



LibreOffice
The Document Foundation



Lightning Talks!

LIBOCON 2019

ALMERIA | 13th Sept. 2019



**Lubos
Llunak**

Cleaning up Calc OpenCL
Code



**Björn
Michaelse
n**

Reproducible Builds



**Guilhem
Moulin**

**guilhem@libreoffice.
org**

Authenticating against
gerrit using TDF's OAuth
IdP



**Björn
Michaelsen**
n

bjoern.michaelsen@libreoffice.org

Quo Vadis Writer Memory Management



<noelgrandin> is there some kind of design for what should supercede SwModify/SwClient?

<mst__> Sweet5hark1 said he would personally carry every message from the core to the layout frames

Carrying Messages



<noelgrandin> is there some kind of design for what should supercede SwModify/SwClient

mst__ > Sweet5hark1 said he would personally carry every message from the core to the layout frames UNO

Carrying Messages



```
git grep calbck  
sw/source/core/unocore/  
  
shows nothing on master.
```

SwClient-free unocore

Author [Bjoern Michaelsen <bjoern.michaelsen@libreoffice.org>](#) Jan 27, 2019 9:39 PM
Committer [Bjoern Michaelsen <bjoern.michaelsen@libreoffice.org>](#) May 7, 2019 12:03 AM
Commit [9a2919b323901ee5f5370b92b4b743046f444729](#) [\(browse\)](#)
Parent(s) [a43909d538a63ec10e267d58acecbeb9a65fd3d8](#) [\(browse\)](#)
Change-Id [Ifdf17cbcb4ea488bf7fead5084abb42f6eb3f6d7](#) [\(browse\)](#)

Files Diff against: **Base**

File Path	Comments	Size
Commit Message		
sw/inc/frmfmt.hxx		16
sw/inc/unodraw.hxx		11
sw/source/core/layout/atrfm.cxx		1
sw/source/core/unocore/unodraw.cxx		123
	+91, -60	

History

Björn Michaelsen	Uploaded patch set 1.	Feb 9, 2019
Jenkins	Patch Set 1: Build queued https://ci.libreoffice.org/job/gerrit_master/24231/	Feb 9, 2019
Jenkins	Patch Set 1: Verified-1 Build Failed https://ci.libreoffice.org/job/gerrit_master/24231/ : FAILURE error "no need to explicitly init an insta...	Feb 9, 2019
Björn Michaelsen	Patch Set 2: Published edit on patch set 1.	Feb 10, 2019
Jenkins	Patch Set 2: Build queued https://ci.libreoffice.org/job/gerrit_master/24279/	Feb 10, 2019
Jenkins	Patch Set 2: Verified-1 Build Failed https://ci.libreoffice.org/job/gerrit_master/24279/ : FAILURE the cppunit test CppunitTest_sw_ooxmli...	Feb 10, 2019
Björn Michaelsen	Uploaded patch set 3.	Feb 11, 2019
Jenkins	Patch Set 3: Build queued https://ci.libreoffice.org/job/gerrit_master/24323/	Feb 11, 2019
Jenkins	Patch Set 3: Verified-1 Build Failed https://ci.libreoffice.org/job/gerrit_master/24323/ : FAILURE the cppunit test CppunitTest_sw_ooxmli...	Feb 11, 2019
Pootle bot	Patch Set 3: A polite ping, still working on this patch?	Mar 14, 2019
Björn Michaelsen	Patch Set 4: Patch Set 3 was rebased	Mar 26 10:26 PM
Jenkins	Patch Set 4: Build queued https://ci.libreoffice.org/job/gerrit_master/27253/	Mar 26 10:26 PM
Jenkins	Patch Set 4: Verified-1 Build Failed https://ci.libreoffice.org/job/gerrit_master/27253/ : ABORTED	Mar 27 2:31 AM
Pootle bot	Patch Set 4: A polite ping, still working on this patch?	Apr 27 4:49 AM
Noel Grandin	Patch Set 5: Patch Set 4 was rebased	Apr 27 8:59 AM
Jenkins	Patch Set 5: Build queued https://ci.libreoffice.org/job/gerrit_master/29474/	Apr 27 9:00 AM
Jenkins	Patch Set 5: Verified-1 Build Failed https://ci.libreoffice.org/job/gerrit_master/29474/ : ABORTED	Apr 27 10:24 AM
Björn Michaelsen	Uploaded patch set 6.	May 7 12:30 AM
Jenkins	Patch Set 6: Build queued https://ci.libreoffice.org/job/gerrit_master/30100/	May 7 12:31 AM
Jenkins	Patch Set 6: Verified-1 Build Failed https://ci.libreoffice.org/job/gerrit_master/30100/ : FAILURE the cppunit test CppunitTest_sw_ooxmli...	May 7 1:18 AM
Pootle bot	Patch Set 6: A polite ping, still working on this patch?	Jun 6 4:51 AM
Pootle bot	Abandoned Abandoning this for the moment due to inactivity, please be aware it can anytime be reopened, should you want to conti...	Jul 7 5:37 AM



make page bookkeep the SwXShapes

- and remove SwClient/Modify between SwXShape and Page

kill SwXShape SwClient

this completely removes calbck.hxx from sw/source/core/unocore -- may it never return.

Merged on Sept. 7th



```
$ git grep calbck.hxx |grep -o ^sw/.*/|sort|uniq -c|sort -n  
1 sw/qa/core/  
1 sw/source/core/attr/  
1 sw/source/core/draw/  
1 sw/source/core/tox/  
1 sw/source/core/view/  
1 sw/source/filter/html/  
1 sw/source/filter/ww8/  
1 sw/source/filter/xml/  
1 sw/source/uiibase/app/  
1 sw/source/uiibase/dochdl/  
1 sw/source/uiibase/docww/  
1 sw/source/uiibase/shells/  
1 sw/source/uiibase/uno/  
1 sw/source/ui/fldui/
```

```
2 sw/source/core/crsr/  
2 sw/source/core/frmedt/  
2 sw/source/core/table/  
2 sw/source/core/undo/  
2 sw/source/uiibase/inc/  
3 sw/source/core/access/  
3 sw/source/core/edit/  
3 sw/source/core/txtnode/  
4 sw/inc/pch/  
4 sw/source/core/unocore/  
5 sw/source/core/inc/  
5 sw/source/core/text/  
6 sw/source/core/docnode/  
11 sw/source/core/fields/  
14 sw/source/core/doc/  
14 sw/source/core/layout/
```

Remaining work:




**Alain
Romedenne**

**LibreOfficiant@sfr.
fr**

20y+ old Basic



Agenda

- Adv. Basic libraries
- LibO Basic Primititives
- Better Basic libraries
- What else ? 



