



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

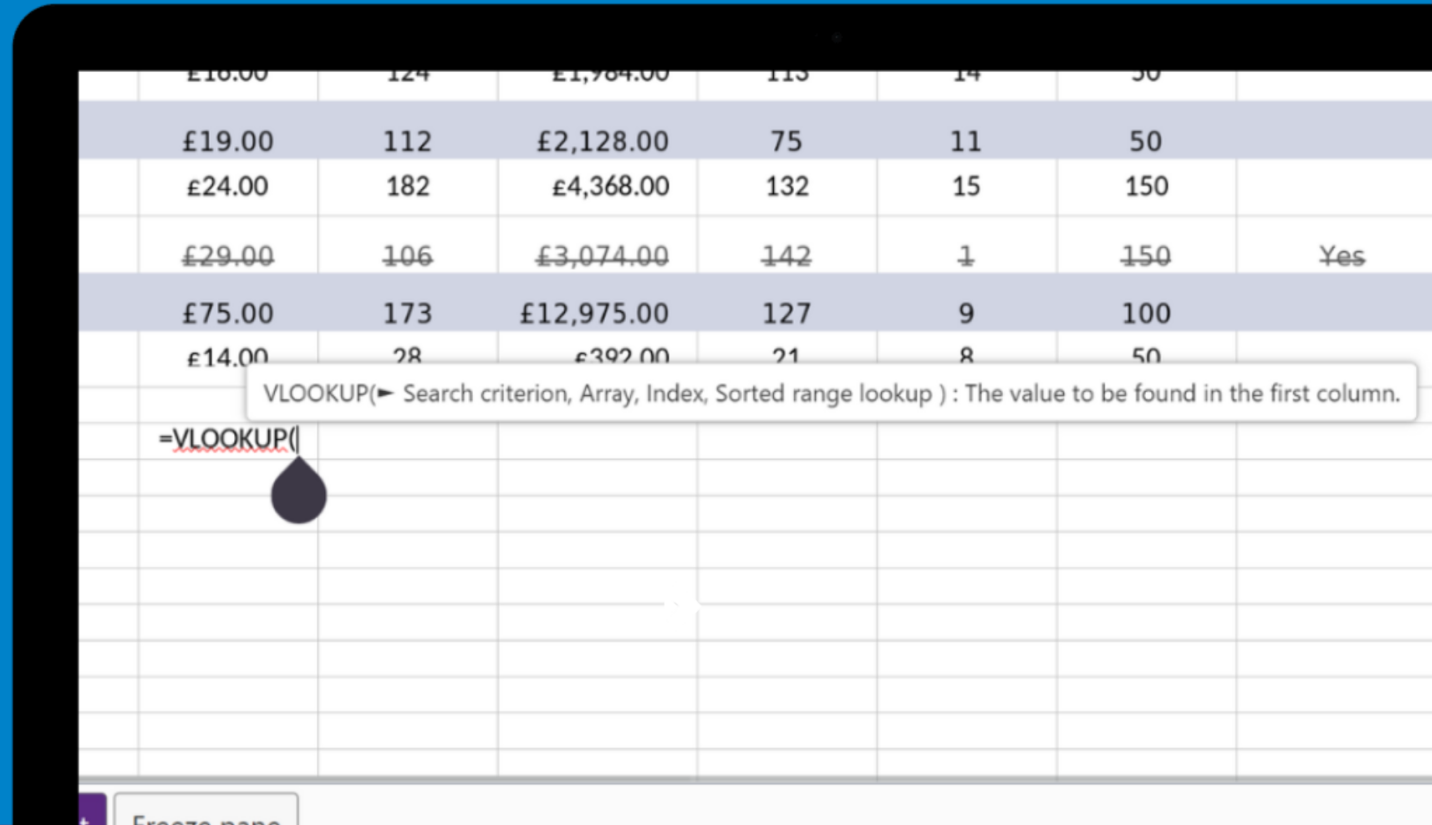
- 2. New features
- 3. Interoperability
- 4. Performance

# 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 application interface. A tooltip is displayed over the active cell, which contains the formula `=VLOOKUP()`. The tooltip text reads: "VLOOKUP( Search criterion, Array, Index, Sorted range lookup ) : The value to be found in the first column." The spreadsheet data includes columns with monetary values (e.g., £16.00, £19.00, £24.00, £29.00, £75.00, £14.00) and numerical values (e.g., 124, 112, 182, 106, 173, 28). A "Freeze pane" button is visible at the bottom left of the spreadsheet area.

