Collabora & LibreOffice
Working together to make Open Source rock

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This is what the Lord says: "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

- ~150 staff, Cambridge & Montreal
- our parent company – 16 years old
- Leading Open Source Consultancy
- Parent company of:
  - Spun out of SUSE in 2013
  - ~48 staff
  - 10 years old - this month.
  - Focused fully on Office / Online
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
- We do have to make money to re-invest

We are not for sale
FLOSS upwards from the bottom of the stack
Panfrost: initially a reverse engineered driver, now main-line, multi-gen support & now embraced by Arm too …

Driving open-ness.

Mali, the world’s most shipped GPU at 8 billion units to date (2022)
Collabora’s Productivity subsidiary ...

Driving FLOSS goodness downwards from the top of the stack
Our bit ...
What we sell:

Collabora Online

- Your Digital Sovereignty
  “Your own private Office in the cloud”
- Develop, support, maintain, sustain
  - Built with LibreOffice technology
  - Highly scalable, interoperable, collaborative editing, in your browser
  - Service Level Agreement, L3 support
  - Product Management interaction
  - Go-to market via partners

Collabora

- 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 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 235 partners to choose from
Support in your language, near you

Integration and commercial support in 60 countries

- Contact me to become a partner
- Or checkout our Partner List if you’re interested
**CODE**
Collabora Online Development Edition
Free, for testing and home use

**Collabora for Business**
Supported Version up-to 99 users
€20,00 / $22.29 / £17.60 per user/year

**Collabora for Enterprise**
Supported Version for 100+ users
Personalised volume discounts

- On-Premise
- Rolling Updates
- For testing and home use

- On-Premise
  - From 20 to 99 users
  - Supported
  - LTS
  - SLA
  - Signed Security Updates
  - Lifetime Maintenance
  - Customer Portal Access
  - Price: €20,00 / $22.29 / £17.60 per user, per year

- On-Premise
  - 100+ users
  - Supported
  - LTS
  - SLA
  - Signed Security Updates
  - Lifetime Maintenance
  - Customer Portal Access
  - Roadmap Input
  - Integration Support
  - Customisation
  - Desktop Version
  - Mobile Support
  - Price: volume discounts, personalised to your requirements

https://www.collaboraoffice.com/subscriptions/
An open source consortium with numerous providers is working hard together with Dataport to build a Sovereign Workplace as a reference implementation to demonstrate that open source is a real alternative.

Public money – public code: checkout LibreOffice & COOL
And now – back to the code:
Improving the awesome LibreOffice Technology that we all build on - a few examples

We are pleased to contribute to core as part of the LibreOffice developer community
Interoperability improvements

*Bringing trillions of your documents into the light*
Multi-page Floating Tables

- **The top Writer issue**
  - 38 duplicates (or so)
  - many now fixed.
  - Many CC’s
  - A huge problem
- 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.

Thanks to Miklos
<table>
<thead>
<tr>
<th>He heard quiet steps behind him.</th>
<th>That didn't bode well.</th>
<th>Who could be following him this late at night and in this deadbeat part of town?</th>
</tr>
</thead>
<tbody>
<tr>
<td>And at this particular moment, just after he pulled off the big time and was making off with the greenbacks.</td>
<td>Was there another crook who'd had the same idea, and was now watching him and waiting</td>
<td>Or did the steps behind him mean that one of many law officers in</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>He nervously looked all around.</th>
<th>Suddenly he saw the alley.</th>
<th>Like lightning he darted off to the left.</th>
</tr>
</thead>
<tbody>
<tr>
<td>for a chance to grab the fruit of his labor?</td>
<td>town was on to him and just waiting to pounce and snap those?</td>
<td>He tried to nervously tap his way along in the inky darkness and</td>
</tr>
</tbody>
</table>

suddenly stiffened: It was a dead-end, he would have to go back the way he had come. The steps got louder and louder, he saw the black outline of a figure coming around the corner, is this the end of the
Complex DOCX document with several floating tables: bad, good and reference
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.
## Compact Pivot Tables

Thanks to Dennis Francis

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<table>
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- **Sum of Val**
- **Row Label**
- **Col Label**
- **Total Result**

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- **Total Result**

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- **Total Result**

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LibreOffice Technology

Collabora
Productivity
Controlling branding

- Document themes can be configured and applied to a whole document to easily change and re-purpose the appearance, giving it a consistent style and branding.

Thanks to Quikee
1. Heading 1 – 1 / Paragraph Color
Leverage agile frameworks to provide a robust synopsis for high level overviews. Iterative approaches to corporate strategy foster collaborative thinking to further the overall value proposition. Organically grow the holistic world view of disruptive innovation via workplace diversity and empowerment.

