

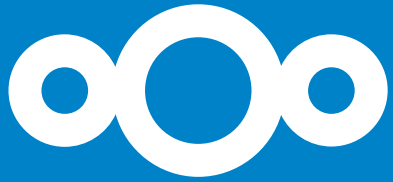


Contributing to Collabora Online (Nextcloud Office)

Michael Meeks (Collabora Productivity)

September 16 -17, 2023 ▪ Berlin, Germany





What is what: Collabora Online

Collabora Online

- Powerful Office suite that supports all major document, spreadsheet and presentation file formats, which you can integrate into your own infrastructure.
- LibreOffice Technology: <https://col.la/lot>
- Key features are collaborative editing and excellent office file format support
- 10 years of experience. 45+ Staff. 230+ partners. 60 countries col.la/partners

Collabora Productivity

- Parent company: Collabora
- Our mission statement is to “Make open source rock”
- Provides you the powerful on-premise office suites, for both online and desktop solutions
- Access documents, author new content and work collaboratively.

Community contributors - 12 months

Thank you for your contribution!

genofire, Andreas Kainz, Adolfo Jayme Barrientos, Matthaiks, Ihor Hordiichuk, Yaron Shahrabani, Sebastiaan Veld, Martin Srebotnjak, gallegonovato, Milo Ivir, Stanislav Horáček, Rob Pearson, Sveinn í Felli, Patrick Luby, Michael Stahl, SC, Rizal Muttaqin, Ayhan Yalçınsoy, Andreas Kainz, Alex Gabilondo, Andi Chandler, Nathan, Luna Jernberg, codewithvk, Julius Härtl, Joan Montané, Balázs Varga (allotropia), Translator-3000, Parth Raiyani, Oğuz Ersen, Flavio F. M, Fatemeh Komeily, Andika Triwidada, Alexander Gabilondo, Tushar, Tex2002ans, Nguyễn Hoàng Minh, Maks Wolkowinski, Ettore Atalan, ERYpTION, 이정희, Bayram Çiçek, Erop Ермаков, tygyh, Sabri Ünal, Leif-Jöran Olsson, Jörg S, Jérôme Herbinet, HM, HerMin, Gontzal Manuel Pujana Onaindia, Gabriel Masei, Federico Rispo, Besnik Bleta, Ali Elminia, Влад, Thomas Lehmann, Subham Jena, Sargon-Isa, Salif Mehmed, Roman Kirilenko, Reza Almanda, Ram, Ralf Becker, Quentin Pagès, Pouya Mozaffar Magham, Miloš Šrámek, liimee, J. Lavoie, Jean Mareilles, inductor, Herve FARNER, Harsh Gohel, hanswang123456, Hannah Meeks, Hamid Mir-Mostafa, Giacomo Bertolotti, George Kitsoukakis, FedericoHeichou, Eric, Eda, Dave Conroy, Cosmin Humeniuc, Cosmin, Christopher Gladman, ChrisGlad, ButterflyOfFire, bittin1ddc447d824349b2, Andrej Shadura, Allan Nordhøy

Plus LibreOffice Technology contributors - 1400 individuals to the code alone last 10 years ...

Nextcloud / Richdocuments thanks:

Visible from the git logs:

Julius Härtl, Raul, Julien Veyssier, Marcel Klehr, Joas Schilling, Raul Ferreira Fuentes, Andras Timar, Valdnet, Christian Wolf, Simon L, Jérémie Tarot (@silopolis), Szymon Kłos, sharonwuu, max-nextcloud, John Molakvoæ, Joas Schilling, Gökay Şatır, sharonwuu, raul, Pranam Lashkari, MaysWind, Luka Tropic, Jonas, Jeremy Barthe, Grégory Marigot, gitsan13, Darshan-upadhyay1110, Caolán McNamara, Arthur Schiwon, Andrii Ilkiv

