

Collabora & LibreOffice Working together to make Open Source rock By Michael Meeks

General Manager @michael meeks michael.meeks@collabora.com

"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





COLLABORA

- >140 staff, Cambridge & Montreal
- our parent company 16 years old
- Leading Open Source Consultancy
- Parent company of:



- RECLAIM YOUR BUSINESS

- Spun out of SUSE in 2013
- 32 staff
- 8 years old
- Focused fully on Office



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, including LibreOffice, and into our partners
- All our code is open

productivity

We do have to make money to re-invest

We are not for sale



Semiconductor

Collabora Online

Examples:

E

Automotive



Digital Signage



OEM

Great Presentation

chromeOS



Collabora's Productivity subsidiary ...





What we sell:

Collabora Online

Develop, support, maintain, sustain

- Built on LibreOffice Technology
- Highly scalable, interoperable, collaborative editing, in your browser
- Service Level Agreement, L3 support
- Product Management interaction
- Go-to market via partners



Branded version of LibreOffice

- Foundation for Online
- Annual release eg. CO 2021.06
- PC / Mac / Linux



Consultancy & Support services

- Bespoke consultancy or
- Pre-paid, fixed-price L3 bug-packs





Partners, OEMs, hosters - to market

FLOSS

- Anyone can install a Docker image & claim to be an expert
- It's cheap to do this badly, many save by not contributing

Collabora Partners

- Committed to integrating COOL
- Committed to ensuring that users pay to support both the partner & up-stream development
- We work hard to enable smart people to integrate Document freedom into their products & offerings





And many more 230 partners to choose from



Support in your language, near you



Integration and commercial support in 58 countries



Or checkout our Partner List if you're interested



CODE

Collabora Online Development Edition



Test It Now

- On-premise
- Rolling, unsupported
- For test/home users only (unstable)
- Price: Free

Education or NGO? Scroll down 🔮

Collabora for SMBs

Supported Version up-to 99 users

17:	€/user per ye	ear

Buy Now

• On-premise

- Up-to 99 users
- LTS
- SLA
- Signed Security Updates
- Maintenance Fixes and improvements over lifetime
- Access to our Customer Portal (Documentation = Support)
- Price: 17€ or USD 18 per user/year

https://www.collaboraoffice.com/subscriptions/



Collabora for Enterprises

Supported Version



Solution catered to your needs

Request Offer

- On-premise
- Volume discounts
- LTS
- SLA
- Signed Security Updates
- Maintenance Fixes and improvements over lifetime
- Access to our Customer Portal (Documentation = Support)
- Roadmap: Product management interaction and input
- Complete support during integration process
- Customization
- Desktop Version
- Support for Mobile Devices
- Price: Personalized offer catered to your needs



Improving the awesome LibreOffice Technology that we all build on - a few examples



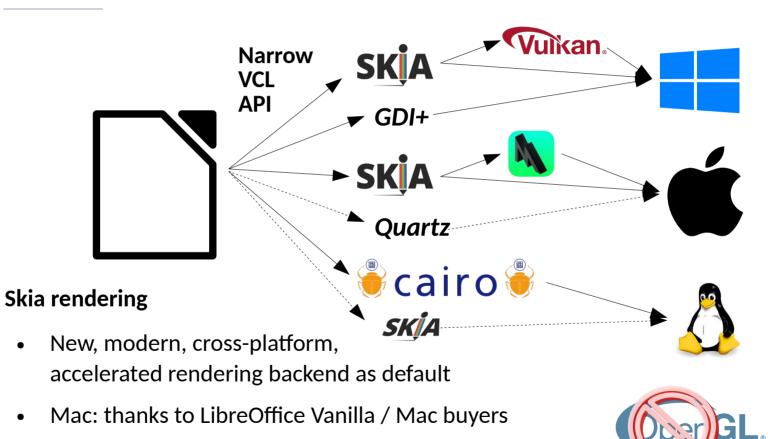
pleased to contribute to core alongside the community



Collabora

Online

Improving Rendering & APIs ...