1.1 Heading 2 – 1
Leverage agile frameworks to provide a robust synopsis for high level overviews. Iterative approaches to corporate strategy foster collaborative thinking to further the overall value proposition. Organically grow the holistic world view of disruptive innovation via workplace diversity and empowerment.

1.1.1 Heading 3
Bring to the table win-win survival strategies to ensure proactive domination. At the end of the day, going forward, a new normal that has evolved from generation X is on the runway heading towards a streamlined cloud solution. User generated content in real-time will have multiple touchpoints for offshoring.

1.2 Heading 2 – 2
Capitalize on low hanging fruit to identify a ballpark value-added activity to beta test. Override the digital divide with additional clickthroughs from DevOps. Nanotechnology immersion along the information highway will close the loop on focusing solely on the bottom line.
<table>
<thead>
<tr>
<th>Branch</th>
<th>Car model</th>
<th>Show Room</th>
<th>Used</th>
<th>Repair Shop</th>
<th>Rest</th>
<th>Cost</th>
</tr>
</thead>
<tbody>
<tr>
<td>City AA</td>
<td>Model01</td>
<td>22</td>
<td>34</td>
<td>23</td>
<td>10,000.00 €</td>
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<tr>
<td>City BB</td>
<td>Model02</td>
<td>20</td>
<td>33</td>
<td>20</td>
<td>10,000.00 €</td>
<td></td>
</tr>
<tr>
<td>City CC</td>
<td>Model03</td>
<td>18</td>
<td>24</td>
<td>18</td>
<td>10,000.00 €</td>
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</tr>
<tr>
<td>City AA</td>
<td>Model04</td>
<td>20</td>
<td>30</td>
<td>20</td>
<td>25,000.00 €</td>
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<tr>
<td>City BB</td>
<td>Model05</td>
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<td>32</td>
<td>22</td>
<td>10,000.00 €</td>
<td></td>
</tr>
<tr>
<td>City CC</td>
<td>Model06</td>
<td>24</td>
<td>34</td>
<td>24</td>
<td>10,000.00 €</td>
<td></td>
</tr>
<tr>
<td>City AA</td>
<td>Model07</td>
<td>20</td>
<td>30</td>
<td>20</td>
<td>25,000.00 €</td>
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</tr>
<tr>
<td>City BB</td>
<td>Model08</td>
<td>22</td>
<td>32</td>
<td>22</td>
<td>10,000.00 €</td>
<td></td>
</tr>
<tr>
<td>City CC</td>
<td>Model09</td>
<td>24</td>
<td>34</td>
<td>24</td>
<td>10,000.00 €</td>
<td></td>
</tr>
</tbody>
</table>

This is a text box inside a spreadsheet.
Multi-Stop Gradients

Improved Rendering with thanks to Armin & allotropia

- 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.
Other sample improvements

Just a few examples of LibreOffice Technology core wins
Other misc. improvements

Improved Default Numbering - Justin

Improved frame anchoring / positioning

64bit Zip Support - Attila

- 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

Multi-page TIFF import - Rashesh

Auto-fitting algorithmic improvements - Quikee

Cropped video in impress - Miklos

Simpler Sidebar Glade XML

- slimmer, semantic IDs etc. fixed alignment bugs ... thanks to Szymon, Andreas K, Pedro
Math improvements

Math objects now use a nice sidebar:

\[ \sum_{\mu,\nu} \frac{8 \pi G}{c^4} T_{\mu,\nu} \]
Page Number Insertion

Familiar, Simplified Pop Up

- 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.

Thanks to Justin Luth
Performance

Writer - Ctrl-A & Cut – 10x faster

Faster EPUB export

Faster large writer table handling

Various Calc large find & replace speedups

- minutes → seconds

COUNTIFS/SUMIFS etc. caching

- Minutes → seconds etc.

Thanks to Noel, Caolan, Lubos ...
Collabora Online
LibreOffice Technology applied to in-browser collaboration
Some of just last year’s improvement
QR code generation

Bringing more LibreOffice technology to your browser:

- now ‘async’

  Thanks to Shubham Goyal and GSOC for the feature, and Darshan-Upadhyay
Zotero

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.

Thanks to Pranam Lashkari
Hyperlink tooltips

- New Hyperlink contextual actions at the distance of a click
- Together with Hyperlink URL
- New hyperlink preview (NC) also used when clicking in an inserted mention

Dutch language - Wikipedia

https://en.wikipedia.org/wiki...  📝  🌐  🔴

Dutch

Thanks to Szymon Kłos
Video Embedding

Include videos in your Impress slides

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

Thanks to Ashod Nakashian
Font previews in drop-downs

Pick your preferred font with confidence

Thanks to Szymon Kłos
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.

Thanks to Caolan McNamara
UX: Javascript / welded dialogs

Near complete move to JS Dialogs

- Accessible
- Theme-able
- Crisper text
- Easier to Cypress test.

