Lightning talk session
OpenDocument Editors DevRoom
FOSDEM 2018

Brussels / 4 & 5 February 2017
Talks

- Svante Schubert: Updates ODF Change Tracking
- Stefan Weiberg (city of Munich): Updates from last year
- GSoC Admins: Google Summer of Code at LibreOffice
- Oliver Hallot: Demo of the new Help System
DISTRIBUTED ODF APPLICATIONS

FOSDEM
FEB. 3, 2018

Svante.Schubert@cib.de
ODF APPLICATION
BIRD PERSPECTIVE

add

delete

valid
ODF

valid
ODF

modify

State Machine
ODF XML GRAMMAR

<define name="table-table">
  <element name="table:table">
    <ref name="table-table-attlist"/>
    <optional>
      <ref name="table-title"/>
    </optional>
    <optional>
      <ref name="table-desc"/>
    </optional>
    <optional>
      <ref name="table-table-source"/>
    </optional>
    <optional>
      <ref name="office-dde-source"/>
    </optional>
    <optional>
      <ref name="table-scenario"/>
    </optional>
    <optional>
      <ref name="office-forms"/>
    </optional>
    <optional>
      <ref name="table-shapes"/>
    </optional>
    <optional>
      <ref name="table-columns-and-groups"/>
      <ref name="table-rows-and-groups"/>
    </optional>
    <optional>
      <ref name="table-named-expressions"/>
    </optional>
  </element>
</define>

ODF 1.2 documents:

- 598 XML Elements
- 1300 XML Attributes
ODF XML ANALYSIS

- Mapping ODF grammar into GraphDB
- Insight in ODF structure
  - Grammar for ODT only
  - Minimal allowed ODT, ODS, ... document
  - Paragraph (...) nested?
  - Does feature test files cover all XML feature nodes?
- Using Apache TinkerPop GraphDB abstraction
### ODF GRAPH – TABLE

**GEPHI VIEWER**

```plaintext
<table>
<thead>
<tr>
<th>Table:use-banding-column-styles</th>
<th>Table:use-first-row-styles</th>
<th>Table:print</th>
<th>Table:print-ranges</th>
</tr>
</thead>
<tbody>
<tr>
<td>Epsilon</td>
<td>Epsilon</td>
<td>Epsilon</td>
<td>Epsilon</td>
</tr>
</tbody>
</table>

**Table:use-first-row-styles**

- Table:template-name
- Table:style-name
- Table:use-last-row-styles
- Table:use-column-styles

**Table:template-name**

- Table:template-columns-and-group
- Table:template-columns-and-group
- Table:template-columns-and-group

**Table:style-name**

- Table:template-columns-and-group
- Table:template-columns-and-group
- Table:template-columns-and-group

**Table:use-last-row-styles**

- Table:template-columns-and-group
- Table:template-columns-and-group
- Table:template-columns-and-group

**Table:use-column-styles**

- Table:template-columns-and-group
- Table:template-columns-and-group
- Table:template-columns-and-group

**Table:template-columns-and-group**

- Table:template-columns-and-group
- Table:template-columns-and-group
- Table:template-columns-and-group

**Table:template-columns-and-group**

- Table:template-columns-and-group
- Table:template-columns-and-group
- Table:template-columns-and-group
```
ODF GRAPH – TABLE
GEPHI VIEWER – REFACTORYING / SIMPLIFYING
ODF USER CHANGE
ADDING TO ODF GRAMMAR?

- **User changes** implicitly a de-facto standard
  - User expectation of changes across office apps
  - Adding missing information to ODF XML grammar?
State of LibreOffice at City of Munich

Stefan Weiberg
Brussels, February 8, 2018
Who am I?

- Member of the LiMux-Team since 2016
- Head of Development LibreOffice
- Representing the City in the OSBA and the Advisory Board of TDF
- Also working on GIMP, Darktable, VLC, Audacious and many more (mainly packaging)
Wait a sec, don’t you switch to MSO?

- Government only decided to switch to Windows
- The city council will decide in November if we switch to MSO or not
- But even if we switch we need LibreOffice for the next four to five years and at least two to three new releases

  ➔ Development will continue as usual
  ➔ Continuing our community efforts and Advisory Board membership
2017

- Started development of new LibreOffice release based on LibreOffice 5.2
- Finally a new buildserver (from zero to .deb in 10 minutes)
- Development of WollMux 18 (will be released on wollmux.net)
- Coding done upstream by jmux:
  - A lot of work on scheduling and bugfixing
- Coding done upstream by our contractors (CIB and KDAB)
  - Free rotating images in Writer
  - Signature lines
  - Improvements in hyperlink handling
  - KDE5/Plasma backend based on GTK3 backend (--enable-gtk3-kde5)
  - More than 40 improvements in OOXML filter
  - Many, many more bugfixes and performance improvements
tbd in 2018

- Improve WebDAV support
- Polish KDE5 support for the next Basisclient 6.0 release
- Rollout LibreOffice “5.2.8”
  - All patches are upstream and backports are available on private/swe/libreoffice5.2+backports
  - Getting rid of more than 100 internal bugs and fulfilling a lot of feature requests by users
  - Finally getting rid of LibreOffice 4.1 + ~300 backports/patches ;)
- Start development of next release based on LibreOffice 6.1
  - Make change tracking great again
  - More improvements of OOXML support
  - Bugfixing and fulfilling user requests
- Hopefully hosting a bug squashing party in Munich again
GSoC with LibreOffice

The GSoC 2018 season has just started!
The GSoC 2017 roster

- **Aleksas Pantechovskis**
  QuarkXPress import filter
  Fridrich Strba, David Tardon

- **Gautam Prajapati**
  Improve LibreOffice for Android
  Tomaž Vajngerl, Miklos Vajna

- **Grzegorz Araminowicz**
  Improve SmartArt import in LibreOffice
  Thorsten Behrens, Jan Holesovsky

- **Aditya Dewan**
  LibreOffice Online improvements
  Pranav Kant, Jan Holesovsky, Michael Meeks

- **Azorpid**
  Migrating from legacy Parser to FastParser
  Michael Meeks, Markus Mohrhard

- **Varun Dhall**
  Replace EditEngine binary clipboard with ODF filter
  Michael Stahl, Eike Rathke

- **Muhammet Kara**
  Revamp the Customization Dialog
  Heiko Tietze, Katarina Behrens

- **Ximeng Zu**
  Solving Bugs for the Android Viewer
  Tomaž Vajngerl, Miklos Vajna

- **Akshay Deep**
  Usability of Special Characters
  Thorsten Behrens, Heiko Tietze, Samuel Mehrbrodt
From the ideas page

- Additions - Tight integration of extensions like GHNS!
- Blurry shadows
- Font Handling - Substitution & Listing
- Welcome / Tip-of-the-day / What's New dialog
- Keyboard customization
- Improve Adobe Pagemaker import filter
- DSL for UI testing
- SmartArt editing in Impress
- Support charts in orcus
- Add Python extension support to LOEclipse
- Improve VML import for Writer
GSoC resources at LibreOffice

- 9th year (hopefully!)
- between 5 and 12 students, usually two mentors per student
- https://wiki.documentfoundation.org/Development/GSoC
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Statistics

Load Times at Different Phases

- **LegacyParser**
- **LegacyFastParser**
- **XfastParser**
- **Current**

Time taken to load the document in seconds

No. of rows in the document
Before
After
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