

# Lightning talk session

OpenDocument Editors DevRoom

FOSDEM 2018

beer  
open source  
lightning talks



devrooms  
5000+ hackers  
400+ lectures

Brussels / 4 & 5 February 2017

[schedule](#)

# 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

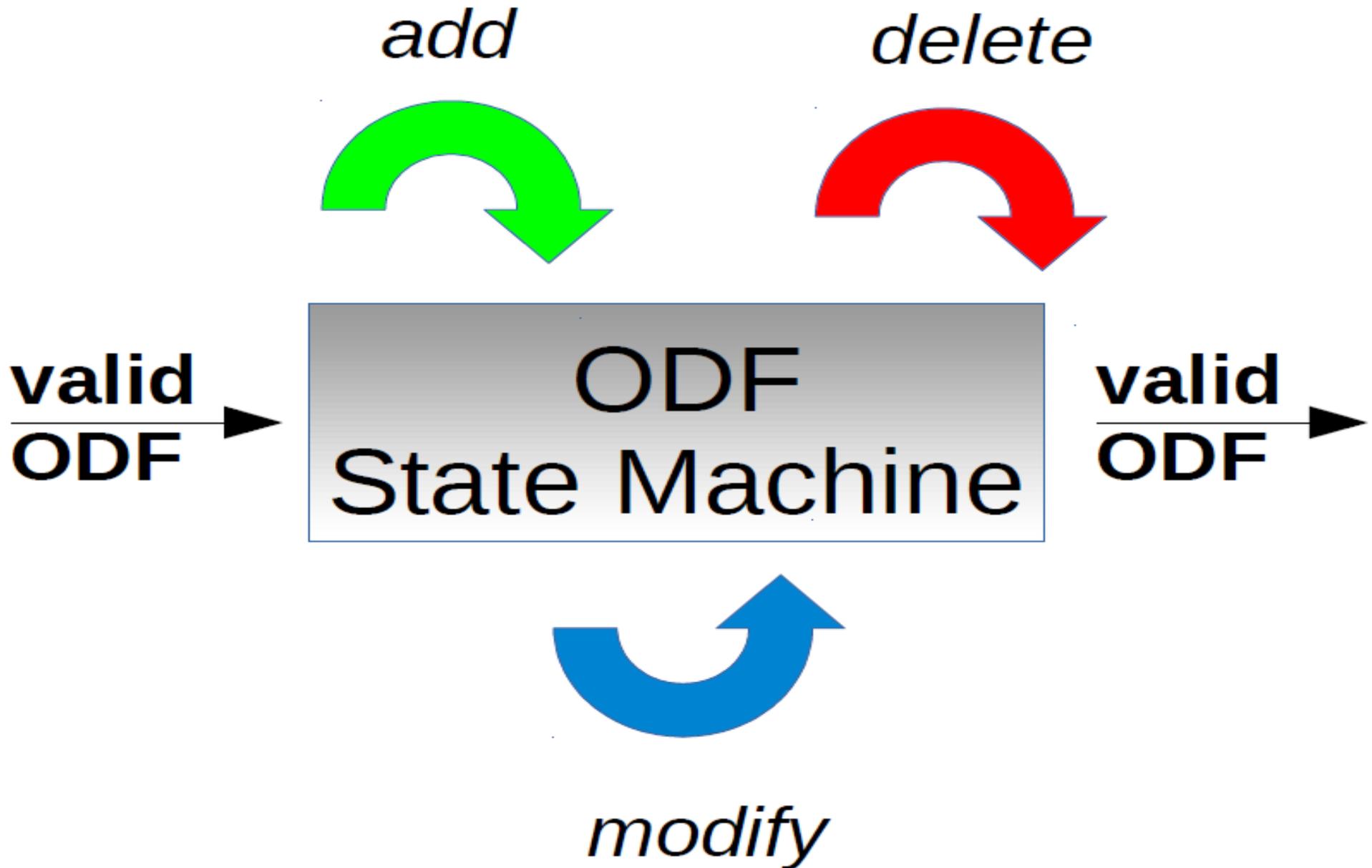
FOSDEM  
FEB. 3, 2018

[Svante.Schubert@cib.de](mailto:Svante.Schubert@cib.de)