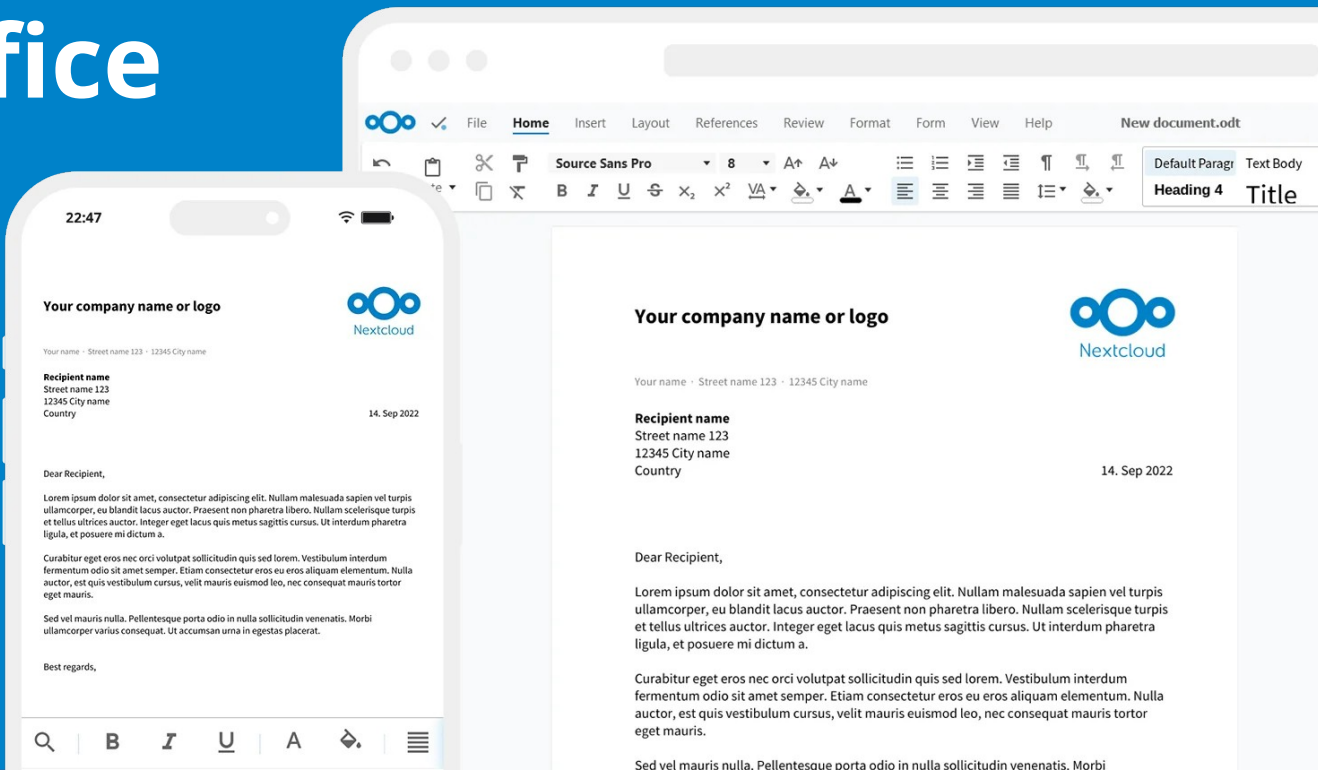
With design from: Jan Borchardt, Pedro Silva

Thanks for understanding how the future is built !

**THE FUTURE BELONGS
TO THE FEW OF US
STILL WILLING TO GET
OUR HANDS DIRTY.**



Nextcloud Office



Nextcloud Office

- Collabora Online + Nextcloud
 - 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.
 - Open Source spirit with partners = benefits upstream to everyone
- Joint effort
 - Nextcloud Office is built together with Collabora Productivity.
 - Thanks to

Overview: Nextcloud Office

- Get Nextcloud server
 - Storage / Authentication / Aweseomness
- Build richdocuments
 - PHP connector NC ↔ COOL – WOPI-like protocol
- Build Collabora Online → will run in an iframe
 - Post messages are the way to interact and extend

