# **Collabora Online &** LibreOffice

Michael Meeks

CEO, Collabora Productivity





"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







- ~150 staff, Cambridge
   & Montreal
- Our parent company started in 2005
- Leading Open Source Consultancy

- Spun out of SUSE in 2013
- ~50 staff
- Focused fully on office productivity & digital sovereignty
- ISO 9k1 & 27k certified





# Collabora's mission:

# Make Open Source ROCK



#### Shared mission / raison d'etre:

- Make Open Source rock
- This is the goal of our shareholders

#### What does that mean?

- We re-invest your support into FLOSS software, and into our partners
- All our code is open
- Organic & Self funded:
  - no magic money tree
  - have to find & fix problems

#### **Our Products**



- Digital Sovereignty
  - "Secure Document Collaboration, Controlled by You"
- Develop, support, maintain, sustain
  - Built with LibreOffice technology
  - Highly scalable, interoperable, collaborative editing, in your browser
  - SLA & Level 3 code-fix support
  - Product Management interaction
  - Go-to market via partners



- Branded version of LibreOffice
  - Foundation for Online
  - Annual release eg. CO 2023.05
  - PC / Mac / Linux



- Consultancy & Support services
  - Bespoke consultancy or
  - Pre-paid, fixed-price L3 bugpacks

~25% of business





**Collabora Online** Collabora Productivity Built with LibreOffice technology Rich, interoperable, collaborative editing, everywhere

# ~105 million docker image downloads

# Support in numbers ...

- Around ~800 support tickets per year opened
  - And then closed.
- Under ~30 open in the pipeline concurrently
  - Receiving clarification / feedback.

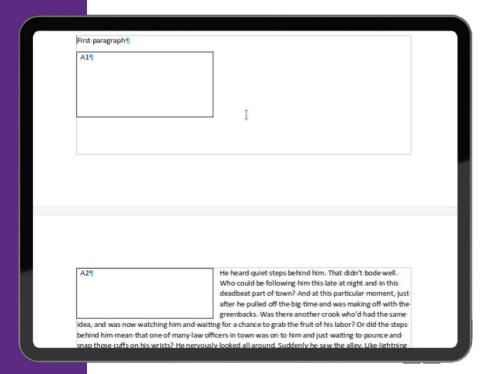


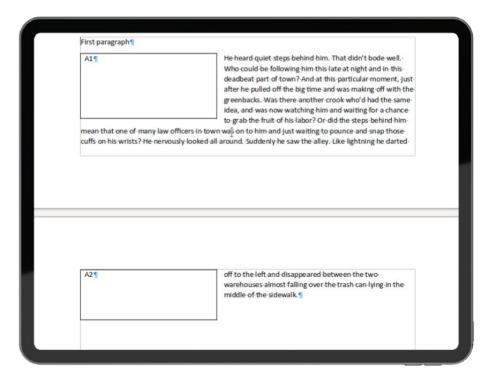


# What have we been doing?

Lots of improvements since last year!

# **Multi-page Floating Tables**





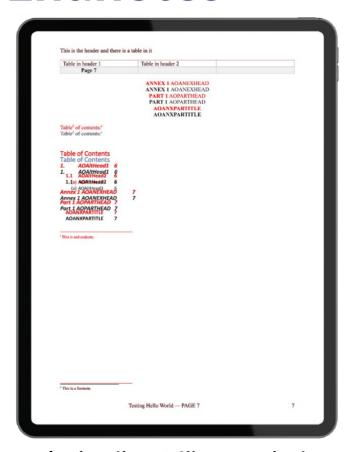




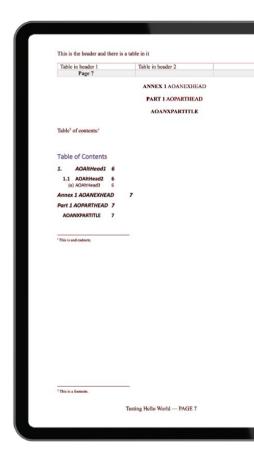
Before (left) After (right)

