



Nextcloud

What's new in Collabora Online?

Michael Meeks - CEO Collabora Productivity

Lots of work over the past year:

1. Usability
2. New features
3. Interoperability
4. Performance

1. Usability

1. Usability

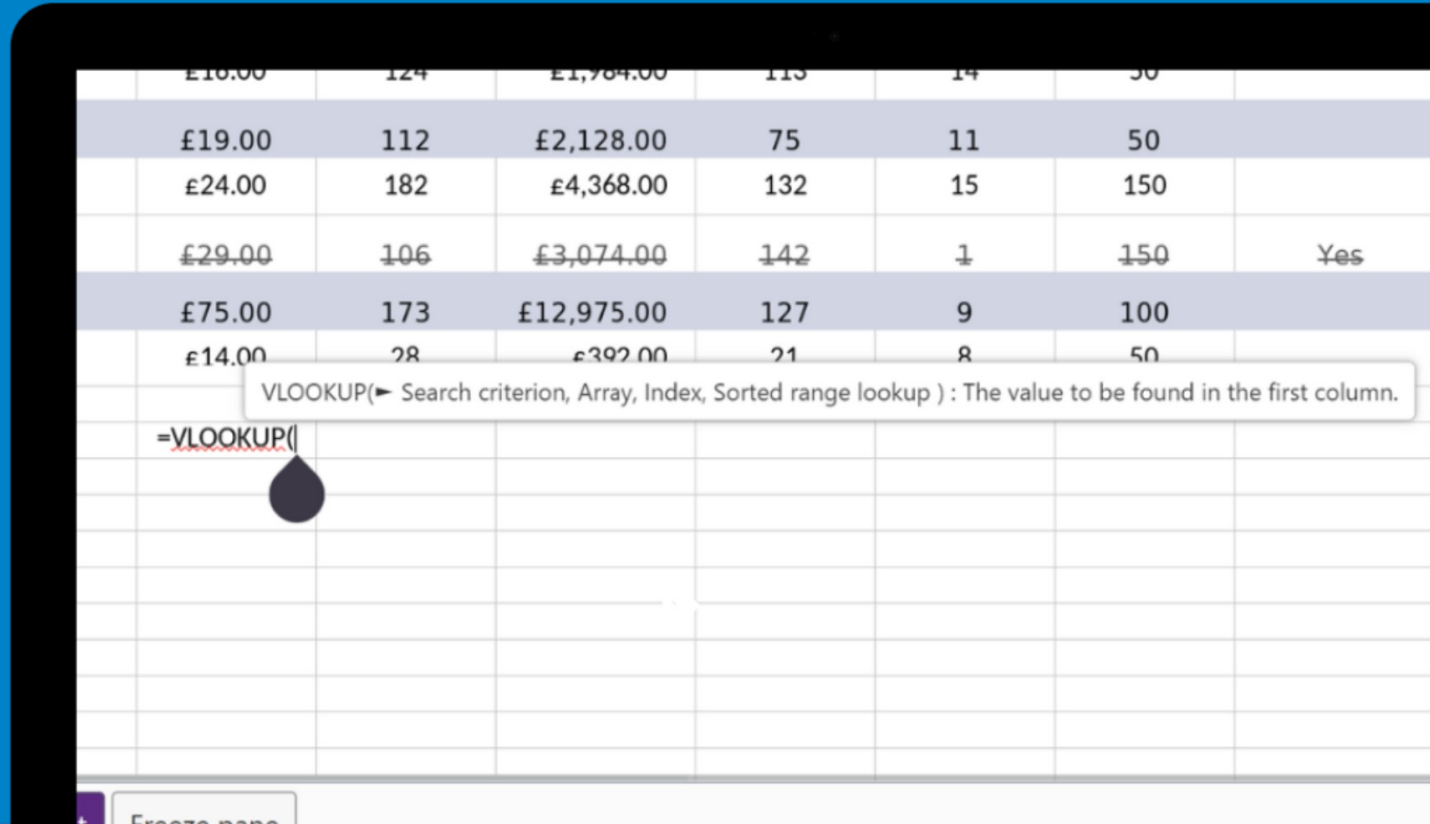
- 2. New features
- 3. Interoperability
- 4. Performance

Contextual tooltips

- Start to type a formula and a list of available formulas appear

1. Usability

2. New features
3. Interoperability
4. Performance



The screenshot shows a spreadsheet with a table of data. The table has columns for price (e.g., £16.00, £19.00, £24.00, £29.00, £75.00, £14.00), quantity (e.g., 124, 112, 182, 106, 173, 28), total price (e.g., £1,784.00, £2,128.00, £4,368.00, £3,074.00, £12,975.00, £392.00), and other numerical values (e.g., 113, 14, 50, 75, 11, 15, 150, 142, 9, 100, 21, 8, 50). A tooltip is displayed over the cell containing the formula `=VLOOKUP()`. The tooltip text reads: "VLOOKUP(Search criterion, Array, Index, Sorted range lookup) : The value to be found in the first column." A dark blue cursor is positioned over the opening parenthesis of the formula.

£16.00	124	£1,784.00	113	14	50	
£19.00	112	£2,128.00	75	11	50	
£24.00	182	£4,368.00	132	15	150	
£29.00	106	£3,074.00	142	1	150	Yes
£75.00	173	£12,975.00	127	9	100	
£14.00	28	£392.00	21	8	50	

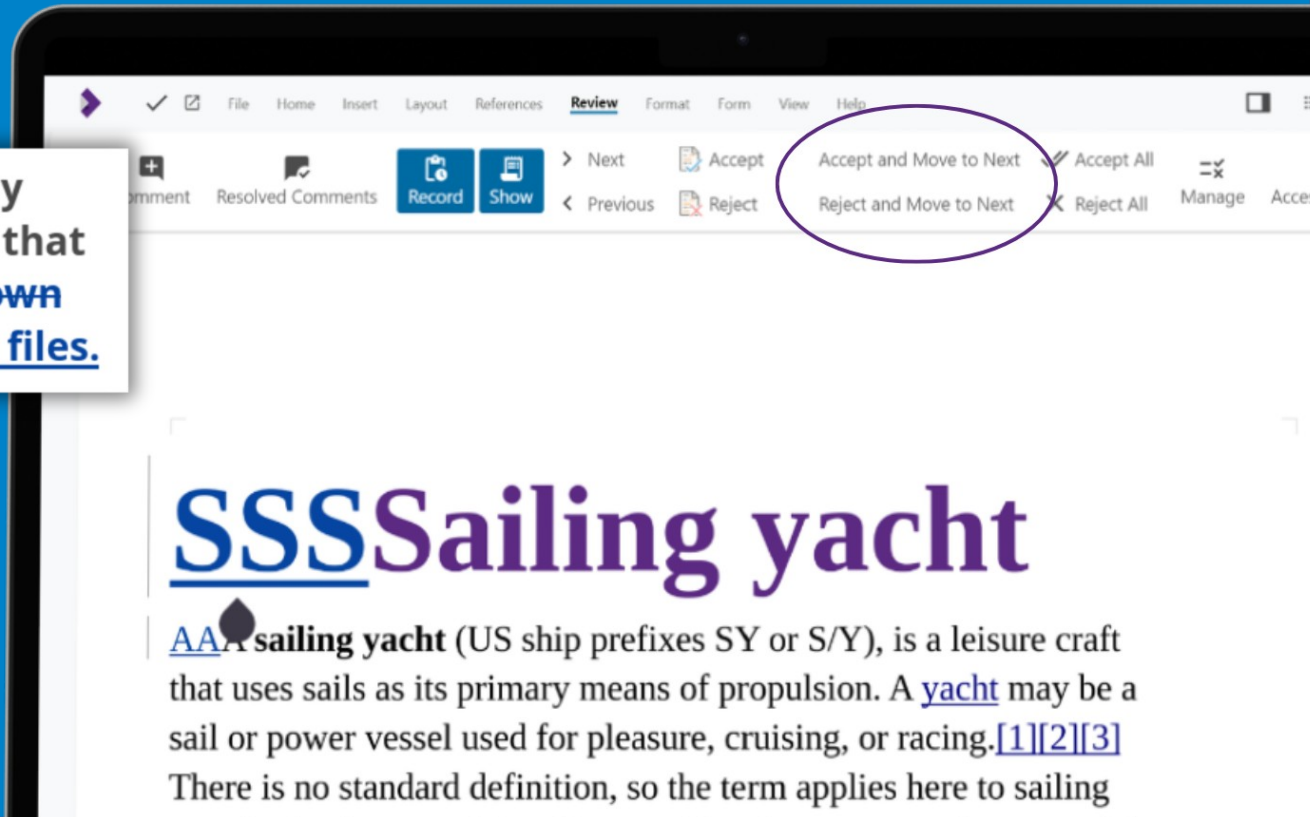
Better Tracked Change Processing

Collabora Online: the enterprise-ready Office Suite that allows you to stay in control of your own documents. full control of your office files.

