The Latest Office Features in Nextcloud Hub

Michael Meeks (Collabora Productivity)

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Michael Meeks

General Manager, Collabora Productivity

Founder, The Document Foundation

25+ years of Open Source contribution
SmartPicker

Pick Smartly!
secure and compliant file sync and share solution on servers you control.

With Nextcloud Hub you can:
- Sync and share all your files and documents from all your devices.
- Communicate with other via chat, audio or video calls.
- Manage access and share your calendars.

Smart picker

Select a link provider

- GitHub issues, pull requests and comments
- GIF picker (by Giphy)
- Files
- Collective pages
- Deck boards, cards and comments
- GitLab repositories, issues and merge requests
- Mastodon people, toots and hashtags
Smart Picker: Deep linking into documents

A uniquely powerful integration ...
Nextcloud Office
Bringing self-hosted online office to everybody

Collabora Online
Your own private office suite in the Cloud
Collabora Online is a powerful, collaborative office suite that supports OpenDocument, Microsoft and Apple iWork file formats. It runs on your existing infrastructure, is easy to deploy and integrates seamlessly with your email system. Collabora Online provides a powerful collaborative office suite that works on your desktop or in your web browser.

Why Nextcloud Office?

Nextcloud Office is built together with Collabora Productivity. Nextcloud Office is a powerful online office suite with collaborative editing. It supports all major document, spreadsheet and presentation file formats and works in all modern browsers.

- High fidelity WYSIWYG
- Data under your control
- Well integrated
Meeting notes – 2023-03-17

Participants: Christine Schott, Leon Green, Nina Sun, Sandra McKinney

Location: Meeting room, Main Office, Berlin, Germany

Agenda

- Release marketing
- Feature status
- Keynote

Action Items

- Take screenshots @Christin
- Record videos

Christine Alberts
Christine Schott
Thanks to our community

Now even more document templates with Hub 5
Extra fonts

Upload extra font file

Available fonts

AnonymousPro-Bold.ttf  Lorem ipsum
AnonymousPro-Italic.ttf  Lorem ipsum
AnonymousPro-Regular.ttf  Lorem ipsum
CutiveMono-Regular.ttf  Lorem ipsum
MajorMonoDisplay-Regular.ttf  LOREM IPSUM
Museo Sans W01 Rounded 300.ttf  Lorem ipsum
OpenSans-Italic-VariableFont_wdth_wght.ttf  Lorem ipsum
OpenSans-Light.ttf  Lorem ipsum
RobotoMono-Italic-VariableFont_wdth_wght.ttf  Lorem ipsum
SourceCodePro-Italic-VariableFont_wdth_wght.ttf  Lorem ipsum
You can now see a preview of fonts to see what they look like before selecting it in the drop down box.
Impress supports hiding and showing slides on the Slide Pane by right clicking and choosing ‘Hide Slide’ or ‘Show Slide’. They will then shown or hidden throughout the full screen presentation.
Typographical Editing

New optional hyphenation settings are available to give rules for adjusting text flow. You can now limit hyphenation within paragraphs, set a minimum word length for hyphenation and opt to not hyphenate the last word of a paragraph.

Thanks to László Németh, NISZ.
Change Tracking in Numbered Lists

When making changes within numbered lists, the numbering has now been fixed to show actual and original numbers within the document.

Thanks to László Németh, NISZ.
Table Style Design

You can now modify table styles and create new ones in Impress and Draw. Modified styles are saved into documents, and can be shared via templates. You can access this function by right-clicking on a design in the Table Design Sidebar panel.

Thanks to Maxim Monastirsky
QR code generation

Bringing the existing LibreOffice technology's QR code functionality to your browser:

Thanks to Shubham Goyal and Google Summer of Code
Accessibility Features

Bringing the goodness to everyone
Keyboard Accelerators

Clearer overlays.

A better toolbar and overlay functions have been added to the keyboard accelerator function. Holding down the ‘Alt’ key will highlight options for learnability.
Screen readers can now access menus, toolbars and dialogs. Many more of our ~thousand dialogs are rendered on the client side using Javascript, HTML widgets with WebARIA annotation.