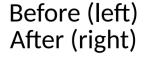
#### **Continuous Endnotes**

- Better support for continuous / inline endnotes
- Improved interoperability



Black: LibreOffice rendering Red: Reference rendering

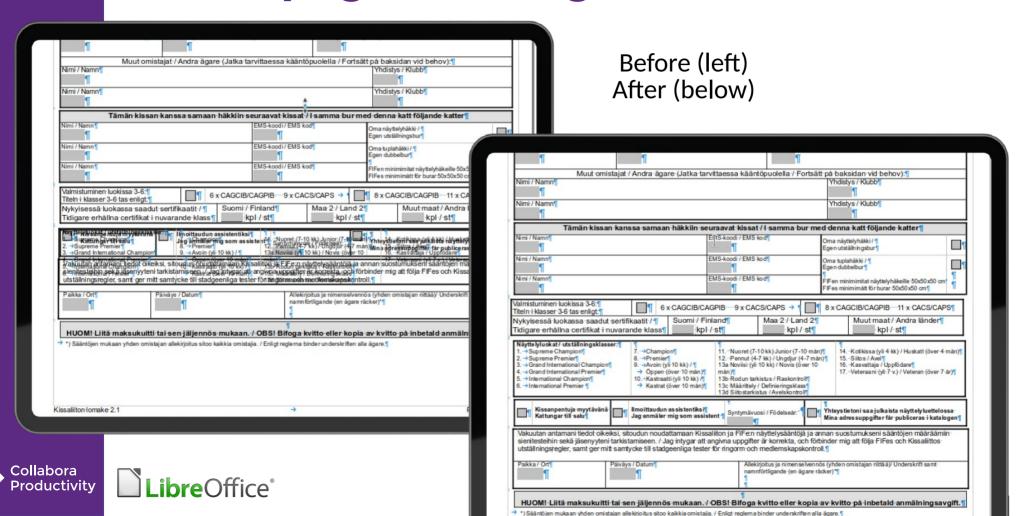






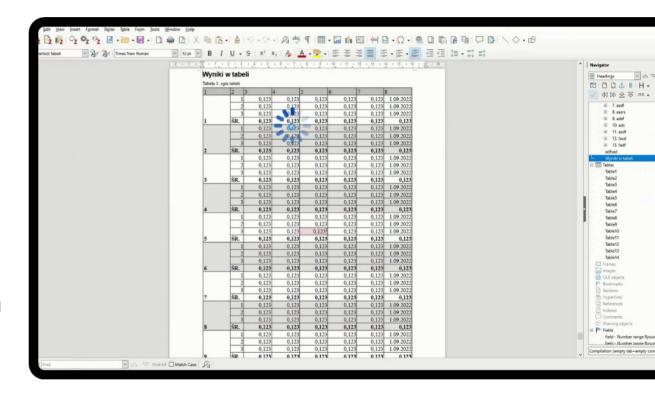


# **Multi-page Floating Tables**



#### ~100x Faster Tables

- Incorrect layout produced for tables with merged cells split over pages
- Would hang pasting cells up to 2 minutes
- Now opens with no lag

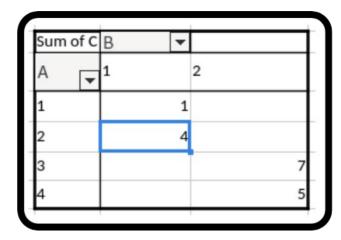




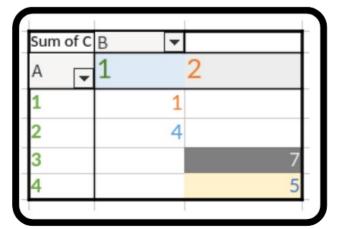


# **Improved OOXML Pivot Tables**

- Pivot tables now show cell formatting
- Survives round trip import/export



Before (above) After (below)