Advanced Basic libraries

- Not documented
 - org. is discouraging documentation
- Few comments
 - Unordered macros
- Mixed up content:
 - Arrays, text, numbers, API, Calc, Impress, Writer, or else ?
- Advanced really?
 - Access2Base is an exception
- No conventions
- No guidance



Basic (not so) Primititives

- Structured:
 - Arrays, Calc, IO, Logging, Math, Strings, Writer, ..
- Commented
- Promoting Dev^t standards
- Pedagogic incentive
- Decorrelating UI/non UI
- Tests driven



Better Basic libraries

- Legacy Basic Libraries
 - As Is
- Add Advanced ones
 - Structured organisation
 - Commented & documented
- such as..



x-language 'ScriptForge'

- Multiplatforms
 - linux, mac, win
 - finger pointed exceptions e.g. COM/OLE
- Multilingual
- Procedural coding for standard types: text, arrays, ...
- OOP coding for objects: files, dialogs, streams
- Error Handling foundation
- Impled in Basic 1 Python when relevant (xml, json, ..)
- Best Practices driven
- Linked to local/online help
- Focused on robustness

volunteers

Jean-François Nifenecker

Jean-Pierre Ledure

Alain Romedenne

Get involved!





**Arnaud
Versini**

**arnaud.versini@libreoffice.
org**

How to make a bad version of LibreOffice

The French way



Safety instructions first

- Please make Cloph go out, we don't want him to get an heart attack !
- Don't try to do that at your office, that's really risky !



What is the MIMO LibreOffice version

- Special version of LibreOffice version for french administration
- Really a special version...
- Made without certified developers



Libreoffice from MIMO 6.1

- Let's talk about MIMO 6.1
- Wich version is it ?
 - It's not 6.1.6...
 - It's not 6.1.5...
 - It's called 6.1.5 or 6.1.6
 - It's based on libreoffice6-1 branch.
- More than 100 commits missing to be a REAL 6.1.6.
- Few commits missing to be a 6.1.5

2019-07-17	acim#1378: LibreOffice 6: Problème de centrage
2019-01-23	bump product version to 6.1.5.1.M6
2019-01-23	ACIM1319: Clean SQL string
2019-01-23	acim#910: Fix text color when printing
2019-01-23	acim#1271: Fix publipostage
2019-01-23	acim#1026: Fix with commit af11abf3626e12d2b4
2019-01-23	RTF fixes: Port LO 4.3.7.2 Linagora patch
2019-01-18	Adapt solenv/flatpak-manifest.in to recent down
2019-01-17	Related: tdf#122509 prevent access of not existi
2019-01-17	Backport Elementary theme from master
2019-01-16	bump product version to 6.1.6.0.0+



Let's count with MIMO

- What is after 6 ?
- 7 ? No ! It's 11 !
- Where are MIMO sources for other version ?
- M1 to M5 missing, M6 to M11 also missing...
- Making a version is not just putting a number on it...

Age	Commit message (Expand)
11 days	bump product version to 6.1.6.3.M12 distro/mimo/mimo-6-1
11 days	More uses of referer URL with SvxBrushItem
11 days	ACIM#1408: explicitly exclude LibreLogo from XScript usage
11 days	ACIM#1408 sanitize LibreLogo calls
2019-07-17	Replace README.md
2019-07-17	bump product version to 6.1.6.3.M11
2019-07-17	Revert "tosca#24996: Recolor the shadow in the renderer"
2019-07-17	Revert "tdf#121606: displaying Merge toolbar shouldn't activate"
2019-07-17	Revert "tdf#121607 defer other requests until password dialog is closed"
2019-07-17	tosca#24996: Recolor the shadow in the renderer
2019-07-17	Revert "tosca#24347: Pb ombre dans impress"
2019-07-17	tdf#122198 don't remove db after close
2019-07-17	Revert "acim#1271: Fix publipos"
2019-07-17	tosca#24253: souci décalage Récursif Writer
2019-07-17	tosca#24347: Pb ombrage dans Impress
2019-07-17	tdf#124824 FILEOPEN: Error rendering page break
2019-07-17	acim#1378: LibreOffice 6: Problème de centrage des titres de ...
2019-01-23	bump product version to 6.1.5.1.M6



How to misuse of git

- Don't use tags
- French commits messages
- Change original commit messages
- Use branches really badly
- Replace README.MD with advertisement !

Age	Commit message (Expand)
11 days	bump product versionto 6.1.6.3.M12 distro/mimo/mimo-6-1
11 days	More uses of referer URL with SvxBrushItem
11 days	ACIM#1408: explicitly exclude LibreLogo from XScript usage
11 days	ACIM#1408 sanitize LibreLogo calls
2019-07-17	Replace README.md
2019-07-17	bump product versionto 6.1.6.3.M11
2019-07-17	Revert "tosca#24996: Recolor the shadow in the renderer"
2019-07-17	Revert "tdf#121606: displaying Mail Merge toolbar shouldn't activate connec
2019-07-17	Revert "tdf#121607 defer other requests until password dialog is dismissed
2019-07-17	tosca#24996: Recolor the shadow in the renderer
2019-07-17	Revert "tosca#24347: Pb ombrage dans impress"
2019-07-17	tdf#122198 don't remove db after close
2019-07-17	Revert "acim#1271: Fix publipostage"
2019-07-17	tosca#24253: souci décalage RTF sous Writer
2019-07-17	tosca#24347: Pb ombrage dans impress
2019-07-17	tdf#124824 FILEOPEN: Error rendering page break
2019-07-17	acim#1378: LibreOffice 6: Problème de centrage des titres de ...
2019-01-23	bump product version to 6.1.5.1.M6



