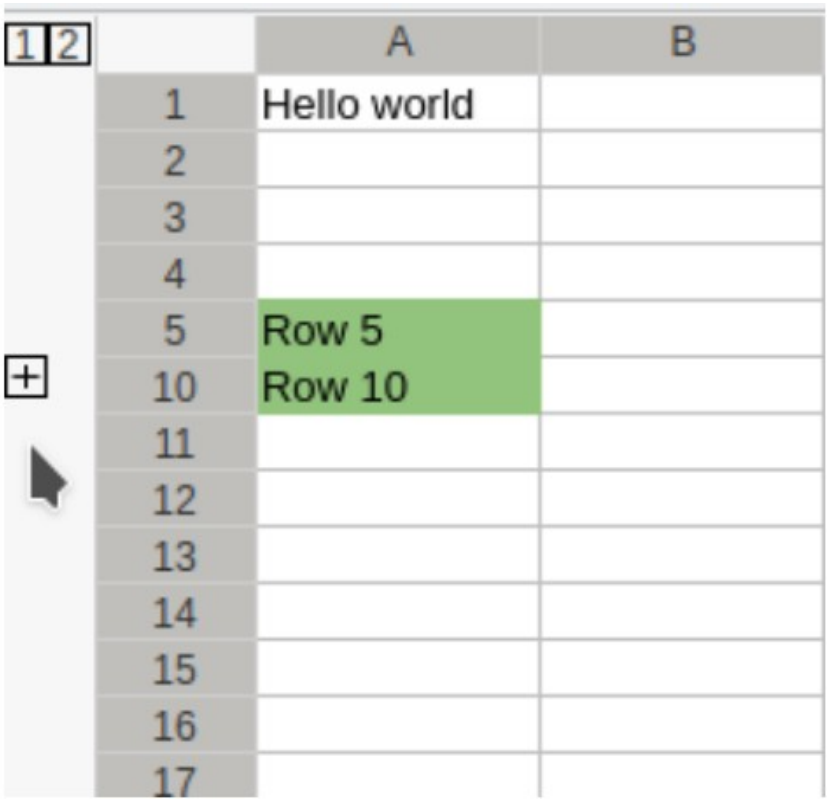
What is grouping?