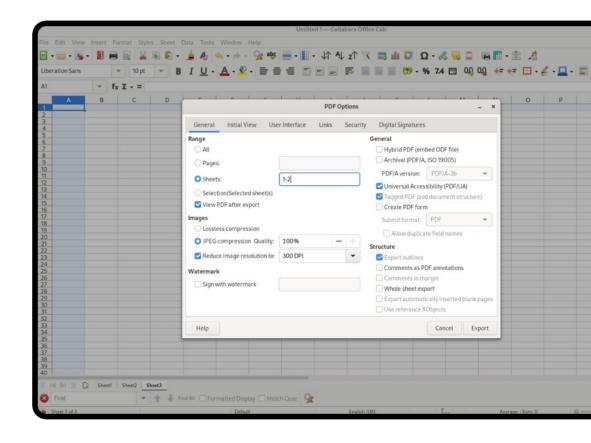






# **Export sheet range**

Further improvements to powerful export options



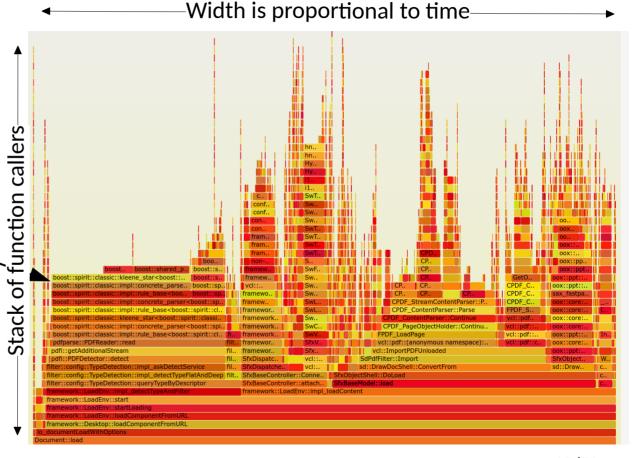




# Long Running Demo Profiles: A Week

# What does it mean?

- 17% of a week of profiling:
- Detecting: "is it a Hybrid PDF"?
- Unbelievably wasteful
- Get and analyze these weekly

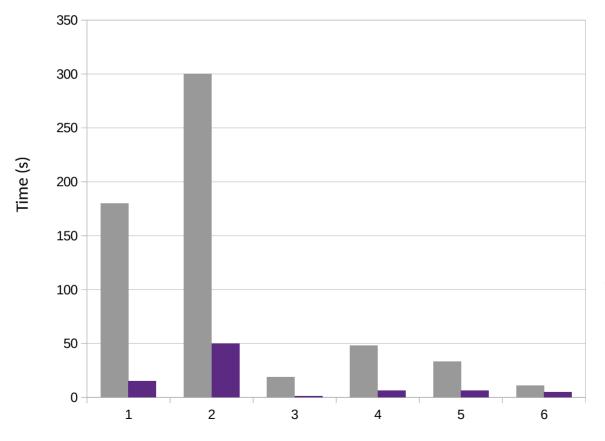








# **Performance Tuning**



 Use less GetItemSurrogates in SwTable::UpdateFields

Speeds up loading a large document with lots of nested tables from several minutes to under 15s

2) tdf#152104 speed xls->ods convert part 1

We now have 16k columns, so storing a flat array of columns where most of them are empty is bad for performance

Rather store a sorted data-structure of all the ranges, reduces time from **over 5** mins to ~50s

) tdf#161210 speed xls load

Instead of applying row styles to all 16384 columns, only apply them to columns that have data

That takes the load time for this file from **19s** to **1s** 

tdf#144208 speedup doc with lots of redline

This takes load time from 48s to 6s

5) tdf#160706 speed up loading conditional formatting rule in XLS (4)

speed up the matching of duplicates in CellAttributeHelper by using std::set and partial sorting by name

Takes load time from 33s to 6s

tdf#160399 speed up print preview

takes time from 11s to 5s





#### Lots more work!

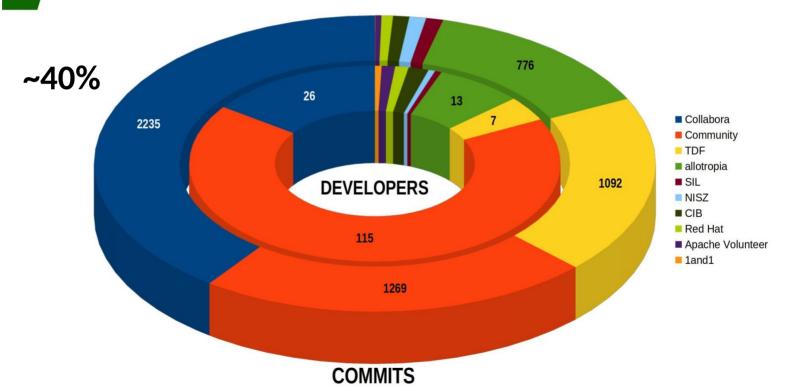
- Legal numbering
- Copy and paste between Calc and Google Sheets
- AutoFill called via UNO commands
- Faster PPTX opening with custom shapes
- Enter in empty list ends the list
- Improved SVG and multi-page TIFF support
- Many performance improvements
- Code cleanup & upgrading ...
- Bug fixes
- And much more...