£16.00	124	£1,784.00	115	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	

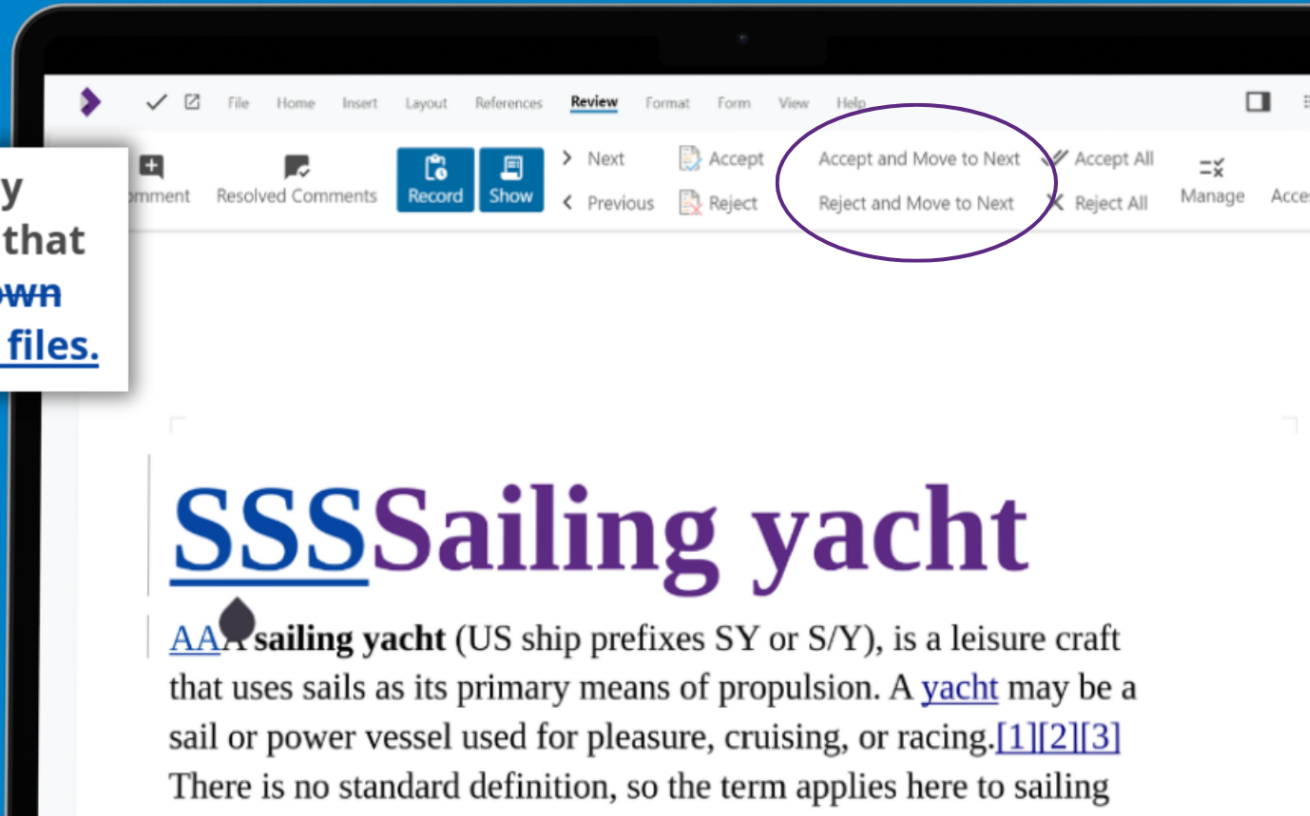
# Better Tracked Change Processing

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

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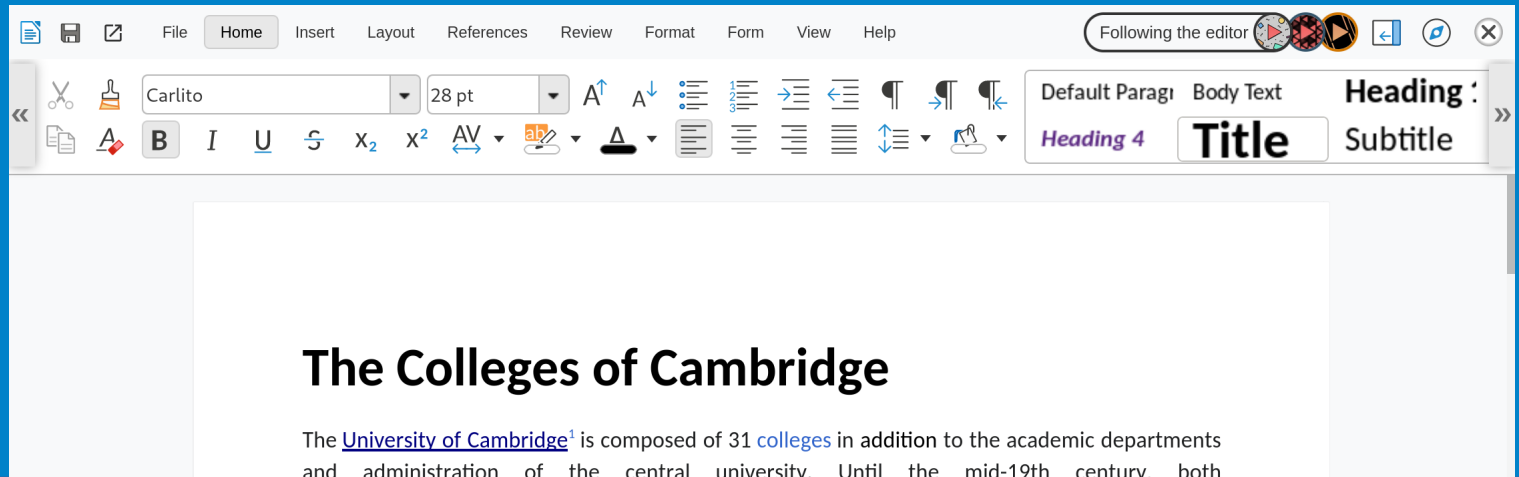
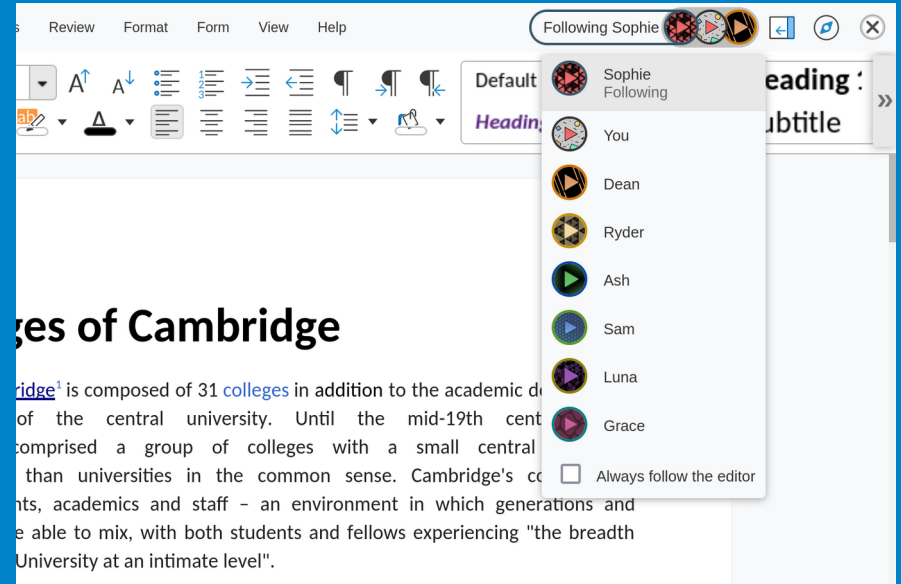
## 1. Usability