Deleted: Alan - 04/27/2017 17:11:07

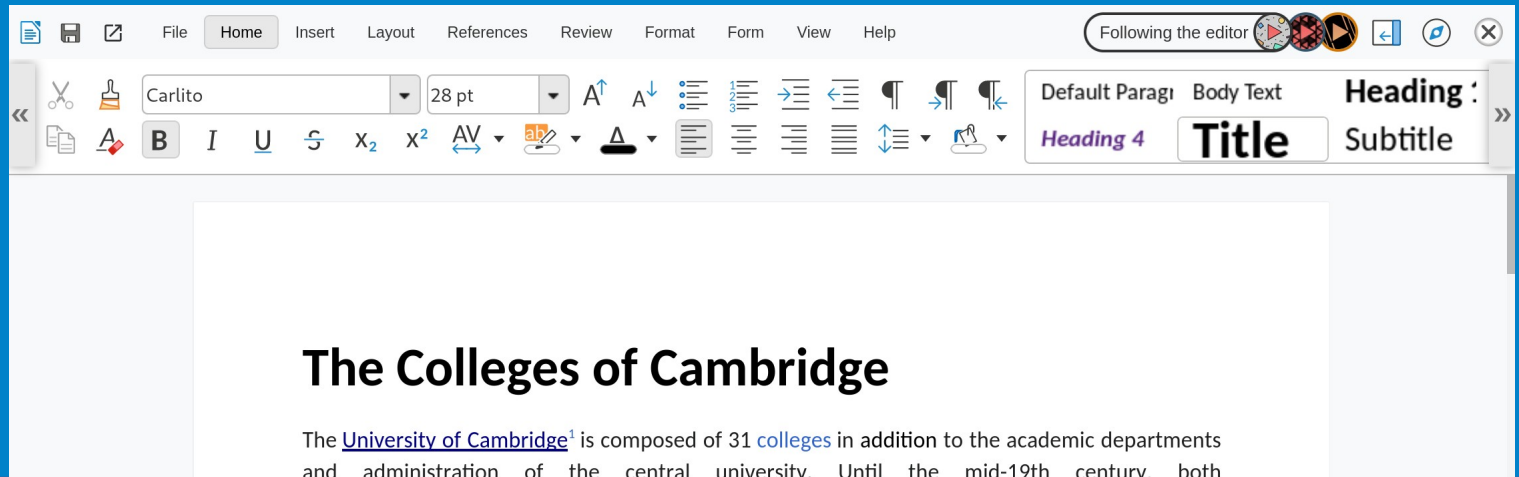
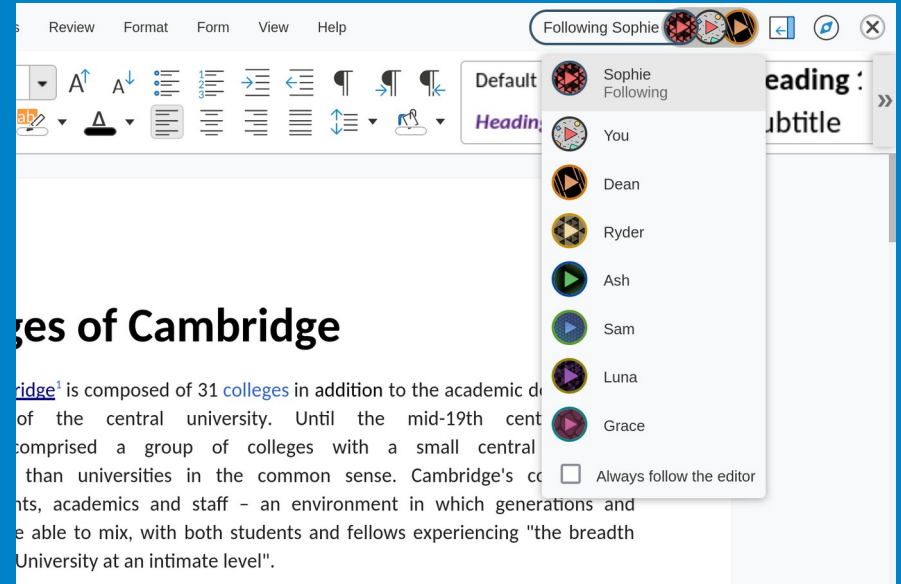
1. Usability

2. New features
3. Interoperability
4. Performance



Follow users

- New interface for clarity
- Unfollow with just a click



1. Usability

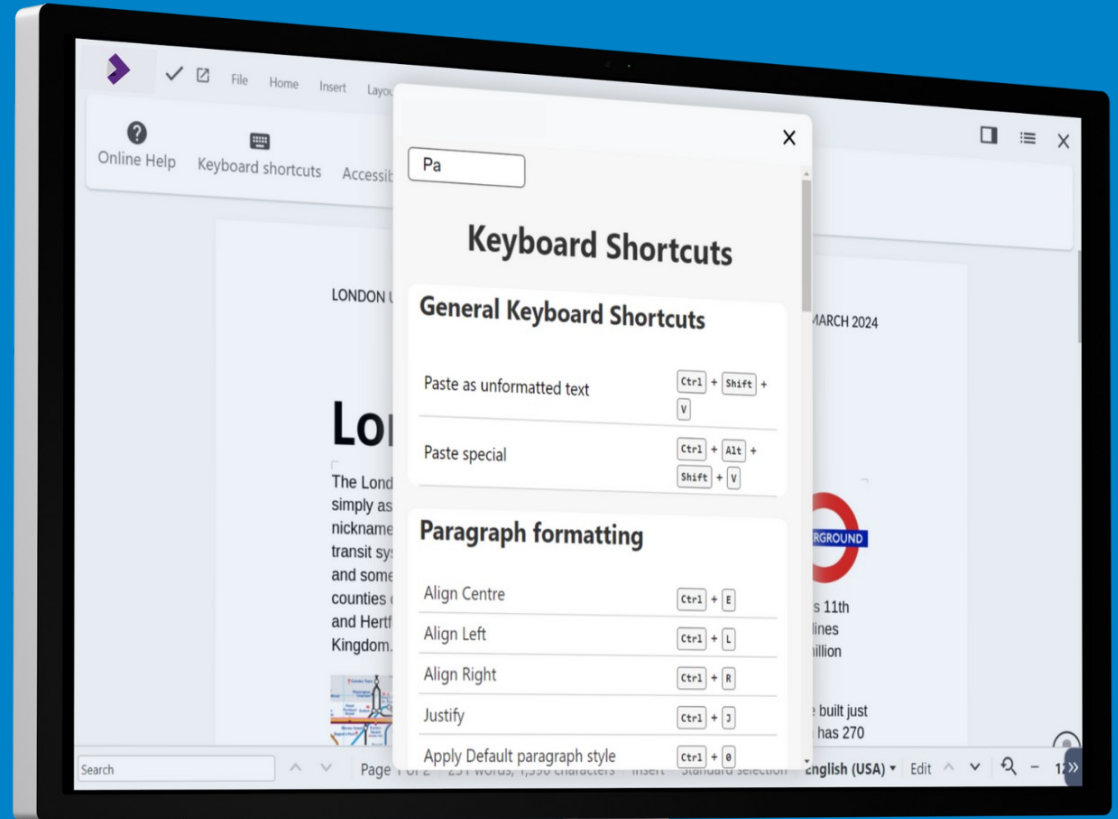
2. New features
3. Interoperability
4. Performance