#### And a lot more work ....

Commits for LibreOffice 24.8 (#)



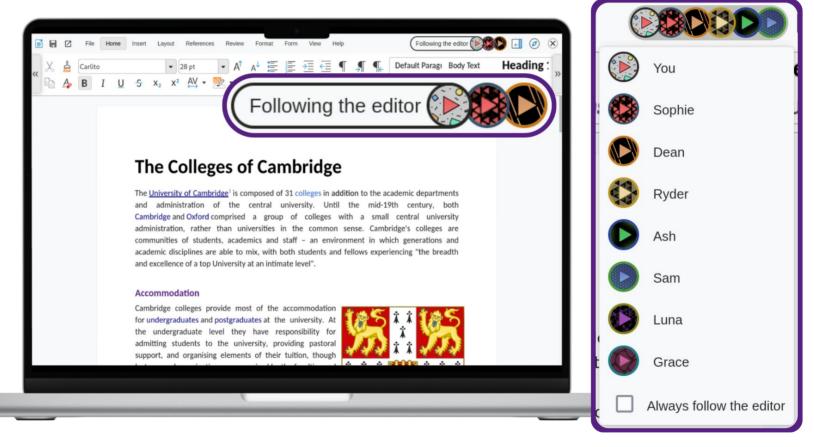


Reference: https://blog.documentfoundation.org/blog/2024/08/22/libreoffice-248/

#### What's new in Collabora Online?

Lots of improvements since last year!

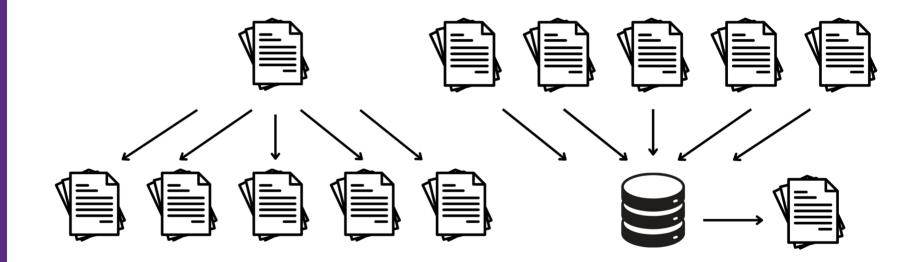
#### Follow the Editor







#### **Automatic Documents**

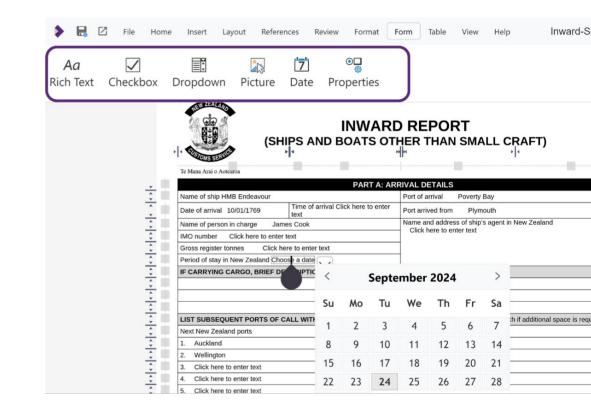






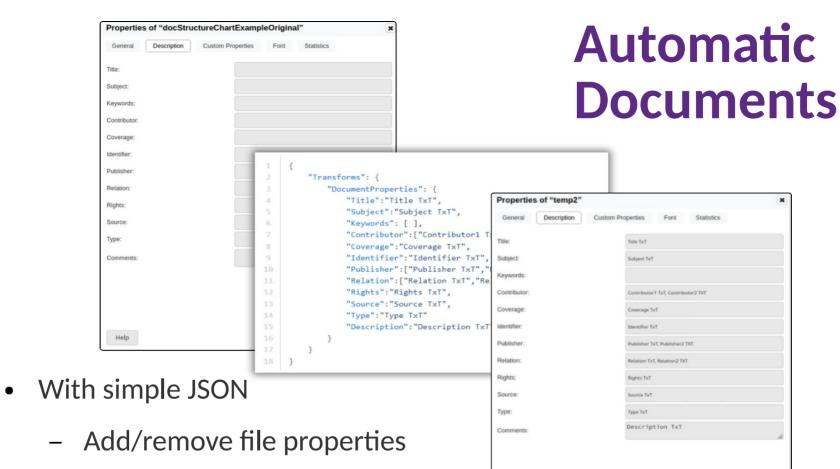
#### **Automatic Documents**

- Create final PDFs or
- Create prefilled
   ODP/DOCX documents
   to continue working on