• Windows: thanks to AMD & Luboš Luňák





Apple / ARM64 / M1 port ...

Porting

• Bought the dev-kit (rental), set it up for Tor

A new ARM64 ABI to bridge

• built on Stephan @ RedHat's ARM64 work

Lots of dependencies to patch

• Still no Java - write once, run?

Thanks to

- Tor Lillqvist for the work
- LibreOffice Vanilla buyers in Apple App-store
 - our only serious Mac customers







Selling convenience ... a debate.

All sides agree we should always provide LibreOffice for free download @ TDF

We should (somehow):

Ship LibreOffice for ~10 \$ in app-stores

- DRM stops users from sharing S/W but
- We can charge a sin tax (an app price)
- This gives ~15% to the DRM/App-store owner but ...
- This gives us 70% to invest in creating improved feature/function, and 15% as cash donated to TDF
- Improved feature/function will drive adoption goals and meet our development goals.

Or Ship LibreOffice for zero \$ in app-stores

- TDF's goals around user adoption overrides our goals around development for this
- Better to have less income & development as a project in order to drive increased adoption & convenience for users
 - A small part of that comes back via **donations**.
- Convenient DRM app-store updates may cut into TDF's visits & donations – but worthwhile for adoption.
- Non-paying users become future community members who will improve feature/function which will drive our development goals.

Currently ~1 million users / developer 13





New indexing exporter

Writer.IndexingExporterFilter

- Generates XML with source
 annotations
- Allows locating search results in the document easily.
- Easy to connect to Apache Solr

previous pragraph this is a test string this is another test strin next paragraph

Provide rich document contextual search:

• Thanks to:



search string

result recta





Performance

The necessity of time

- Online provides a real, economic incentive to optimize the software
 - Can make it faster better & more beautiful

Lots of goodness - from Online

- Cached sidebar panels for fast switch
- Fast dashed line rendering
- Faster image scaling & caching
- Faster writer invalidation & render
- Calc faster positioning / layout

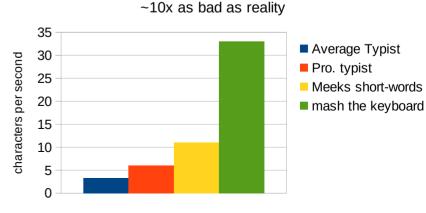
Lots of core optimization

- Improved font caching to speed up text rendering
- Improved swapping & memory consumption of graphics
- Faster slide-rendering by image prefetching
- Faster opening times of XLSX, DOCX, anything zipped
- And many many more ...



Performance: typing fast ...

- Customer: "we tested it with eight people doing random typing"
- Profiled this use-case; it is/was slow
 - The mis-spelling squiggly-line (cf. wrong language setting?) ...
 - an unfeasible amount of CPU ~90% of rendering time
 - A most beautiful sub-divided, AA b-spline but ... ~2 pixels high mostly
- Mashing the keyboard a pathological case: we're still working on improving
 - Test your speed here
- Consider Calc with lots of mis-spelling
- Sdf sadf kjh lksdhfk slkdfhkasdh flksjdh



Mashing the keyboard as a test



LibreOffice



X-ray	
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,	Interfaces	Services	Properties	Methods
	Object		•	Value

Built-in X-ray like document inspection

- Shipping in LibreOffice 7.2
- Learn the extensive UNO API & see how your document is structured
 - Easily write & debug your UNO scripts

Thanks to:

- TDF donors for funding this!
- TDF Board & Exec. for getting tendering ~unstuck
- Tomaž Vajngerl and Gülşah Köse for implementing it.