Three ways to get a Nextcloud integrated development setup easily

NC server + richdocuments → Apache

- Nextcloud server
 - Clone NC server: <https://github.com/nextcloud/server>
 - Initiate git submodules
- Richdocuments:
<https://github.com/nextcloud/richdocuments>
 - Clone richdocuments into 'apps' directory and make sure npm and Node.js are installed (needed for JS dependencies)
 - npm ci (only needed once after you git clone)
 - npm run dev (needed every time you pull different patch etc.)
 - You might encounter errors, read the logs and installed any missing packages
- Into web server's directory
 - /var/www
 - /var/www/html
 - /srv/http
- Check what is the Apache user and group
 - http
 - www-data
 - apache
 - wwwrun

NC server + richdocuments → Docker

- Requirements

- Install docker: <https://docs.docker.com/engine/install/ubuntu/>
- `systemctl start docker`
- Pull image: `sudo docker pull nextcloud`
- https://hub.docker.com/_/nextcloud
- <https://www.collaboraoffice.com/code/quick-tryout-nextcloud-docker/>

- Start and hack

- `sudo docker run -d -p 80:80 nextcloud`
- `docker rename OLD_name ncmaster`
- `docker run --name=ncmaster -d -p 8080:80 nextcloud`
- `0.0.0.0:80`

- Accessing docker

- `docker exec -it ncmaster bash`
- `apt upgrade`
- `apt install npm git`
- Delete default 'richdocuments':
`/var/www/html/custom_apps/richdocuments`
- Clone
`https://github.com/nextcloud/richdocuments.git`
into `custom_apps`
- `npm ci`
- `npm run dev`


NC server + richdocuments → PHP

Built-in web server

- Requirements
 - PHP compiler.
 - The PHP modules Nextcloud requires.
 - More info at:
<https://www.php.net/manual/en/features.commandline.webserver.php>
- Steps
 - Clone richdocuments into 'apps' directory and make sure npm and Node.js are installed (needed for JS dependencies)
 - npm ci (only needed once after you git clone)
 - npm run dev (needed every time you pull different patch etc.)
 - You might encounter errors, read the logs and installed any missing packages

Building and working on Collabora Online

Collabora Online

- Head over to the community website: **<https://col.la/io>**
 - Click in “Build Collabora Online”
 - Choose your OS, e.g.: Ubuntu
 - Follow the steps
 - Also available building instructions for Android and iOS
- Don't have your development environment? Do not want to go through the building steps?
 - No problem :)  [Open in Gitpod](#)

Contribute: Collabora Online

Collabora Online

- [GitHub/CollaboraOnline/online](https://github.com/CollaboraOnline/online)
- Main repository
- C++, Javascript, Typescript, CSS

Collabora Online SDK Examples

- [GitHub/CollaboraOnline/collabora-online-sdk-examples](https://github.com/CollaboraOnline/collabora-online-sdk-examples)
- Learn from examples and share your own.
Build around Collabora Online
- DOCS: sdk.collaboraonline.com

Community websites

- [GitHub/CollaboraOnline/CollaboraOnline.github.io](https://github.com/CollaboraOnline/CollaboraOnline.github.io)
 - Help the others: Hugo, CSS, JS
- [Forum.CollaboraOnline.com](https://forum.collaboraonline.com)
 - Help the others: Answers
- Testing, Bug reporting and **translating**



Your guide to becoming a contributor

- [CollaboraOnline.github.io](https://collaboraonline.github.io): How to build, report, translate, meetings, etc.
- [GitHub/CollaboraOnline/online/blob/master/CONTRIBUTING.md](https://github.com/CollaboraOnline/online/blob/master/CONTRIBUTING.md) : Similar info also right from the main repository
- [Forum: Your-first-pull-request](https://forum.collaboraonline.com)



hosted.weblate.org/projects/collabora-online/

Hosted Weblate Dashboard

Collabora Online translated 58%

Components Languages Info Search Insights Files Tools Watching

Manage Share

Component	Translated	Unfinished	Unfinished words	Checks	Suggestions
Alfresco: aca-extension <small>MPL-2.0</small>	76%	22	78		
Alfresco: collabora-share-extension <small>MPL-2.0</small>	78%	10	30		
Alfresco: web-extension: site-webscripts <small>MPL-2.0</small>	76%	11	66		
Alfresco: web-extensions: messages <small>MPL-2.0</small>	71%	67	254		
Android app <small>MPL-2.0</small>	72%	1,859	6,219	58	5
Android lib <small>MPL-2.0</small>	71%	359	2,258	41	1
App Store Descriptions <small>MPL-2.0</small>	64%	33	262	2	
Help <small>MPL-2.0</small>	55%	16,190	248,800	789	
iOS app <small>MPL-2.0</small>	80%	60	151	10	
UI <small>MPL-2.0</small>	58%	14,945	67,535	450	58
Welcome message (django)	48%	625	5,351	28	2