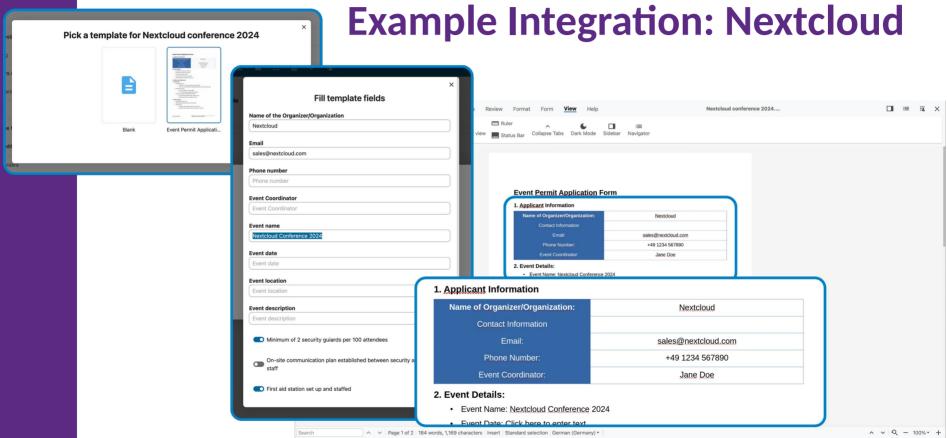
Help





Create 'Custom Properties'