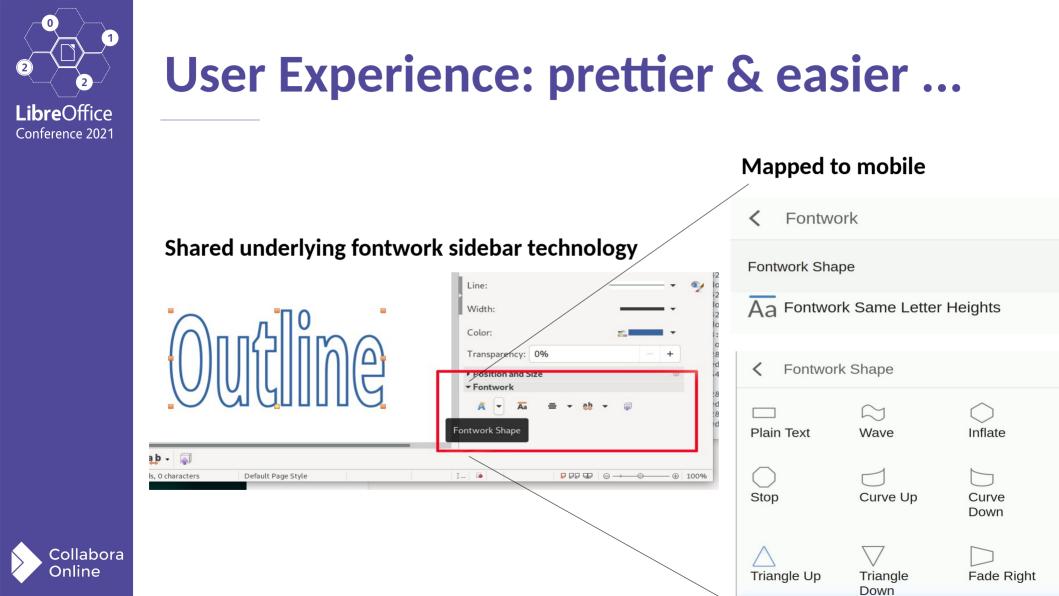
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UX: style previews in notebookbar

Familiar style previews in writer



Sharing code with COOL's notebookbar







Collabora

Online

HUD

Heads Up Display

- Quikee's • hack-week project.
- <shift>-<esc>

He heard quiet step: night and in this dea big time and was m idea, and was now v steps behind him m pounce and snap the alley. Like lightning falling over the tras along in the inky da way he had come. T around the corner. I trying to make hims dripping with sweat next to him, with a Could this be the ha

Table

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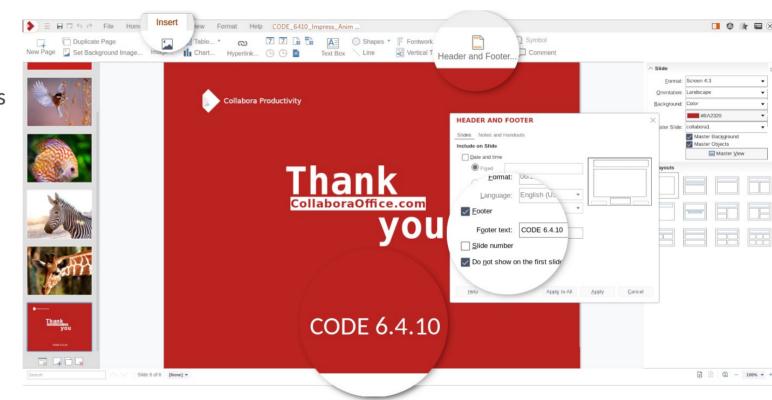
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PPTX interop. wins

Headers / footers and various fields roundtripping nicely

(for a large science org. in Geneva)







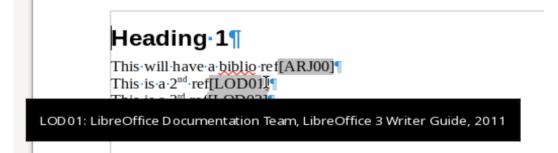
Shape text interop. wins

eg. multi-column text layout in impress An column text Draw, and boxes in elsewhere :-) introduction btLr text frame to multi-Impress, supporti Bottom-to-top, left-to-right text (vertical) Thanks to Miklos Vajna's Thanks to hack-week co-investment from



Bibliography Improvements

Tooltips on bibliography references:



Hyperlinks in bibliographies:

[VAM00]

Bibliography¶

VAM00: Vajna, Miklos, Test Ttitle, 2020, https://people.collabora.com/~vmiklos/test.por

