

# LibreOffice from a standards-perspective

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# Philosophy

# Realities

- LibreOffice promotes, and lives on, open standards
- But the world is full of closed-format documents -
  - That we want to at least read
  - And aspire to faithfully convert to open standards -  
to liberate the data
- For *some* formats, we also supply write support

# Philosophy

- ODF needs evolving – as our native file format, we want it to support *all* the features our core implements
- As such, we make it a habit to file our enhancements with OASIS

[1] [http://wiki.documentfoundation.org/Development/ODF\\_Implementer\\_Notes](http://wiki.documentfoundation.org/Development/ODF_Implementer_Notes)

# Pragmatism

- Beyond that, we're very pragmatic – our users' needs come first
- If another application and a standard disagree, we therefore tend to go with the application

# Mission

- LibreOffice prouids itself to be the office document conversion powerhouse!

# Implementation

# ODF Processing

- Non-xml internal representation
- xmloff: 125,000 LOC core ODF impex
- additional 13,000 LOC in sd/sw/sc for individual applications

vs.

- 1,190,000 LOC other application code (sd/sw/sc)

# Legacy

- Inherited legacy:
  - StarOffice / OpenOffice binary and xml formats
  - ancient MSO features in core
  - early OOo mistakes in ODF production

# Corner Cases

- LibreOffice is a very happy user of an ODF corner case:
  - Flat ODF
  - more at 6 from Fridrich
- LibreOffice mis-uses its ODF SMIL animation exporter to export animated SVG

# Challenges

– Recent challenges:

- OOXML roundtripping
- SVG and SMIL (mis)matches
- ODF font embedding

# Standards & non-standards

# 3<sup>rd</sup> party formats we read

- MS Visio
- MS Works
- MS Publisher
- Lotus WordPro, Lotus 1-2-3
- WordPerfect+graphics
- MathType3, MiniCalc, MS Pocket Office
- Dbase, QuattroPro, T602, UOF, HWP97
- CGM, DICOM, OS/2 MET, WMF, EMF, EMF+,
- SVG
- ...
- PowerPoint/Excel/Word since the dawn of time
- Corel Draw
- OOXML
- ...

# 3<sup>rd</sup> party formats we write

- PowerPoint/Excel/Word binary
- MSOOXML (PowerPoint/Excel/Word)
- PDF (including Hybrid PDF)
- MathType3, MiniCalc, MS Pocket Office
- Dbase, UOF
- WMF, EMF, SVG
- ...

# The Document Foundation

# TDF & Open Standards

## – The Document Foundation

- endorses & promotes Open Standards
- liases with OKF and FSFE on Open Data & Open Standards
- promotes Document Freedom Days
- engages with governments and charities on the use of ODF

# TDF & ODF

- The Document Foundation
  - is contributing OASIS member
  - offers any interested member access to OASIS resources & technical committees
  - is hosting LibreOffice HackFests & this PlugFest

[thb@documentfoundation.org](mailto:thb@documentfoundation.org)  
ODF TC – ODF collaboration SC

And your questions!