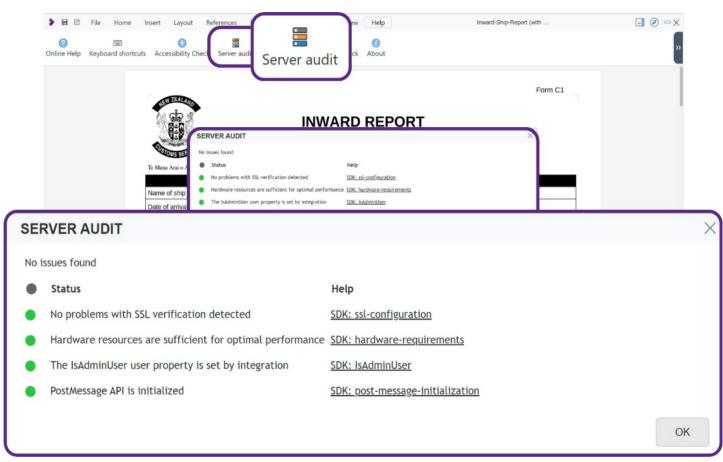
#### **Automatic Documents**







# **Server Misconfigurations?**

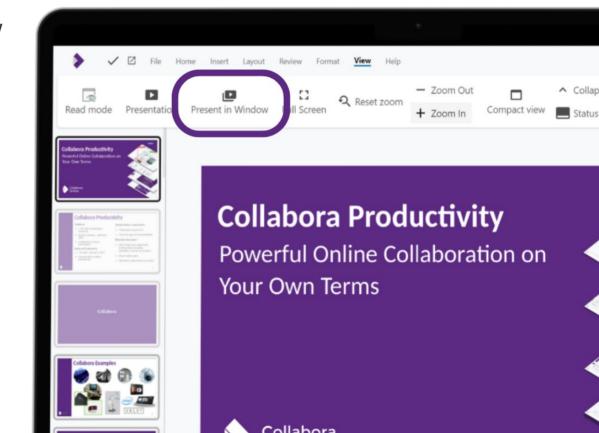






#### **Present in Window**

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

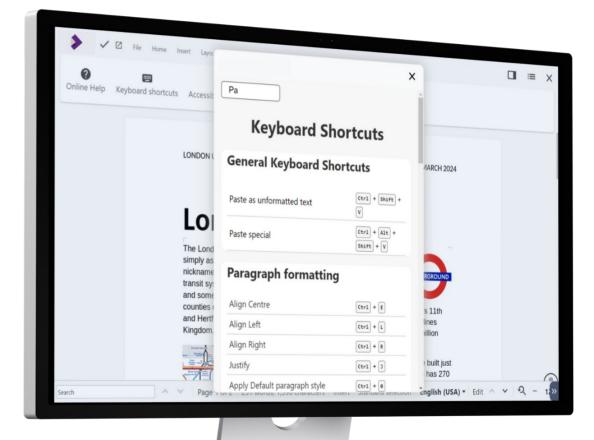






# Search for help

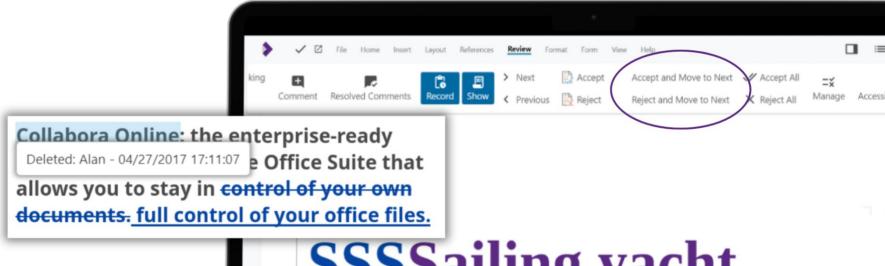
 Find what you need straight away







# **Clearer Tracked Changes**



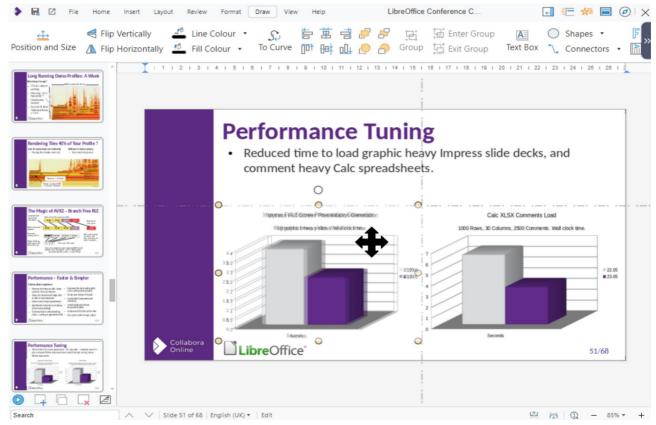




# **SSS**Sailing yacht

AAA sailing yacht (US ship prefixes SY or S/Y), is a leisure craft that uses sails as its primary means of propulsion. A <u>yacht</u> may be a sail or power vessel used for pleasure, cruising, or racing.[1][2][3] There is no standard definition, so the term applies here to sailing

# **Auto Align and Ruler Bar**







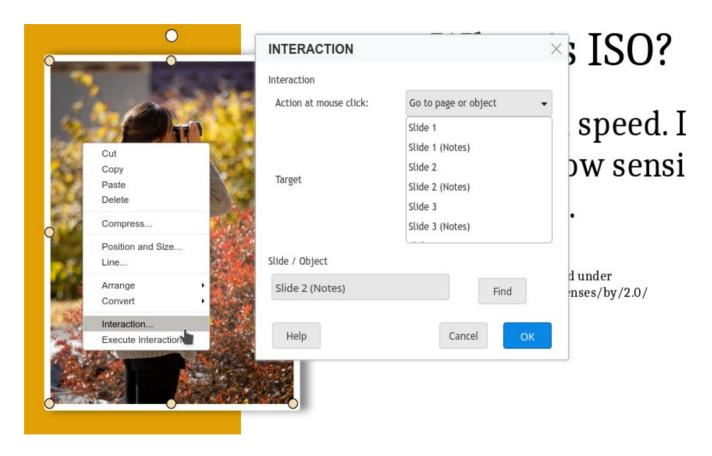
# **3D Transitions**







# **Interactive Objects**

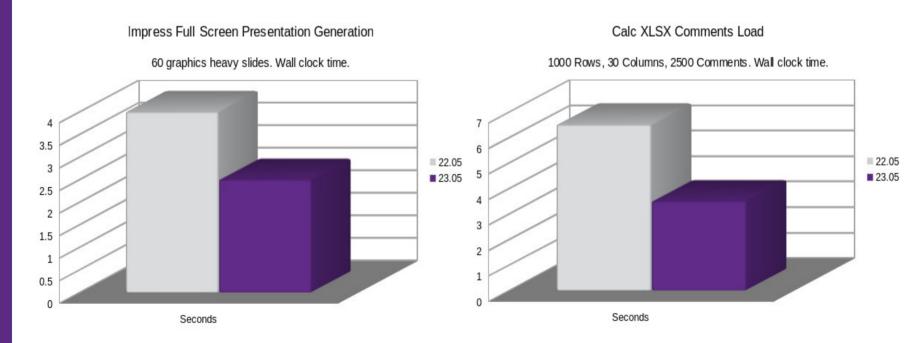






# **Performance Tuning**

 Reduced time to load graphic heavy Impress slide decks, and comment heavy Calc spreadsheets.







