

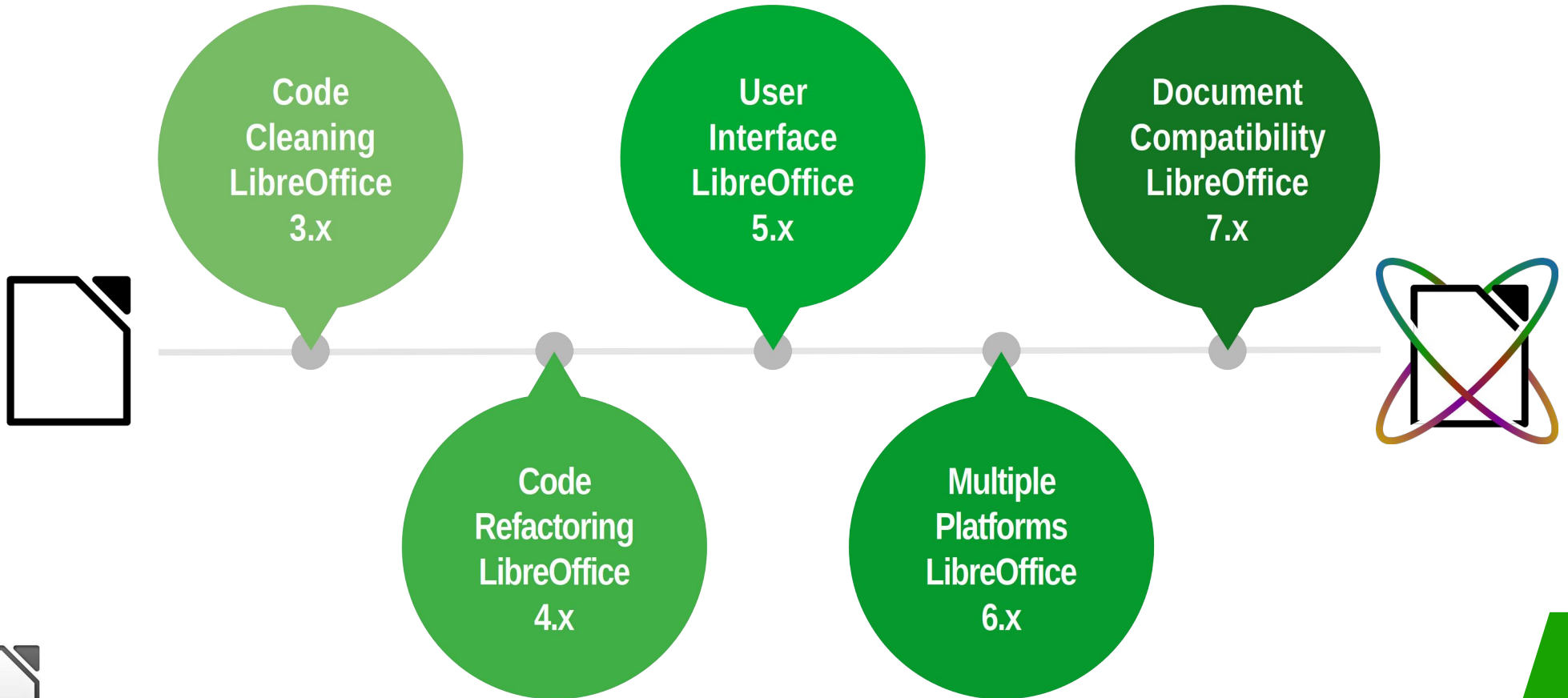
LibreOffice
The Document Foundation

LibreOffice 7.3 New Features

Italo Vignoli



LibreOffice Development Cycles

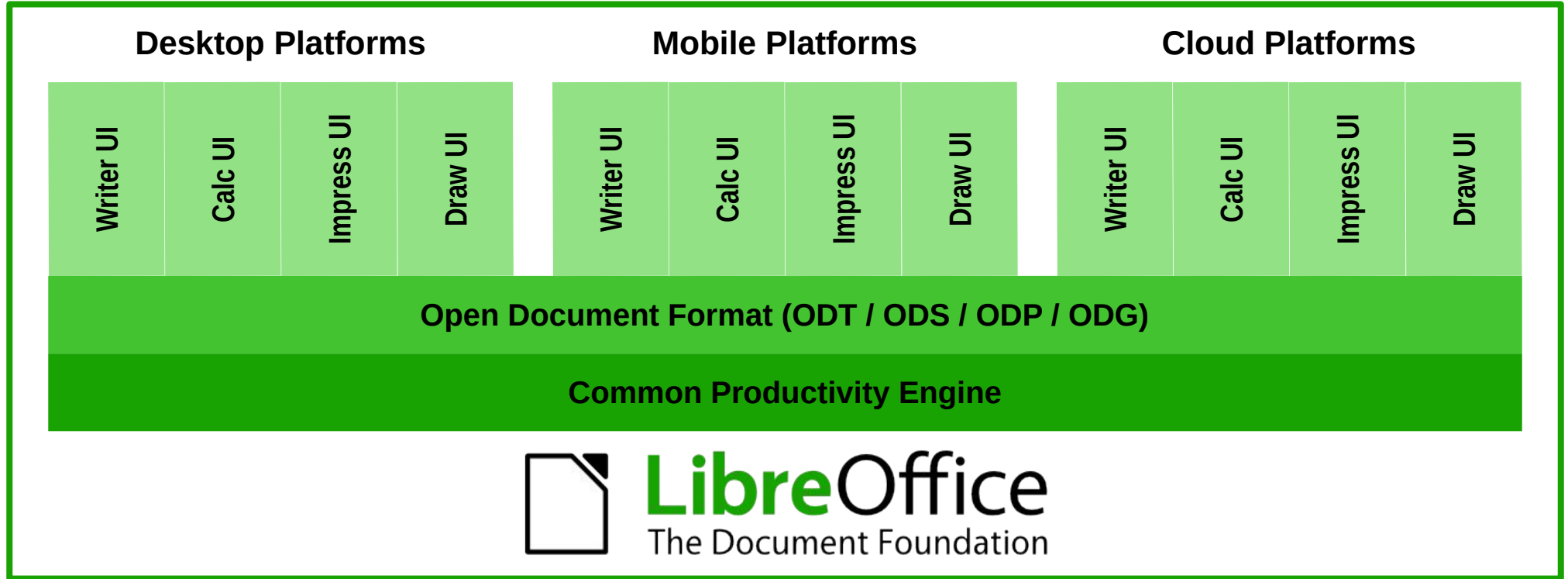


LibreOffice Technology

- LibreOffice Technology is the result of 10 years of development in the right direction
 - Same processing engine common to all modules
 - Based on a cleaned and refactored source code
 - With a focus on code quality and consistency
 - Supported by easy and extensive APIs
- The best open source platform for personal productivity tightly integrated on desktop, mobile and cloud



LibreOffice Tight Integration



Office Suites Loose Architecture

WP UI	SS UI	PS UI
DOCX	XLSX	PPTX
WP Engine	SS Engine	PS Engine

Desktop Platforms

WP UI	SS UI	PS UI
DOCX	XLSX	PPTX
WP Engine	SS Engine	PS Engine

Mobile Platforms

WP UI	SS UI	PS UI
DOCX	XLSX	PPTX
WP Engine	SS Engine	PS Engine

Cloud Platforms

Proprietary and Open Core Office Suites



LibreOffice Technology Based SW

- Desktop (TDF, Red Hat & SUSE)
- Enterprise LTS (Collabora & allotropia)
- Online / Cloud (Collabora & allotropia)
- Android (Collabora)
- iOS & Apple Store (Collabora)
- Windows Store (allotropia)



LibreOffice Technology



LibreOffice Versions & Users

Beta / RC

Early Adopters
Quality Assurance
Feature Testing
(power users)