Hosted Weblate Dashboard

Collabora Online / Android app / Portuguese (Brazil) / Translate translated 97%

Unfinished strings state: <translated> Position and priority 1/1

Translation

English **Key_pref_user_name**

User Name

Portuguese (Brazil)

Needs editing

Save and continue Save and stay Suggest Skip

Things to check

Suggestions

There is 1 suggestion for this string.

View

Glossary

English Portuguese (Brazil)

No related strings found in the glossary.

Add term to glossary

String information

Screenshot context

Theme

Choose theme System default

Editor Settings

User Name Used when adding a comment

Chrome Debugging Enable to use Chrome's debugging tool in the browser

Nearby strings 11 Similar keys 10 Suggestions 1 Other occurrences 1 Comments Automatic suggestions

Other languages 60 History

Translation memory Search

Translation	Source	Origin	Similarity	
Nome do Utilizador	User Name	DeepL		Copy Copy and save
Nome do usuário	User Name	Microsoft Translator LibreTranslate		Copy Copy and save
Nome de usuário	User Name	Google Translate		Copy Copy and save

SDK examples repository: 1st steps

PostMessage test harness

Run python InsertText.py script

Click [here](#) to insert the following text into the document:



Run Capitalize.py script

Click [here](#) to capitalize selected text in the document.

Various other messages to post

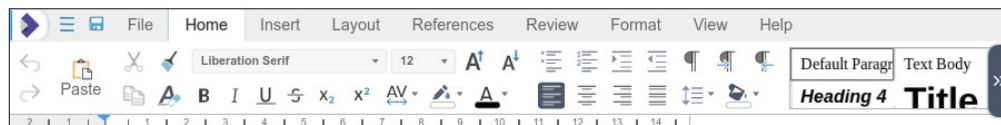
Modified Status: **Saved**

UI modification

Document frame

If the frame fails to load click [here and accept security bits](#)

If the frame still fails to load ensure you have `localhost:*` included in your `net.frame_ancestors` in `coolwsd.xml`



The world of postMessages :

- Collabora Online uses a WOPI-like protocol to interact with hosts who want to integrate Collabora Online in them
- Play with the available SDK examples
- Build your own SDK example and share with other
- Build your own app around Collabora Online
- Once you have Collabora Online built you can play with the generated `framed.doc.html`



Analysis.odt

Rich Text Checkbox Dropdown Picture Date Properties

2023

CONF

One-pager team plan

About

The CONF provides IT professionals like project managers and decision makers the opportunity to define their own strategy to get the most out of their Content Collaboration Platform.

Location

Address: 123 Example Street

Collabora Online: better, digitally sovereign document collaboration - Michael Meeks

Collabora Productivity

TODO: Please [@Jacqueline](#) add your notes here per partner.

Propects - @j

Jack
 Jacqueline
 Jaime
 James
 John
 Julie

Project name - contact person

Date: 05/31/23

(Use the document forms bellow)

- 1st contact
- 2nd contact
- Contract
- Chase quarter goals

Gitpod walk-trough

Collabora Online case

- Online + LibreOffice Core
- Difficulties in getting started:
 - too old of a computer/minimal specs
 - 0 knowledge on sysadmin and/or setting up
- Also for people that have none of the above pro
 - Are on the go
 - Want to quickly test something
 - Want to quickly review a PR

Character
Paragraph

B *I* U ~~ABC~~ **A**

A Style Heading 1 >

A Font Name Carlito >

A↑ Font Size >

A Font Color ● >

Hack it, Make it yours while contributing :)



replacing 3rd party Microsoft/Google view.