- 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

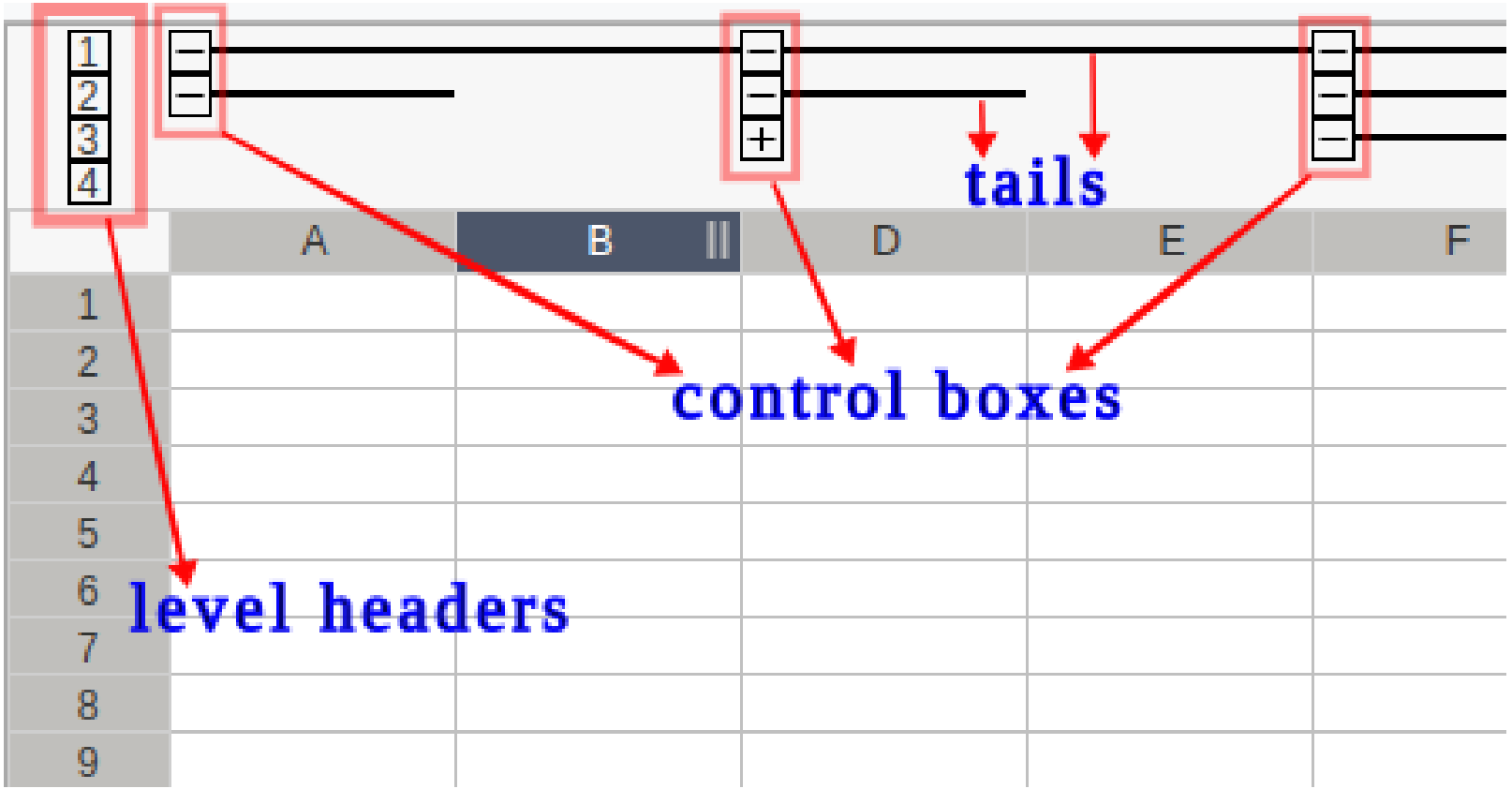


		A	B
1 2	1	Hello world	
	2		
	3		
	4		
	5	Row 5	
−	6	Item #1	
	7	Item #2	
	8	Item #3	
	9	Item #4	
	10	Row 10	
	11		
	12		
	13		