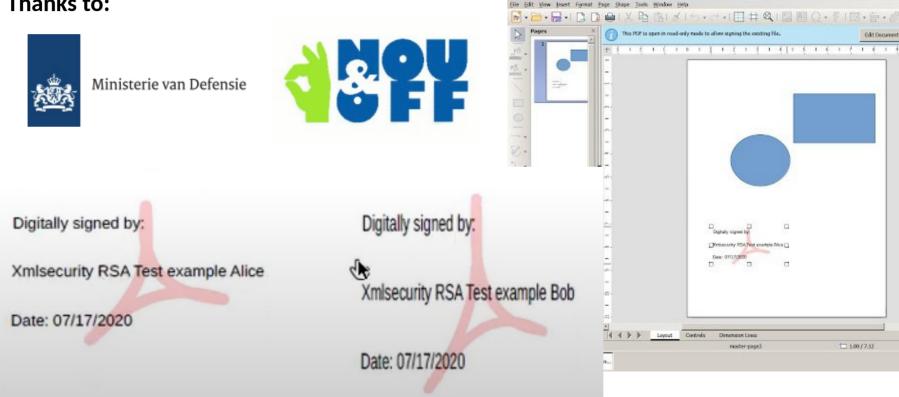
Ctrl-click to open hyperlink: https://people.collabora.com/~vmiklos/test.pdf

Collabora Online Thanks to TUBITAK & Muhammet Kara & Miklos Vajna



Visible digital PDF signatures in draw

Thanks to:



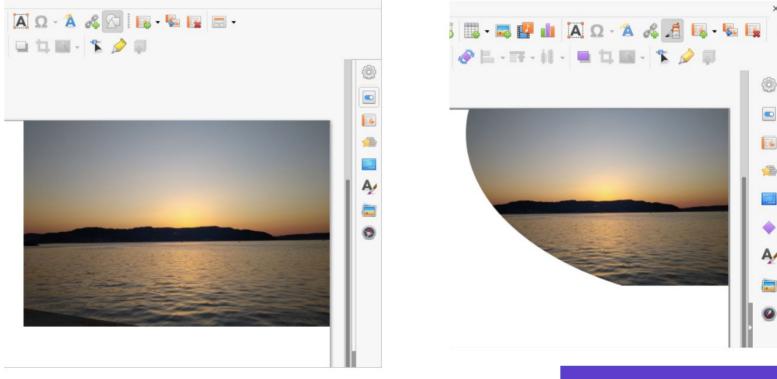




Custom Geometry & image effects

Before

After





Thanks to Gülşah Köse

SUSE



Interop: cached field results

Ensuring your field contents (in grey) stick

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday
Ĭ	T	1	1	ī	2
					12AM-4AM Alice birthday
4	5	6	7	8	2
		1 AM-5AM Bob birthday			
11	12	13	14	15	16
		12:30AM-2:30AM Cecil birthday			





Gutter Margins - for Taiwan and others

Very useful for Government binding standards

Margins		
I <u>n</u> ner:	0.79"	\$
Outer:	0.79"	\$
Тор:	0.79"	\$
Bottom:	0.79"	\$
Gutter:	1.00"	-

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Left	
Тор	

2. Choose the position of the gutter margin

ABC →	ABC
	of the gutter and position is

rendered in the dialog

Pick a supplier that contributes





Why show contributions? clearly many contribute to LibreOffice, volunteers do a amazing things

Some differentiate from competitors with proprietary value adds

• We want to encourage customers to select a supplier based on competence proven by contribution

As TDF wrestles to work out who pays & for what..





