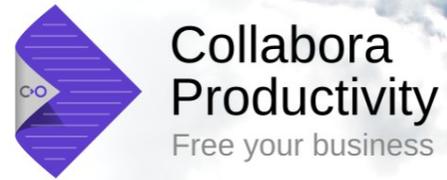


## LibreOffice Interoperability – Strong & Weak Points

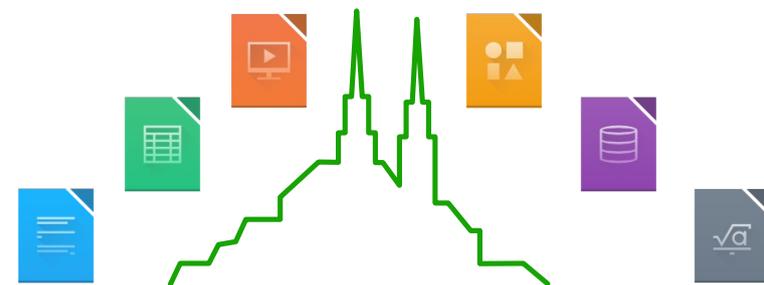
- ▼ Cor Nouws
- ▼ Nou&Off – The Netherlands

proud member LibreOffice-community  
proud & thankful owner of Nou&Off



**A voice for animals**  
& justice, the health of people and of the earth



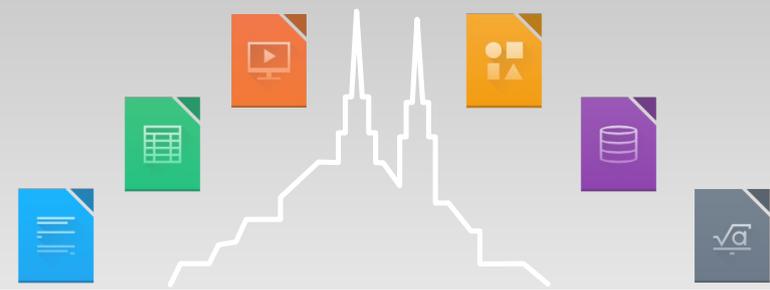


## Interoperability is..

Above all: not suffering from a lock-in  
by a proprietary file format

- ▼ .. but for the time that ODF is not yet leading
- ▼ LibreOffice has to circumvent the issue
- ▼ So interoperability ..

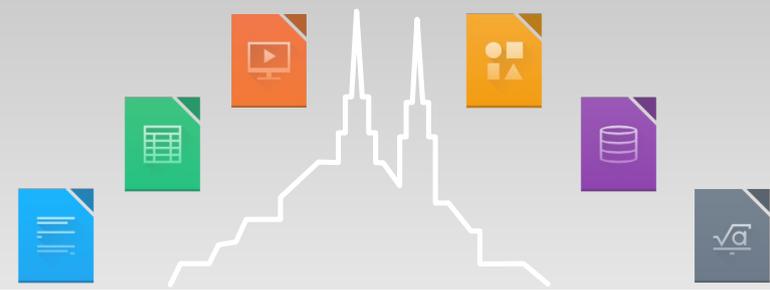
## .. is how serious?



- ▼ Number of people having issues
- ▼ User (home, work, skills)
- ▼ Easy/hard to workaround
- ▼ Not opening at all
- ▼ Type of work, send only, exchange, co-work