2. New features
3. Interoperability
4. Performance



# Follow users

- New interface for clarity
- Unfollow with just a click



## 1. Usability

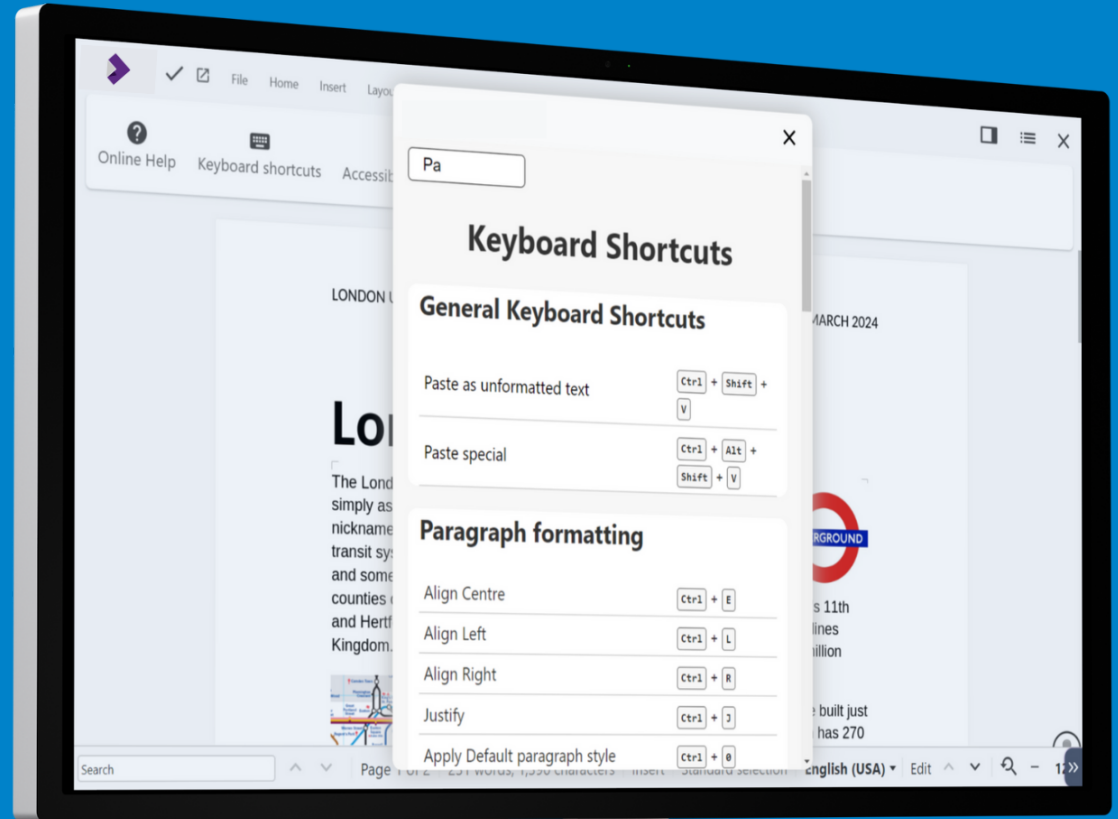
2. New features
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# Search for help

- Find what you need straight away

## 1. Usability

2. New features
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# 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
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# 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
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# 2. New Features

1. Usability

**2. New features**

3. Interoperability

4. Performance

# Cell Protection and Section Editing

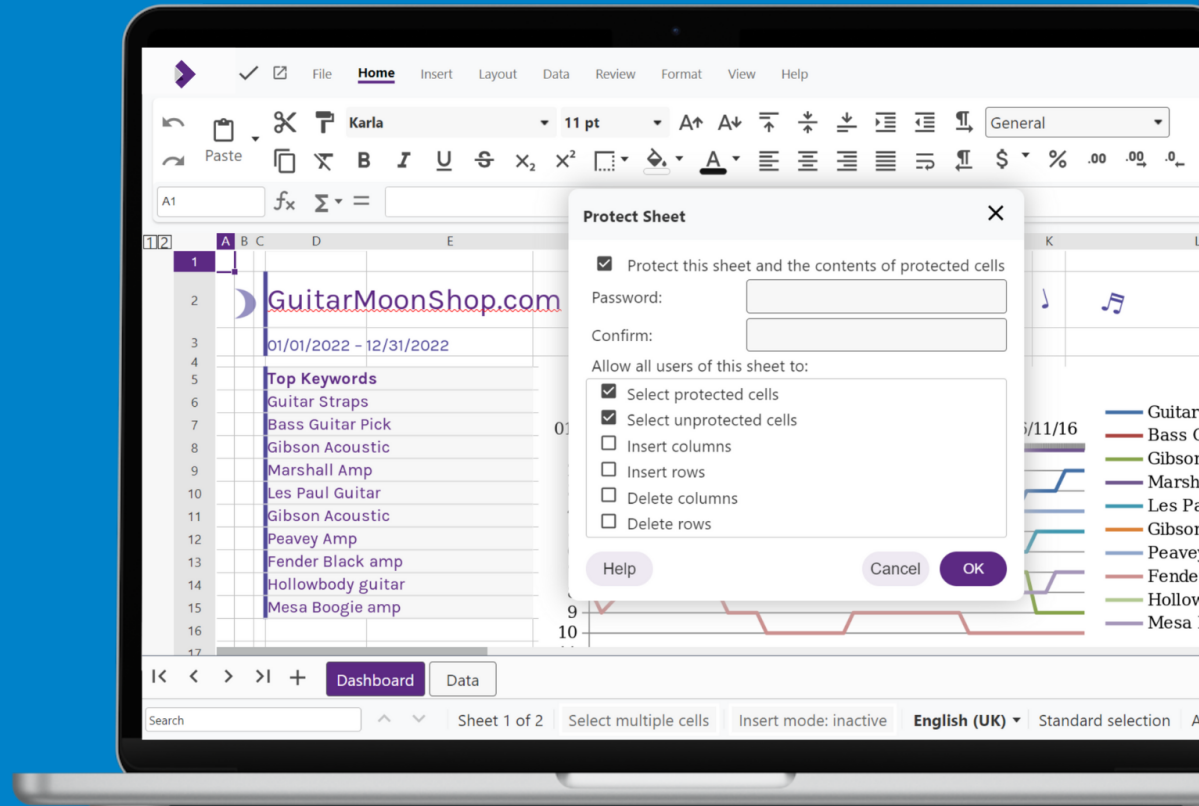
- Greater control of data in Calc and Writer

1. Usability

2. New features

3. Interoperability

4. Performance



# Cell Protection and Section Editing

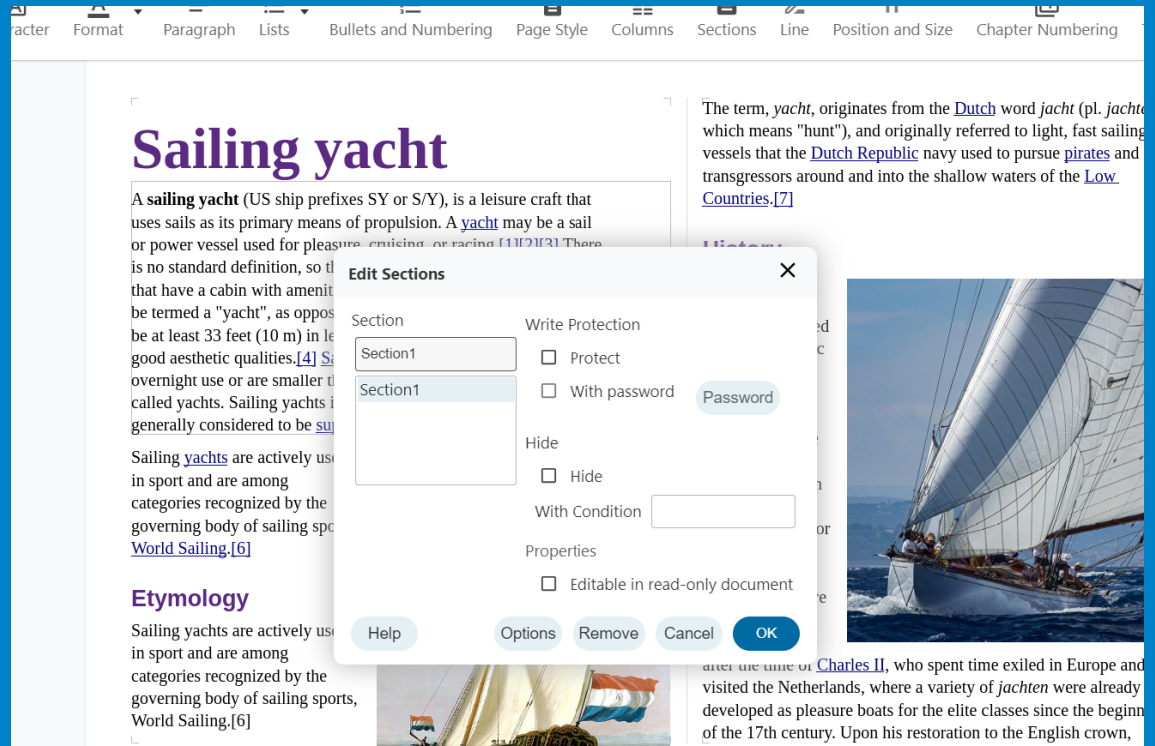
- Greater control of data in Calc and Writer