How to misuse git

- A big commit instead of cherry-picking

The screenshot shows a Git commit page for revision 915197c9. At the top, there are navigation buttons: "Précédent", "Suivant", and "OK". The commit ID is 915197c90792ce25774fcc8a35c412c9cd9323ae, with a parent ID of 8d1f5283. The commit message is "Ajouté par No names on my presentation sorry il y a environ 5 ans fdo#69195 , fdo#73937 , fdo#67712". The change ID is lcf91378c33573b812984d9f48b22e2d14cb78926. Below the message, there is a section for "Fichiers" (Files) with a legend for file changes: "ajouté" (added), "modifié" (modified), "copié" (copied), "renommé" (renamed), and "supprimé" (deleted). The file tree shows a directory structure with many files and subdirectories, all marked as modified (diff). The files include: include/sfx2/sfxsids.hrc, include/sfx2/templdlg.hxx, include/svtools/treelistbox.hxx, include/xmlloff/shapeexport.hxx, sc/inc/drwlayer.hxx, qa/unit/filters-test.cxx, qa/unit/ucalc.cxx, source/core/data/drwlayer.cxx, source/filter/xml/xmllexprt.cxx, source/ui/unoobj/shapeuno.cxx, source/view/drawview.cxx, source/view/formatsh.cxx, and sd.



Available version of MIMO

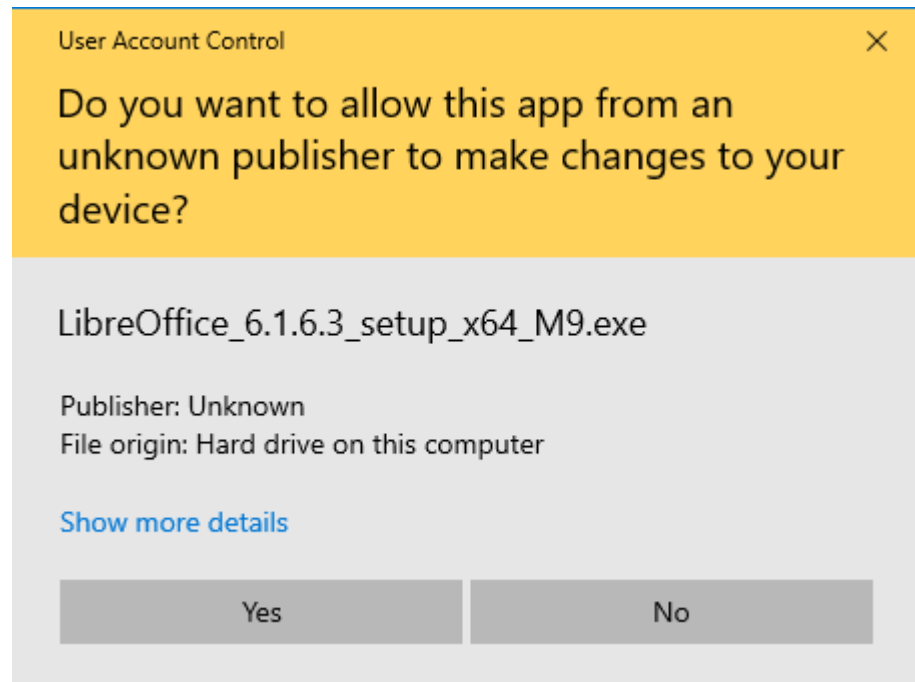
- The MIMO version on available on their website is 6.1.6.3 M9
- Just click on the git link !
- The answer is 404 response !
- Wrong copyright year...





Signed binaries

- TDF version is signed, MIMO version ?
- Of course not signed !







Conclusion

- Don't use MIMO version of LibreOffice, still missing CVE patches
- If you need proper support please ask certified developers !
- If you want additional information don't hesitate to ask me or the current state contractor

Thank you

Notes de version Site Web Crédits Fermer

 **LibreOffice** 

LibreOfficeDev

Version: 60.4.0.0.alpha0+
Build ID: 2acafef57153bfa1ade59e887a55457ba677b976
Threads CPU : 8; OS : Linux 4.15; UI Render : par défaut; VCL: gtk3;
Locale : fr-FR (fr_FR.UTF-8); Langue IHM : fr-FR
Calc: threaded

LibreOfficeDev est une suite bureautique open source, moderne et facile à utiliser, pour le traitement de texte, les classeurs, les présentations et plus encore.

[Voir le journal : 2acafef57153bfa1ade59e887a55457ba677b976](#)

Cette version est fournie par Arnaud VERSINI.
Copyright © 2000–2019 Contributeurs LibreOffice.
LibreOfficeDev est dérivé de LibreOffice qui est basé sur OpenOffice.org