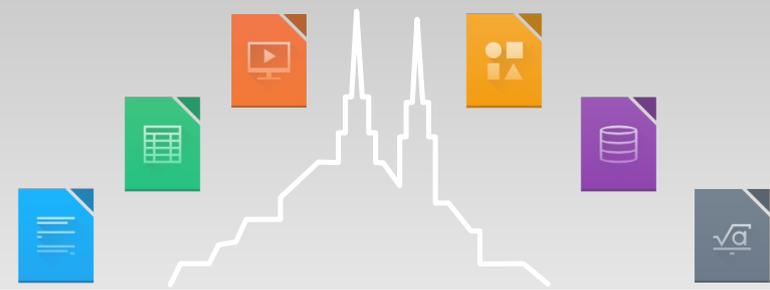


# .. is how important?



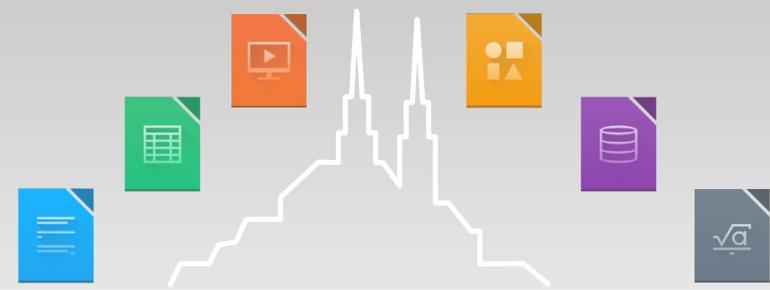
- ▼ Perfection needed at any time?
  - ▼ Image or text shifted a bit..
- ▼ Most communication read-only > PDF !
- ▼ Fall back available
  - ▼ MsOffice viewers, spare copy MsOffice
- ▼ Online PDF-creation services
- ▼ LibreOffice online
- ▼ But in the end:
  - ▼ Editable file exchanges & complexity of files .. dó count!
  - ▼ And often there is no properly & smart designed document

# However, but, yes.. still..



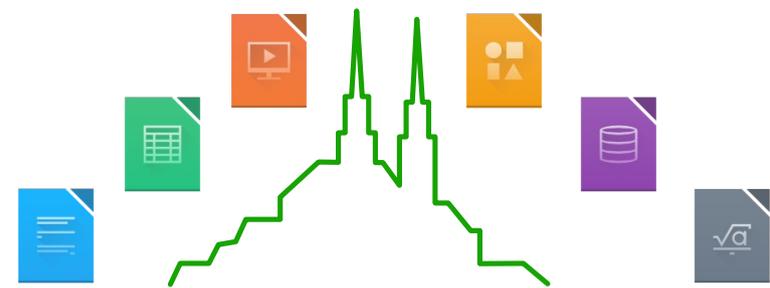
- ▼ Most of the times it's not the end of the world, if track changes can't be used...
  - ▼ After all people 'work' on so many devices with limitations
- ▼ And the user itself
  - ▼ How does she act to solve a problem?
  - ▼ How much is he distracted or not..
  - ▼ Just shouting out 'the document doesn't work'...?!
- ▼ Is it an emotional issue, perception, partly?
- ▼ May be, but ..
  - ▼ what is easier to change, technical issues or people ;)

# So we start improving ..



- ▼ Which is a good thing after all
- ▼ Less issues, also smaller ones, widen our audience fast
- ▼ However, fixes sometimes cause of disclose other bugs
  - ▼ Then for fixing there is a long way to go