1. Usability

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4. Performance



The screenshot displays the Nextcloud Writer interface. The document title is "Sailing yacht". The main text discusses the definition and characteristics of a sailing yacht, mentioning its use for leisure and its classification as a US ship prefix (SY or S/Y). It also notes that sailing yachts are actively used in sport and are recognized by the governing body of sailing sports, World Sailing. The text includes several hyperlinks, such as "Dutch Republic", "pirates", "Low Countries", and "Charles II".

An "Edit Sections" dialog box is open, allowing the user to manage the document's sections. The dialog has a "Section" list with two entries, both labeled "Section1". To the right of the list are checkboxes for "Write Protection" (Protect, With password) and "Hide" (Hide). The "With password" option is selected, and a "Password" field is visible. Below these options are checkboxes for "With Condition" and "Editable in read-only document". At the bottom of the dialog are buttons for "Help", "Options", "Remove", "Cancel", and "OK".

The background of the document shows a photograph of a sailboat on the water. The interface includes a top menu bar with options like "Character", "Format", "Paragraph", "Lists", "Bullets and Numbering", "Page Style", "Columns", "Sections", "Line", "Position and Size", and "Chapter Numbering".

# New Filter Options

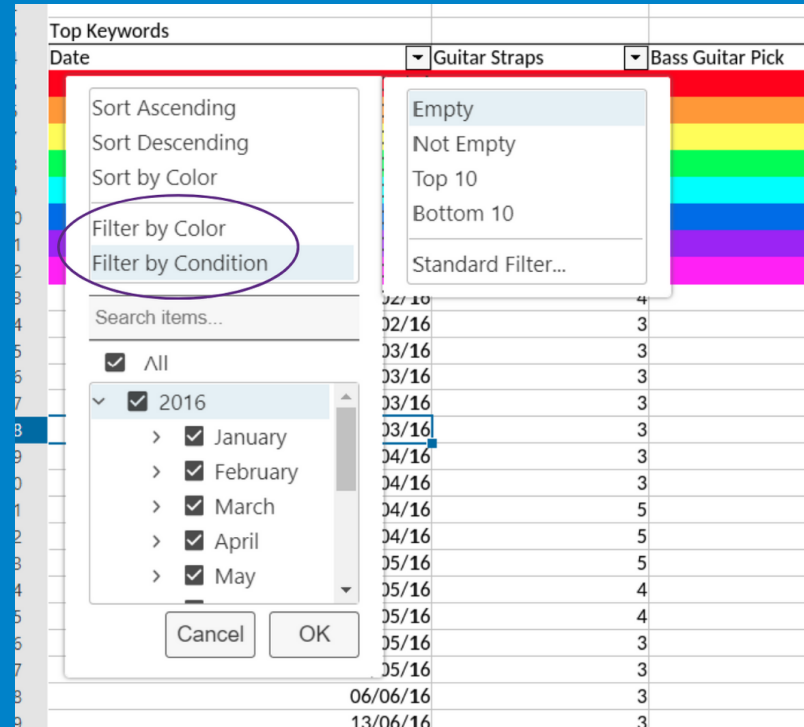
- Filter by colour or condition
  - Empty/not empty cells
  - Top/bottom 10

1. Usability

2. New features

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The screenshot shows a spreadsheet with columns 'Date', 'Guitar Straps', and 'Bass Guitar Pick'. A filter menu is open over the 'Date' column, showing options: 'Sort Ascending', 'Sort Descending', 'Sort by Color', 'Filter by Color' (circled in purple), and 'Filter by Condition'. A sub-menu for 'Filter by Condition' is also visible, listing 'Empty', 'Not Empty', 'Top 10', 'Bottom 10', and 'Standard Filter...'. Below the filter menu, there is a search bar and a tree view for filtering by year and month, with '2016' selected and its months (January through May) also checked. 'Cancel' and 'OK' buttons are at the bottom of the filter menu.

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

# 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**

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# Present in Window

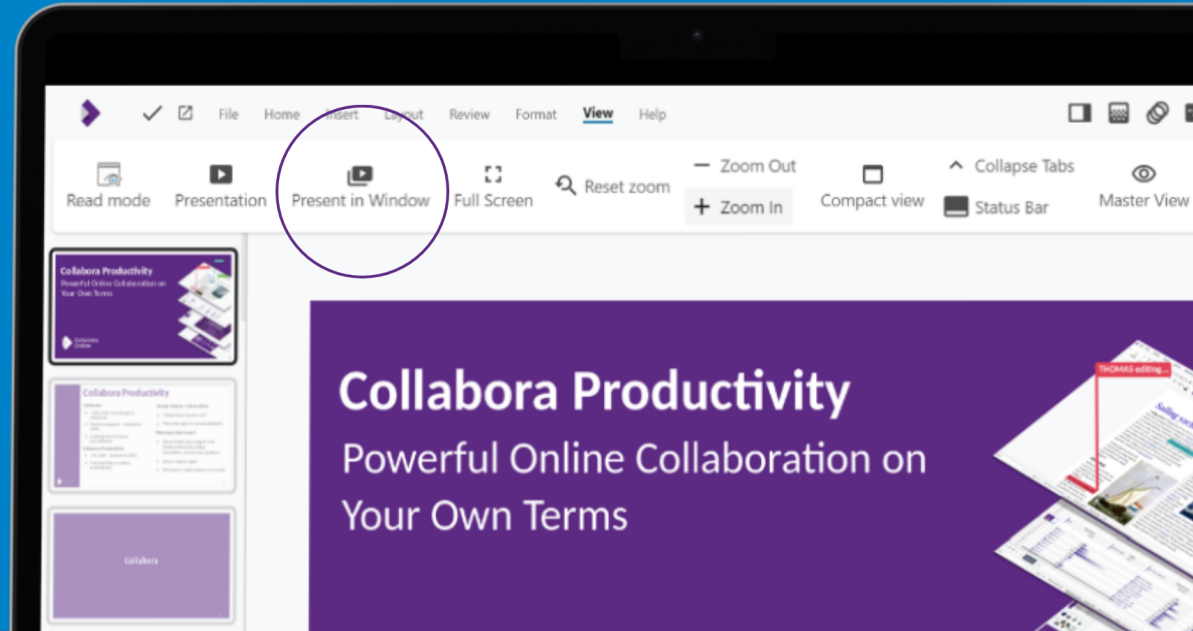
- New option to present slides in a new window (as opposed to a full-screen presentation)
- Useful for video conferencing and large screens