Why?

Because I wanted a handy document viewer for my mails' attachments in Afterlogic and I refuse to use Microsoft's or Google's cloud based solutions for my personal documents. I also had a Collabora Code server running for online office purposes in my Nextcloud instance. Why not combine the two?



Disclaimer

I am no PHP developer and I hacked this together with zero deeper knowledge regarding Collabora. Please use at your own risk.

Links

Afterlogic - <https://afterlogic.org/webmail-lite>

Collabora CODE - <https://www.collaboraoffice.com/code/>

Collabora SDK PHP example (*heavily used in this hack*) <https://github.com/CollaboraOnline/collabora-online-sdk-examples/tree/master/webapp/php>



Hack it, Make it yours while contributing :), Thanks Pol, Markv9401, Andreas K, Vivek and many others!

[WOPI] Missing HTTP header X-WOPI-Lock when issuing a RENAME_FILE operation #3208

Closed drupol opened this issue on 8 Sep 2021 · 6 comments



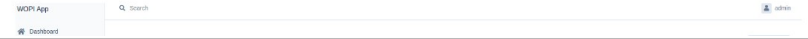
drupol commented on 8 Sep 2021 · edited

Describe the bug

Hello,

I'm trying to implement the WOPI protocol with PHP and Symfony. I also created a demo Symfony app to test those packages. This demo application has been published on Heroku at: <https://wopi-app.herokuapp.com/>

When I try to rename a document:



Include X-WOPI-Lock header to rename ...

✓ e394943



Ashod mentioned this issue on 13 Oct 2021

Include X-WOPI-Lock header to rename #3413

Merged



merttuner added a commit that referenced this issue on 14 Oct 2021



Include X-WOPI-Lock header to rename ...

026c341



Ashod commented on 15 Oct 2021

Member

This issue is fixed and should be available in the next release. Please reopen if the issue persists after testing (with a release post Oct 14th). Thanks!