# Let's have a look at an example





Ah, much more info already

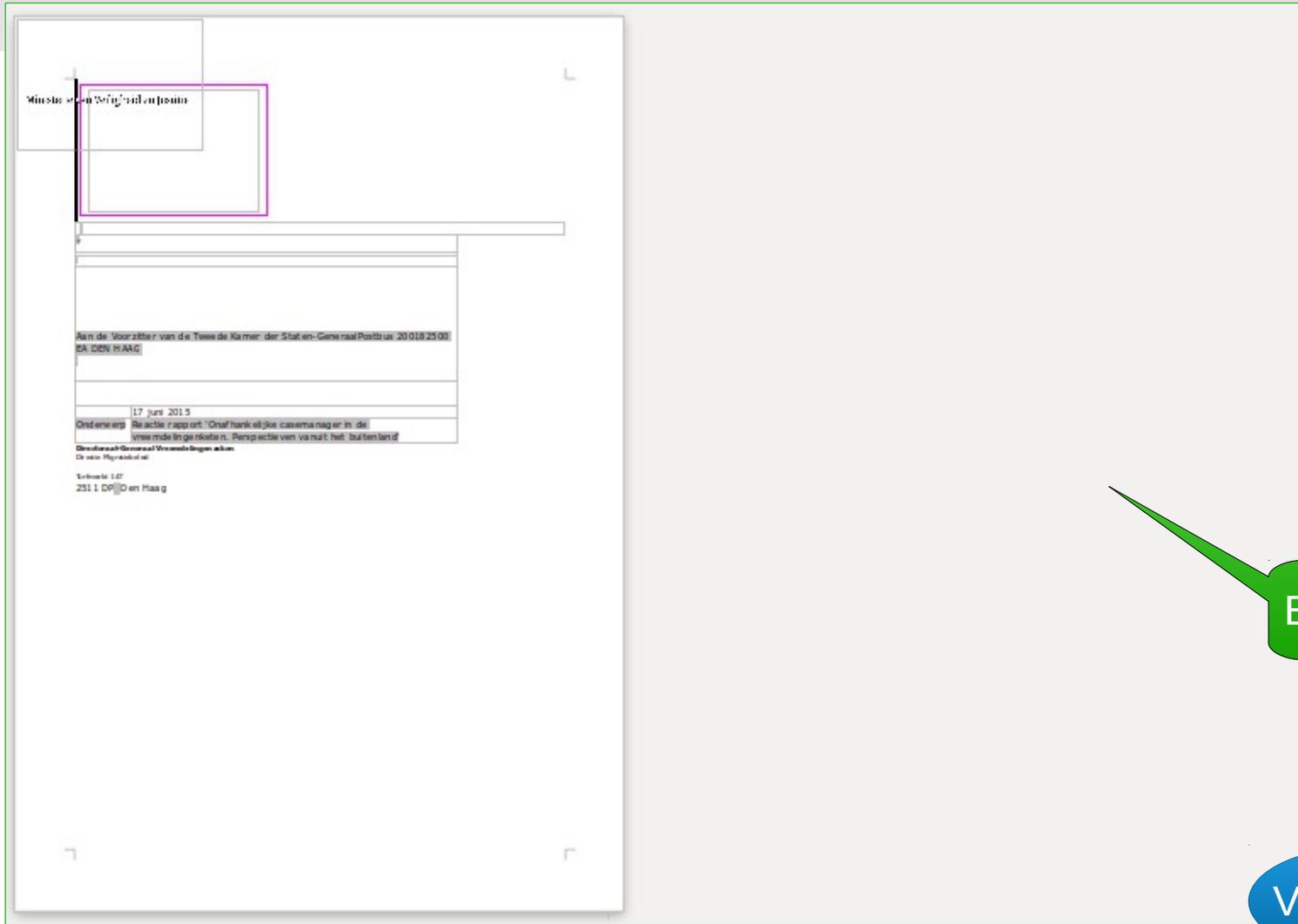
Hé, frame with text box

The screenshot displays a document with several overlapping elements:

- Header:** "Ministerie van Justitie en Veiligheid" (Ministry of Justice and Security).
- Sender:** "Directie Migratiezaken" (Migration Directorate), "Postbus 20113, 2500 CA Den Haag".
- Recipient:** "Aan de Voorzitter van de Tweede Kamer" (To the Chairman of the House of Representatives), "BA DON HAAG".
- Date:** "17 juni 2013".
- Subject:** "Reactie rapport 'Onafhankelijke casemanagers in de vreemdelingenketen. Perspectief van vanuit het buitenland'".
- Text Boxes:** Several rectangular boxes containing text, some overlapping others.
- Section Headers:** "Aanleiding" (Introduction), "Beschrijving onderzoek" (Description of research), and "Kabinetreactie" (Cabinet reaction).
- Footnote:** A list of references at the bottom, including "Tweede Kamer, 2012-2013, 19 637, nr. 1721".

