

Reworking copy and paste

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Online

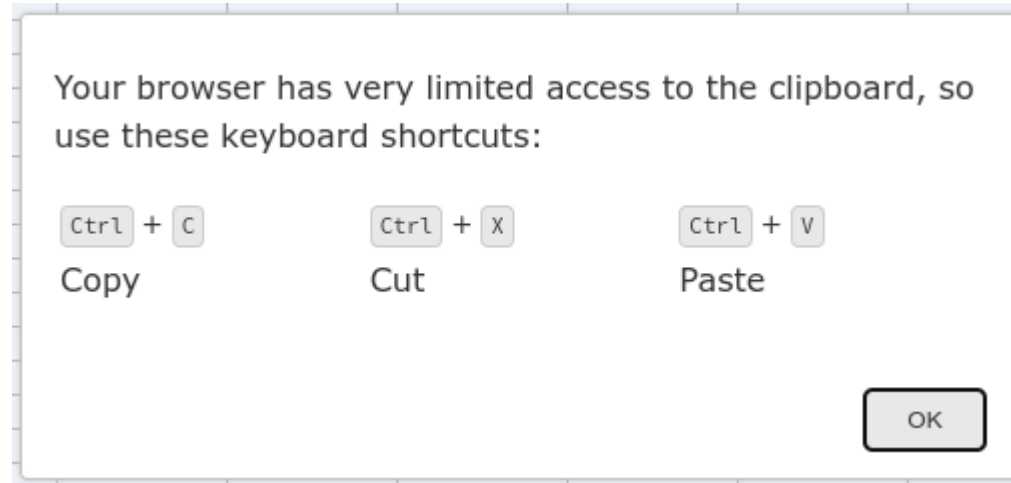


Technical Day
COOL
days





Motivation



- Old behaviour: pressing the paste button on the toolbar triggers a pop-up
 - Doing the same with the keyboard works
- Because browsers say writing to the clipboard outside a security context is not OK

Meet the new Clipboard API (Chrome)

Not secure https://localhost:9980/browser/85d08b7534/debug.html?file_path=/home/vmiklos/git/libreoffice/bugs/t46612/test.ods

openSUSE Chromium Imported

File Home Insert Layout Data Review Format Draw View Help test.ods

Position and Size Flip Vertically Flip Horizontally Group Enter Group Exit Group Text Box Shapes Line Fontwork Vertical Text

c2 fx Σ =

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31

A B C D E F G H I J K L M N O P Q

Clipboard read access allowed

This site can see text and images copied to the clipboard.

☒ Continue allowing this site to see the clipboard

☐ Always block https://localhost:9980 from seeing the clipboard

Manage Done

Brightness: 0

Contrast: 0

Transparency: 0

Line

Line: [dropdown]

Thickness: [dropdown]

Color: [color picker]

Transparency: 0

Corner style: Rounded

Cap style: Flat

> Position and Size

> Columns



Calc HTML paste, new metadata

The screenshot displays the LibreOffice Calc application window. The main window title is "COOL test". The menu bar includes File, Edit, View, Insert, Format, Data, Tools, Extensions, and Help. The toolbar shows various icons for file operations, editing, and formatting. The spreadsheet has columns A through G and rows 1 through 6. The data in the spreadsheet is as follows:

	A	B	C	D	E	F	G
1	1	01					
2							
3	TRUE	FALSE					
4							
5	1,000.00	2,000.00					
6							

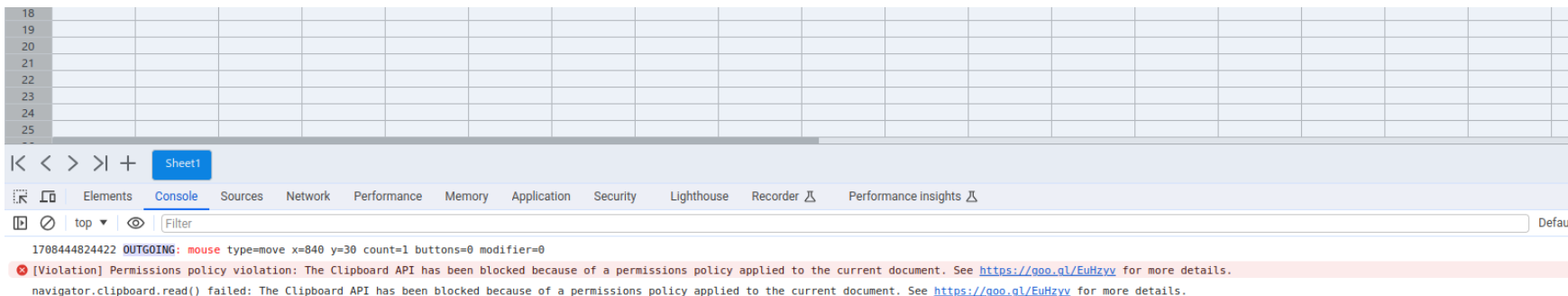
Below the main window, a smaller window titled "Untitled 1 — LibreOfficeDev Calc 24.8 [6572a4bf5a13df82d57740d67166eccddb514025]" is visible. It shows a similar spreadsheet with columns A through I and rows 1 through 2. The data in this window is:

	A	B	C	D	E	F	G	H	I
1	1,000.00	2,000.00							
2									

The status bar at the bottom of the main window shows "A5:B5" selected, a formula bar with "1000", and a summary bar with "Average: 1,500.00; Sum: 3,000.00".