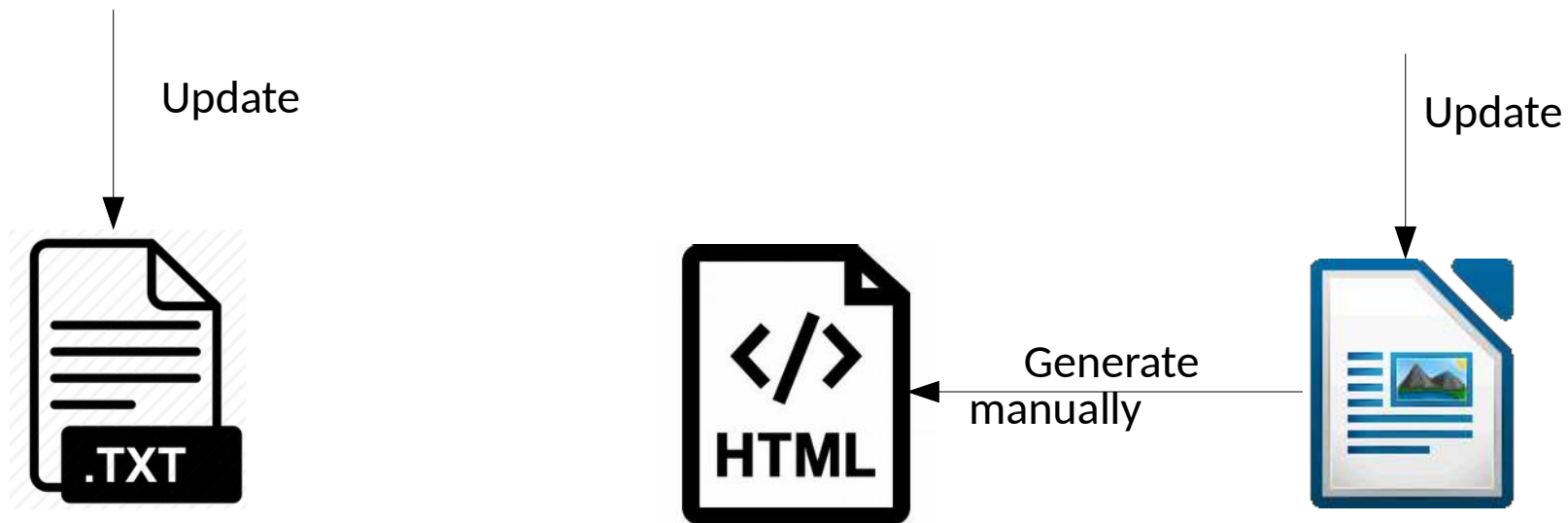
Tamás Bunth

btomi96@gmail.com

License handling, v2.0

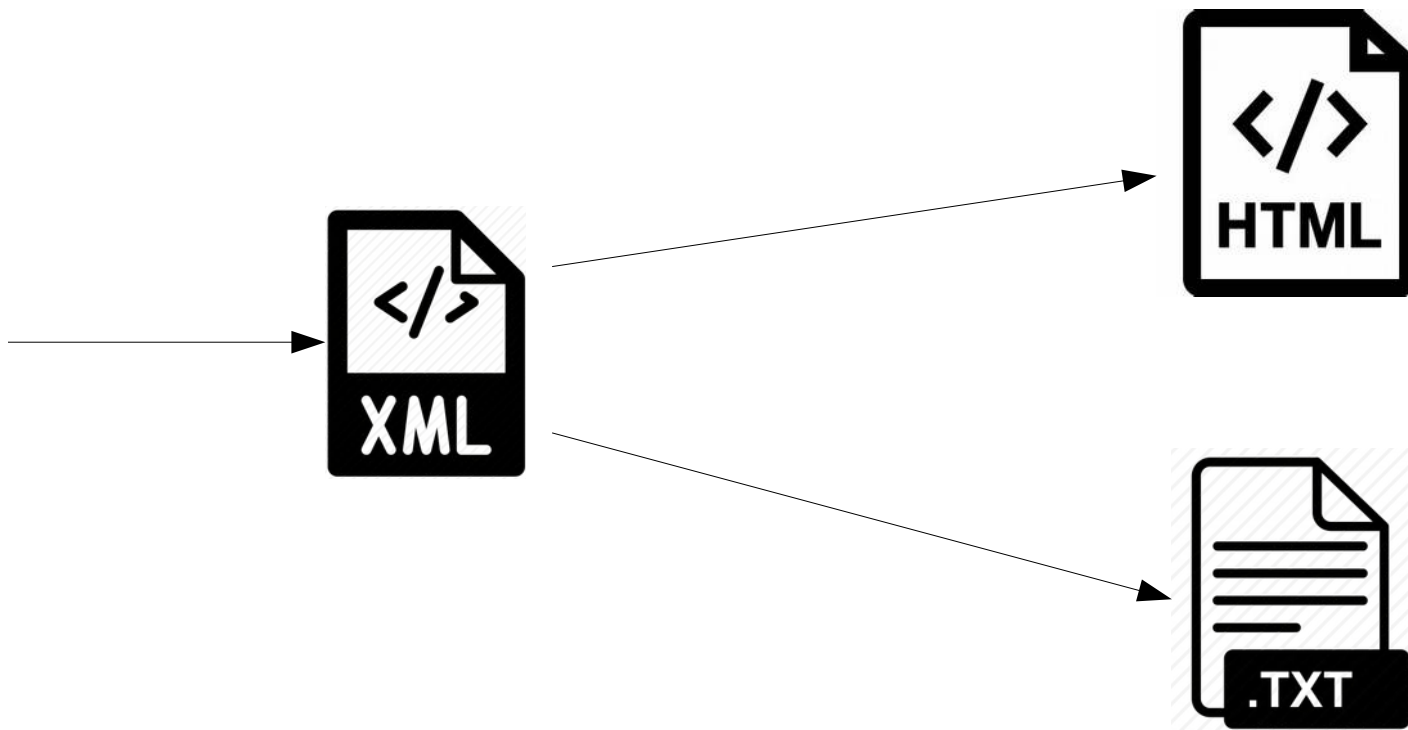


License - before





License - after





Conditional lincese

*The following software **may** be included in this product: FOO. Use any of this software is governed by the terms of the license below...*

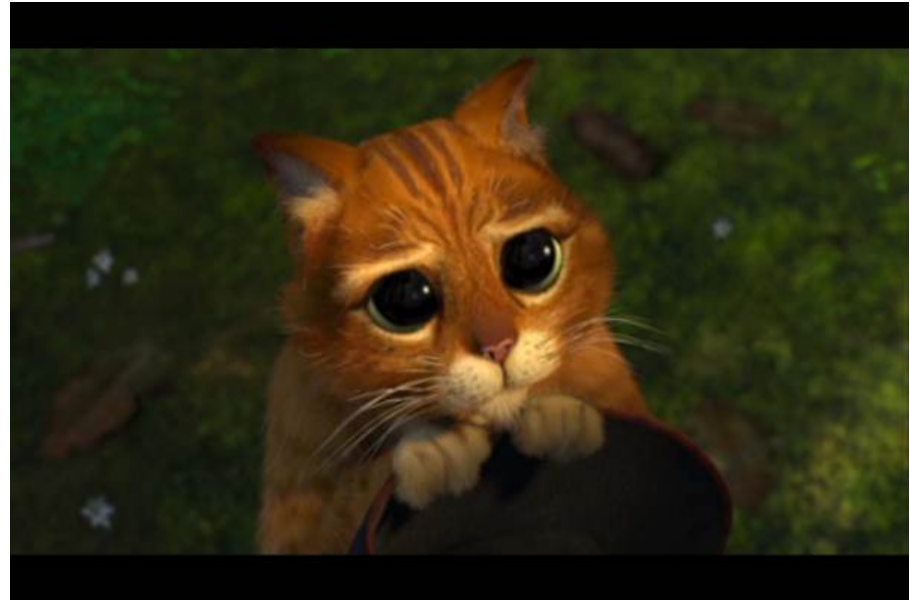
--with-system-foo

--with-java

- Filter based on \$BUILD_TYPE, \$OS, \$WITH_THEMES, \$MPL_SUBSET



Please update the license when adding an external.