Search for help

- Find what you need straight away

1. Usability

2. New features
3. Interoperability
4. Performance



PDF Improvements

- Exporting to PDF v.1.7 by default
- Tagged PDFs produced by default
 - Include hidden accessibility markups to improve the reading experience with screen readers and other assistive technologies
- Hybrid PDFs now storing original ODF documents
 - For sharing documents with others as a pdf, while retaining the functionality of being able to modify the original file



1. Usability

2. New features
3. Interoperability
4. Performance

Continued Accessibility wins

- Screen reading & keyboard usability wins
- Processing lots of Audit results
 - Actively fixing and polishing large numbers of improvements
- Target full WCAG 2.0 AA conformance

1. Usability

2. New features
3. Interoperability
4. Performance

2. New Features

1. Usability

2. New features

3. Interoperability

4. Performance

Cell Protection and Section Editing

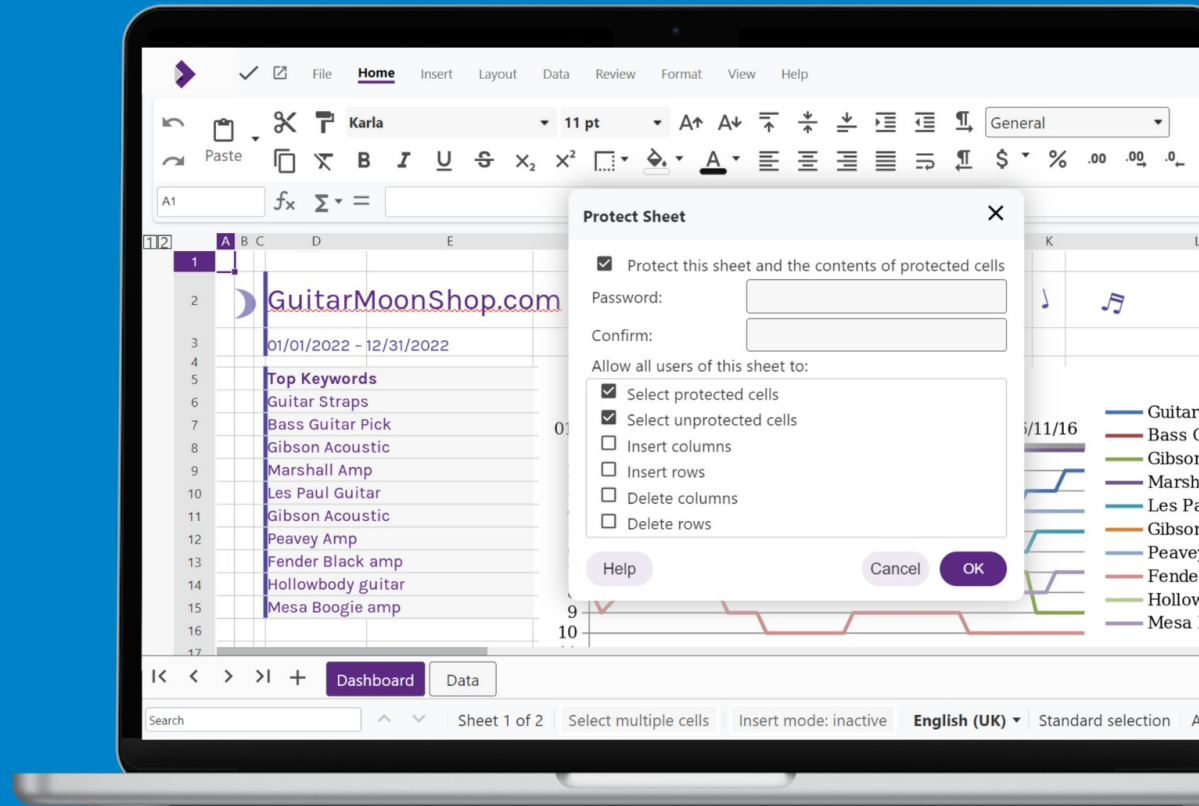
- Greater control of data in Calc and Writer

1. Usability

2. New features

3. Interoperability

4. Performance



Cell Protection and Section Editing

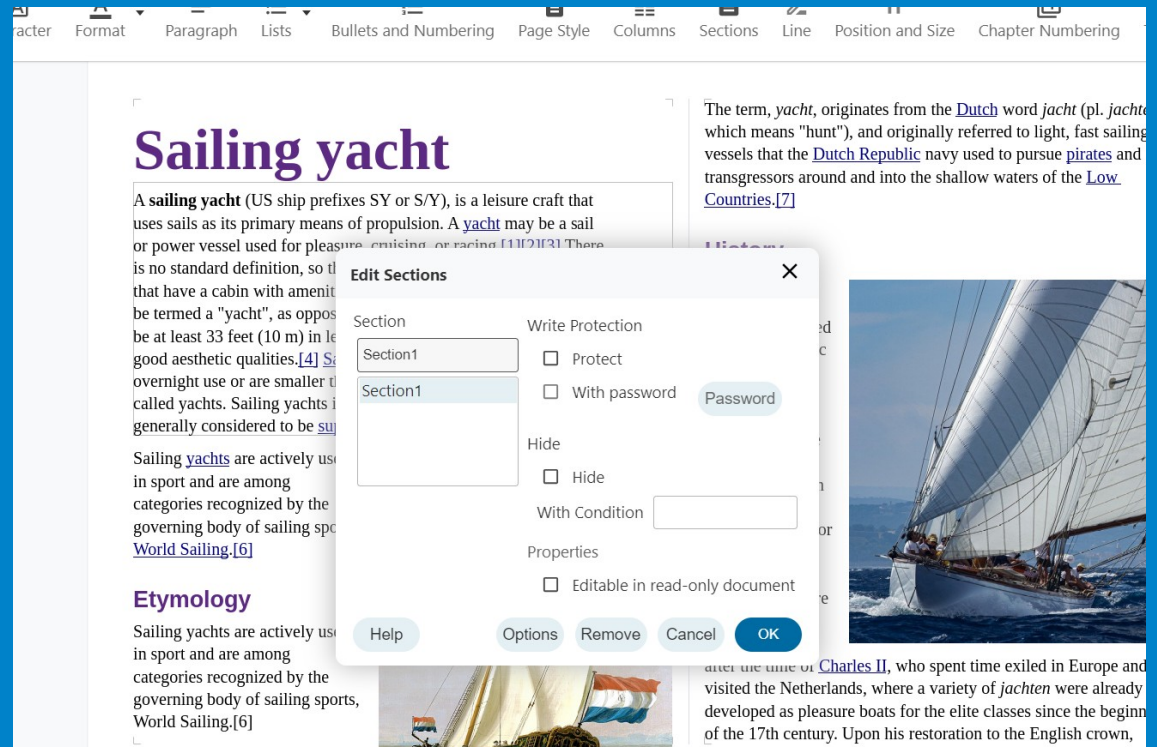
- Greater control of data in Calc and Writer

1. Usability

2. New features

3. Interoperability

4. Performance



The screenshot displays the Nextcloud Writer interface. The main document is an article titled "Sailing yacht" with sections for "Definition", "Etymology", and "History". A dialog box titled "Edit Sections" is open, allowing the user to manage sections. The dialog includes a list of sections (both labeled "Section1"), checkboxes for "Write Protection" (Protect, With password), "Hide" (Hide), and "Properties" (Editable in read-only document). A "Password" field is visible next to the "With password" option. Buttons for "Help", "Options", "Remove", "Cancel", and "OK" are at the bottom of the dialog. The background shows a blue sky and a sailboat on the water.