Community

Community
Individual Users
SMB Deployments
(desktop users)

Enterprise

Enterprises
Large Migrations
Large Deployments
(professional users)

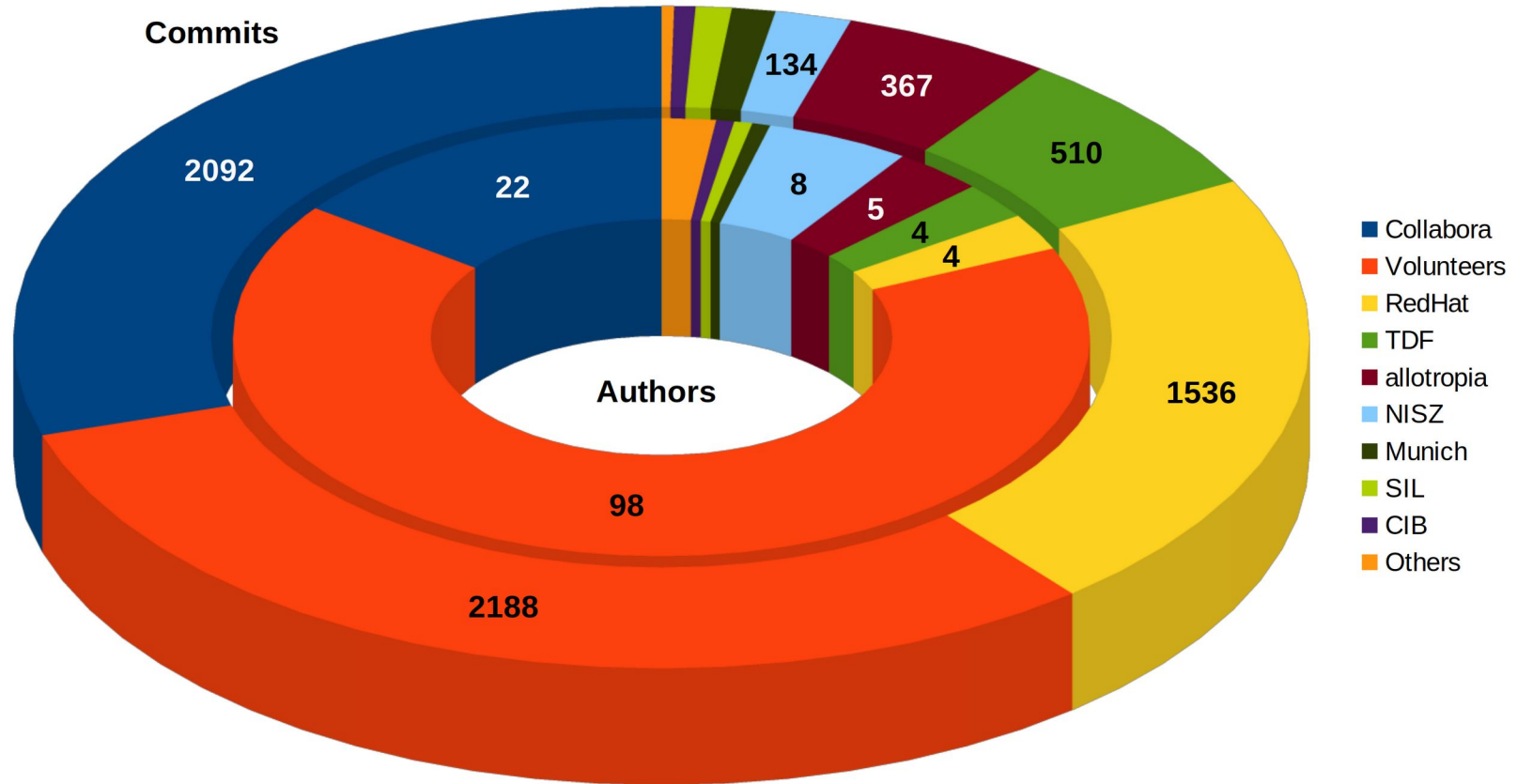


LibreOffice 7.3 New Features

- Writer
- Calc
- Impress
- Base
- Filters
- Help
- Core / General
- GUI
- Localization
- Scripting
- API Changes
- Platform Compatibility