**Svante
Schubert**

svante.schubert@gmail.c
om

The Next Millenium File ForMAT

A futuristic cityscape at night, featuring tall, illuminated buildings and a bright light source in the center, creating a glowing atmosphere. The text is overlaid on this background.

THE NEXT
MILL enium
FILE ForMAT

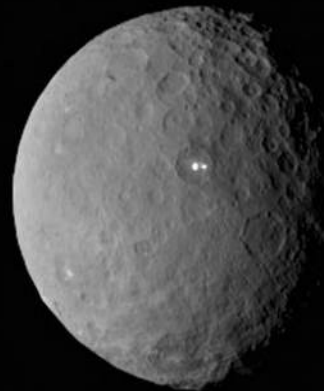
NOW in the year
2169

ODF FILE ForMat
Version
42

IS published

TriumVirAT

MODEI



VIEW



CONTROLLER (API)

Collab by design (API)

- API based on high-level user semantic
- DISPATCHING CHANGES (API Call)
- Working with ODF
direCtly with GÜT++

TriumVirAT++

- Collab by design (API)
- Cross layout (VIEW)
- Machine readable model
- generation from spec

ADVANTAGES

- Alltime collaboration
- ODF working on GÜT++
(full history support)
- Generation of
libreoffice 242

B

remember:

If you are interested in
time travelling you can
always meet me..

Yesterday..



**Iván
Sánchez
Ortega**

Unicode in 5 minutes



**Dennis
Roczek**

Archiving important
wiki content



**Ashod
Nakashian**

GDB tips and tricks



案浦浩二
Koji
Annoura

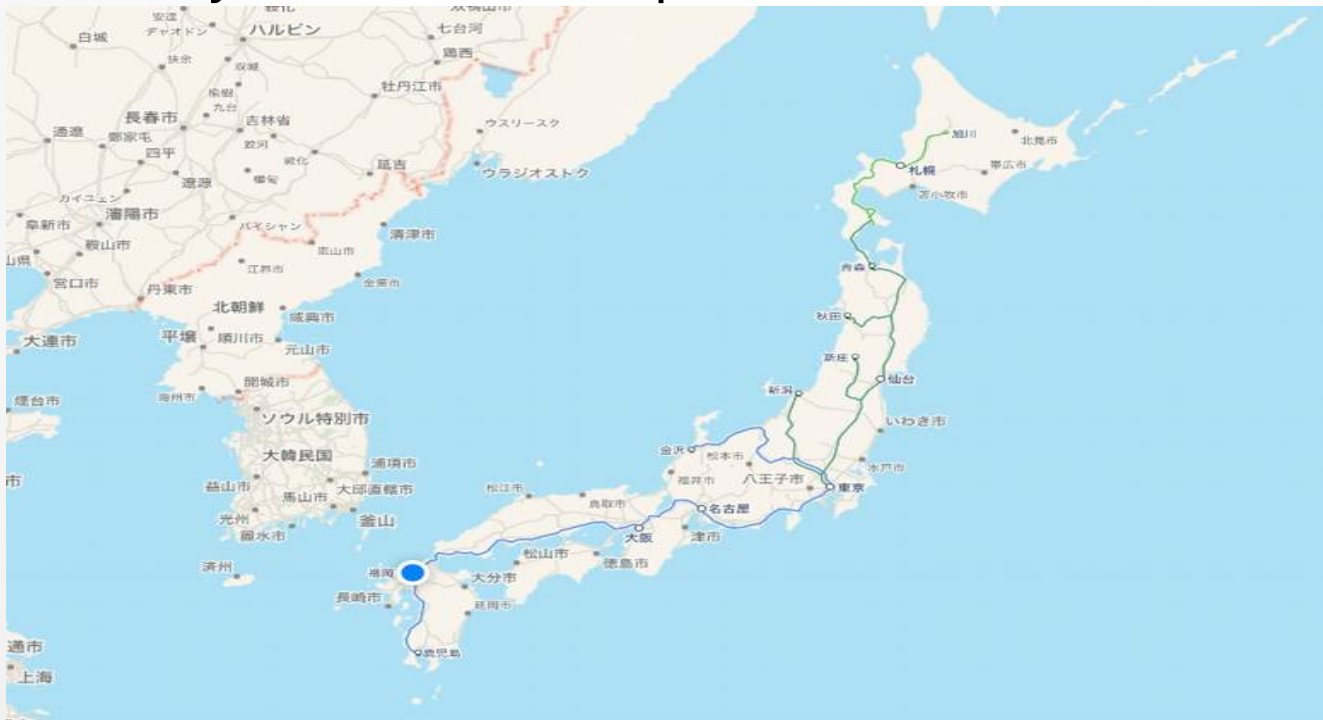
How to find bad
synonyms in
translation

Agenda

- 1: about Me
- 2: Characters
- 3: po files > csv > Graph Database
- 4: Synonym graph view
- 5: What's next?