New Filter Options

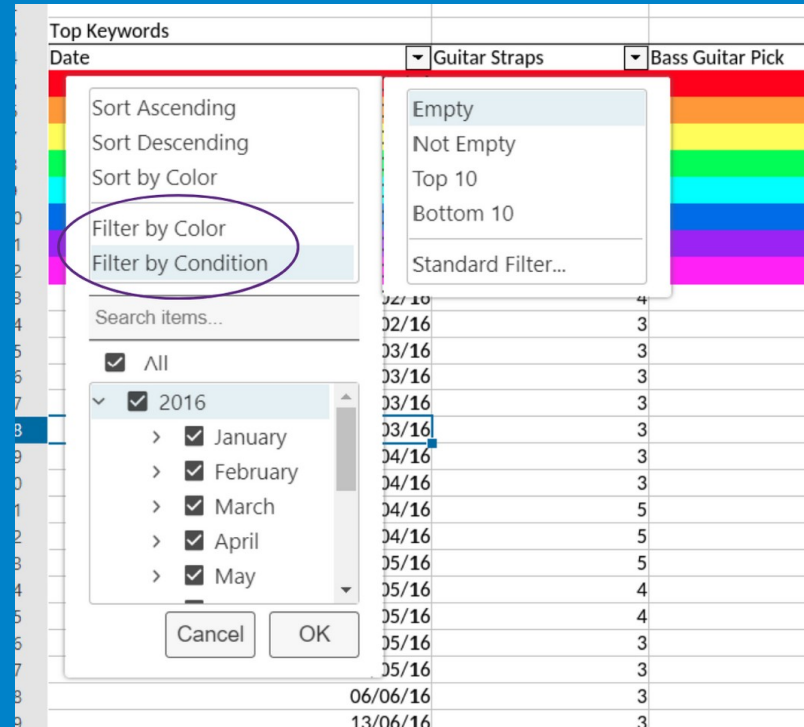
- Filter by colour or condition
 - Empty/not empty cells
 - Top/bottom 10

1. Usability

2. New features

3. Interoperability

4. Performance



Date	Guitar Straps	Bass Guitar Pick
02/16		3
03/16		3
03/16		3
03/16		3
03/16		3
04/16		3
04/16		3
04/16		5
04/16		5
05/16		5
05/16		4
05/16		4
05/16		3
05/16		3
06/06/16		3
13/06/16		3

Improved read-only mode

- Previously, read-only access was not interactive
- Now we offer more granular control for documents and spreadsheets
 - Allow users to select document text
 - Improved Accessibility
- Plus you can also now follow hyperlinks in read-only documents

1. Usability

2. New features

3. Interoperability

4. Performance



Present in Window

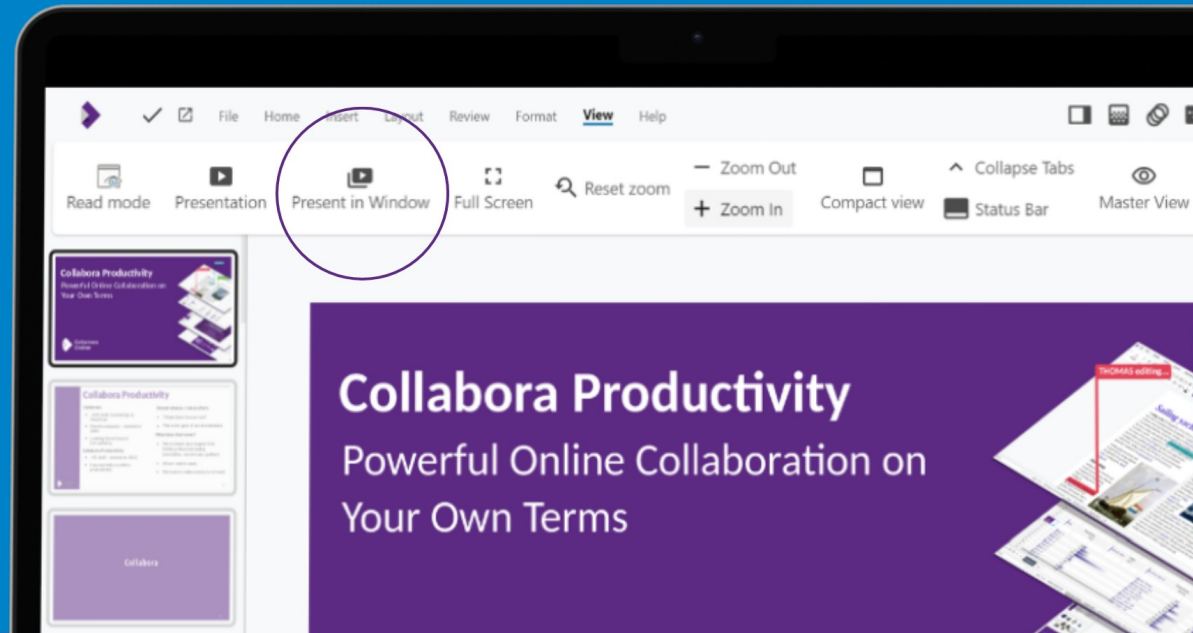
- New option to present slides in a new window (as opposed to a full-screen presentation)
- Useful for video conferencing and large screens

1. Usability

2. New features

3. Interoperability

4. Performance



Quarantine

- Rescue documents from corner-cases
- Imagine someone changing permissions on the document you are editing ...
- Suspends the state-less-ness we know & love somewhat
 - Off by default

1. Usability

2. New features

3. Interoperability

4. Performance



Collabora Online Controller

- Improved scaling and load distribution
- Cost efficient server usage
- Perfect for large deployments