1. Usability

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# 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**

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# Collabora Online Controller

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

1. Usability

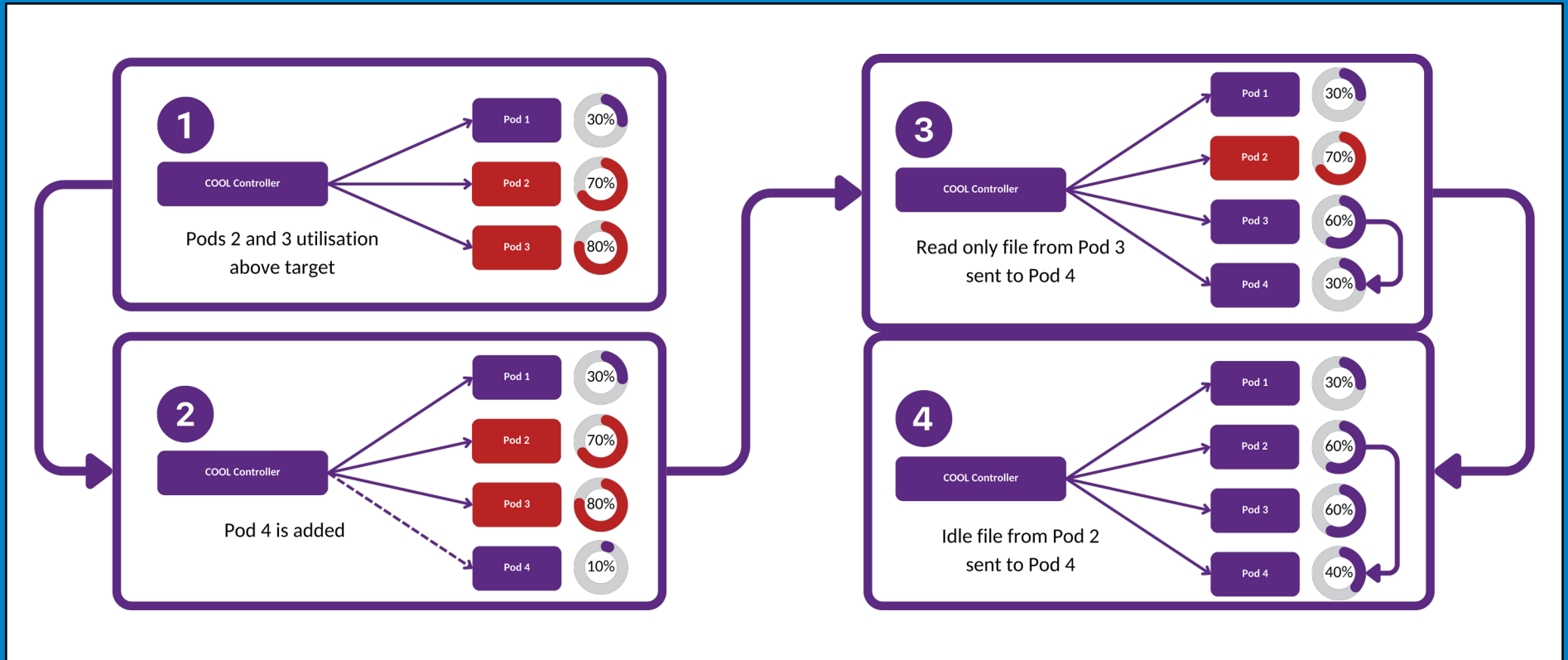
**2. New features**

3. Interoperability

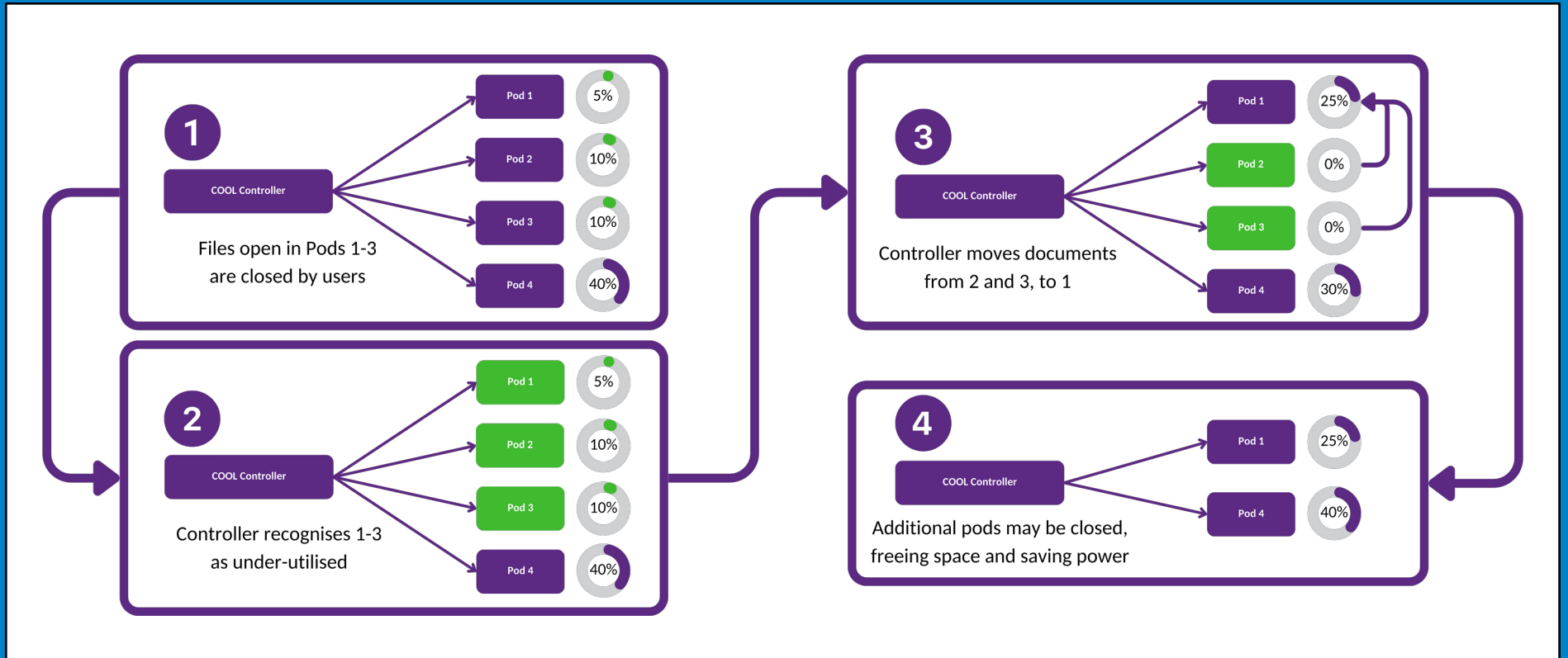
4. Performance



# Collabora Online Controller



# Collabora Online Controller



# Auto-save

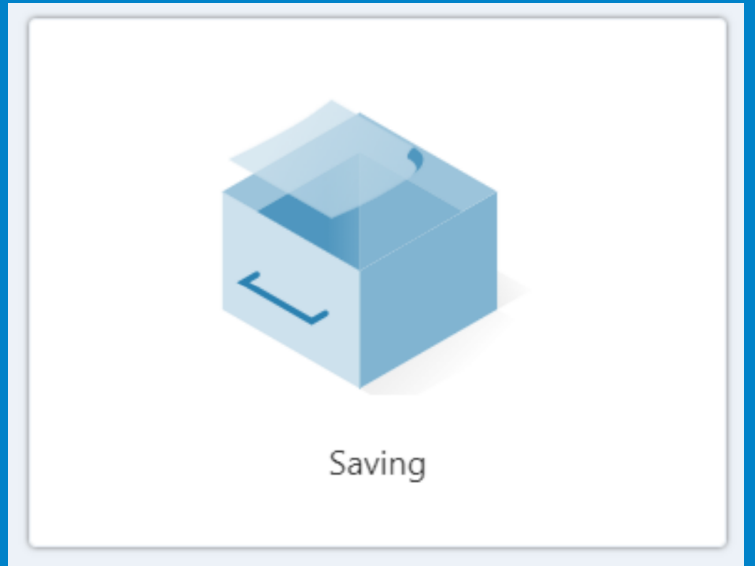
- Auto-saving can now be carried out in the background
- Fewer interruptions to editing
- 700ms before the animation, 7ms to fork ...

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

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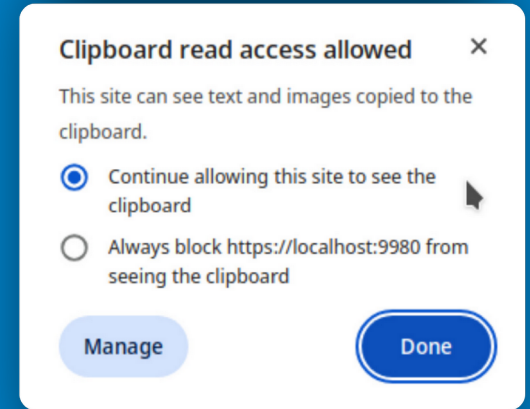


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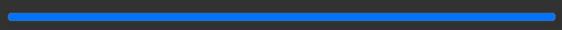
# Simplifying copy and paste

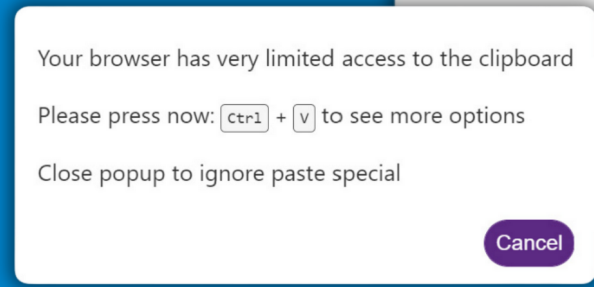
