LibreOffice 7.3
New Features

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LibreOffice Development Cycles

1. Code Cleaning LibreOffice 3.x
2. User Interface LibreOffice 5.x
3. Document Compatibility LibreOffice 7.x
4. Code Refactoring LibreOffice 4.x
5. Multiple Platforms LibreOffice 6.x
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

Desktop Platforms
- Writer UI
- Calc UI
- Impress UI
- Draw UI

Mobile Platforms
- Writer UI
- Calc UI
- Impress UI
- Draw UI

Cloud Platforms
- Writer UI
- Calc UI
- Impress UI
- Draw UI

Open Document Format (ODT / ODS / ODP / ODG)

Common Productivity Engine

LibreOffice
The Document Foundation
# Office Suites Loose Architecture

<table>
<thead>
<tr>
<th>Platform Type</th>
<th>WP UI</th>
<th>SS UI</th>
<th>PS UI</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Desktop Platforms</strong></td>
<td>DOCX</td>
<td>XLSX</td>
<td>PPTX</td>
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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 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

- Collabora: 2092 commits
- Volunteers: 2188 commits
- RedHat: 98 commits
- TDF: 22 commits
- allotropia: 134 commits
- NISZ: 5 commits
- Munich: 4 commits
- SIL: 4 commits
- CIB: 510 commits
- Others: 1536 commits
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**

**Track Changes of Moved Text**
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]
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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