Ashod closed this as completed on 15 Oct 2021

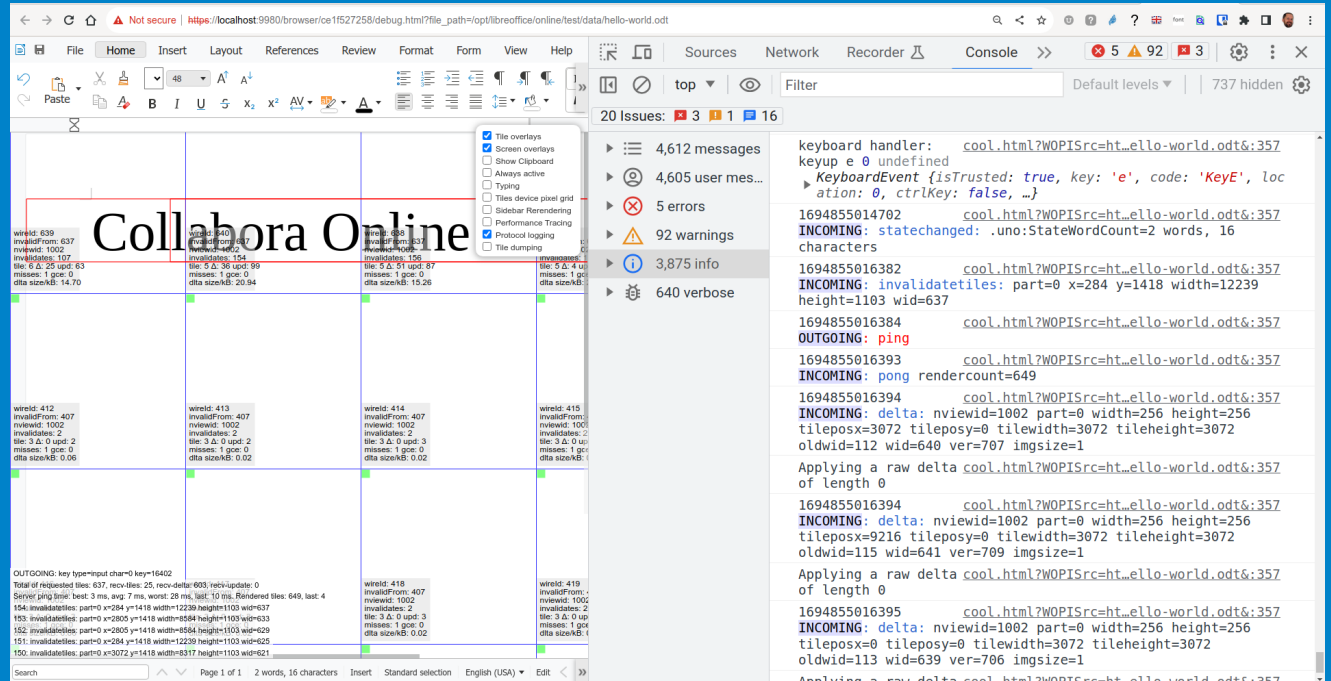


How to debug it

- Collabora Online
 - Debug: <https://col.la/debug/>
 - Build, Code, Translate, Report: <https://col.la/io/>
 - Missing something? Contribute: Hit the “Edit Page” at the bottom
- Nextcloud + CO = Nextcloud Office
 - Trouble shoot connectivity issues:
https://docs.nextcloud.com/server/stable/admin_manual/office/troubleshooting.html
 - Dev Docs: https://docs.nextcloud.com/server/latest/developer_manual/digging_deeper/debugging.html
 - Whole nextcloud directory with app development tutorials waiting for you:
<https://cloud.nextcloud.com/s/iyNGp8ryWxc7Efa?path=%2F1%20Setting%20up%20a%20development%20environment>
 - Richdocuments: get version from web console: “OC.getCapabilities().richdocuments.version”

Help → About → triple-click

- A palette of debugging tools:
 - re-rendering overlays
 - Protocol debugging
 - Server-side log / trace toggle



The screenshot shows a web browser window displaying the Collabora Online interface. A network debugging overlay is visible, showing a grid of wireframes and data for various network requests. The overlay includes a legend with options like 'Tile overlays', 'Screen overlays', and 'Always active'. The console log on the right shows 20 issues, including 4,612 messages, 4,605 user messages, 5 errors, 92 warnings, 3,875 info, and 640 verbose messages. The log entries include details about keyboard events, state changes, and ping/pong messages.

Browser address bar: https://localhost:9980/browser/ce1f527258/debug.html?file_path=/opt/libreoffice/online/test/data/hello-world.odt

Browser tabs: 5 (3 active), 92 warnings, 3 errors, 16 hidden

Browser menu: File, Home, Insert, Layout, References, Review, Format, Form, View, Help

Browser toolbar: Paste, Undo, Redo, Bold, Italic, Underline, Strikethrough, Text color, Background color, Bulleted list, Numbered list, Indent, Outdent, Link, Unlink, Table, Table of contents, Find, Print, Refresh, Stop, Back, Forward, Home, Reload, Search, Filter, Default levels, 737 hidden

20 Issues: 3 errors, 1 warning, 16 info

4,612 messages

4,605 user messages

5 errors

92 warnings

3,875 info

640 verbose

Collabora Online

Wirelog details:

- wireid: 639, invalidFrom: 637, nviewid: 1002, invalidated: 107, tile: 6 Δ: 25 upd: 63, misses: 1 gce: 0, dta size/kB: 14.70
- wireid: 640, invalidFrom: 637, nviewid: 1002, invalidated: 154, tile: 6 Δ: 36 upd: 99, misses: 1 gce: 0, dta size/kB: 20.94
- wireid: 688, invalidFrom: 637, nviewid: 1002, invalidated: 156, tile: 5 Δ: 51 upd: 87, misses: 1 gce: 0, dta size/kB: 15.26
- wireid: 412, invalidFrom: 407, nviewid: 1002, invalidated: 2, tile: 3 Δ: 0 upd: 2, misses: 1 gce: 0, dta size/kB: 0.06
- wireid: 413, invalidFrom: 407, nviewid: 1002, invalidated: 2, tile: 3 Δ: 0 upd: 2, misses: 1 gce: 0, dta size/kB: 0.02
- wireid: 414, invalidFrom: 407, nviewid: 1002, invalidated: 2, tile: 3 Δ: 0 upd: 3, misses: 1 gce: 0, dta size/kB: 0.02
- wireid: 415, invalidFrom: 1000, nviewid: 1002, invalidated: 2, tile: 3 Δ: 0 upd: 3, misses: 1 gce: 0, dta size/kB: 0.02
- wireid: 418, invalidFrom: 407, nviewid: 1002, invalidated: 2, tile: 3 Δ: 0 upd: 3, misses: 1 gce: 0, dta size/kB: 0.02
- wireid: 419, invalidFrom: 1000, nviewid: 1002, invalidated: 2, tile: 3 Δ: 0 upd: 3, misses: 1 gce: 0, dta size/kB: 0.02