I'm from

- Fukuoka Prefecture
 - on the Kyushu island of Japan



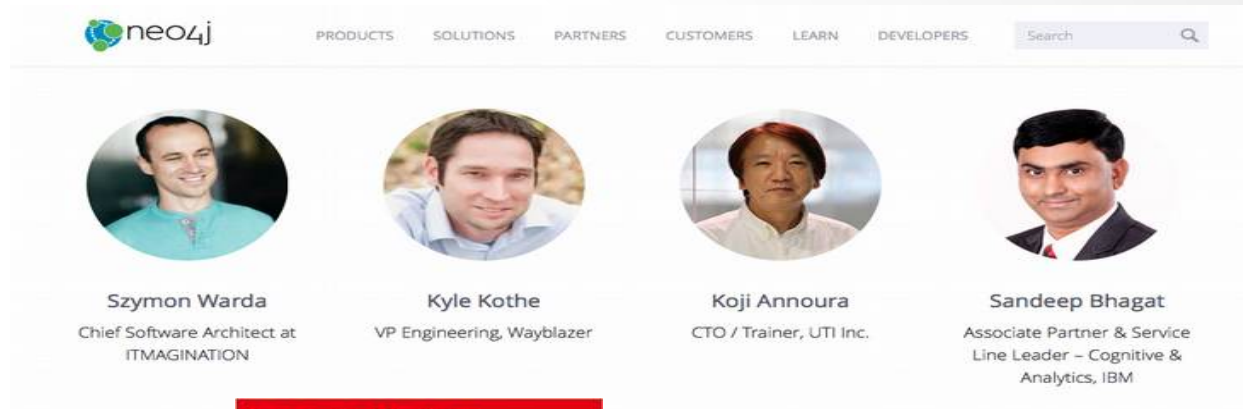
福岡 (Fukuoka) = 博多 (Hakata)

- Hakata Ramen (博多ラーメン、博多拉麵)
 - is widely known as the best tonkotsu (pork taste) ramen



about Me

- Neo4j
 - One of founders [Neo4j UsersGroup Tokyo](#)
 - [Neo4j Ambassador](#)
 - Neo4j Speaker Program
 - Certificate Neo4j Professional
- Agile
 - Certified Scrum Master
 - Certified Scrum Product Owner
 - LeSS Practitioner
- Time Management
 - The Pomodoro Technique® Trainers
- Member
 - [LibreOffice Japanese Team](#)
 - Japan PostgreSQL Users Group (JPUG)
- Coffee
 - UCC Certified Coffee Professional
 - SCAJ Coffee Meister
 - JCQA Certified Associate Instructor in Coffee



Oops!

- I received an email the day after I booked an airplane



4 types of characters in Japanese

- Example
 - 私のスマホは iPhone です。
 - My smartphone is an iPhone.
- Type
 - **Chinese characters** (kanji) 私
 - **Kana** (Hiragana): の、です
 - **Kana** (Katakana): スマホ (Smartphone)
 - **English alphabet**: iPhone

Word changes with the times.

- Computer
 - 電子計算機 (Old)
 - 電算機 (Old)
 - コンピュータ (before 2008)
 - コンピューター

Translation depends on translator

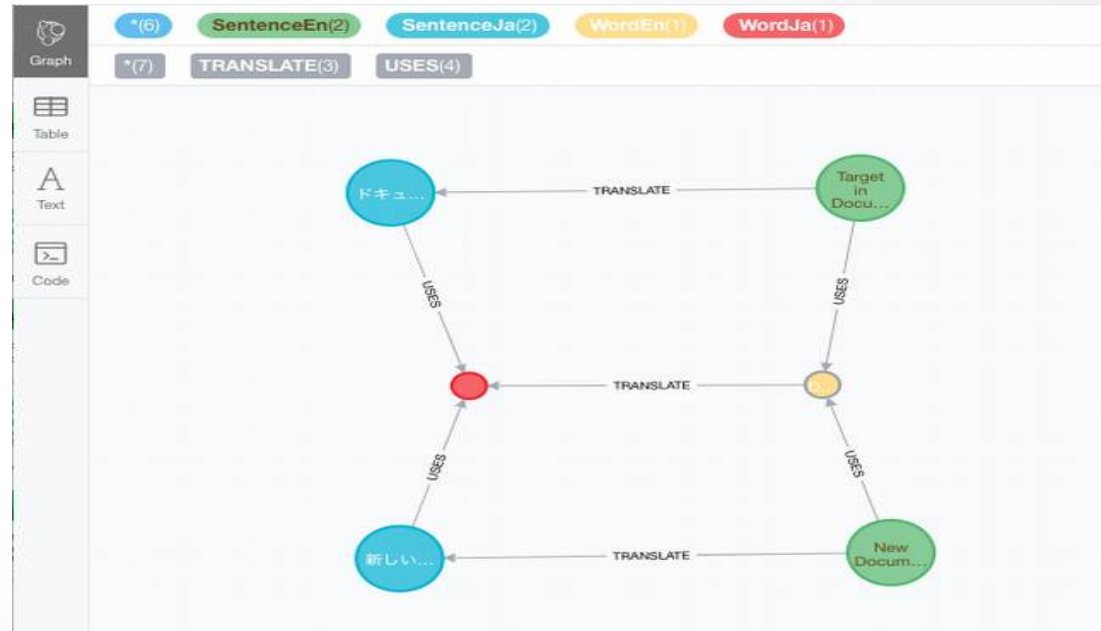
- Graph Database
 - グラフ型データベース
 - グラフ型データーベース
 - グラフデータベース
 - グラフデーターベース
 - グラフ・データベース
 - グラフ・データーベース

Japanese translation

- I want to find out synonyms in the Japanese translation of LibreOffice.
 - How?
 - I hope to find something by Graph Database.

Pattern

- The basic seems to be a square pattern.
 - En Word: Yellow
 - Ja Word: Red
 - En Sentence: Green
 - Ja Sentence: Blue



inside of po file

- po file has
 - Words and Sentences
 - English and Japanese

```
#. Ewn6K
#: hyperlinkdocpage.ui:82
msgctxt "hyperlinkdocpage|label2"
msgid "Document"
msgstr "ドキュメント "
```

```
#. CQrvm
#: colorconfigwin.ui:33
msgctxt "colorconfigwin|doccolor"
msgid "Document background"
msgstr "ドキュメントの背景 "
```