• helpful to remember how paying customers drive our mission



MIMO - a clean bespoke office

Five supported branches for French Ministries

- All now in public git
 - distro/mimo/mimo-<version>
- based on one of:
 - 5.4.7.2, 6.1, 6.2, 6.4 & 7.0
- Large volume of security fix back-porting to bring up-to-scratch: up to ~160 patches to the oldest branch
- Several fixes: eg. utf-8 in xml names (liborcus)

Thanks for choosing a contributor for support

• And to community for making the case



arawa 🗘

Atos

MUTUALISATION INTER-MINISTERIELLE





Collabora Online LibreOffice's in-browser collaboration Last year's improvements





Performance & Profiling / Support & Debugging

Performance \rightarrow just getting started: <u>30 minute talk on Friday in 1 slide</u>

- More client-side rendering & lower CPU / network bandwidth
- Javascript madness calmed down
 - Batch processing of websocket messages
 - Don't reender a frame for many messages: tile at a time [!]
 - Much improved tile encoding reducing client GC hangs
 - JS / faster grid-line rendering
- Async save → don't wait for EFSS / object-store to store the file
- Building out our end-to-end profiling framework
 - JS ↔ Server ↔ Document in a single view.

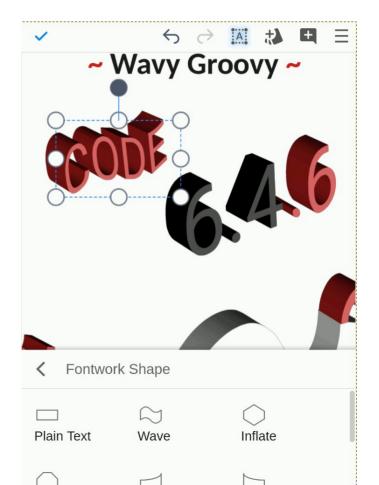
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Bringing Draw to Online: Fontwork



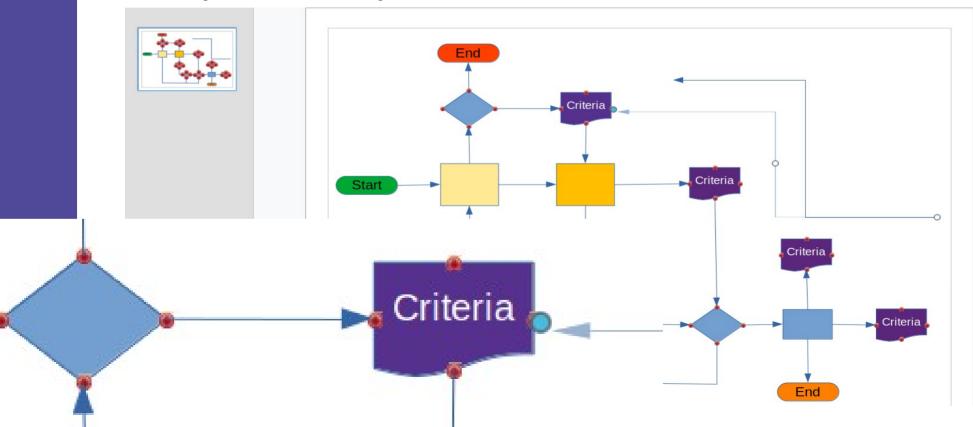






Bringing Draw to Online: Connectors ...

Shapes, Glue points, Connectors





Precise control of anchoring & text flow vs. images

Accurately position anchor-points for images to control layout & reflow.



ntegrate i



mat suppo

Available Products

Collabora Online

chilabora I in the poverful LibreOffice-based on-premise online office, the orts all major document, spreadsheet and nd which you can integrate into your own presentation vou with collaborative, WYSIWYG editing, infrastructur a rich feature s mat support. That is Cut provided as an online you install, manage and CODV upgrade on your own ital sovereignty over your Paste documents. Position and Size Line.... Area... Anchor ✓ To Paragraph To Character Wrap As Character Arrange C 11 1 Off: : : - :

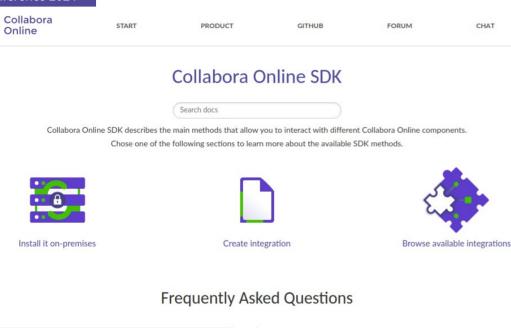




http://sdk.collaboraonline.com - opened up our docs

СНАТ

Read more ->



- High availability, fault tolerance, upgrade-ability?
- Do the documents leave the server?
- What is CODE? Are there non-development editions too?
- Do the programs require an uninterrupted network connection?
- Can I host your product on my own environment?