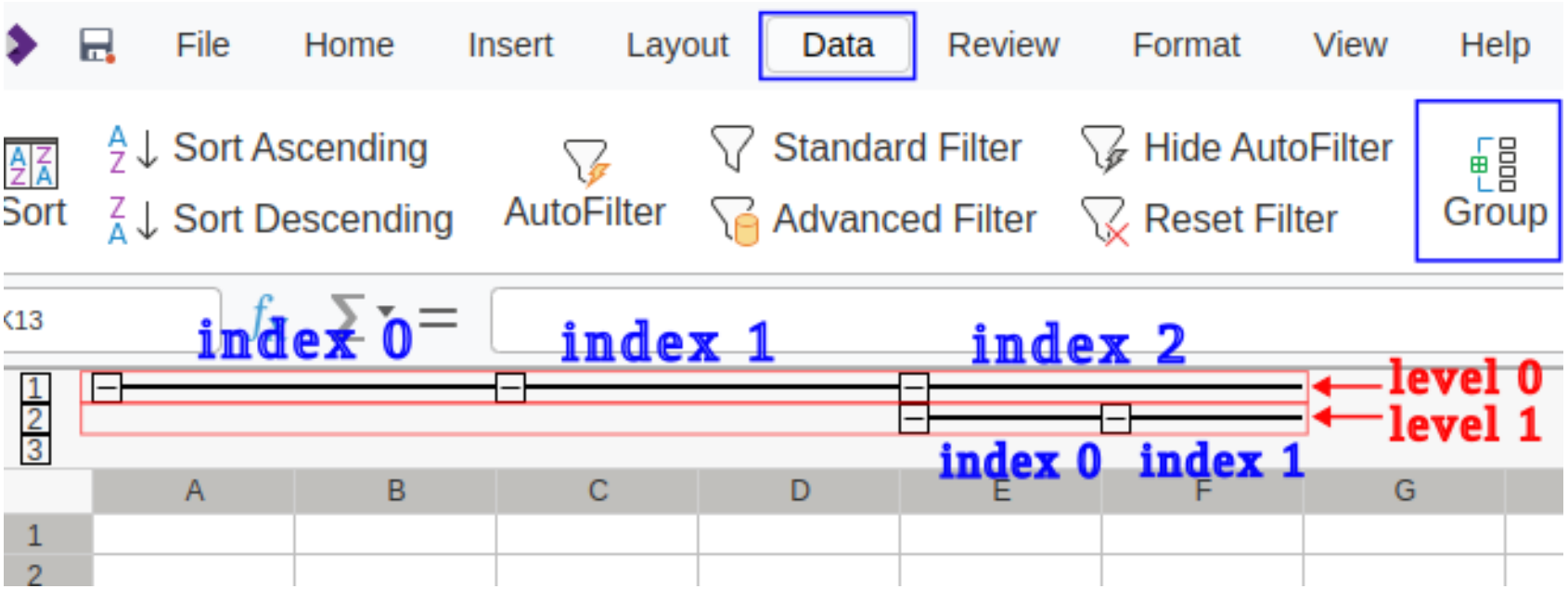


		A	B
1 2	1	Hello world	
	2		
	3		
	4		
	5	Row 5	
+	10	Row 10	
	11		
	12		
	13		
	14		
	15		
	16		
	17		

Grouping terms



Grouping terms



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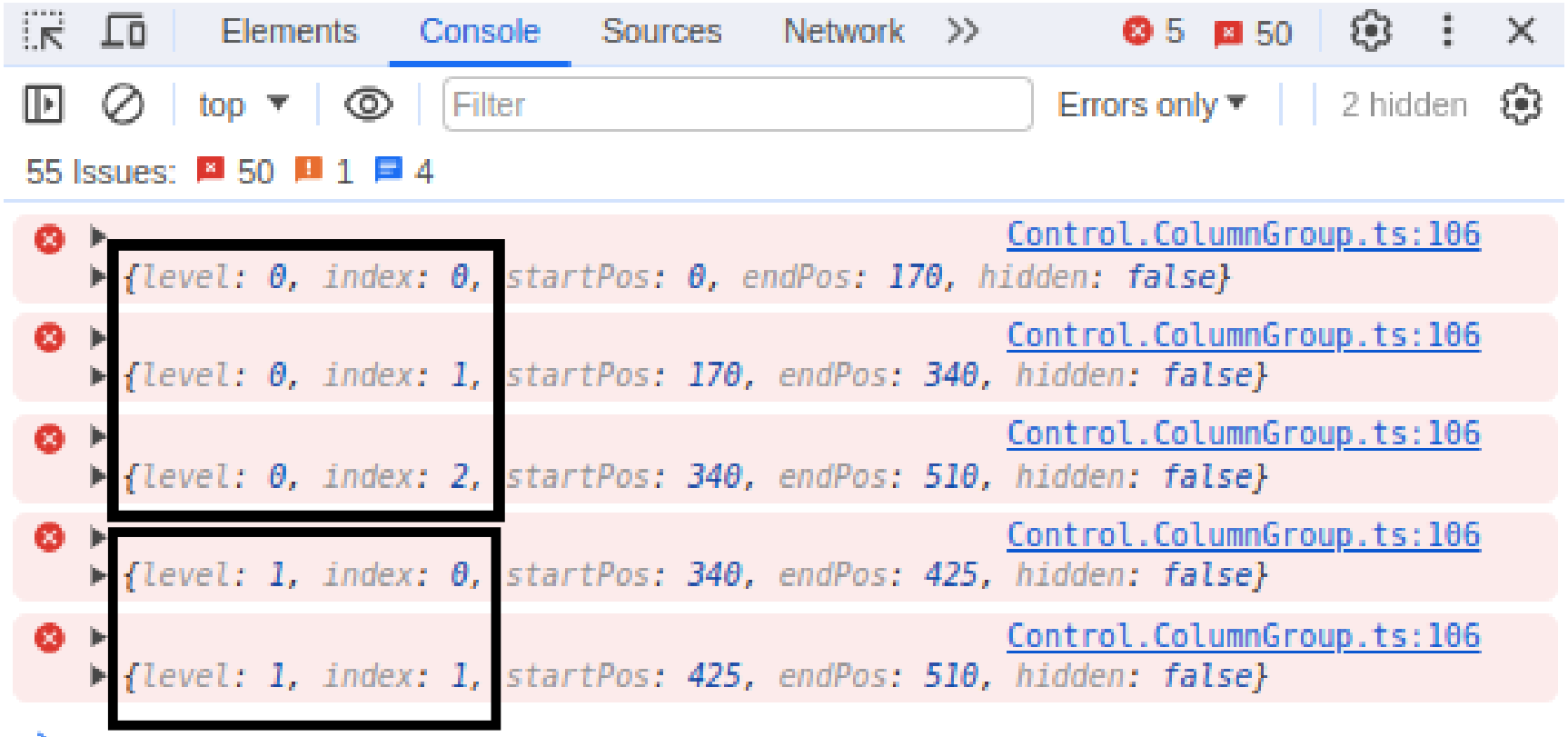
Grouping terms