# COOL: Built with LibreOffice technology

Rich, interoperable, secure, performant, collaborative editing,

everywhere.

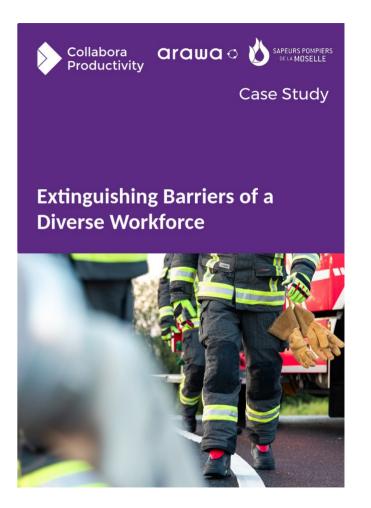




### Use cases

#### **SDIS 57**

- Departmental Fire and Rescue Service (SDIS) 57
  - Equipped 5,000 people
    - 900 professional firefighters
    - 4,000 volunteers
  - Replacing its ageing file server
     with Nextcloud + COOL without
     the need for extensive training







# **OpenText Filr**

- Recently integrated 25,000 user media company with Filr and 'Content Editor' (Collabora Online)
  - "We have many different verticals who are running our solution from European parliaments and worldwide parliaments, police forces, educational institutions, retail, manufacturing..."
  - "If organisations are using offcloud-based storage, putting Filr and indeed Collabora into that environment is very easy"



**opentext** 

Case Study

How Filr Solved Document Security Issues with Collabora Online







#### Antecedent

- To demonstrate if students have invested the required time and effort that would prove they are in fact the author of a unique work
  - Tracks the time spent on each line or paragraph
  - Information is presented to teachers and examiners as heatmaps or interactive documents
- Comprehensive file history also demonstrates the essay's evolution over time
  - Teachers can see which part of the document was being edited when
  - How many words were inserted or written during certain time periods
  - Or even replay the entire document creation process.





When AI Detection Isn't Enough







### Some reflections

### TDF $\rightarrow$ free beer or free freedom?

- I support and encourage TDF to ship LibreOffice for Desktop as now, as a free (beer) download (doh!)
- I support charging for convenience in app-stores
  - it funds good work at TDF
- This is fundamentally not at issue.



## Peace Making - some research:

### Understanding: most critical is:

- "Getting them to sit down and listen to each other and hear each other's story" (Andrew White)
  - Active listening even.

### Listen to both sides

 "the 1st to present his case seems right - until another comes forward and questions him" – Proverbs 18:17

#### Go & talk!

Explore the options / break down false dichotomies...





## **Online Community contributors**

• ~100 From the last 12 months - thank you for your contribution!

Matthaiks, gallegonovato, Sebastiaan Veld, Rob Pearson, Poe Mon, bittin, Martin Srebotnjak, Milo Ivir, Ihor Hordiichuk, Patrick Luby, Oğuz Ersen, Stanislav Horáček, Shavazo, Parth Raiyani, Ayhan Yalçınsoy, Yaron Shahrabani, Leif-Jöran Olsson, Adolfo Jayme Barrientos, Software In Interlingua, genofire, Ali, Alexander Gabilondo, Ettore Atalan, TY Wong, Tucaoever, SC, Besnik Bleta, Andika Triwidada, Сергій, Rhoslyn Prys, Martin Hoffmann, Julius Härtl, Chase Nelson, Jeff Huang, Hugo B, David D, Darshan Upadhyay, Cosmin Humeniuc, aarsh21, Tron Lee, Sveinn í Felli, Sabri Ünal, Rizal Muttagin, poi, Nguyễn Hoàng Minh, Navid Sassan, Michael Weghorn, meshari alnaim, m4skedbyte, erbaotao, HB9HIL, Flavio F. M, ButterflyOfFire, Antony, Andi Chandler, Alex Gabilondo, Владимир, Влад, Zeki Tuman, YadlaMani, Tymofii Lytvynenko, Subham Jena, Simon T, shaokuuipo, Seungcheon Seo, Rysertio, rparth07, Qiao Yifeng, NamelessGO, Mowdep, Mohamed Irfan, Miloš Šrámek, Martin Müller, Isy223622, Ipwxyz, Louis Chance, Kieli Puoli, k-dasari, Josh, Joan Montané, Jesper Holck, Jérôme Herbinet, iwonder, Héctor Gonzàlvez Escolano, Gabriel Masei, Frankie McEyes, Francisco Gabriel Chardin, DPE, Cyan Ling, CodingwithKetan, CloneWith, ccz, BY, Artur Yakupov, ArshErgon, Areg Nakashian, Alex, Aindriú Mac Giolla Eoin, Allkiv