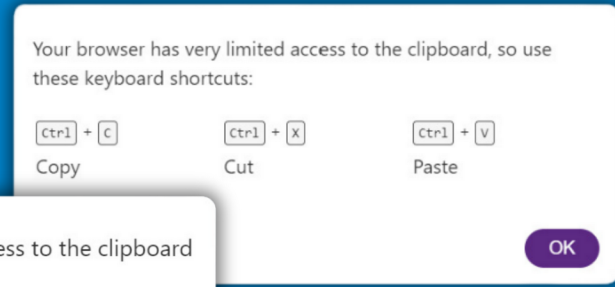
- Toolbar buttons work as expected
- Easier for the end user
- No download required



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

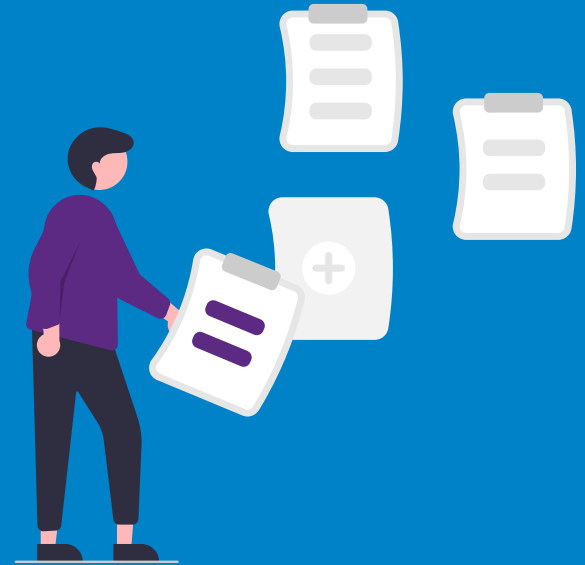
- Reverse-engineered and documented Google Sheets extensions
  - Preserves formulae vs. values and styling
  - Ensuring that data copied from Calc includes markers such as `<google-sheets-html-origin/>` to fully work with Google Sheets
- Help Collabora Office Desktop ↔ Collabora Online copy/paste, as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

1. Usability

2. New features

**3. Interoperability**

4. Performance





# Improved Graphics Support

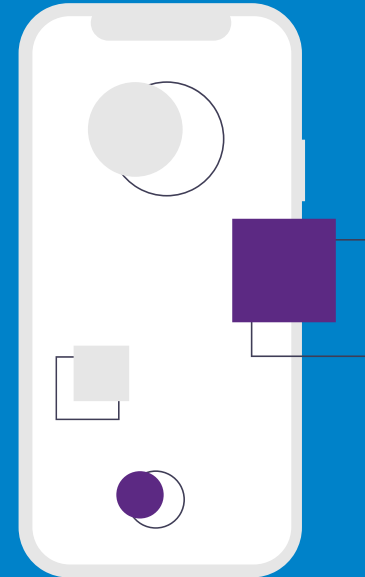
- Previously SVGs would default to the fallback PNG
  - OOXML should now render the SVG image correctly
- Three interoperability issues related to Windows EMF and EMF+ files have also been resolved
- Smoother experience when working with SVGs, EMF and EMF+ files