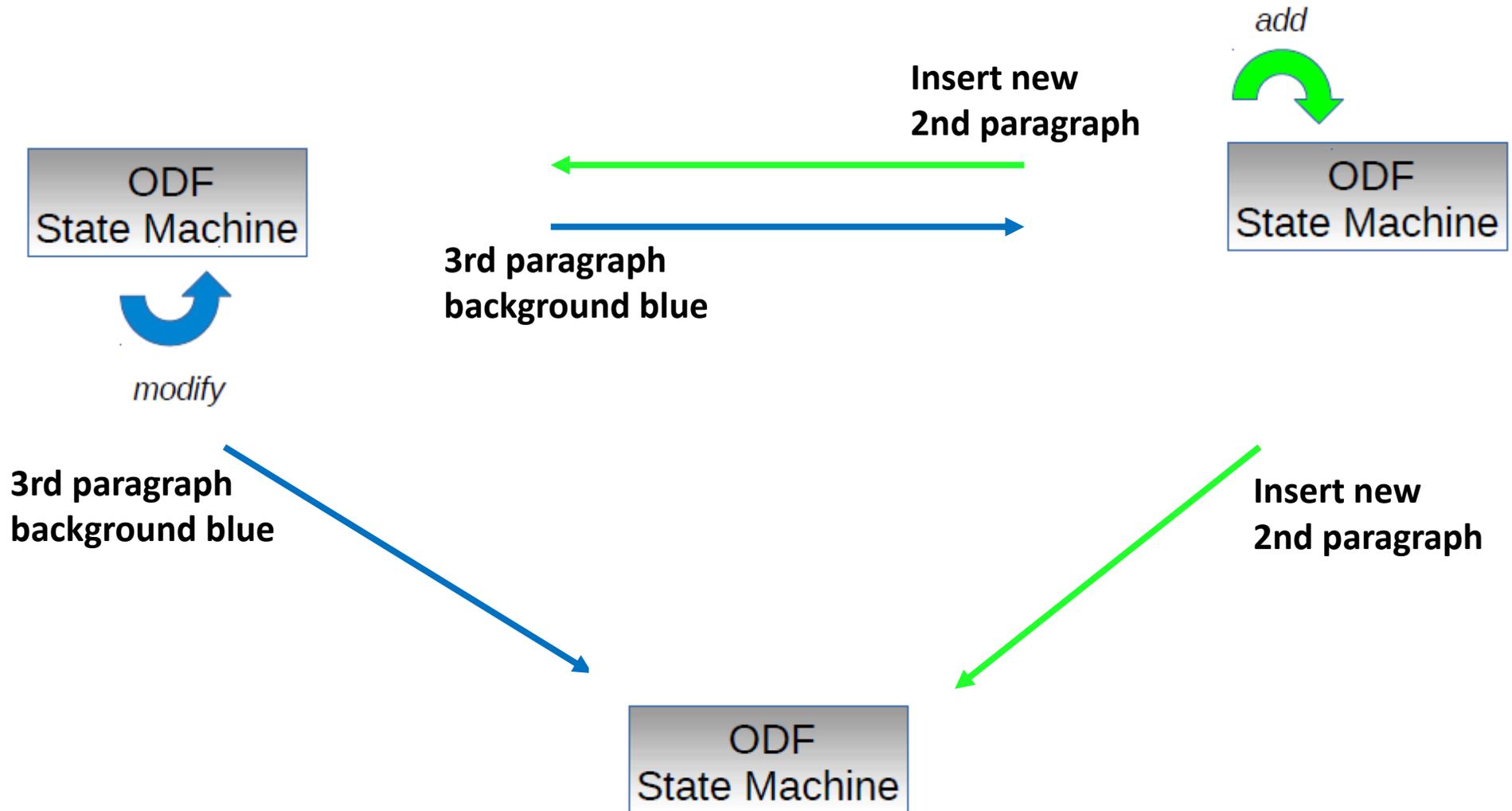
# ODF APPLICATION

BIRD PERSPECTIVE



# ODF APPLICATIONS COLLABORATION

## BIRD PERSPECTIVE



# ODF XML GRAMMAR



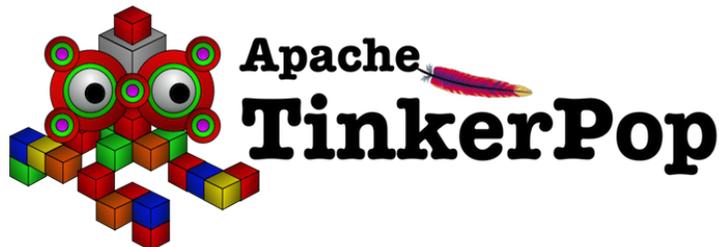
```
<define name="table-table">
  <element name="table:table">
    <ref name="table-table-attlist"/>
    <optional>
      <ref name="table-title"/>
    </optional>
    <optional>
      <ref name="table-desc"/>
    </optional>
    <optional>