### Collabora Coders ~40 committers

Caolán McNamara, Noel Grandin, Mike
Kaganski, Szymon Kłos, Miklos Vajna, Ashod
Nakashian, Andras Timar, Michael Meeks,
Tomaž Vajngerl, Gökay Şatır, Pranam
Lashkari, Skyler Grey, Pedro Pinto Silva,
Darshan Upadhyay, Henry Castro, Justin
Luth, Javiya Vivekkumar Dineshbhai, Neil
Guertin, Marco Cecchetti

Rashesh Padia, Hubert Figuière, Sven Göthel, Jaume Pujantell, Attila Szűcs, Aron Budea, Bayram Çiçek, Gülşah Köse, Méven Car, Nick Wingate, Elliot Freebairn, Paris Oplopoios, Eloy Crespo, Antony Das, Timur Gadžo, Oli Baker, Mert Tumer, Jan Holesovsky, Gülşah Köse, Dennis Francis, Chris Lord, George Wood, Armin LeGrand

Over the last year ...



## **Collabora Business / Support**

Anna Nazaryan, Aron Budea, João Moreira de Azevedo, Nnamani Ezinne Martina, Timur Gadžo, Naomi Obbard, Richard Brock, Leonor Borges, Asja Čandić, Dave Sheldon, Lily Logua, Eloy Crespo, Mazin Haddad, Julie Wilder, Tracie Fabb, Hannah Greetham, Deirdre Daly, Ben Toynton, Philippe Kalaf, Guy Lunardi, Mitch Tester

and more over the last year...

- Administration
- Art / Design
- Marketing
- Management
- Finance
- Personnel Operations
- Project Management
- Sales
- Sysadmin
- Tech Support / QA
- Translation

A huge honour for me to work alongside & try to serve such a great set of people



# With thanks to our Partners, Customers & Community!

### Some of Our Clients and Partners







Zentrum Digitale Souveränität





























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## **COOL Days - Team Building**





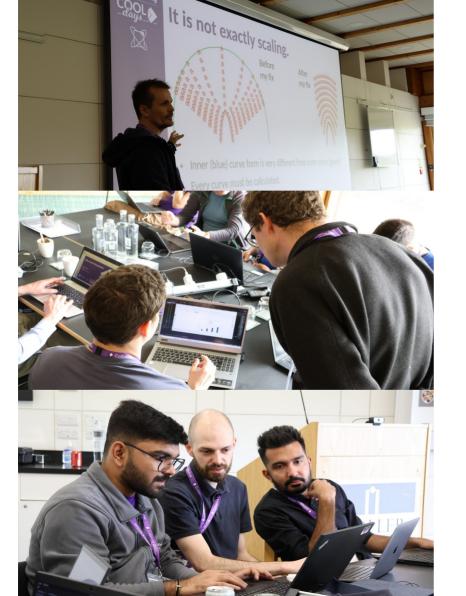




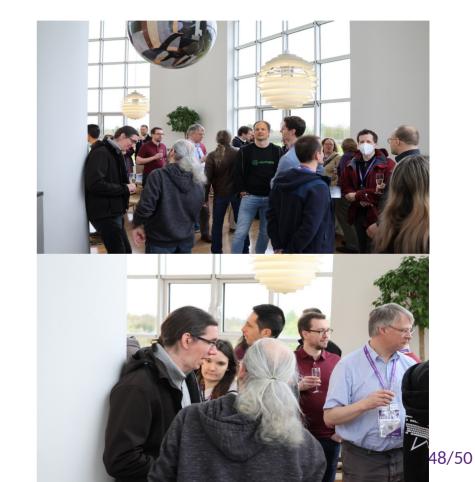








## **COOL Days 2024**





JUNE, 2025
COOL DAYS
HACKFEST
TEAM BUILDING

**BUDAPEST, HUNGARY** 



### Come work with us ...

- We're (still) hiring:
  - Senior Designer / Front-end developer
  - C++ Engineers & interns ...
  - Marketing automation role
  - Support / QA engineering

Talk to me if you're interested

Work from anywhere roles

Collabora has more:

https://www.collabora.com/careers.html

Open Source all day, every day





### **Rock on LibreOffice!**

## Our pleasure to sponsor the conference

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.

### Thank you!

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