1. Usability

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4. Performance



# Floating tables

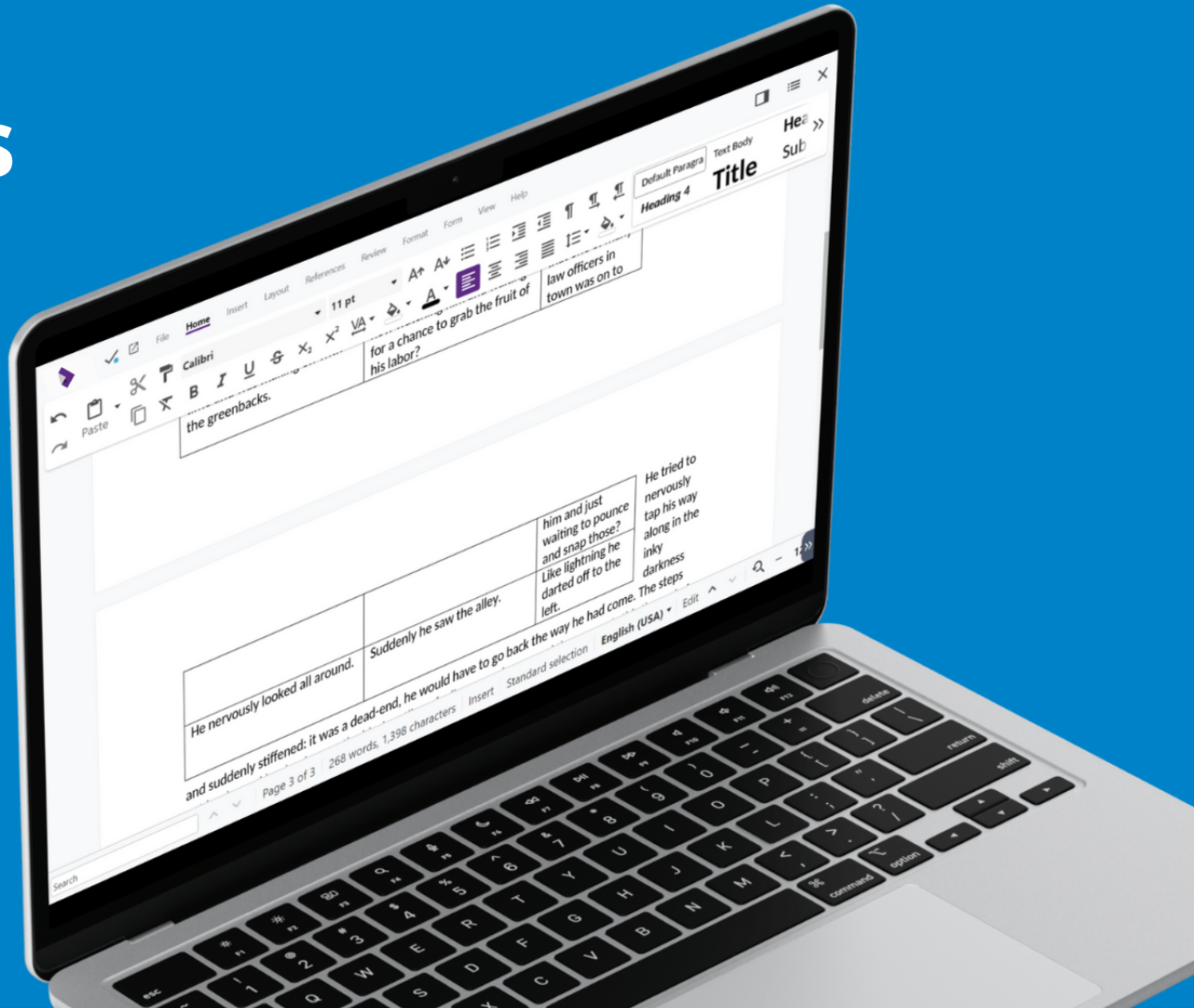
- Allows your tables to span content over multiple pages inside floating frames
- Preserving layouts across platforms