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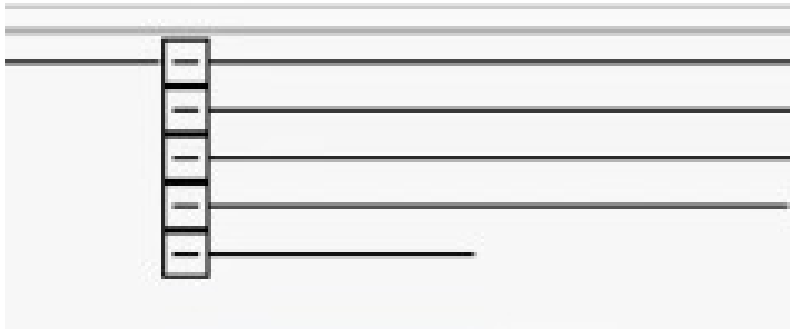
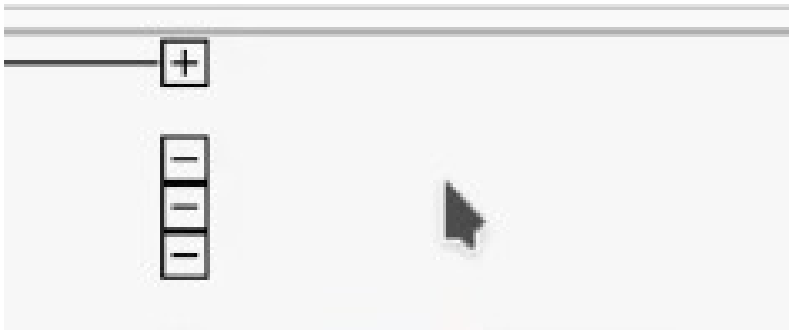
Problems