      <ref name="table-table-source"/>
    </optional>
    <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>
    <ref name="table-columns-and-groups"/>
    <ref name="table-rows-and-groups"/>
    <optional>
      <ref name="table-named-expressions"/>
    </optional>
  </element>
</define>
<define name="table-columns-and-groups">
  <oneOrMore>
```

ODF 1.2 documents:

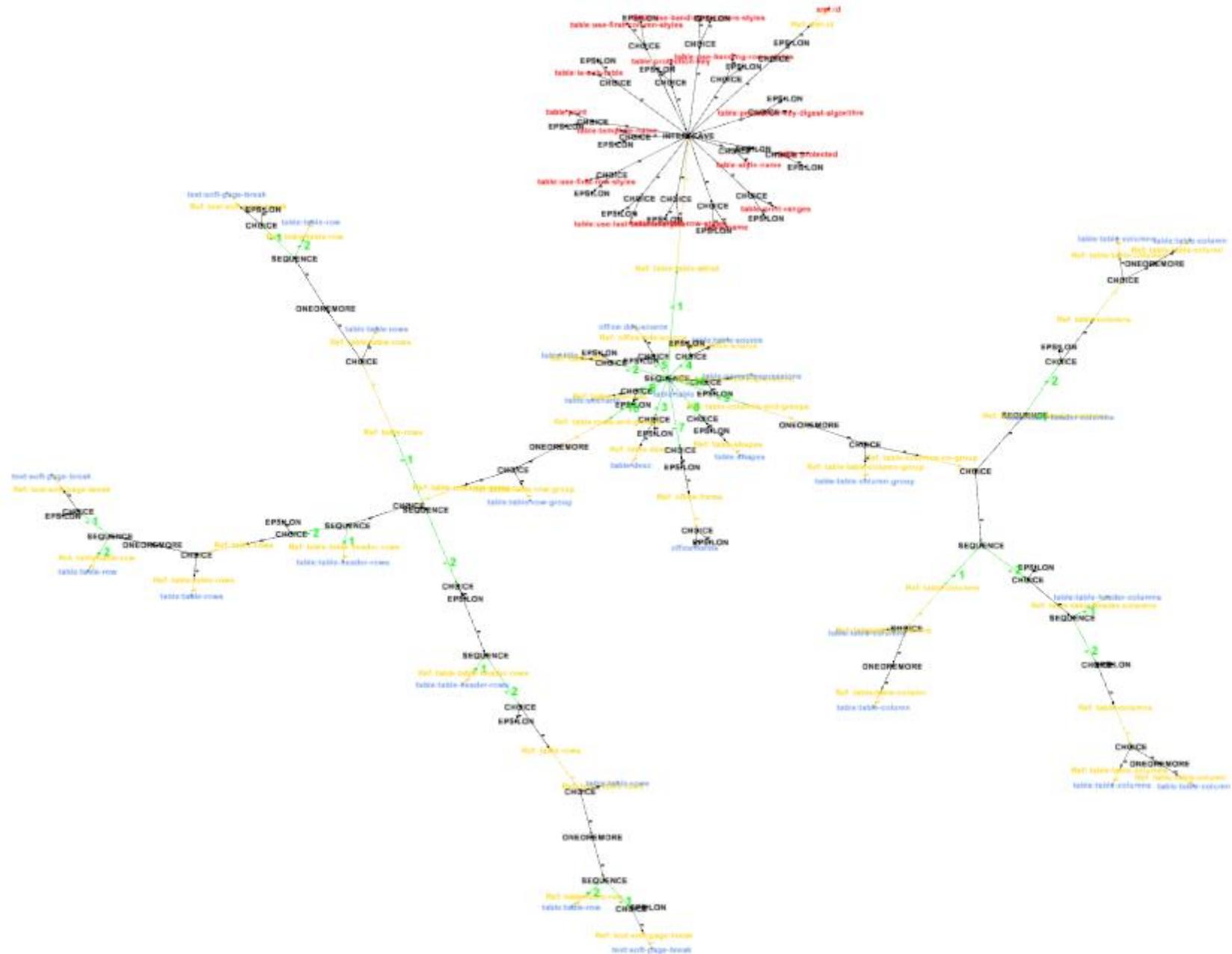
- 598 XML Elements
- 1300 XML Attributes