1. Usability

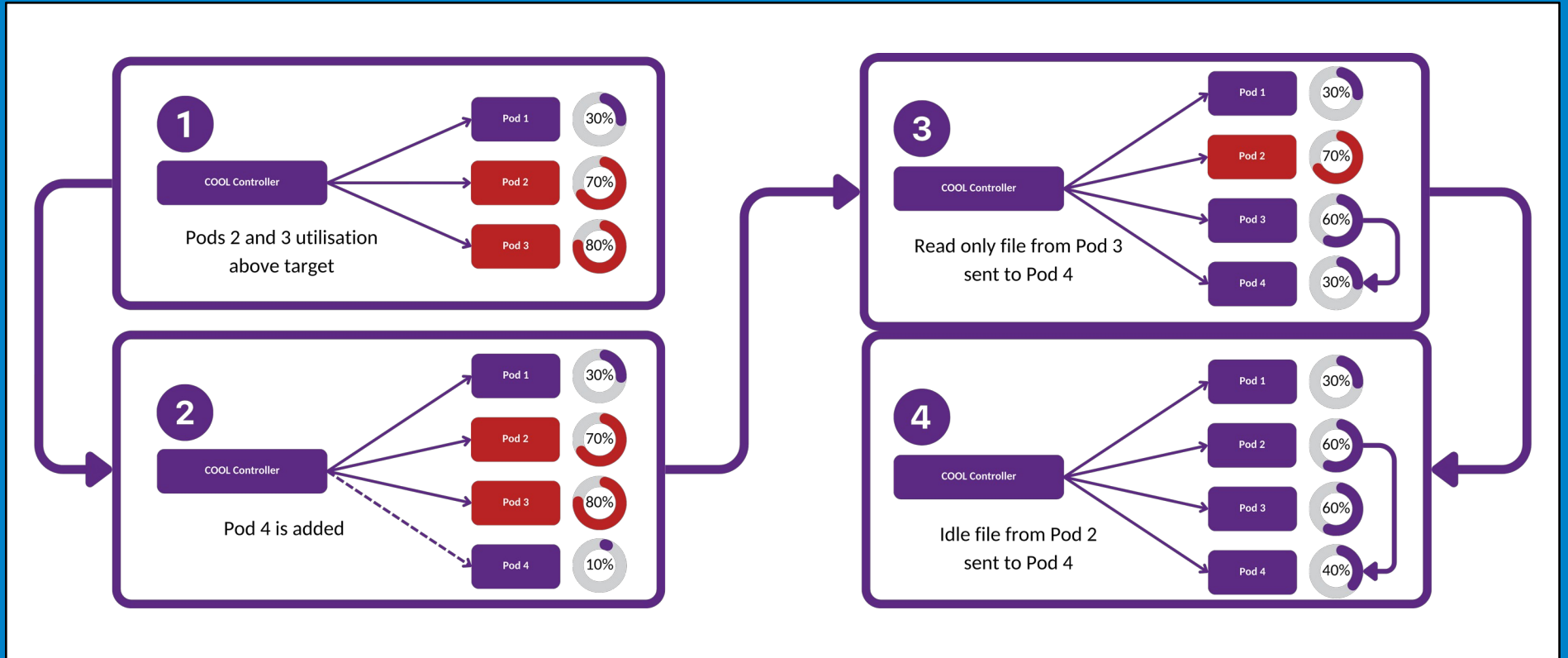
2. New features

3. Interoperability

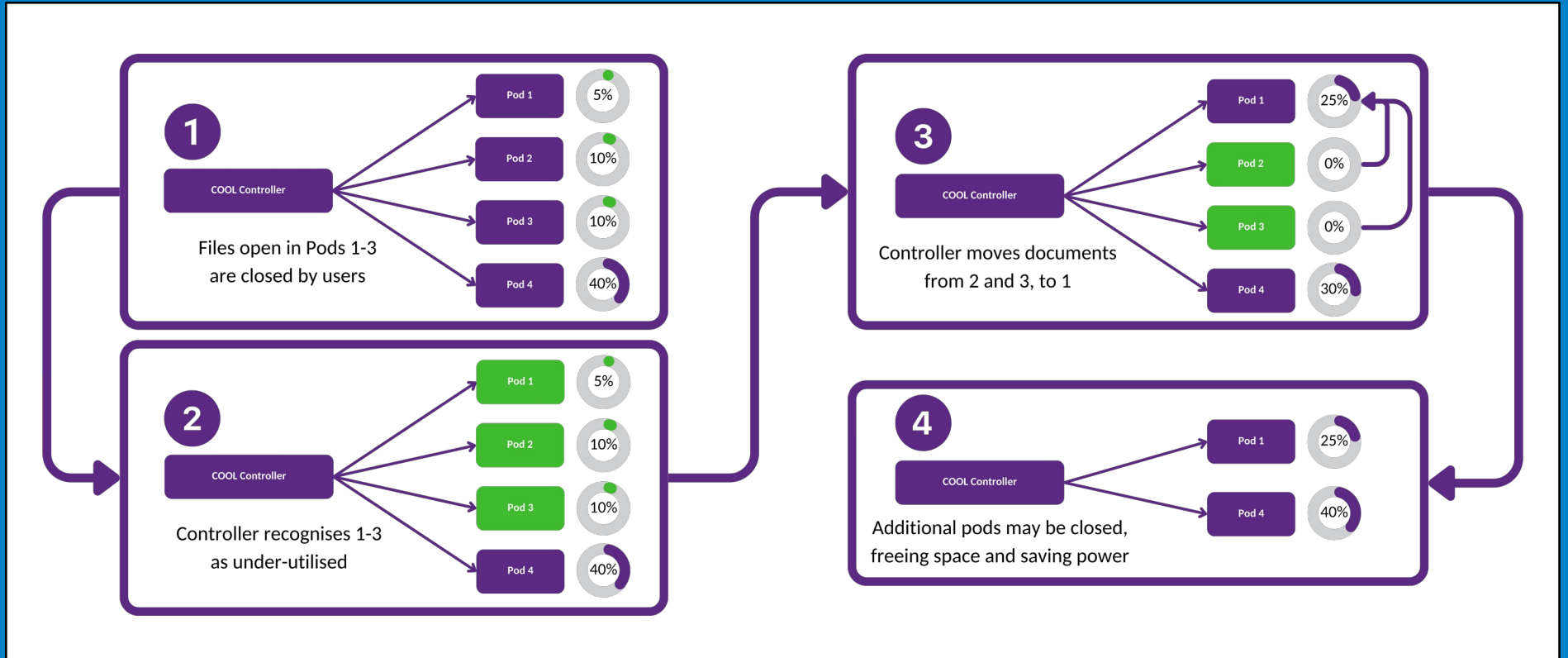
4. Performance



Collabora Online Controller



Collabora Online Controller



Auto-save

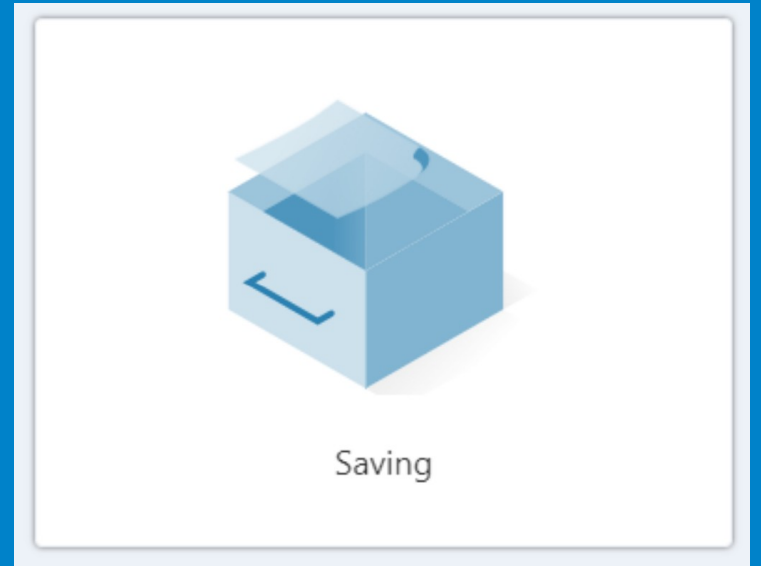
- Auto-saving can now be carried out in the background
- Fewer interruptions to editing
- 700ms before the animation, 7ms to fork ...

1. Usability

2. New features

3. Interoperability

4. Performance



3. Interoperability

1. Usability

2. New features

3. Interoperability

4. Performance

Smart Justify

- Maximised interoperability with Microsoft Word
- Good comparisons:

1. Usability
2. New features
3. Interoperability
4. Performance

Integer sodales tincidunt tristique. Sed a metus posuere, adipiscing nunc et, viverra odio. Donec auctor molestie sem, sit amet tristique lectus hendrerit sed. Cras sodales nisl sed orci mattis iaculis. Nunc eget dolor accumsan, pharetra risus a, vestibulum mauris. Nunc vulputate loboribus mollis. Vivamus nec tellus faucibus, tempor magna nec, facilisis felis. Donec commodo enim a vehicula pellentesque. Nullam vehicula vestibulum est vel ultricies. Aliquam velit massa, laoreet vel leo nec, volutpat facilisis eros. Donec consequat arcu ut diam tempor luctus. Cum sociis natoque penatibus et magnis dis parturient montes, nascetur ridiculus mus. Praesent vitae lacus vel leo sodales pharetra a a nibh. Vestibulum ante ipsum primis in faucibus orci luctus et ultrices posuere cubilia Curae; Nam luctus tempus nibh, fringilla dictum augue consectetur eget. Curabitur at ante sit amet tortor pharetra molestie eu nec ante. Mauris tincidunt, nibh eu sollicitudin molestie, dolor sapien congue tortor, a pulvinar sapien turpis sed ante. Donec nec est elementum, euismod nulla in, mollis nunc. Lorem ipsum dolor sit amet, consectetur adipiscing elit. Vestibulum consequat mi quis pretium semper. Proin luctus orci ac neque venenatis, quis commodo dolor posuere. Curabitur dignissim sapien quis cursus egestas. Donec blandit auctor arcu, nec pellentesque eros molestie eget. In consectetur aliquam hendrerit. Sed cursus mauris vitae ligula pellentesque, non pellentesque urna aliquet. Fusce placerat mauris enim, nec rutrum purus semper vel. Praesent tincidunt neque eu pellentesque pharetra. Fusce pellentesque est orci. Integer sodales. Tincidunt tristique. Sed a metus posuere, adipiscing nunc et, viverra odio. Donec auctor molestie sem, sit amet tristique lectus hendrerit sed. Cras sodales nisl sed orci mattis iaculis. Nunc eget dolor accumsan, pharetra risus a, vestibulum mauris. Nunc vulputate loboribus mollis. Vivamus nec tellus faucibus, tempor magna nec, facilisis felis. Donec commodo enim a vehicula pellentesque. Nullam vehicula vestibulum est vel ultricies. Lorem ipsum dolor sit amet, consectetur adipiscing elit. Vestibulum consequat mi quis pretium semper. Proin luctus orci ac neque venenatis, quis commodo dolor posuere. Curabitur dignissim sapien quis cursus egestas. Donec blandit auctor arcu, nec pellentesque eros molestie eget. In consectetur aliquam hendrerit. Sed cursus mauris vitae ligula pellentesque, non pellentesque urna aliquet. Fusce placerat mauris enim, nec rutrum purus semper vel. Praesent tincidunt neque eu pellentesque pharetra. Fusce pellentesque est orci. Aliquam velit massa, laoreet vel leo nec, volutpat facilisis eros. Donec consequat arcu ut diam tempor luctus. Cum sociis natoque penatibus et magnis dis parturient montes, nascetur ridiculus mus. Praesent vitae lacus vel leo sodales pharetra a a nibh. Vestibulum ante ipsum primis in faucibus orci luctus et ultrices posuere cubilia Curae; Nam luctus tempus nibh, fringilla dictum augue consectetur eget. Curabitur at ante sit amet tortor pharetra molestie eu nec ante. Mauris tincidunt, nibh eu sollicitudin molestie, dolor sapien congue tortor, a pulvinar sapien turpis sed ante. Donec nec est elementum, euismod nulla in, mollis nunc. Lorem ipsum dolor sit amet, consectetur adipiscing elit. Vestibulum consequat mi quis pretium semper. Proin luctus orci ac neque venenatis, quis commodo dolor posuere. Curabitur dignissim sapien quis cursus egestas. Donec blandit auctor arcu, nec pellentesque eros molestie eget. In consectetur aliquam hendrerit. Sed cursus mauris vitae ligula pellentesque, non pellentesque urna aliquet.