Thanks to Szymon Kłos & team[!]
Initial Online screen reading support

Hello World

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.

Thanks to Marco Cecchetti
Dark Mode

Building on the LibreOffice technology core dark-mode

- Rendering views differently also allows per-view settings
  - non-printing characters
  - spelling underlines.
  - etc.

Thanks to
Paris Oplopoios
Navigator – new in the last year ...

Thanks to Attila Szűcs & Pedro
Accessibility: Interface

Full function keybindings

- Focused on the notebookbar, multi-character bindings
- Coupled to dialog key-navigation across the UI

Thanks to Gökay Şatır
Online Community contributors

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

COOL: Built with LibreOffice technology

Rich, interoperable, collaborative editing, everywhere.
COOL days 2024
April 8th - 12th
clear the days and come ...

https://www.collaboraoffice.com/cool-days-2024/
Recapping COOL Days 2023
Some personal reflections
Signature – a useful qualification

- Unfortunately – customers found it hard to understand.
- A too brief summary of my personal failings:

When criticized:

- On defensive - tend to forget I have flaws too – there may be a point!

Internal vs. external aggravation responses

- External: professional – tolerant, gentle
- Internal: set boundaries – to protect others.
- I failed to take action on this at TDF.

Tending culture of open-ness ...

- Requires constant work to include people, do things in public, take risks asking for input etc. - often not enough.

Poor handling of time perspective mismatch

- shortness of time: 3 tracks → 1 me.
- spend time with people – a luxury I enjoy.
- listening, patience, speed negotiation, language

And many more - Thank you for your Patience!

Pleased that Thorsten & the board seem to be doing a good job of getting help improving.
Ten years of Collabora Productivity

Open Source, Open First
Collabora Coders – 75 people


Working alongside around 1400 community code contributors!
Collabora Support – 40+ people

Amélie Hanna, Anna Nazaryan, Asja Čandić, Ben Toynton, Cor Nouws, Deirdre Daly, Dorée Carrier, Elisa de Castro Guerra, Eloy Crespo, Ema Infate, Foad Vafaei, Hannah Greetham, Heidi Merrifield, Guy Lunardi, Iris Lee, Jassie Badion, Javier Llamas Mondragon, Jona Aziza, Julie Wilder, Lily Logua, Mark Filion, Mazin Alhaddad, Michael Meeks, Mike Dworski, Mitch Tester, Naomi Obbard, Niall McCarthy, Niamh Merrit, Philippe Kalaf, Richard Brock, Robert McQueen, Sam Tuke, Simon Lofthouse, Simon Napper, Stelios Milidonis, Swapnil Bhartiya, Tim Eyles, Timur Gadžo, Tina Lowe, Tracie Fabb, William Gathoye, and more ...

Often working alongside the community

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

A huge honour and privilege for me to work alongside & try to serve such a great set of people
10 years - some of the things we did:

Working alongside many others.

With thanks to our customers & partners.

10 years of LibreOffice commits

30%

29%

24%

16%

Sub one 40th of our revenue is won TDF tenders

Breakdown of Others by commits

Collabora
RedHat
Volunteers
Others

CIB/allotropia
SUSE
NISZ
Canonical
IBM
Apache Volunteer
SUSE
TDF
NISZ
Munich
Canonical
MultiCoreWare
SIL
Igalia
SYNERZIP
ULAKBIM
KACST
CloudOn

Working alongside many others.

With thanks to our customers & partners.
Some achievements

Customer support tickets
- 3602 tickets – 35 currently open.
- Average of 10 closed per day ...

Paid all of our formal bills & contractors
- Plus met our unwritten obligations from the SUSE days.

Open culture internally
- Salaries private – otherwise, everything possible is open to all.
- Weekly mgmt minutes, all-hands’ etc.

Numbers:
- COOL Docker pulls – 85 million
- Serving paying users - ~4 million
- LibreOffice commits – 57,000
- COOL commits – 21,000

Partners – 235
- Can’t tell you how important they are – enabling all our work.

My longest work-day: 36 hours ...
- some seriously hard work, sometimes.
LOT based Products:

Mobile phone
Tablet
Browser – Collaborative
The story is just beginning:

- We’re (still) hiring:
  - Senior Developer Engineer for Test
  - Marketing automation role
  - Development / engineering interns

- Collabora has more:

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

Open Source all day, every day
Conclusions

• **Collabora loves LibreOffice**
  - Our FOSS mission applied:
  - Making LibreOffice Technology rock.
  - Liberating people’s Documents

• **Paid for by our Customers & Partners**
  - can’t do anything without them,
  - They get to tell us what to do

• **Done by our staff**
  - Alongside the **community**
  - Thank you! for your work.

• **Economics matters:**
  - leads → sales → code
  - Work together use our strengths

• **A pleasure** to be able to sponsor the LibreOffice 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. - Job 19: 23-27