View all FAQ

- If you want a high availability setup, not only to provide extra scalability, but also to provide redundancy against faults. Collabora Online has a clean and attractive architecture - which scales with your routing network:
- Each document is served by a single node...

Search docs

K Back

INTRO

Why integrate?

GET STARTED

Introduction

Step-by-step tutorial

- Available integrations
- Advanced integration
- DOCUMENTATION
- Conversion API
- Server macros in Python
- ⊞ Theming of Collabora Online

MORE INFORMATION

Introduction Introduction

Introduction

This document will help you integrating with your existing so users can edit the documents hosted in the file storage via w

For this to work, you have to setup and connect several parts

- Server for hosting Collabora Online
- Website that presents iframe with the editing capabilities
- Authentication
- Connection to the file storage

The easiest way to integrate Collabora Online is using the W

Collabora Online implements a protocol inspired by the WOI Platform Interface) protocol. Using the WOPI vocabulary as v Collabora Online is a WOPI client that can be integrated with solution: web application and file storage). WOPI is a well do more details please visit the WOPI documentation.

Previous

© Copyright 2021, Collabora. Built with Sphinx, custom theme based on sphinx rtd by Read the Docs.



Hacker Heroes – thank you!

Non-Collabora people who have contributed code

Alan Verdugo, Alexandru Vlăduţu, Andrea Gelmini, andreas kainz, Ayhan Yalçınsoy, Bayram Çiçek, bgbenzer, Buğra Kurt, Çağrı Gökçe, codewithvk, corleone77, dilaverdemirel, Emil Velikov, Gabriel Masei, Gleb Popov, Gökhan Karabulut, Guy Lunardi, Hannah Meeks, ihristova11, Jan Dageförde, Jerzy Drozdz, Jetsadakorn, Kandarp Patel, Martin Hoffmann, Michael Weghorn, M.-Kupriyanov, Mücahid Aydin, NickWingate, Nicolas Christener, Pelin Kuran, Serkan Danışan, Shubham Goyal, Siddharth, Thomas Koch, umutbayramoglu, Yunus Bulut, Yusuf Keten, 22shubh22





The I10n Heroes – thank you!

People who have contributed Collabora Online translations

abidin toumi, Adolfo Jayme Barrientos, Akhlak Ahmad, Alexandre Brochand, Allan Nordhøy, Andika Triwidada, Àngels Giménez, Artem, Besnik Bleta, bruh, ButterflyOfFire, Cor Nouws, Daniel de Souza Melo, doanmanhduy75, Eugenia Russell, Flávio José de Siqueira Cavalc, george kitsoukakis, Gontzal Manuel Pujana Onaindia, HelaBasa, Hirae, Ihor Hordiichuk, Jeff Huang, J. Lavoie, Joan Montané, Jörn Liebau, K. Herbert, koffevar, kuesji koesnu, liimee, LL Magical, Lukáš Jelínek, Luna Jernberg, Martin Srebotnjak, Masa Murakami, Matthaiks, Mehmet Sait Gülmez, Michalis, Mike Kaganski, Milo Ivir, Miloš Šrámek, Nathan, Naveen, Nguyen Trung Kien, Nguyen Tuan Anh, Nikita Epifanov, Oğuz Ersen, Oymate, PhD. Ayhan YALÇINSOY, phlostically, Piotr Rudzki, Quentin PAGÈS, Reza Almanda, Rizal Muttaqin, Rob Pearson, Ron Stephen Mathew, SC, sebastiaanveld, Sérgio Morais, ssantos, Stanislav Horáček, Stratos Kostidis, Sveinn í Felli, tamer dab, Tymofii Lytvynenko, Unihuppio,

wxf26054, Yaron Shahrabani, Zhou Nan, المير محمد العمري غادة الذياب, 日陰のコスモス





COOL days ... replacing our annual partner event

Developer / community day

- All about CODE & how to get involved
- Updates from integrations etc.
- Open to all

Business day

- Case studies of use in the real-world
- Digital Sovereignty for enterprises
- Partner / Customer / invite ...