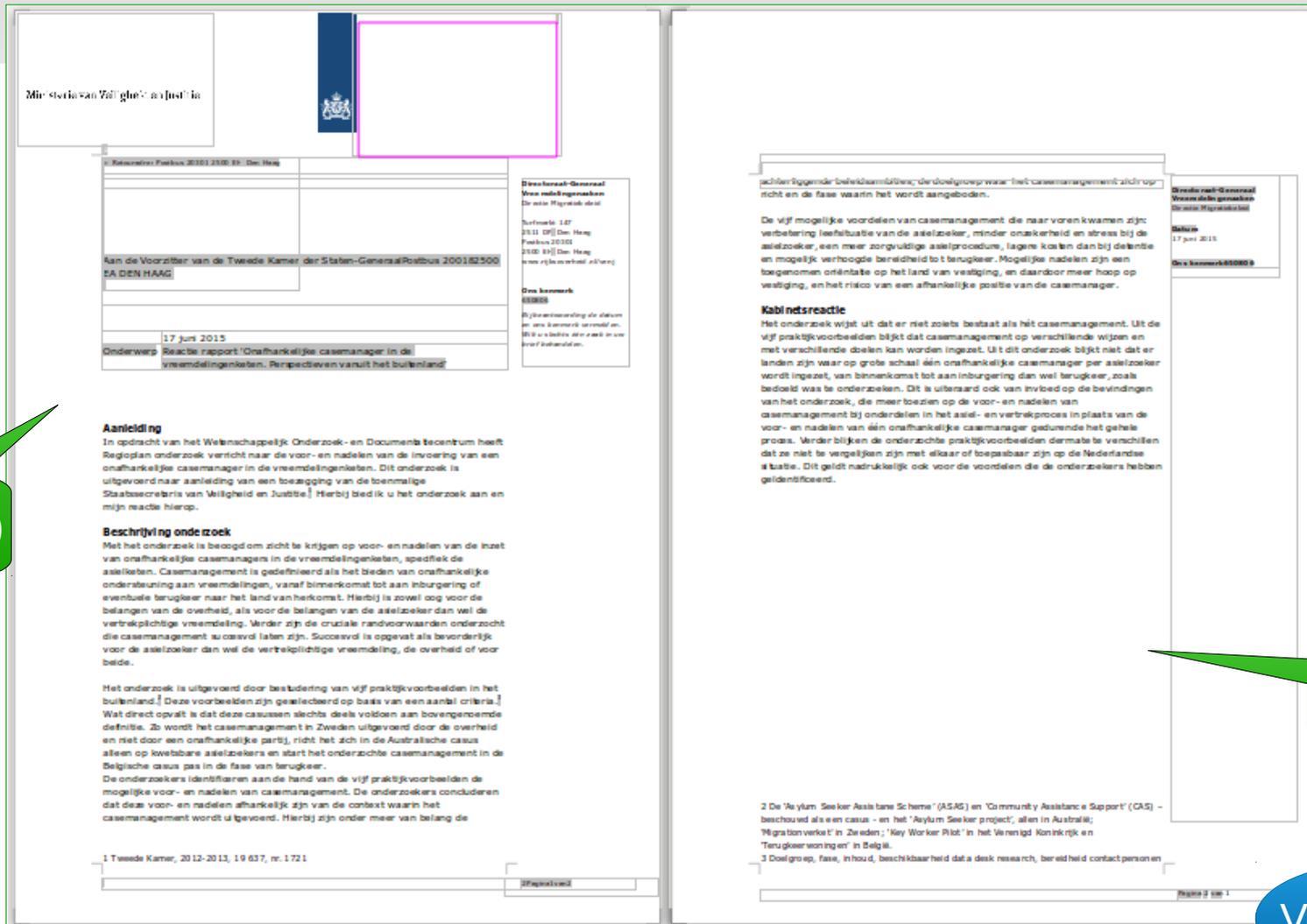
Version 4.2

Better frames maybe..



But ..???

Version 4.3



Ah wow :)

Hmm :( ..?

Version 4.4



LibreOffice 506rc3 5.0.6.3

Indelingsfout in bestand op positie  
SAXParseException: '[word/document.xml line 2]: unknown error', Stream 'word/document.xml', Line 2, Column 30391(rij,kolom).

OK

Oops ..?

Welkom bij LibreOffice 506rc3.

Gebruik de zijbalk om een bestand te openen of aan te maken.

Version 5.0, 5.1

Ministerie van Justitie  
 Afdeling Bestuurszaken  
 Postbus 20018 2500 EA Den Haag  
 17 juni 2015  
 Onderwerp: Reactie rapport 'Onafhankelijke casemanager in de vreemdelingenketen. Respecteren vanuit het buitenland'

Nice..

Ehh..?

**Samenleving**  
 In opdracht van het Wetenschappelijk Onderzoek- en Documentatiecentrum heeft Regioplan onderzoek verricht naar de voor- en nadelen van de invoering van een onafhankelijke casemanager in de vreemdelingenketen. Dit onderzoek is uitgevoerd naar aanleiding van een bezegging van de toenmalige Staatssecretaris van Veiligheid en Justitie. Hierbij bied ik u het onderzoek aan en mijn reactie hierop.