from po file to csv by po2csv.py

- CSV

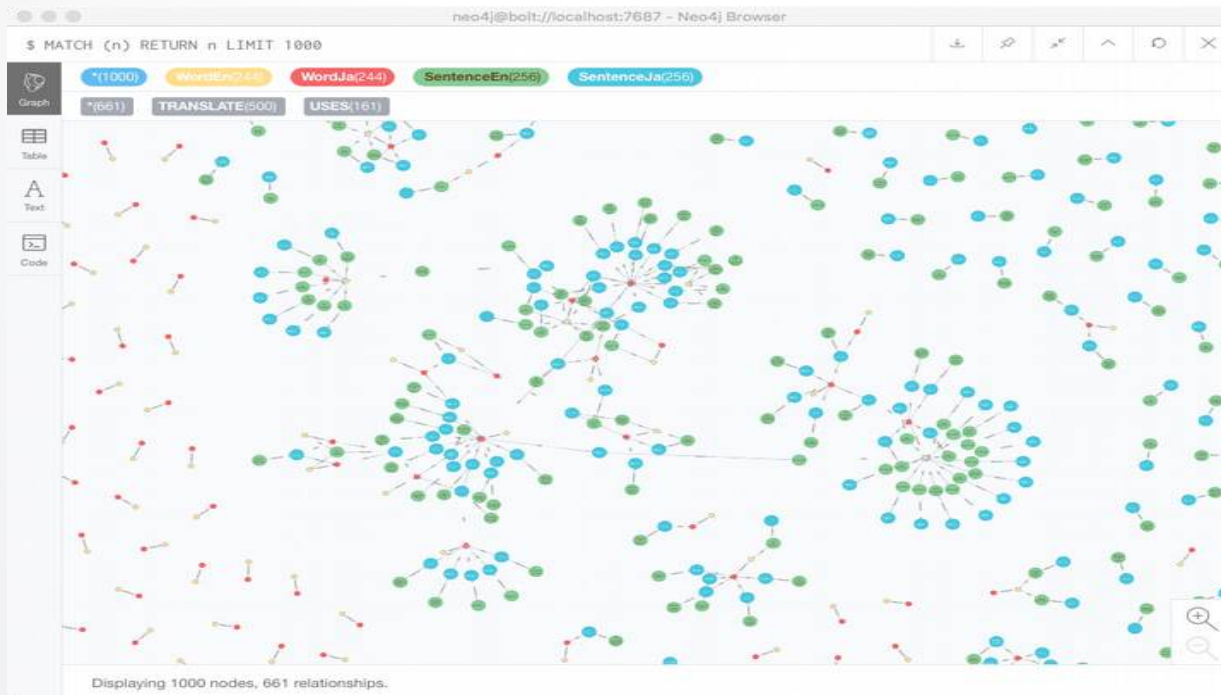
	A	B
1	English	Japanese
2	All	すべて
3	User-defined	ユーザー定義
4	Number	数
5	Percent	パーセント
6	Currency	通貨
7	Date	日付
8	Time	時刻
9	Scientific	指数表記
10	Fraction	分数
11	Boolean Value	ブール値

into Graph Database

- Idea
 - English Word -- Japanese Word
 - English Sentence -- Japanese Sentence
 - English Sentence -- English Words
 - Japanese Sentence -- Japanese Words
- in Graph
 - (Document)-[:TRANSLATE]->(ドキュメント)
 - (Document background)-[:TRANSLATE]->(ドキュメントの背景)
 - (Document background)-[:USES]->(Document)
 - (ドキュメントの背景)-[:USES]->(ドキュメント)

The graph

- En Word: **Yellow**, Ja Word: **Red**
- En Sentence: **Green**, Ja Sentence: **Blue**



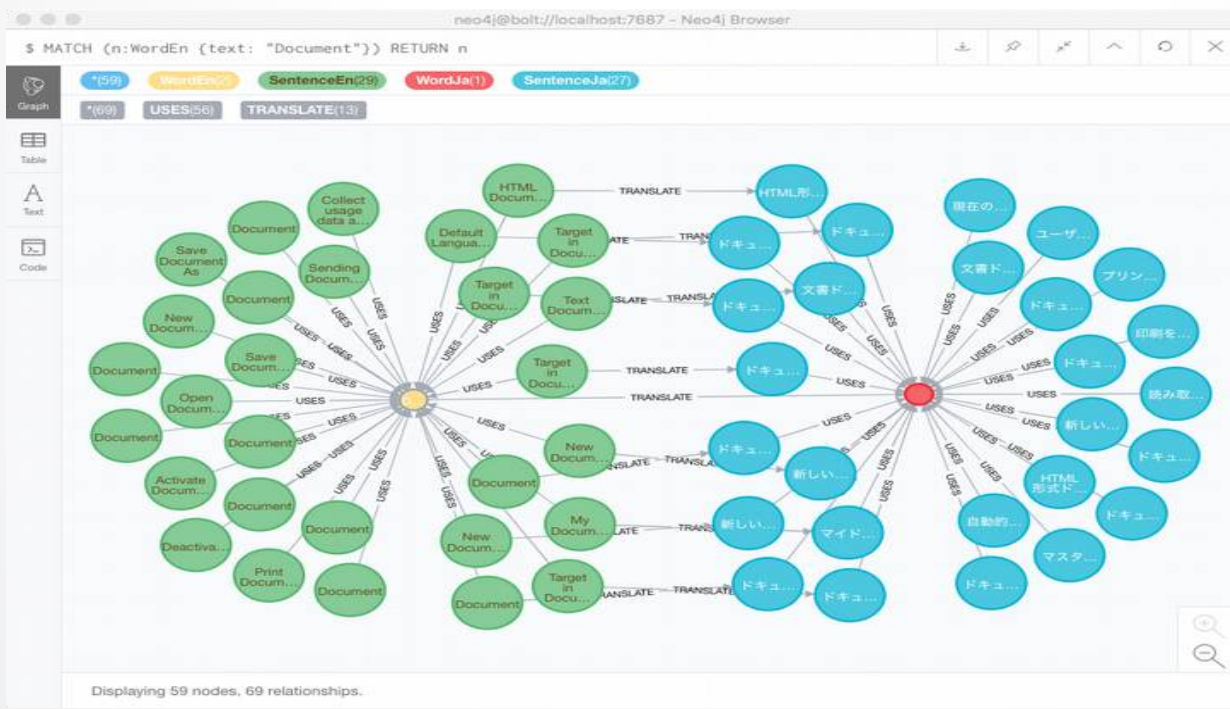
These sentences use the word “document”.