OUTGOING: key type=input char=0 key=16402

Total of requested tiles: 637, recv-tiles: 25, recv-delta: 603, recv-update: 0

Server ping time: best: 3 ms, avg: 7 ms, worst: 28 ms, last: 10 ms, Rendered tiles: 649, last: 4

154: invalidatedtiles: part=0 x=284 y=1418 width=12239 height=1103 wid=637

153: invalidatedtiles: part=0 x=2805 y=1418 width=8584 height=1103 wid=633

152: invalidatedtiles: part=0 x=2805 y=1418 width=8584 height=1103 wid=629

151: invalidatedtiles: part=0 x=284 y=1418 width=12239 height=1103 wid=625

150: invalidatedtiles: part=0 x=3072 y=1418 width=8317 height=1103 wid=621

Console log:

```
keyboard handler: cool.html?WOPISrc=ht...ello-world.odt&:357
keyup e 0 undefined
KeyboardEvent {isTrusted: true, key: 'e', code: 'KeyE', loc
  ation: 0, ctrlKey: false, ...}
1694855014702 cool.html?WOPISrc=ht...ello-world.odt&:357
INCOMING: statechanged: .uno:StateWordCount=2 words, 16
characters
1694855016382 cool.html?WOPISrc=ht...ello-world.odt&:357
INCOMING: invalidatetiles: part=0 x=284 y=1418 width=12239
height=1103 wid=637
1694855016384 cool.html?WOPISrc=ht...ello-world.odt&:357
OUTGOING: ping
1694855016393 cool.html?WOPISrc=ht...ello-world.odt&:357
INCOMING: pong rendercount=649
1694855016394 cool.html?WOPISrc=ht...ello-world.odt&:357
INCOMING: delta: nviewid=1002 part=0 width=256 height=256
tileposx=3072 tileposy=0 tilewidth=3072 tileheight=3072
oldwid=112 wid=640 ver=707 imgsize=1
Applying a raw delta cool.html?WOPISrc=ht...ello-world.odt&:357
of length 0
1694855016394 cool.html?WOPISrc=ht...ello-world.odt&:357
INCOMING: delta: nviewid=1002 part=0 width=256 height=256
tileposx=9216 tileposy=0 tilewidth=3072 tileheight=3072
oldwid=115 wid=641 ver=709 imgsize=1
Applying a raw delta cool.html?WOPISrc=ht...ello-world.odt&:357
of length 0
1694855016395 cool.html?WOPISrc=ht...ello-world.odt&:357
INCOMING: delta: nviewid=1002 part=0 width=256 height=256
tileposx=0 tileposy=0 tilewidth=3072 tileheight=3072
oldwid=113 wid=639 ver=706 imgsize=1
Applying a raw delta cool.html?WOPISrc=ht...ello-world.odt&:357
```

LibreOffice Technology

- Collabora Online is built on the amazing LOT stack
- Join us, contribute to Collabora Online while improving LibreOffice



<https://www.libreoffice.org/community/get-involved/>
→ <https://col.la/lot>



Get on board the rocket ship





COOL days 2024

April 8th - 12th

<https://col.la/cooldays>



<https://col.la/easyhacks>



Nextcloud



Collabora
Online

Thank you!

Michael Meeks (Collabora Productivity)

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