A complex example Javascript dialog

Collabora Online
Navigator functionality will now be viewable in the sidebar, allowing you to jump to each section by simply clicking the headings.
Initial Screen

Reading support

Designed to assist users with visual impairments, this feature will unlock a world of possibilities, ensuring everyone can participate fully in online collaboration.

This is an initial proof of concept, that will be developed through the 23.05 lifetime.
Screen reading for (nested) tables

Giving users row/column count, indexes as they navigate and span information, leaving tables.

Handling nested tables too.
Dark Mode + View Settings

Accessibility and more options.

Per view settings, allows us to render views differently – including various options such as showing non-printing characters or spell checking underlines in different views, in addition to Dark Mode.
Built in Accessibility checker

Discover and fix accessibility problems in your documents before publishing them, and before your users suffer them.
Collabora Online 22.05

Collabora Online is the powerful, enterprise-ready and 100% Open Source Office suite. Collabora, a leading developer of LibreOffice supported editions, has brought LibreOffice to the web.

With Collabora Online you now have access to a powerful, enterprise-ready and 100% Open Source Online Office suite functionality, with excellent support for all popular office file formats and collaborative editing features.
PDF/UA Export

Generating accessible PDFs.
Tagged PDF, PDF forms, Universal Accessibility for PDFs, and many more options when exporting available in last year.
EPUB Export

Generating electronic books.

Ideal for accessible book readers, as well as many other use-cases.
Performance wins

Better, faster, smaller, snappier
A faster, slicker experience

Profiling, and improving things on the 23.05 base

- Memory trimming on idle: cleans caches and frees up memory
- Swap out compressed image data as well as uncompressed
- Faster load of large spreadsheets
- Significantly reduced re-rendering (even more pending)
- Style re-thumbnailing redux

- Improved tile pre-loading (with more caching work queued)
- Clamp over-sizing of threads
- Accelerated transparent text rendering
- Avoid background whole document renders
- RLE tile encoding (pending)
Memory Optimization

Less memory used effectively.

Run-length encoding delta cache makes it far smaller and faster to use. Compressed image data swapping to reduce footprint. Trimming caches & allocators on idle. Larger compressed browser-side tile cache. Monotonic timestamp cache synchronization & expiry.
CPU Optimization

Saving power, and going faster.

Performance Tuning

Much faster for many operations – for example – multiple users to join a shared Writer document and scroll through a long, heavy Writer document.
Performance Tuning

Reduced time to load graphic heavy Impress slide decks, and comment heavy Calc spreadsheets.
New Interoperability Features
Multi-Stop Gradients

Improved rendering

The renderer has been enhanced and can now handle even more complex gradients. You can now turn up the visual appeal of your document by incorporating multi-stop gradients into shapes, borders, and other elements.
64bit Zip Support

Handling huge data sets.

The Zip64 standard extends numerous internal limitations in the XLSX and ODS formats used to compress documents. Editing and working with huge spreadsheets is now possible.
### Compact Pivot Tables

Calc spreadsheets

Preserve the compact view and layout of Pivot Tables created in Excel with a more compact layout avoiding the possibility of incorrect cell references.

<p>| | | | |</p>
<table>
<thead>
<tr>
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<tbody>
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<td>H</td>
<td>I</td>
<td>J</td>
<td>K</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Sum of Value</th>
<th>Row Label</th>
<th>Total Result</th>
</tr>
</thead>
<tbody>
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<td>31</td>
</tr>
<tr>
<td>bbbb</td>
<td>ddx</td>
<td>10</td>
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<td>cccc</td>
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<tr>
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<td>3</td>
</tr>
<tr>
<td>ccc</td>
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<td>3</td>
</tr>
<tr>
<td>Total Result</td>
<td>40</td>
<td>41</td>
</tr>
</tbody>
</table>
Document Themes

Controlling branding.

Document themes can be configured and applied to a whole document to easily change and repurpose the appearance, giving it a consistent style and branding.
Multi-page Floating Tables

Significantly improves interoperability with tables that have been accidentally floated by users, and that span multiple pages.