**Rechtlijnig onderzoek**  
 Met het onderzoek is beoogd om zicht te krijgen op voor- en nadelen van de inzet van onafhankelijke casemanagers in de vreemdelingenketen, specifiek de asielketen. Casemanagement is gedefinieerd als het bieden van onafhankelijke ondersteuning aan vreemdelingen, vanaf binnenkomst tot aan inburgering of eventuele terugkeer naar het land van herkomst. Hierbij is zowel oog voor de belangen van de overheid, als voor de belangen van de asielzoeker dan wel de vertrekplichtige vreemdeling. Vreder zijn de cruciale aanvoorswaarden onderzocht die casemanagement succesvol laten zijn. Succesvol is opgevat als bevorderlijk voor de asielzoeker dan wel de vertrekplichtige vreemdeling, de overheid of voor beide.

Het onderzoek is uitgevoerd door behudering van vijf praktijkvoorbeelden in het buitenland. Deze voorbeelden zijn geselecteerd op basis van een aantal criteria. Het drekt opvallend dat deze casussen slechts deels voldoen aan bovengenoemde definitie. Zo wordt het casemanagement in Zweden uitgevoerd door de overheid en niet door een onafhankelijke partij, richt het zich in de Australische casus alleen op kwetsbare asielzoekers en start het onderzoekte casemanagement in de Belgische casus pas in de fase van terugkeer.

De onderzoekers identificeren aan de hand van de vijf praktijkvoorbeelden de mogelijke voor- en nadelen van casemanagement. De onderzoekers concluderen dat deze voor- en nadelen afhankelijk zijn van de context waarin het casemanagement wordt uitgevoerd. Hierbij zijn onder meer van belang de achterliggende beleidsambitie, de doelgroep waar het casemanagement zich op richt en de fase waarin het wordt aangeboden.

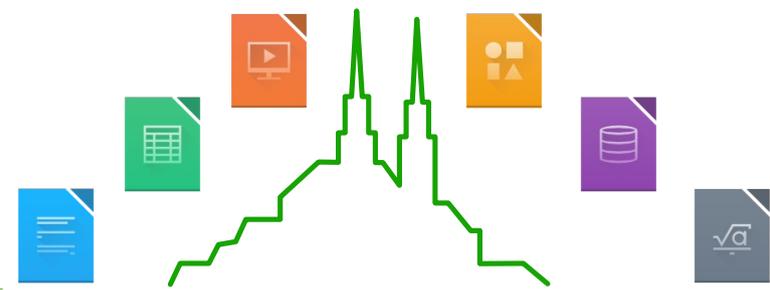
De vijf mogelijke voordelen van casemanagement die naar voren kwamen zijn: verbetering leefsituatie van de asielzoeker, minder onzekerheid en stress bij de asielzoeker, een meer zorgvuldige asielprocedure, lagere kosten dan bij debetatie en mogelijk verhoogde bereidheid tot terugkeer. Mogelijke nadelen zijn een toegenomen oriëntatie op het land van vestiging, en daardoor meer hoop op vestiging, en het risico van een afhankelijk positie van de casemanager.

**Kabinetsreactie**  
 Het onderzoek wijst uit dat er niet zoiets bestaat als het casemanagement. Uit de vijf praktijkvoorbeelden blijkt dat casemanagement op verschillende wijzen en met verschillende doelen kan worden ingezet. Uit dit onderzoek blijkt niet dat er landen zijn waar op grote schaal een onafhankelijke casemanager per asielzoeker wordt ingezet, van binnenkomst tot aan inburgering dan wel terugkeer, zoals bedoeld was te onderzoeken. Dit is uiteraard ook van invloed op de bevindingen van het onderzoek, die meer toelien op de voor- en nadelen van casemanagement bij onderdelen in het asiel- en vertrekproces in plaats van de voor- en nadelen van een onafhankelijke casemanager gedurende het gehele

Good!