pellentesque eros molestie eget. In consectetur aliquam hendrerit. Sed cursus mauris vitae ligula pellentesque, non pellentesque urna aliquet.

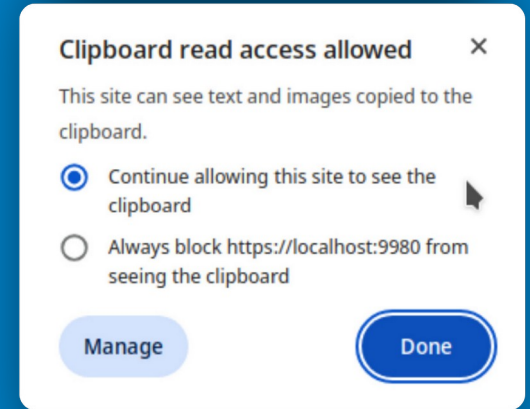


Integer sodales tincidunt tristique. Sed a metus posuere, adipiscing nunc et, viverra odio. Donec auctor molestie sem, sit amet tristique lectus hendrerit sed. Cras sodales nisl sed orci mattis iaculis. Nunc eget dolor accumsan, pharetra risus a, vestibulum mauris. Nunc vulputate loboribus mollis. Vivamus nec tellus faucibus, tempor magna nec, facilisis felis. Donec commodo enim a vehicula pellentesque. Nullam vehicula vestibulum est vel ultricies. Aliquam velit massa, laoreet vel leo nec, volutpat facilisis eros. Donec consequat arcu ut diam tempor luctus. Cum sociis natoque penatibus et magnis dis parturient montes, nascetur ridiculus mus. Praesent vitae lacus vel leo sodales pharetra a a nibh. Vestibulum ante ipsum primis in faucibus orci luctus et ultrices posuere cubilia Curae; Nam luctus tempus nibh, fringilla dictum augue consectetur eget. Curabitur at ante sit amet tortor pharetra molestie eu nec ante. Mauris tincidunt, nibh eu sollicitudin molestie, dolor sapien congue tortor, a pulvinar sapien turpis sed ante. Donec nec est elementum, euismod nulla in, mollis nunc. Lorem ipsum dolor sit amet, consectetur adipiscing elit. Vestibulum consequat mi quis pretium semper. Proin luctus orci ac neque venenatis, quis commodo dolor posuere. Curabitur dignissim sapien quis cursus egestas. Donec blandit auctor arcu, nec pellentesque eros molestie eget. In consectetur aliquam hendrerit. Sed cursus mauris vitae ligula pellentesque, non pellentesque urna aliquet. Fusce placerat mauris enim, nec rutrum purus semper vel. Praesent tincidunt neque eu pellentesque pharetra. Fusce pellentesque est orci. Integer sodales. Tincidunt tristique. Sed a metus posuere, adipiscing nunc et, viverra odio. Donec auctor molestie sem, sit amet tristique lectus hendrerit sed. Cras sodales nisl sed orci mattis iaculis. Nunc eget dolor accumsan, pharetra risus a, vestibulum mauris. Nunc vulputate loboribus mollis. Vivamus nec tellus faucibus, tempor magna nec, facilisis felis. Donec commodo enim a vehicula pellentesque. Nullam vehicula vestibulum est vel ultricies. Lorem ipsum dolor sit amet, consectetur adipiscing elit. Vestibulum consequat mi quis pretium semper. Proin luctus orci ac neque venenatis, quis commodo dolor posuere. Curabitur dignissim sapien quis cursus egestas. Donec blandit auctor arcu, nec pellentesque eros molestie eget. In consectetur aliquam hendrerit. Sed cursus mauris vitae ligula pellentesque, non pellentesque urna aliquet. Fusce placerat mauris enim, nec rutrum purus semper vel. Praesent tincidunt neque eu pellentesque pharetra. Fusce pellentesque est orci. Aliquam velit massa, laoreet vel leo nec, volutpat facilisis eros. Donec consequat arcu ut diam tempor luctus. Cum sociis natoque penatibus et magnis dis parturient montes, nascetur ridiculus mus. Praesent vitae lacus vel leo sodales pharetra a a nibh. Vestibulum ante ipsum primis in faucibus orci luctus et ultrices posuere cubilia Curae; Nam luctus tempus nibh, fringilla dictum augue consectetur eget. Curabitur at ante sit amet tortor pharetra molestie eu nec ante. Mauris tincidunt, nibh eu sollicitudin molestie, dolor sapien congue tortor, a pulvinar sapien turpis sed ante. Donec nec est elementum, euismod nulla in, mollis nunc. Lorem ipsum dolor sit amet, consectetur adipiscing elit. Vestibulum consequat mi quis pretium semper. Proin luctus orci ac neque venenatis, quis commodo dolor posuere. Curabitur dignissim sapien quis cursus egestas. Donec blandit auctor arcu, nec pellentesque eros molestie eget. In consectetur aliquam hendrerit. Sed cursus mauris vitae ligula pellentesque, non pellentesque urna aliquet.

*Many thanks to László Németh, the European Commission's Next Generation Internet programme and NLnet

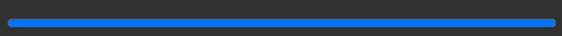
Simplifying copy and paste

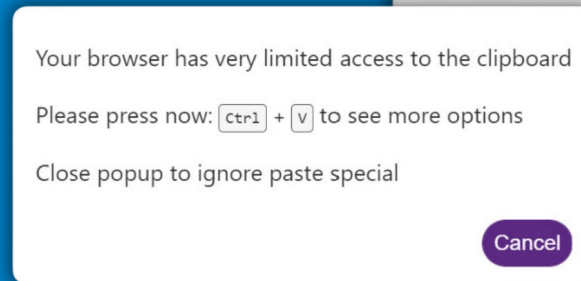
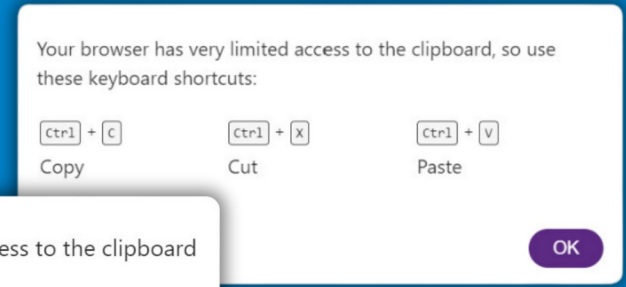
- Toolbar buttons work as expected
- Easier for the end user
- No download required



New clipboard API pop-up

If you want to share large elements outside of Nextcloud Office it's necessary to first download them. [Download \(Ctrl + C\)](#)