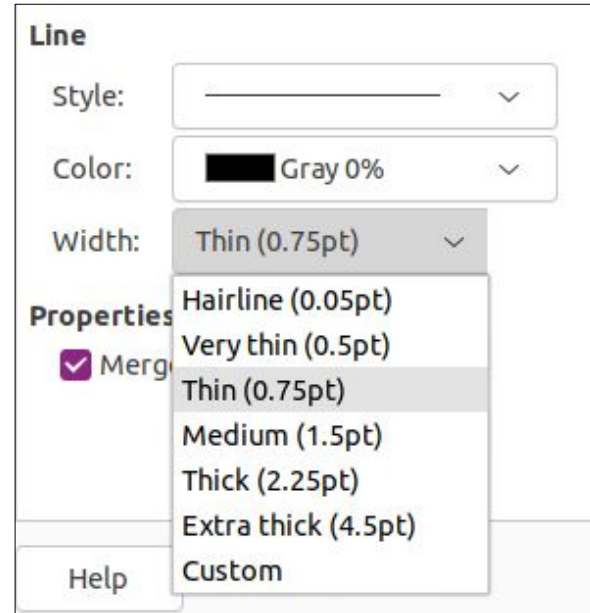


Contributions to LibreOffice 7.3



General

- LibreOffice can now generate one-dimension barcodes in addition to QR codes
- Border line widths have been unified throughout LibreOffice



Core Performances

- Optimizing LibreOffice for a larger number of users
- Fixed a mistake that was making CJK text rendering slower over time
- Various rendering improvements in the Skia-based rendering backend
- Official binary packages are now built using Link-Time Optimization, which improves overall performance



File Performances

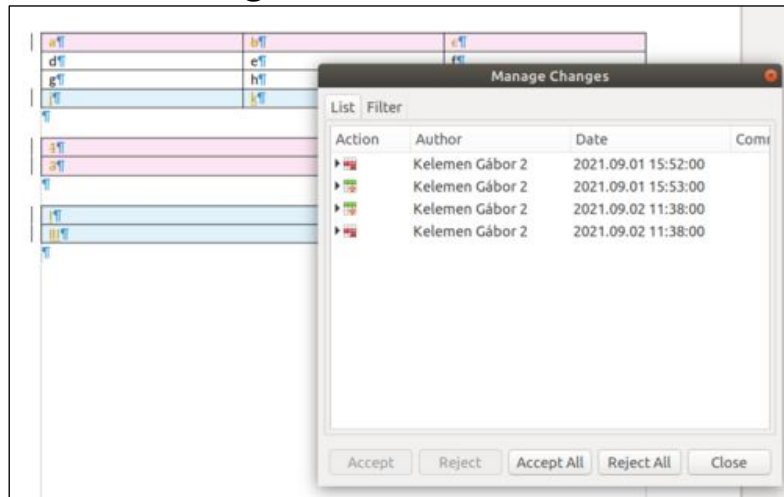
- Increased opening speed of large DOCX files (over 200 pages)
- Improved rendering speed of some complex documents
- Increased PDF export speed of some complex documents
- Speed up loading large RTL documents
- Improved opening speed of some XLSX and XLSM files
- Quicker insertion of charts (sheets with 800,000+ cells)
- Improved speed of lookup functions in some cases
- Improved speed for filtering by Autofilter
- Improved use of threads for calculations



OOXML Compatibility (1)

- Track Changes improvements for Tables and Moved Text
- These reflects in a positive way for OOXML Compatibility