# 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

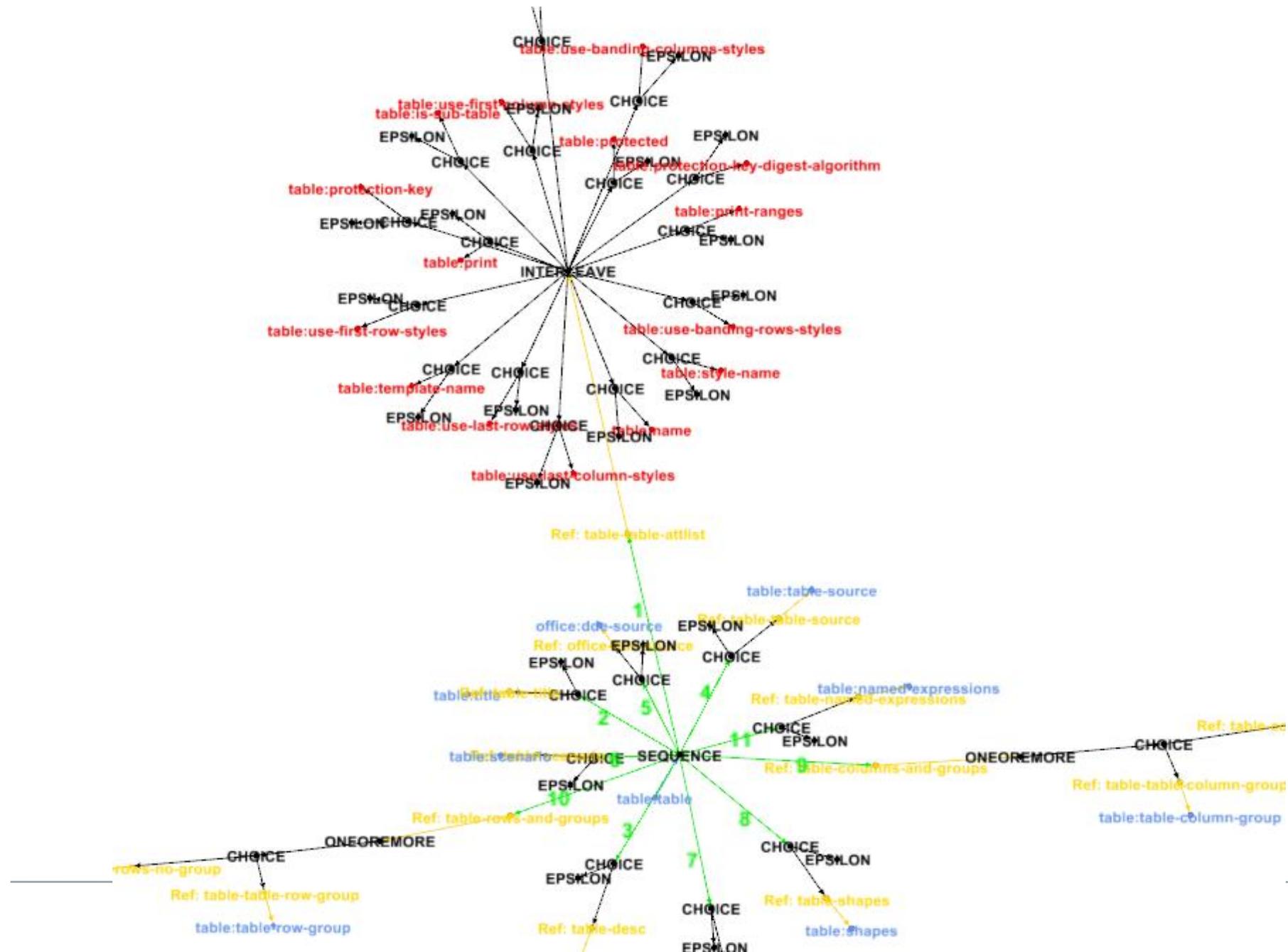


# ODF GRAPH – TABLE GEPHI VIEWER



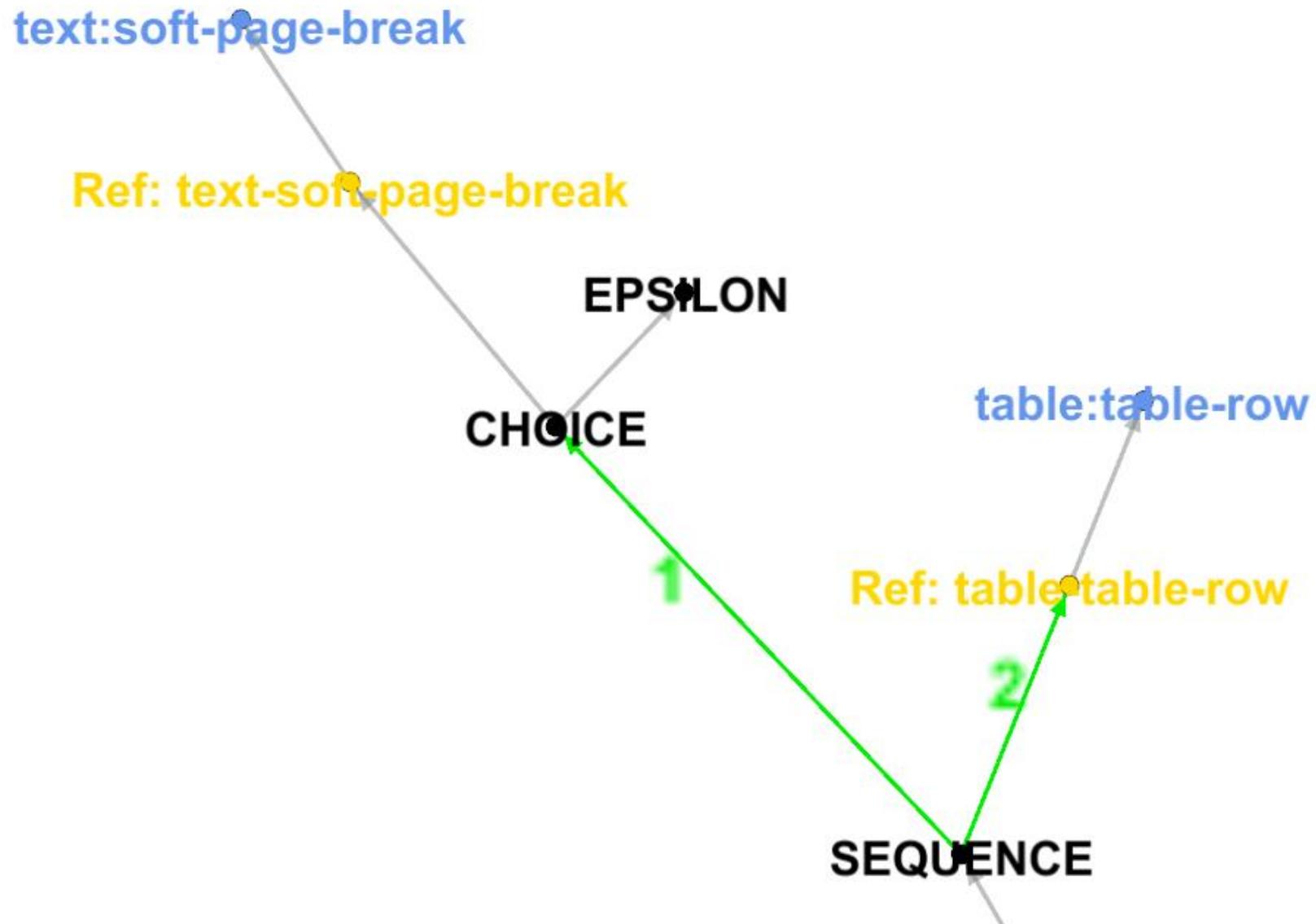
# ODF GRAPH – TABLE

## GEPHI VIEWER



# ODF GRAPH – TABLE

## GEPHI VIEWER – REFACTORING / 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](https://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