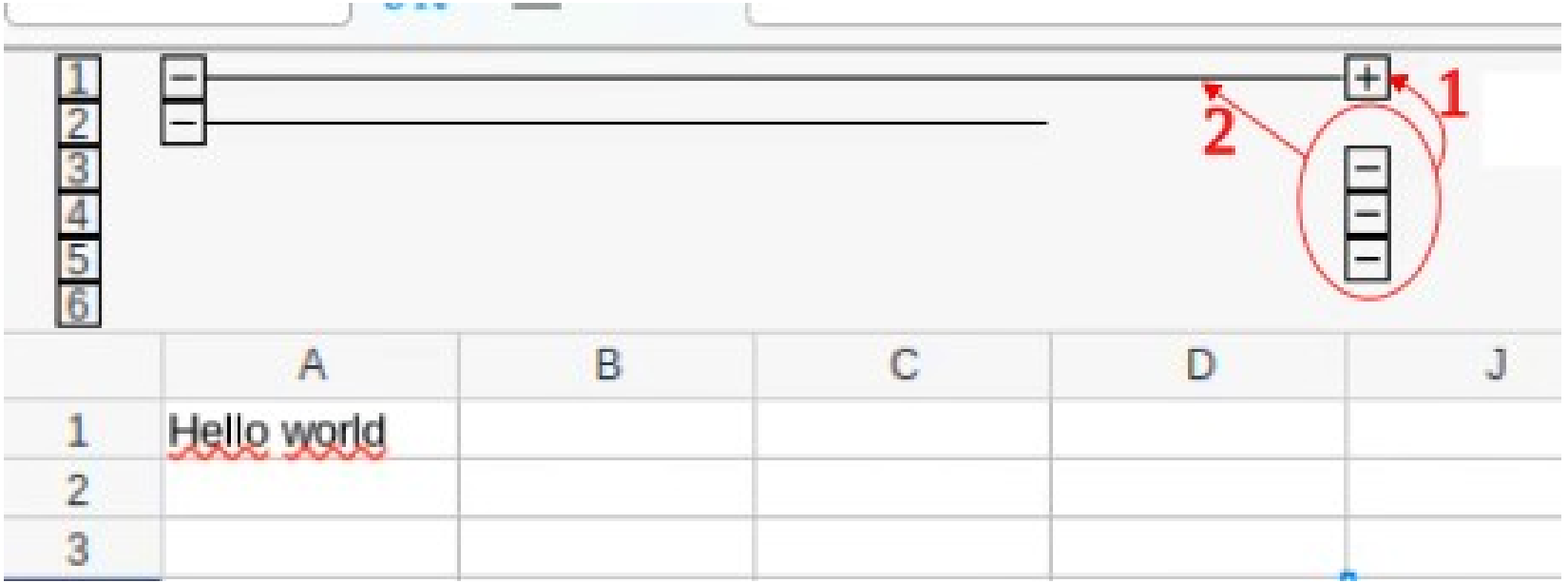




Collapse a parent group

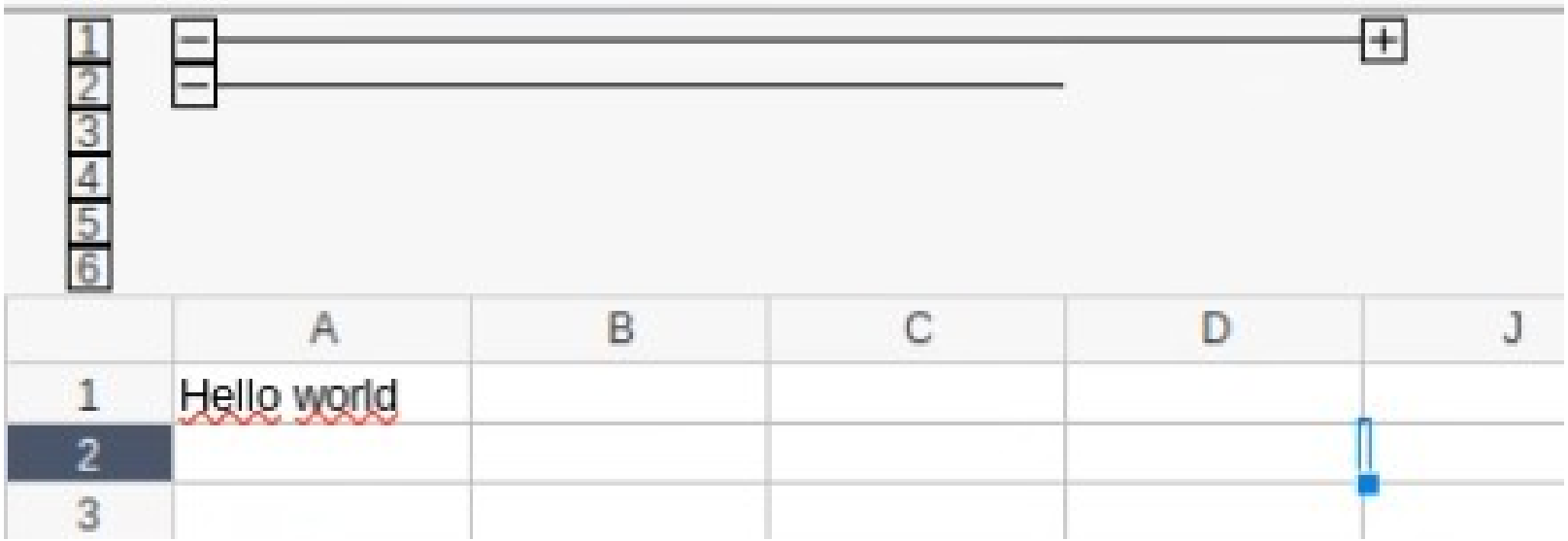
- **Expected**: all sub-groups should be hidden
- **Actual**: some sub-groups are still visible
- **Problems**:
  - some groups are created but not drawn (they are invisible)
  - some parent groups do not hide their sub-groups
- **Root of the issues**: some groups are not being able to find their correct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