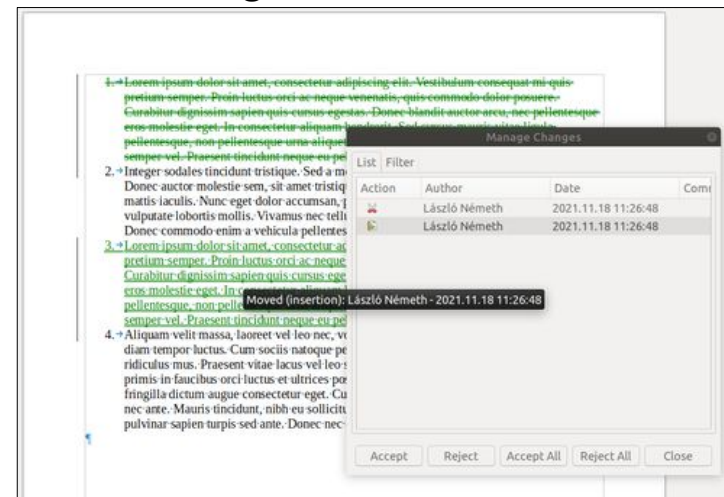
Track Changes in Tables



The screenshot shows a table with four rows and three columns. A 'Manage Changes' dialog box is open, displaying a list of changes. The table cells contain text like 'd', 'e', 'g', 'h'. The dialog box has a table with the following data:

Action	Author	Date	Com
▶	Kelemen Gábor 2	2021.09.01 15:52:00	
▶	Kelemen Gábor 2	2021.09.01 15:53:00	
▶	Kelemen Gábor 2	2021.09.02 11:38:00	
▶	Kelemen Gábor 2	2021.09.02 11:38:00	

Track Changes of Moved Text



The screenshot shows a text document with several paragraphs of Lorem Ipsum text. A 'Manage Changes' dialog box is open, displaying a list of changes. The dialog box has a table with the following data:

Action	Author	Date	Com
▶	László Németh	2021.11.18 11:26:48	
▶	László Németh	2021.11.18 11:26:48	

A tooltip is visible over the second entry in the list, showing: Moved (insertion): László Németh - 2021.11.18 11:26:48



OOXML Compatibility (2)

Improvement of Import/Export Filters

- DOC: greatly improved list/numbering import
- DOCX: greatly improved list/numbering import; hyperlinks attached to shapes are now imported/exported; fix permission for editing; track change of paragraph style
- XLSX: decreased row height for Office XLSX files; cell indent doesn't increase on each save; fix permission for editing; better support of XLSX charts
 - PPTX: fixed interactions and hyperlinks on images; fix the incorrect import/export of PPTX slide footers; fix hyperlinks on images and shapes; transparent shadow for tables



Help

- Focus search results to user's current module
- Switch from Fuzzysort to FlexSearch for index search
- Several improvements in Calc functions Help pages for accuracy and completeness and links to Calc Function wiki pages
- Help pages for the ScriptForge scripting library



Localization

- Default document language and locale formatting
 - English (Israel) [en-IL]
- Text attribution
 - Klingon [tlh]
 - Interslavic Latin [art-Latn-x-interslv]
 - Interslavic Cyrillic [art-Cyrl-x-interslv]

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Scriptforge Libraries

- New Chart service, to define charts stored in Calc sheets
- New PopupMenu service, to describe the menu to be displayed after a mouse event
- Export of documents to PDF and management of PDF options
- Printer Management: list of fonts and printers, printer options, printing documents
- The whole set of services is now available for Python scripts with identical syntax and behaviour as in Basic
 - Titles, tooltips, list- or comboboxes, labels of dialogs can be translated on-the-fly based on the L10N service tools



Platform Compatibility

- **Windows**
- The IAccessibleTable2 and IAccessibleTableCell interfaces from the IAccessible2 specification have been implemented
- **MacOS**
- LibreOffice 7.3 requires macOS 10.12 or newer to run
- A rendering backend based on the Skia library is now used also on macOS



Thanks

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