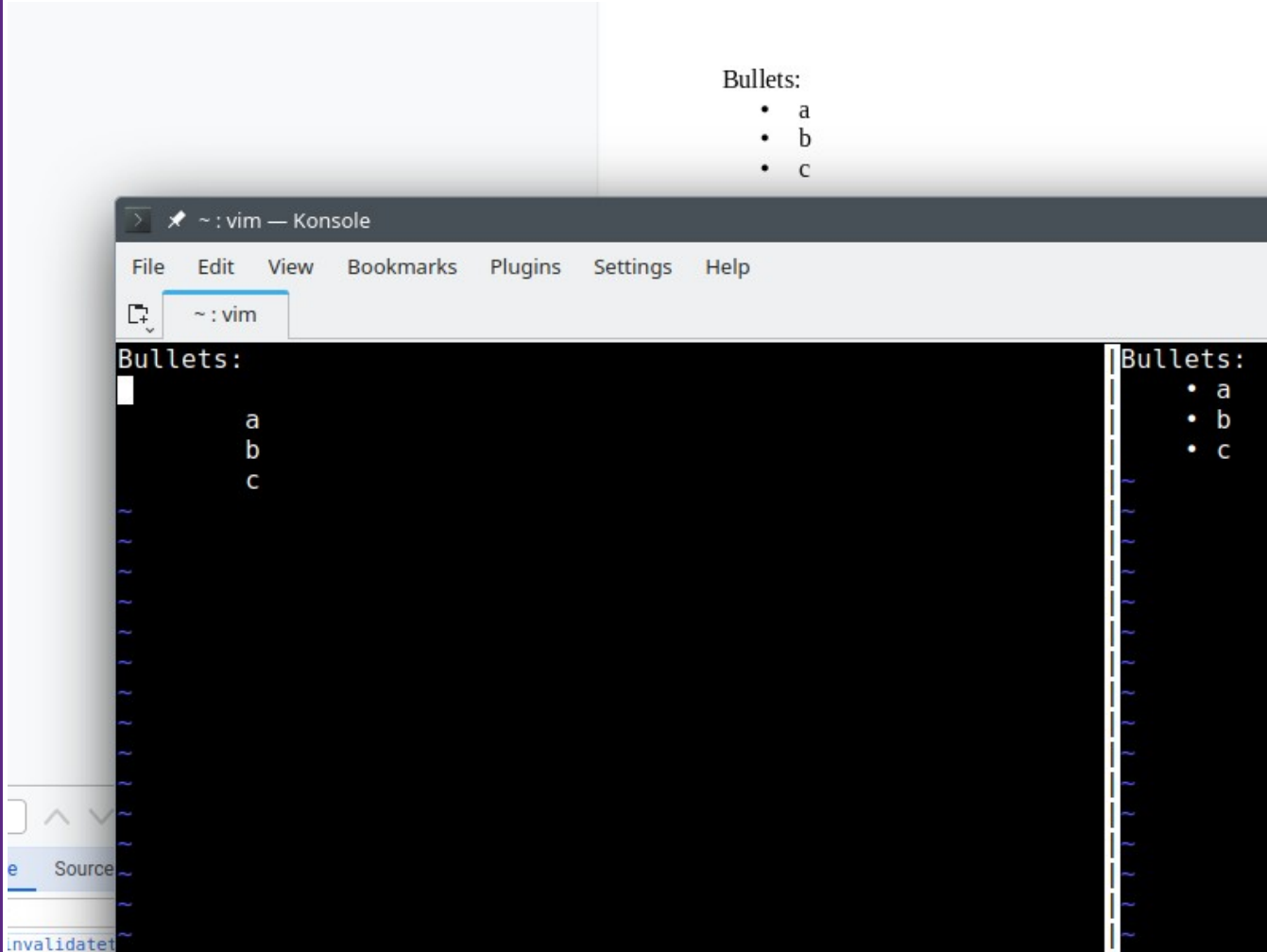


Security: cross-origin <iframe> (Chrome)



- Chrome requires that in case JS code inside a cross-origin iframe wants to use the clipboard, you have to opt in explicitly
- See https://sdk.collaboraonline.com/docs/advanced_integration.html#allow-the-clipboard-permission-query
- In short, your integration should do: `<iframe allow="clipboard-read *; clipboard-write *"/>`

Better plain text handling



- Old state on the left hand side
- New state on the right hand side



Summary

- COOL 24.04 improvements for all browsers:
 - Calc copy&paste is now greatly improved, preserving lots of metadata
 - Handling of plain text is now much better
- Improvements for Chrome (no Firefox yet):
 - You can paste content with your mouse just fine now
 - Integrations has to allow the new clipboard code to run
 - One-step copy for complex content is planned, stay tuned