Download completed and ready to be copied to clipboard. [Copy \(Ctrl + C\)](#)



HTML Copy/paste with Google Sheets

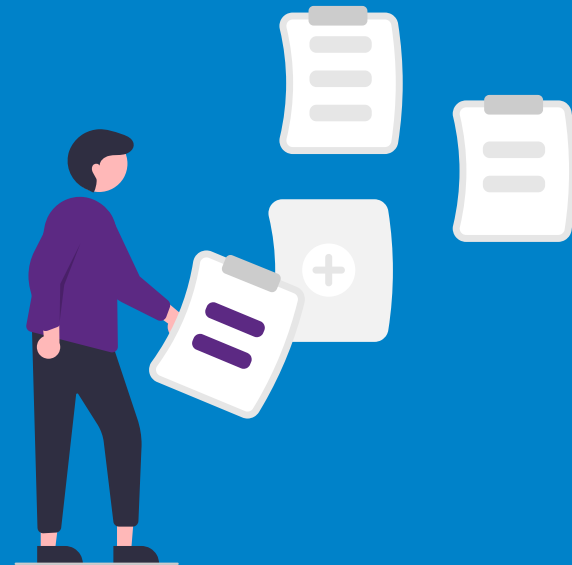
- Reverse-engineered and documented Google Sheets extensions
 - Preserves formulae vs. values and styling
 - Ensuring that data copied from Calc includes markers such as `<google-sheets-html-origin/>` to fully work with Google Sheets
- Help Collabora Office Desktop ↔ Collabora Online copy/paste, as well as from Google Sheets

1. Usability

2. New features

3. Interoperability

4. Performance



Improved Graphics Support

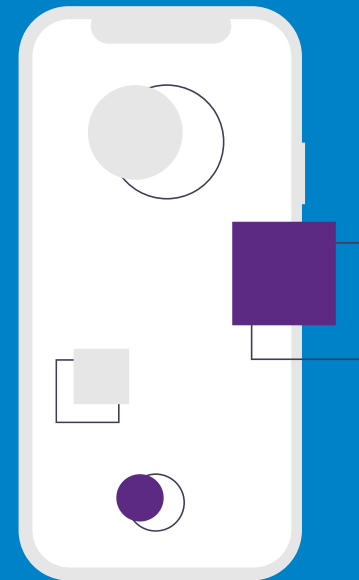
- Previously SVGs would default to the fallback PNG
 - OOXML should now render the SVG image correctly
- Three interoperability issues related to Windows EMF and EMF+ files have also been resolved
- Smoother experience when working with SVGs, EMF and EMF+ files

1. Usability

2. New features

3. Interoperability

4. Performance



Floating tables

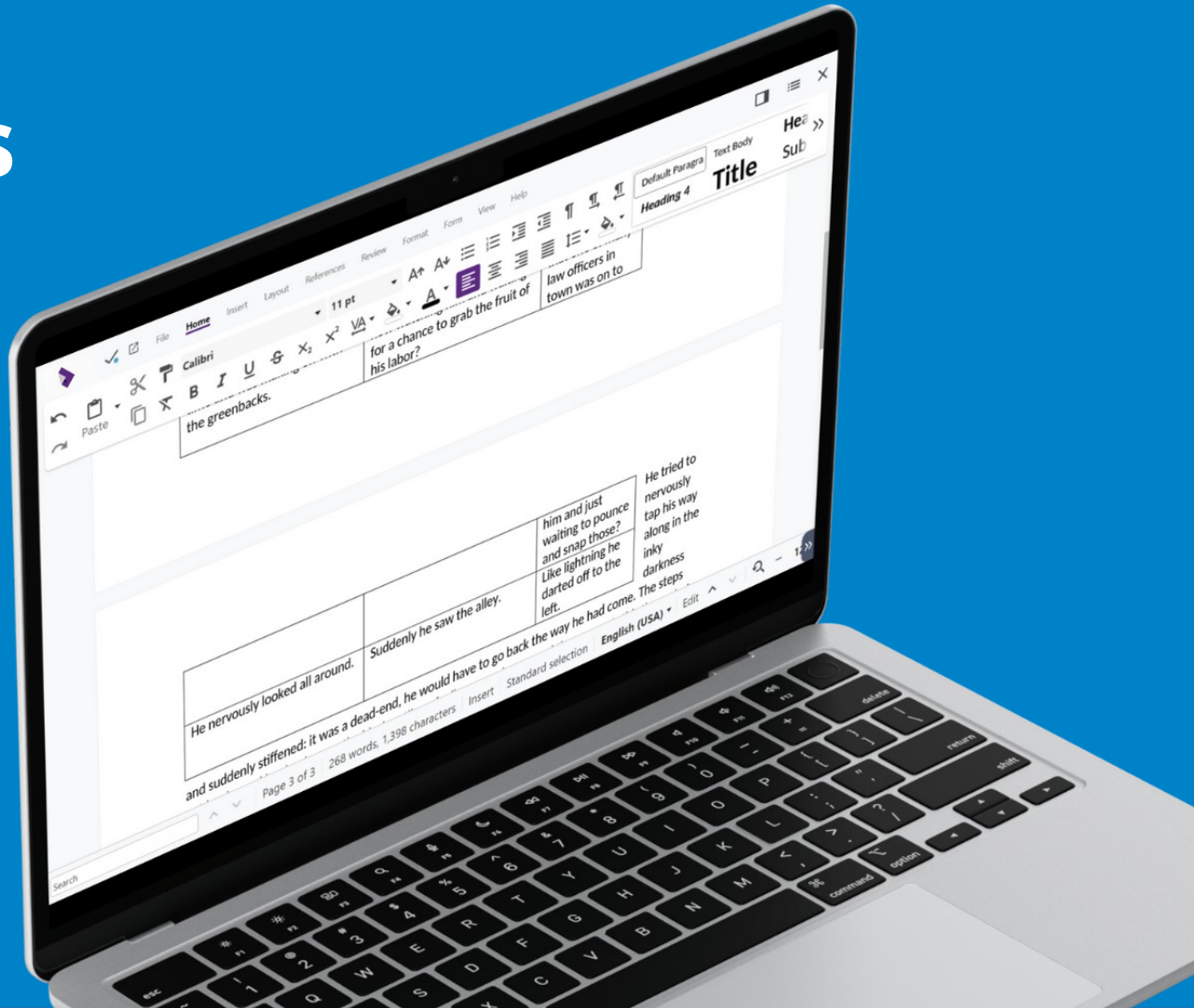
- Allows your tables to span content over multiple pages inside floating frames
- Preserving layouts across platforms