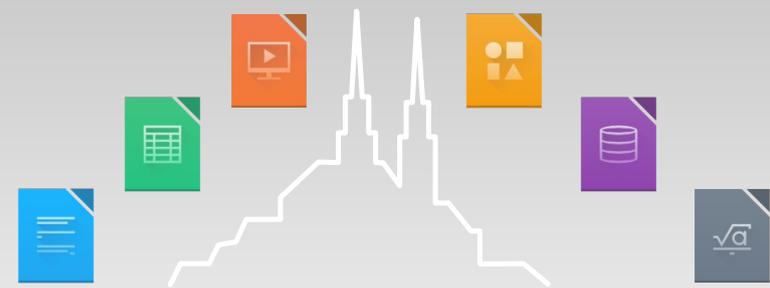
Version 5.2





# Do we have data?

# What does BugZilla tell us?



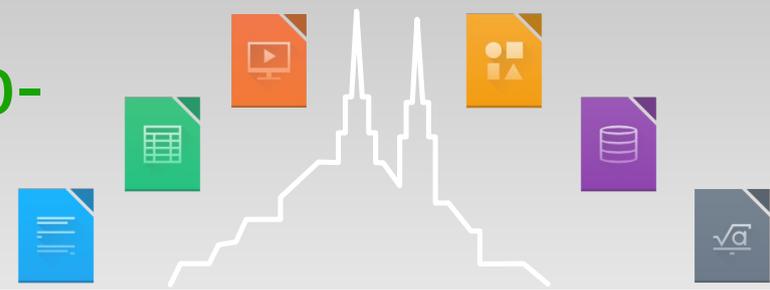
- ▼ Issues for various components
- ▼ Query for proper keywords, file formats, fileopen in summary
- ▼ Disclaimer: relying on proper triage, summaries
- ▼ Not confirmed is not included, duplicates-not-yet-marked

*	Resolved & Fixed	Confirmed & Not Fixed
<b>Writer</b>	177	270
<b>Math</b>	6	18
<b>Calc</b>	4	18
<b>Chart</b>	35	18
<b>Impress</b>	4	32

*\*) numbers in the table link to the queries in BugZilla*



# Items more mentioned for components Math, Charts, Impress

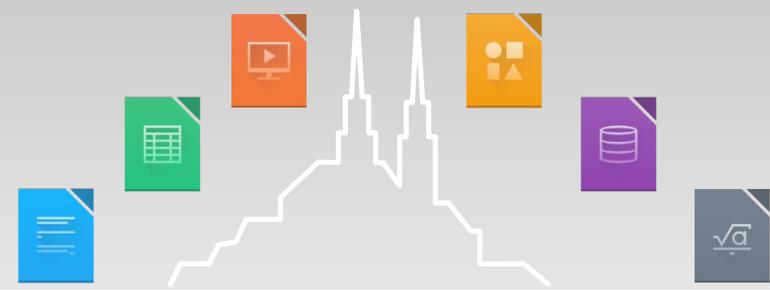


- ▼ Math
  - ▼ Characters, size/rendering
- ▼ Charts
  - ▼ Borders
  - ▼ Axis
  - ▼ Labels
  - ▼ Font effects
- ▼ Impress
  - ▼ Animations
  - ▼ Shapes/SmartArt
  - ▼ Text rendering
  - ▼ Invalid saving

All a bit mixed.  
No items that  
really strike



# Items more mentioned in Calc

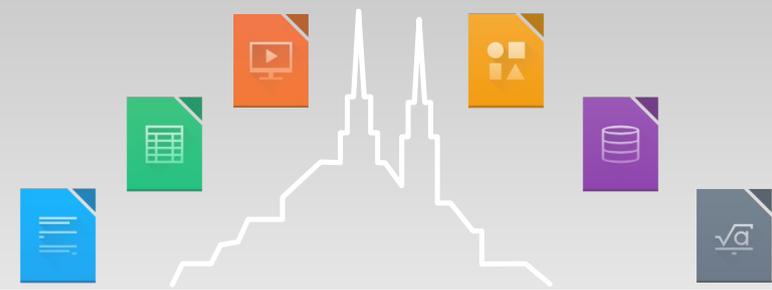


- ▼ Hyperlinks
- ▼ Filelinks
- ▼ RTL
- ▼ Pivot table
- ▼ Colors
- ▼ Row height
- ▼ Controls