Lots of mis-designed Government forms – where tables are used for rendering borders are improved, and rendered better.
Complex DOCX document with several floating tables: bad, good and reference
Extra fonts

Upload extra font file

Available fonts

<table>
<thead>
<tr>
<th>Font Name</th>
<th>Sample Text</th>
</tr>
</thead>
<tbody>
<tr>
<td>AnonymousPro-Bold.ttf</td>
<td>Lorem ipsum</td>
</tr>
<tr>
<td>AnonymousPro-Italic.ttf</td>
<td>Lorem ipsum</td>
</tr>
<tr>
<td>AnonymousPro-Regular.ttf</td>
<td>Lorem ipsum</td>
</tr>
<tr>
<td>CultiveMono-Regular.ttf</td>
<td>Lorem ipsum</td>
</tr>
<tr>
<td>MajorMonoDisplay-Regular.ttf</td>
<td>Lorem ipsum</td>
</tr>
<tr>
<td>Museo Sans W01 Rounded 300.ttf</td>
<td>Lorem ipsum</td>
</tr>
<tr>
<td>OpenSans-Italic-VariableFont_wdt</td>
<td>Lorem ipsum</td>
</tr>
<tr>
<td>OpenSans-Light.ttf</td>
<td>Lorem ipsum</td>
</tr>
<tr>
<td>RobotoMono-Italic-VariableFont_w</td>
<td>Lorem ipsum</td>
</tr>
<tr>
<td>SourceCodePro-Italic-VariableFo</td>
<td>Lorem ipsum</td>
</tr>
</tbody>
</table>

Make sure to set this URL: https://tech-preview.nextcloud.com/apps/richdocuments/settings/fonts.json in the coolwsd.xml file of your Collabora Online server to ensure the added fonts get loaded automatically.

<remote_font_config>
  <url desc="URL of optional JSON file that lists fonts to be included in Online" type="string" default="">https://tech-preview.nextcloud.com/apps/richdocuments/settings/fonts.json</url>
</remote_font_config>
New Usability Features
Ergonomic Improvements

**Example** a simple dialog to insert page numbers:

Combining inserting the required headers, footers, and page number fields into a single, easy to use, familiar dialog for users.

Featuring all the common alignment options, support for a variety of languages, and a preview.
Reference Management & Bibliographic Data with Zotero

Browse all the existing records of your Zotero library - insert, remove, and refresh references, citations, and notes, or automatically generate bibliographies.
U.S. Department of Housing and Urban Development

Month, Year

TBD
AI Grammar Checking

With LanguageTool & DUDEN

Translating text with DeepL inside a Writer document is as easy as selecting it, clicking the “Translate” button and choosing the target language from dialog.
AI Based Translations

Translating text with DeepL inside a Writer document is as easy as selecting it, clicking the “Translate” button and choosing the target language from dialog.
1.6 Points of Contact

1.6.1 Information

Provide a list of the points of organizational contact (POCs) that may be needed by the document user for informational and troubleshooting purposes. Include type of contact, contact name, department, telephone number, and e-mail address (if applicable). Points of contact may include, but are not limited to, helpdesk POC, development/maintenance POC, and operations POC.

1.6.2 Coordination

Provide a list of organizations that require coordination between the project and its specific support function (e.g., installation coordination, security, etc.). Include a schedule for coordination activities.
Video Embedding

Include videos in your slides.

Embedding the content of your videos, ensures a smooth, advert-free presentation at the right time.
Built with LibreOffice technology

Rich, interoperable, collaborative editing, everywhere.
Get involved ...

Many features at the interface
Lots of low hanging fruit – easy to fix
Collaborative development
Weekly public calls – all welcome

Thanks for the support of the Nextcloud Community

Shared vision
Open-source
Full-feature, productivity for your teams
Office for the Free World.
On-premise, no compromise in control

https://collaboraonline.github.io/
Thank you!

Michael Meeks
General Manager
Collabora Productivity
@michael_meeks