1. Usability

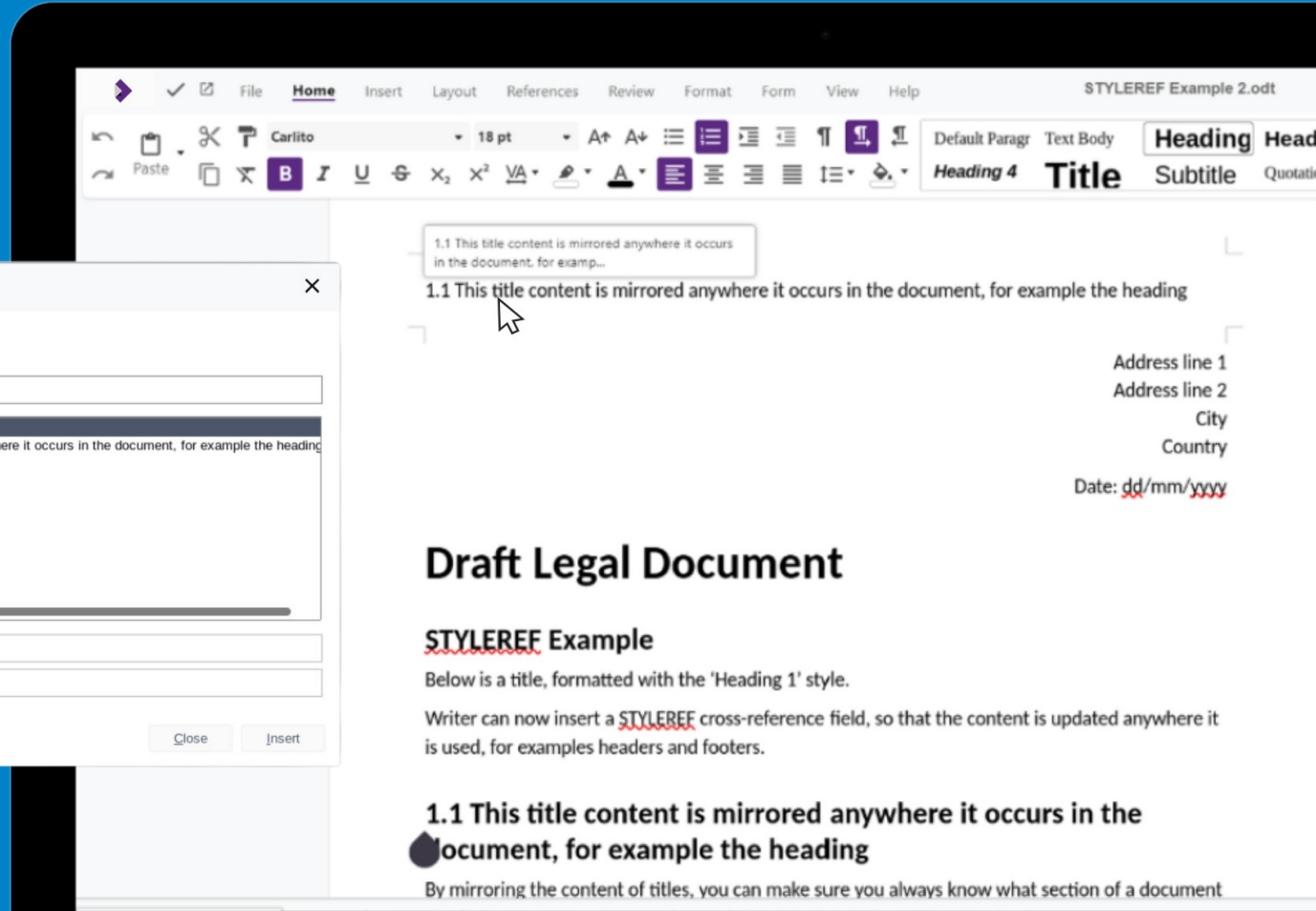
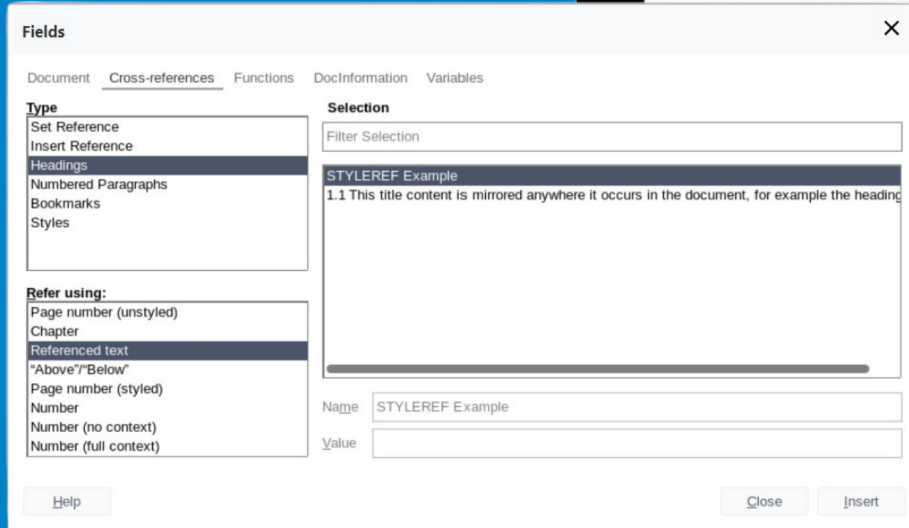
2. New features

3. Interoperability

4. Performance



StyleRef



1. Usability

2. New features

3. Interoperability

4. Performance

Lots more hard work!

- Compact View of Pivot Tables
 - Calc can now preserve more recent Excel default of compact Pivot Tables
- Colour theming
- And much more ...

1. Usability

2. New features

3. Interoperability

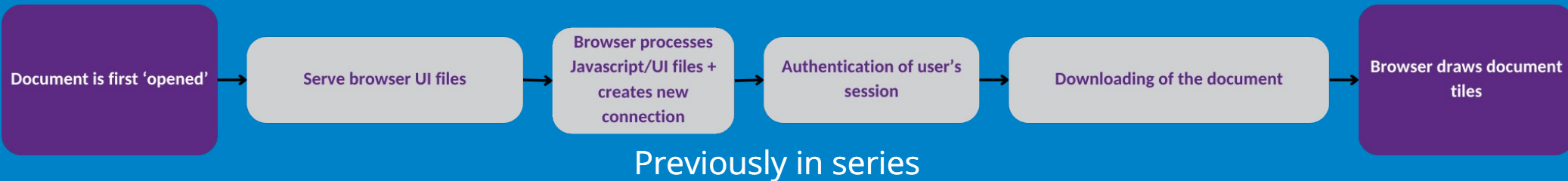
4. Performance

4. Performance

1. Usability
2. New features
3. Interoperability

4. Performance

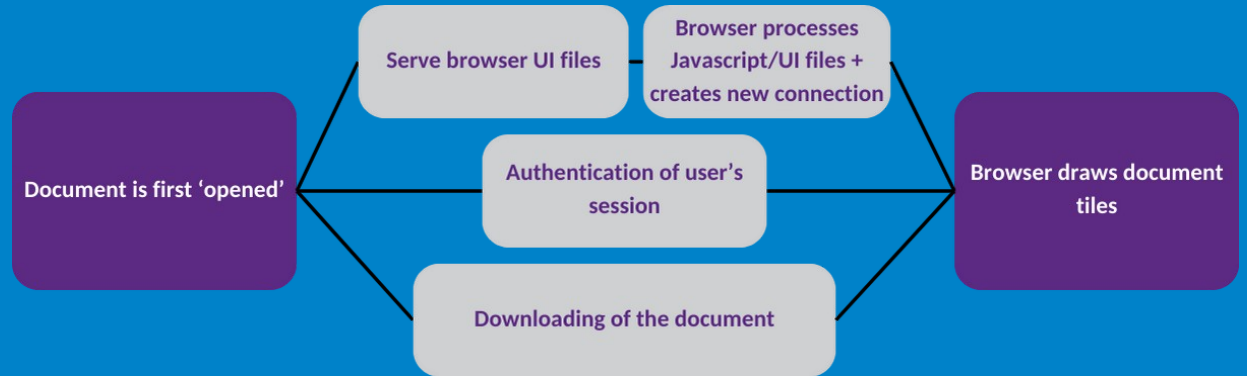
2x Faster Document Loading



Carrying out processes in parallel to halve load times

1. Usability
2. New features
3. Interoperability

4. Performance



Up to ~18x Faster Tile Compression

- This speed-boost stacks two improvements
 - 4.5x performance from run length encoding
 - 4x performance improvement from improved threading
- Combined for ~18x speed boost for tiles

1. Usability
2. New features
3. Interoperability

4. Performance

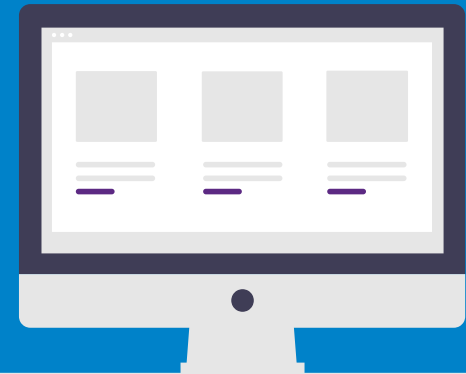


Improved threading in Calc

- We tested time for **loading**, **recalculation**, and **saving**
- **650,000** test spreadsheets
- Time reduced from **3 days**, to **36 hours**
 - **~2x speedup**

1. Usability
2. New features
3. Interoperability

4. Performance



Lots of work over the past year!
Let us free your documents

Thank you for listening
Any questions?

Michael Meeks - CEO Collabora Productivity