- En Word: **Yellow**, Ja Word: **Red**
- En Sentence: **Green**



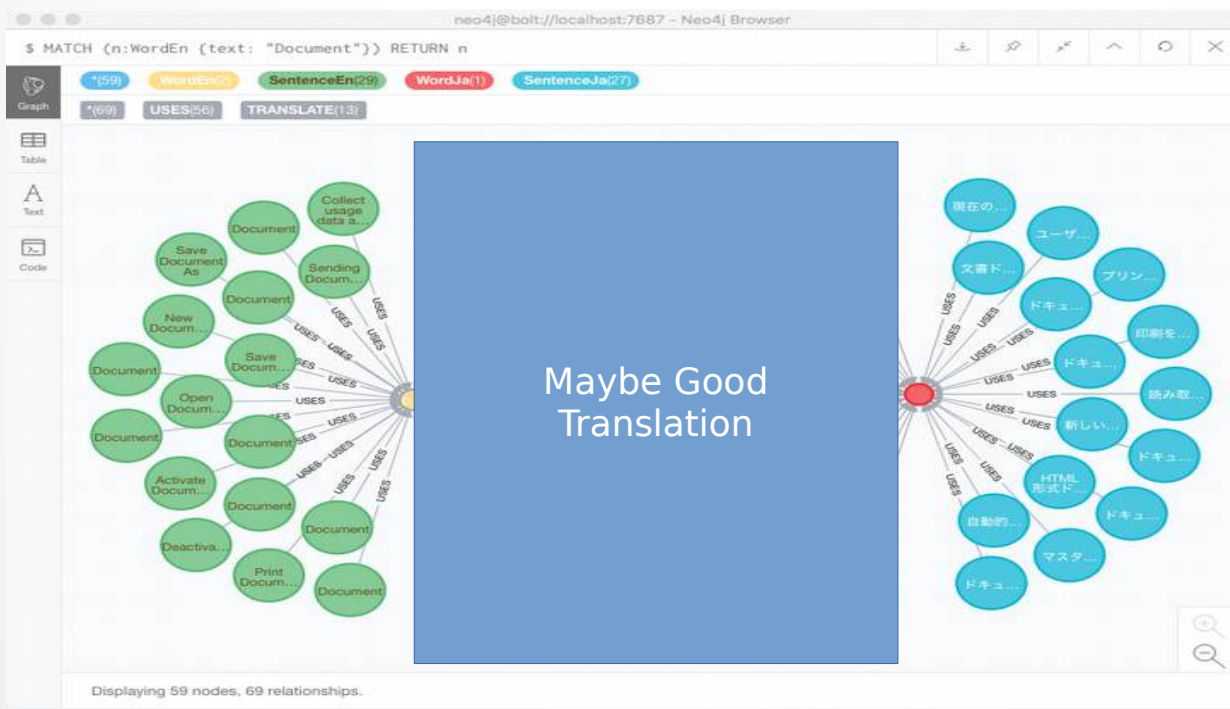
“Document” and “ドキュメント”

- En Word: **Yellow**, Ja Word: **Red**
- En Sentence: **Green**, Ja Sentence: **Blue**



Japanese and English sentences use the same word.

- En Word: **Yellow**, Ja Word: **Red**
- En Sentence: **Green**, Ja Sentence: **Blue**



Search for sentences that do not use the same word.

- Japanese translation of the word (“Document”)
 - MATCH (:EnWord {text:'Document'})--(e:En)--(j:Ja)
RETURN e.text, j.text

The screenshot shows the Neo4j Browser interface. The top bar displays the URL 'neo4j@bolt://localhost:7687 - Neo4j Browser'. The main area contains a Cypher query editor with the following code:

```
1 MATCH (:EnWord {text:'Document'})--(e:En)--(j:Ja)
2 RETURN e.text, j.text
```

Below the editor, the query is executed, and the results are displayed in a table. The table has two columns: 'e.text' and 'j.text'. The results show various English phrases and their corresponding Japanese translations.

e.text	j.text
"Document copy has been created"	"文書のコピーを作った時"
"New Document"	"新規文書の開始時"
"Open Document"	"文書を開いた時"
"Activate Document"	"文書を有効化した時"
"Document closed"	"文書を閉じた時"
"Document is going to be closed"	"文書が閉じられる直前"
"Save Document"	"文書を保存する時"
"Print Document"	"文書の印刷時"
"New Document"	"新しいドキュメント"
"Document has been saved as"	"文書を別名で保存した時"
"Document created"	"文書作成時"
"Document has been saved"	"文書を保存した時"
"Document title changed"	"文書のタイトルを変更した時"
"My Documents"	"マイドキュメント"
"Document loading finished"	"文書の読み込み終了時"
"Save Document As"	"別名で保存する時"

At the bottom of the interface, the status bar shows: '\$ MATCH (n) RETURN n LIMIT 300'. The bottom right corner of the table area shows: 'Started streaming 17 records after 9 ms and completed after 14 ms.'

Document

- Japanese translation of the word (“Document”)
 - I found 3 different Japanese translations
 - 文書
 - "Document copy has been created", " 文書のコピーを作った時 "
 - "New Document", " 新規文書の開始時 "
 - ドキュメント
 - "New Document", " 新しいドキュメント "
 - "My Documents", " マイドキュメント "
 - No translation
 - "Save Document As", " 別名で保存する時 "

make good translations.

- Check synonyms and make good translations.
 - if you unify to " 文書 "
 - "新しいドキュメント"、"新しい文書"
 - "マイドキュメント"、"マイ文書"(これは微妙)
- if you unify to " ドキュメント "
- "文書のコピーを作った時"、"ドキュメントのコピーを作った時"
- "新規文書の開始時"、"新規ドキュメントの開始時"

What's next?

- CJK languages into Neo4j
 - Chinese
 - Japanese
 - Korean

Thanks

- Please **VOTE** for my CfP at LibOCon 2020.
- Please ask me!
 - koji@annoura.com

Many thanks to our speakers!



All text and image content in this document is licensed under the Creative Commons Attribution-Share Alike 4.0 License (unless otherwise specified). “LibreOffice” and “The Document Foundation” are registered trademarks. Their respective logos and icons are subject to international copyright laws. The use of these thereof is subject to trademark policy.