Collabora Online & Nextcloud

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“Stand at the crossroads and look; ask for the ancient paths, ask where the good way is, and walk in it, and you will find rest for your souls…” - Jeremiah 6:16
Mission: Make Open Source Rock

Collabora Productivity
Free your business

The driving force behind putting #LibreOffice in the #Cloud.
Collabora Parent: eg. Monado / OpenXR – play later ...

Monado
- Founders & driving force behind FLOSS VR / XR
  - When the world goes this way
  - Vital to have an open-source runtime, stack, drivers & community.

Fun & Games for hackers on Linux
- Get involved
  - https://gitlab.freedesktop.org/monado
  - https://monado.freedesktop.org/
Recent Improvements
Significant Mobile & UX improvements
Blockchain / Vereign Integration

In co-operation with Vereign a Swiss open source company building a blockchain based self-sovereign identity and personal data store.

Thanks to Tomáž Vajngerl
Collabora Office Mobile - Q4
Native iOS version for tablets - with Adfinis

Co-Developed with Adfinis

• A great Collabora & Nextcloud partner!

So far in TestFlight

Thanks to:

Tor Lillqvist
Tomaž Vajngerl
Native iOS version for tablets ... with Adfinis

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Quite a story:

Buy Collabora Online, get a free iPad version thrown in free!
Online based Android app ...

Thanks to Tor Lillqvist, Jan Holesovsky, Kaishu Sahu (GSOC), Florin Ciornei, Gülşah Köse
Implemented for Collabora Online 4.2 (due Q4)
Mobile wins: eg. touch resizing handles
Sidebar in Writer, Calc and Impress

We need to support images too

So let’s have an image:

Oh, and shapes too:

let’s have an image:

so that we can select it, and do operations on that.

so that we can select it, and do operations on that.

so that we can select it, and do operations on that.

so that we can select it, and do operations on that.

This shape has some text inside, it is supposed to be selectable too.
Online / Widget theming implementation ...

Custom look & feel

- Custom SVG branding of individual widgets
- Building on native widget framework.
- ~easy to re-use for other platforms (volunteer?)

Thanks to: Tomaz Vajngel
The pieces you can’t see

Integration improvements

- Masses of new extensible API to embed Online into your application

Performance

- Loading time, dialog rendering time
- Improved PDF rendering
- Unipoll – code simplification.
- Profiling infrastructure

UX / infra changes

- Many new dialogs converted to async
- Multi-window focus re-work.

Security & Anonymization

- Anonymized logging
- 3rd party penetration testing

And much much more ...
Online – old-style copy/paste: text → CSV import dlg.
Afterwards (plus explicit chart copy)
Just the basics? Gdocs / Chrome comparison
Or: Office.com / Excel copy / paste ...
Significant performance work

Removing sillies, Threading ZIP compression

Thanks to:

- Noel Grandin
- Lubos Lunak
- Mike Kaganski
Interop: the best all-round implementation and constantly improving ...

A random feature: eg. bottom to top / left to right layout ...
Integration with Nextcloud wins – in last year
Lots of lovely new things …

RichDocuments goodness

- Federation & Global Scale
- Secure View + Watermarking UI
- Template selector
- Integrated preview support
- File Renaming support
- Improved UI: Avatars outside
- Version integration with NC sidebar
- Insert image from Nextcloud
- Improved admin / options
- Performance improvements

Mobile / iOS & Android – direct editing

- Embedding Collabora Online
- Native print & Save As support
- Rich copy/paste integration
- Hide fullscreen, improved idle

Thanks to

- Julius Härtl, Roeland Jago Douma, Marino Faggiana, Tobias Kaminsky
Easy sharing – close at hand ...
Collabora Online for thumbnailing
Don’t let your document data out of your site [sic]

- on your premise / Private network
- Virtual machine / Docker container
- Seccomp-bpf ~no sys-calls
- Extremely sparse filesystem
- Chroot per document
- Systematic load crash testing
- Industry beating coverity score
- LibreOfficeKit
- rendering instance
Secure View: Download + watermarks
Directly insert images easily
Getting it ...
Collabora Online & **CODE**...

Commercial bits are the hardest ... Thanks!

Service Level Agreement – keeping your documents on-line

Custom Integration – APIs, and work ...

Branding & Scarcity

- Brand – one of Collabora’s few concrete assets
  - All our code is open
  - Tastefully stating the truth: helps fund development & grow all commercial versions.
Oh, that my words were recorded, that they were written on a scroll, that they were inscribed with an iron tool on lead, or engraved in rock for ever! I know that my Redeemer lives, and that in the end he will stand upon the earth. And though this body has been destroyed yet in my flesh I will see God, I myself will see him, with my own eyes - I and not another. How my heart yearns within me. - Job 19: 23-27

Conclusions

- Our mission applied
- Great improvements in a year; more to come ...
- All paid for by our Customers & Partners
  - can’t do anything without them
- All executed alongside the community
  - Without you, it couldn’t be done & it wouldn’t be fun.
- Branding one of our only assets:
  - please credit us when you talk Online
- Checkout CODE
- Hiring – Marketing, Sales, JS ?!