1. Usability

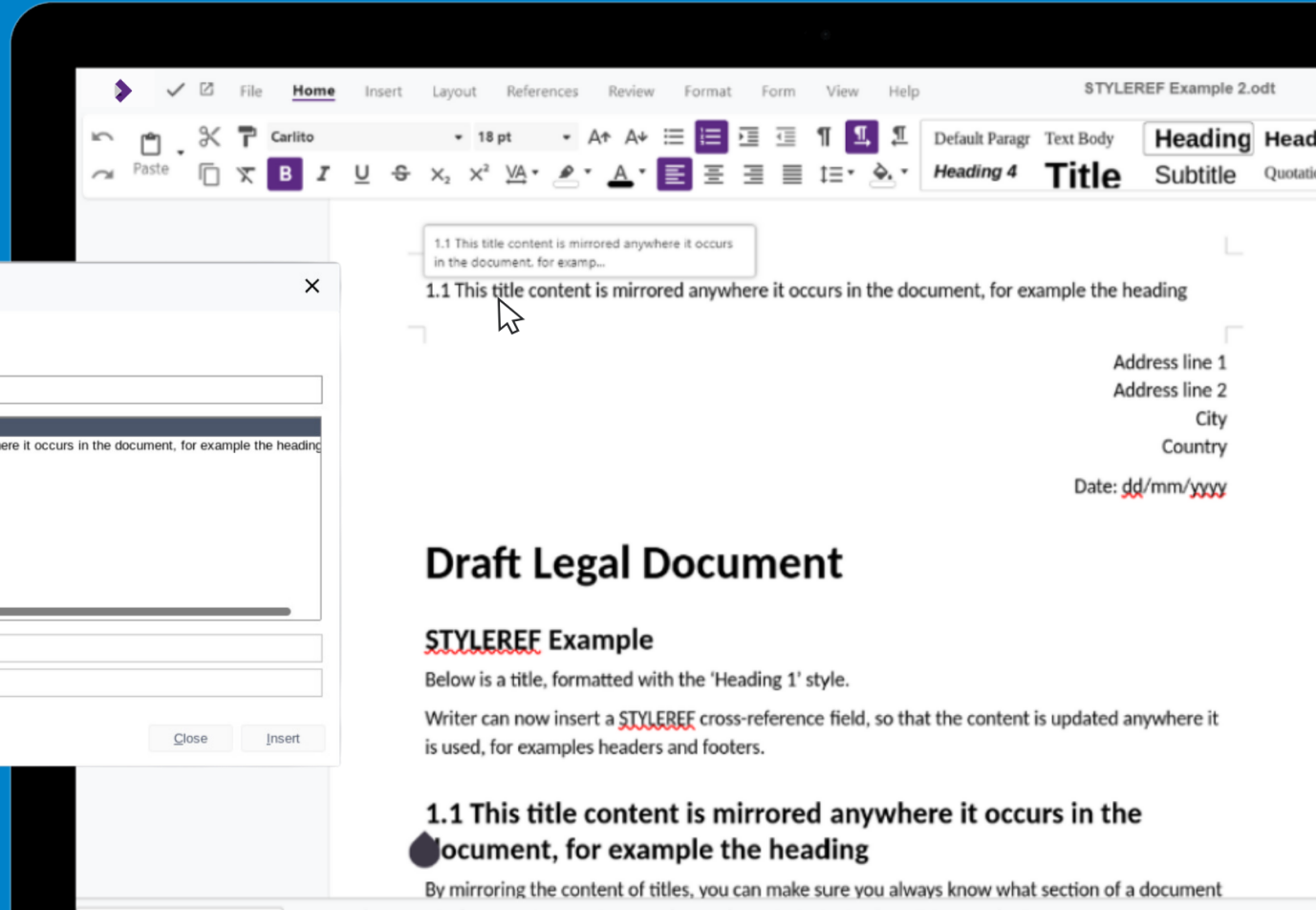
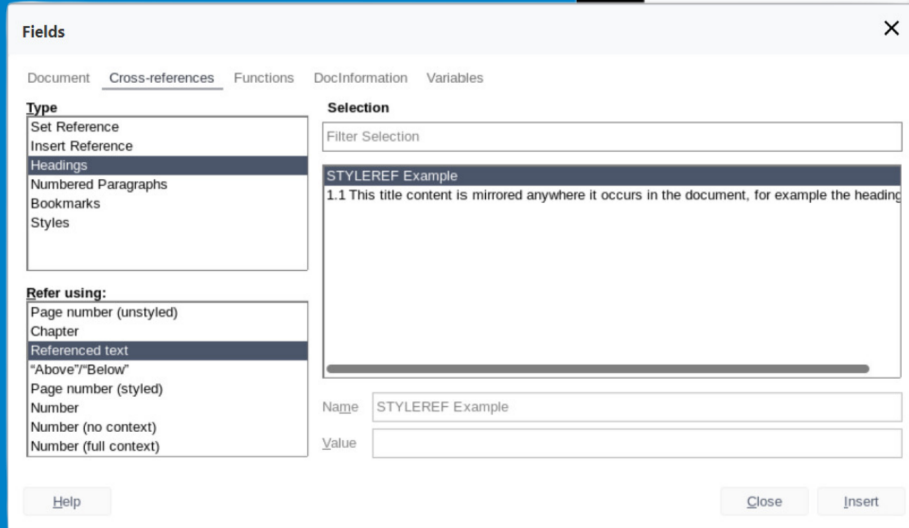
2. New features

**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**

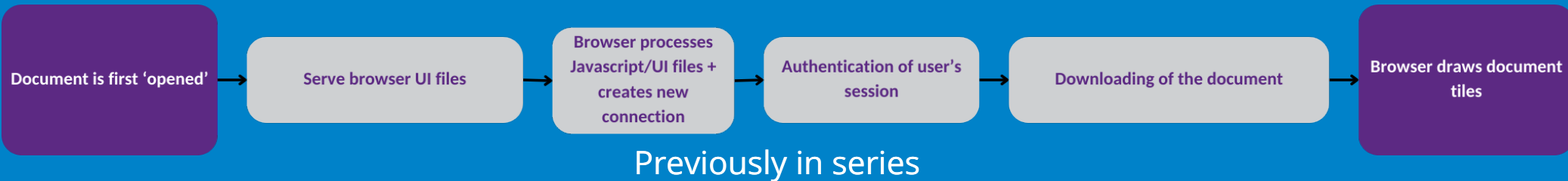
4. Performance

# 4. Performance

1. Usability
2. New features
3. Interoperability

## 4. Performance

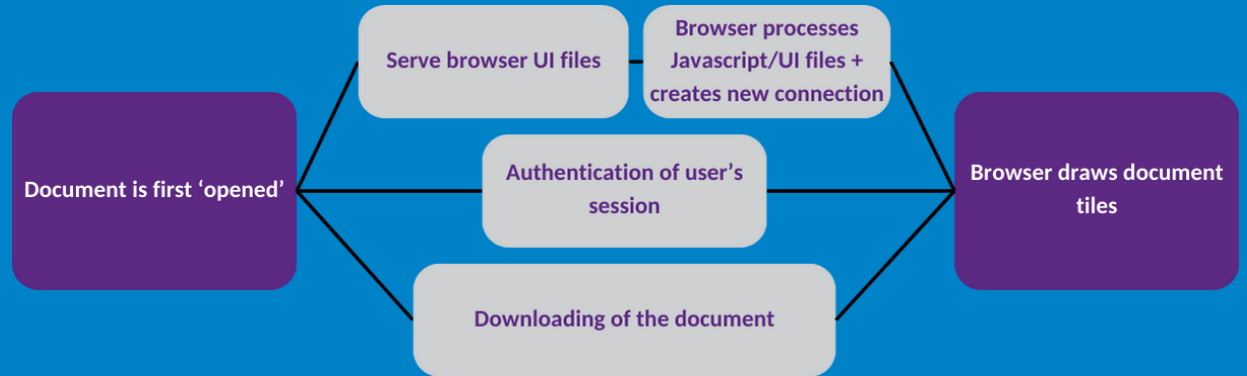
# 2x Faster Document Loading



Carrying out processes in parallel to halve load times

1. Usability
2. New features
3. Interoperability

## 4. Performance



# 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

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**4. Performance**

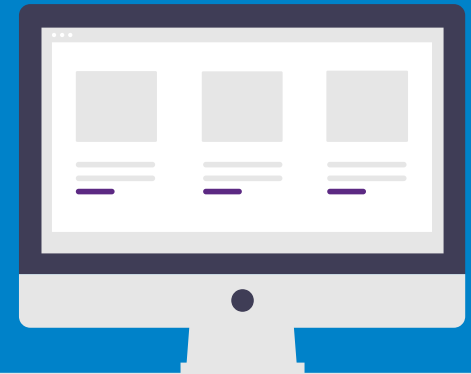
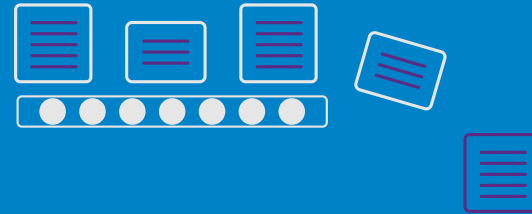


# Improved threading in Calc

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

1. Usability
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## 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