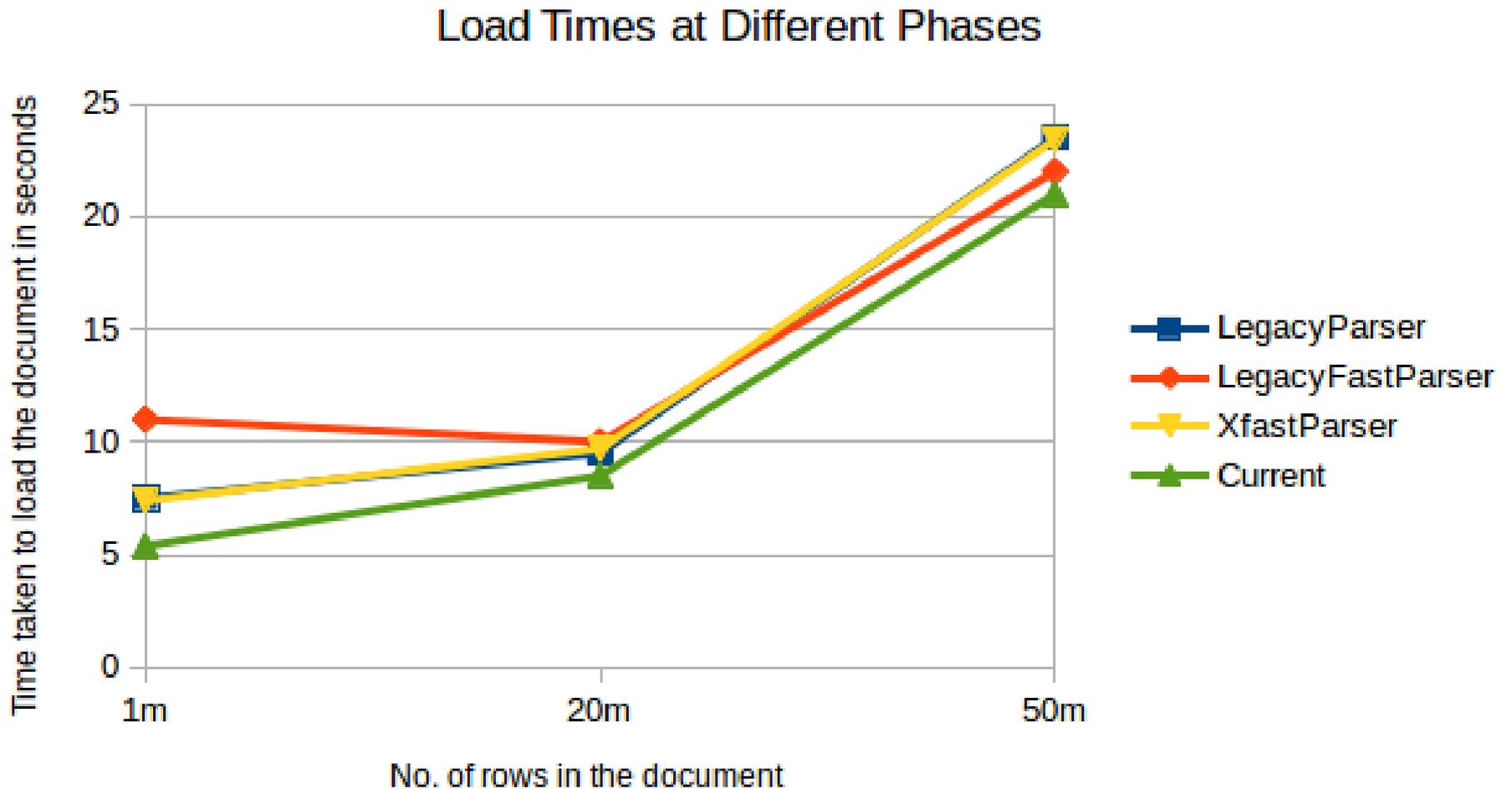
# GSoC resources at LibreOffice

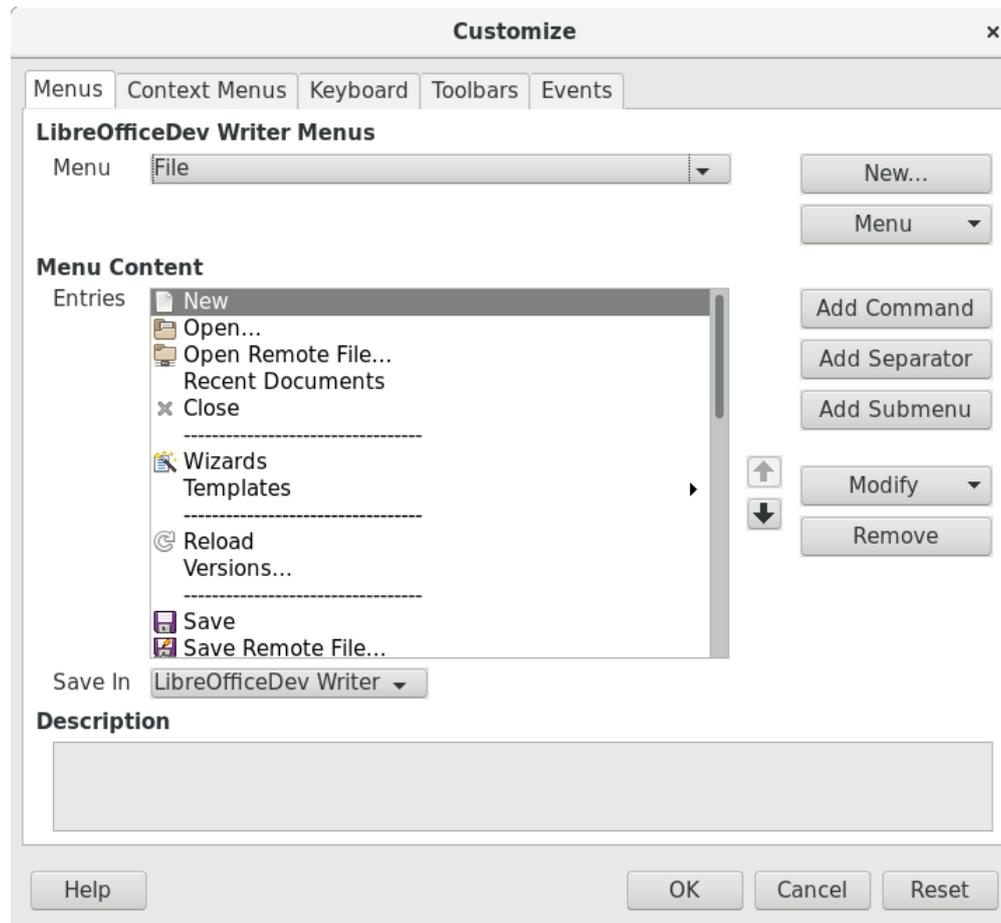
- 9<sup>th</sup> year (hopefully!)
- between 5 and 12 students, usually