Problems



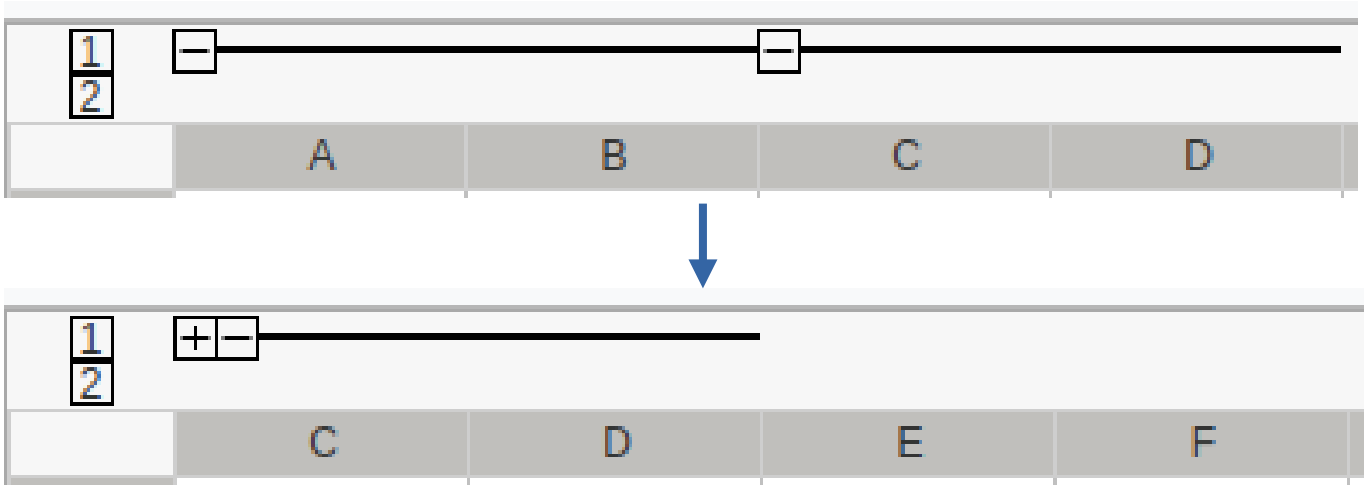
- **#1:** parent that sub-groups should be pointing to
- **#2:** what actually happens

Solution



- 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

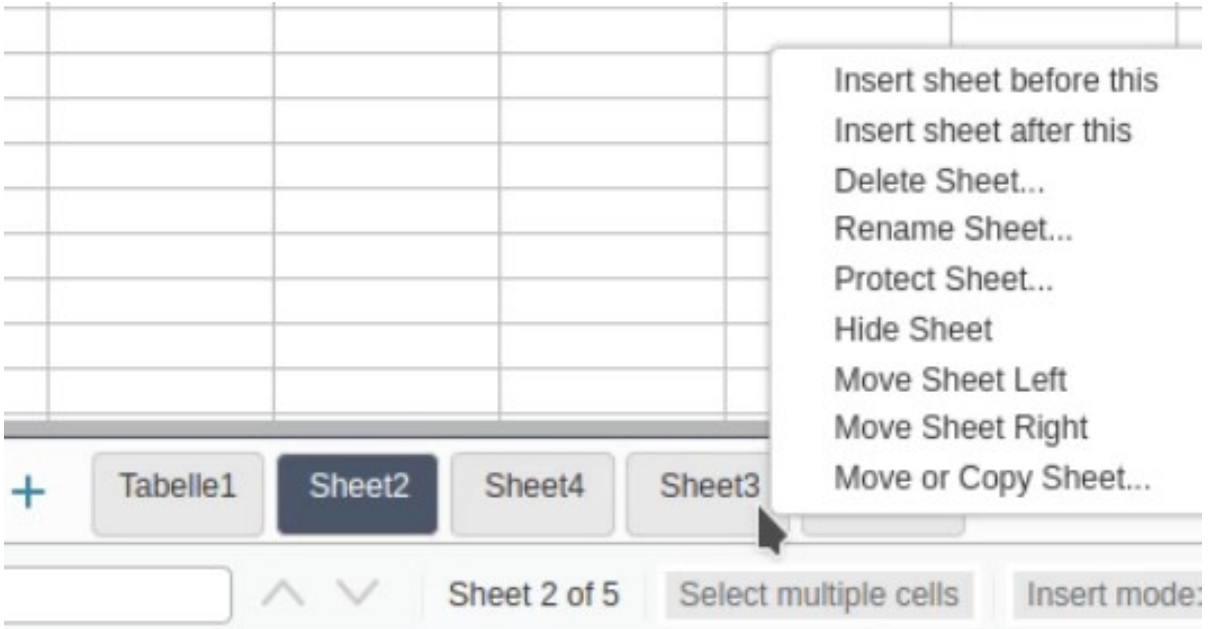


- Continuous groups
- If previous one collapses, overlap occurs
- Fixed by adjusting startPos of the control boxes
  - startPos = prevGroupEntry.endPos + this._groupHeadSize;

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.

Thank you!

By Bayram Çiçek

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