Collabora Online

Eight years of Collabora Productivity

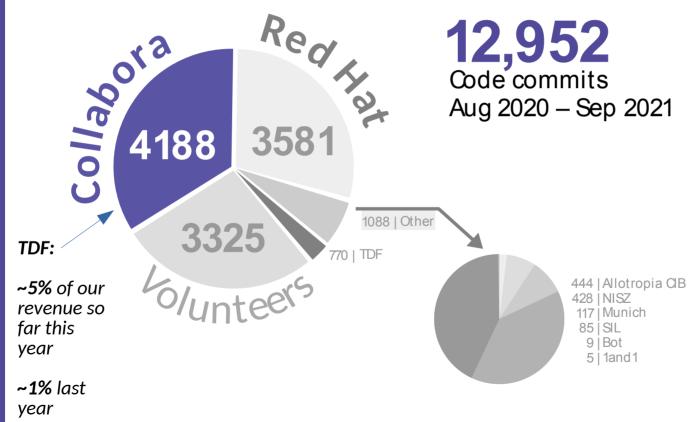
Open Source, Open First



Collabora

Online

Commits by Affiliation – last year



We need to continue to improve our ecosystem diversitywise,

Lets ensure that people can build businesses around it

Also celebrate, encourage & credit all contributors



Other ways we serve you & contribute ...

Governance

- 2x Board members
- ~1 Membership Committee
- Serve on the ESC

More work - funding time

- Mentoring / GSOC
 - 5/11 mentors this year, 4/7 projects
 - newbie mentoring & review
- Patch review of gerrit commits
- conference content

Funding with cash

- Conference Sponsorship
- Cash from Apple App-store sales ~Eur 8k in last year

Paying for things TDF cannot

- eg. buying community meals at conferences (in normal years)
- Thank-you presents etc.

Every day we tell people about LibreOffice Technology





Thanks to our team(s)

who have worked **so** hard:

Collabora Committers - last 12 months (37)

Noel Grandin, Szymon Kłos, Miklos Vajna, . Ashod Nakashian, Mike Kaganski, Tor Lillqvist, Tamás Zolnai, Tomaž Vajngerl, Luboš Luňák, Pedro Pinto Silva, Gokay Satir, Dennis Francis, Andras Timar, Henry Castro, Michael Meeks, Pranam Lashkari, Mert Tumer, Justin Luth, Rashesh Padia, Jan Holesovsky, Gülşah Köse, Ezinne Nnamani, Muhammet Kara, Marco Cecchetti, Aron Budea, Sarper Akdemir, Nick Wingate, Thais Vieira, Marc Rodriguez, Cor Nouws, Gopi Krishna Menon, Yunusemre Şentürk, Ivan Stefanenko, Eloy Crespo, Guy Lunardo, Hannah Meeks, William Gathoye

Management / Marketing / Support

- Eloy Crespo \rightarrow Sales
- Cor Nouws, Marc Rodriguez, Elisa de Castro Guerra, William Gathoye → Marketing
- Tracie Fabb, Julie Wilder, Hannah++... → Biz support
- Philippe Kalaf → **applied experience**

In bold (left)

• managed to manage a team as well (!)

Please do encourage them.

Consider joining us: Collabora Careers



(some of) the awesome team serving you.

C

Sorry we can't be with you this year

Conclusions

- Our FOSS mission applied:
 - make LibreOffice Technology rock.
 - Liberating people's Documents
- All paid for by our *Customers* & *Partners*
 - can't do anything without them,
- All done by our staff

- All done alongside the **community**
 - Thank you for making it fun.
- Branding is one of our only assets:
 - Leads (& credit) funds the fun.
- A pleasure to be able to sponsor the LibreOffice conference.
 - really missing people in person.

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