two mentors per student
- <https://wiki.documentfoundation.org/Development/GSoC/Ideas>
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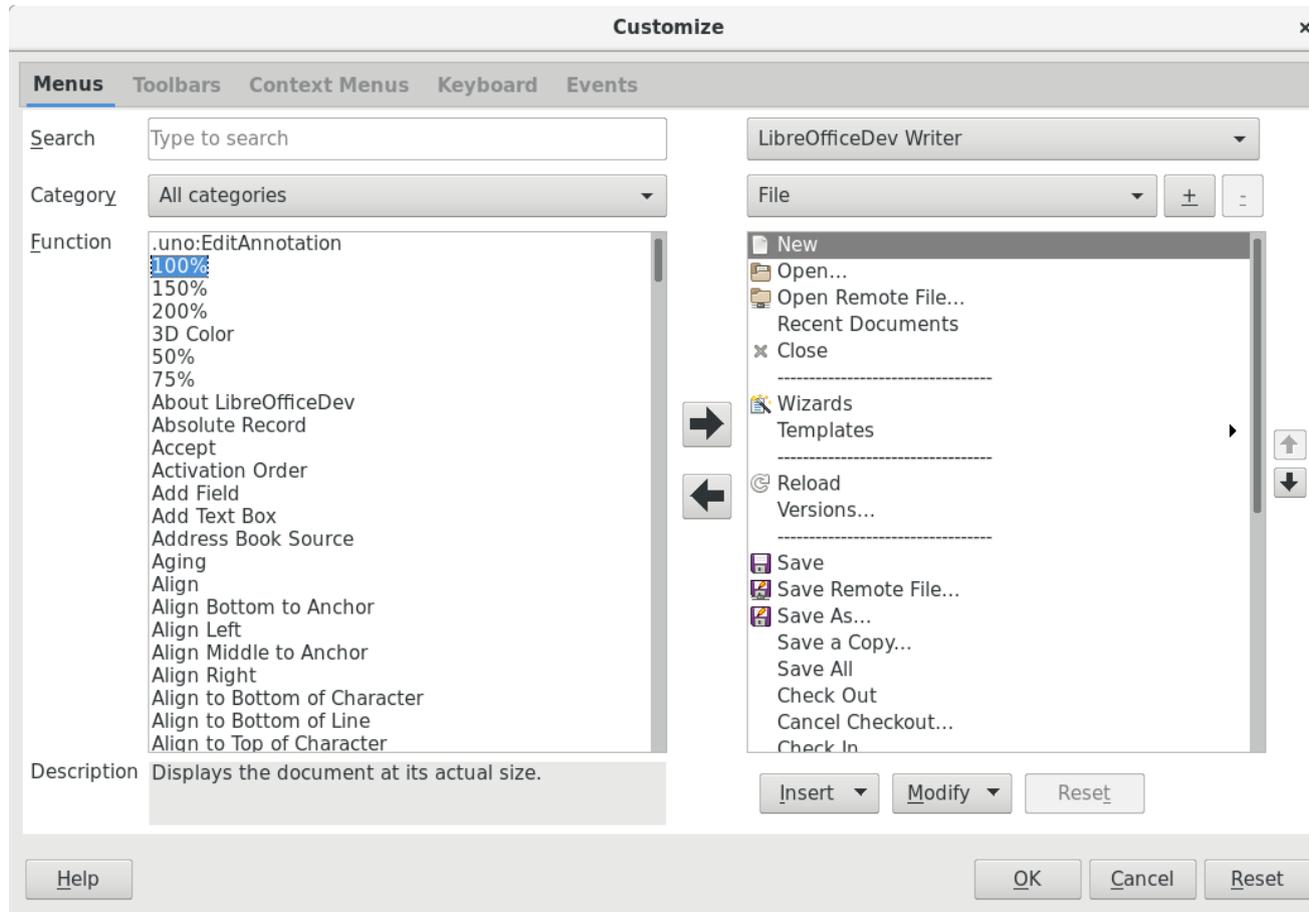
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# Statistics





Before



After

# Thank you Google for sponsoring!



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