Again: all a bit mixed. No items that really strike



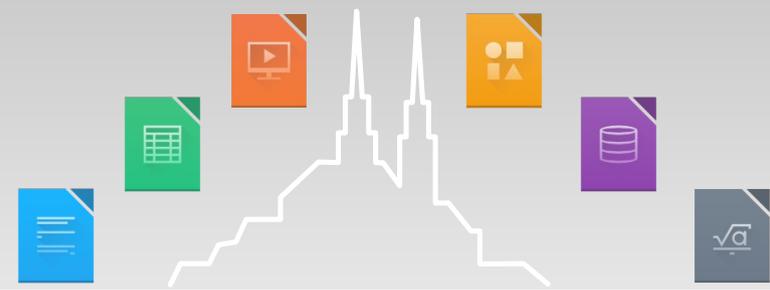
# Items more mentioned for Writer



- ▼ Objects
  - ▼ Images, Frames, OLE, Shapes, SmartArt
- ▼ Page formatting
  - ▼ Headers/footers, Headers/footers with objects
- ▼ Paragraphs
  - ▼ Indent, Spacing, Tabs, Bullets/Numbering
- ▼ Tables
  - ▼ Width, Rotated text, Wrapping around, Nested
- ▼ Forms
- ▼ Lists, Outline numbering
- ▼ Cross references
- ▼ Foot notes

Confirmed and not resolved alone, count for 270 bugs..

# So what's with 'objects'



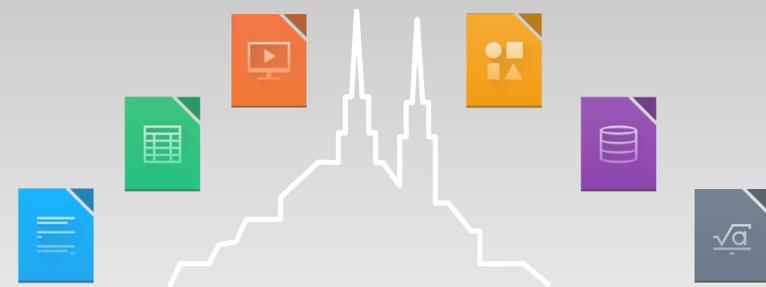
- ▼ Images, Frames, OLE, Shapes, SmartArt
  - ▼ Wrapping
  - ▼ Positioning
  - ▼ Ordering
  - ▼ ..
- ▼ Especially with more frames, images
- ▼ Especially combined and in header/footers, tables
  
- ▼ Less severe/frequent:
  - ▼ Visibility
  - ▼ Rotation
  - ▼ (Text)Rendering

For those items  
alone we count  
53 bugs

Have a strong  
influence on quality  
of documents



# Bit more general data



Component	Priority	Severity	Summary
Writer	high	critical	Exported graphics from V
Writer	high	critical	FILESAVE: Image from fi
Writer	high	critical	FILESAVE: cant save att
Writer	medium	critical	Corrupted enumeration
Writer	medium	critical	Crash when saving a par
Writer	high	major	Shape and location of aut
Writer	high	major	FILEOPEN: Furigana (ru
Writer	high	major	FILESAVE: wrong export
Writer	high	major	FILEOPEN: Freeze when
Writer	high	major	FILESAVE: saving odt as
Writer	high	major	FILESAVE: reopening sa
Writer	high	major	FILEOPEN: DOC Image
Writer	high	major	FILEOPEN: DOC importe
Writer	high	major	FILEOPEN: DOCX table
Writer	high	major	FILEOPEN: Garbled imp
Writer	high	major	FILEOPEN: content of he
Writer	highest	major	FILEOPEN: Writer doesn
Writer	highest	major	RTF File Imported Incorr
Writer	medium	major	FILEOPEN: table in partic
Writer	medium	major	Saving document with a i
Writer	medium	major	FILEOPEN RTF: TABLE
Writer	medium	major	Shapes not displayed co
Writer	medium	major	Document header of RTF
Writer	medium	major	FILEOPEN: docx embed
Writer	medium	major	FILEOPEN: Writer freeze
Writer	medium	major	FILESAVE: DOCX captio
Writer	medium	major	RTF files corrupted after
Writer	medium	major	FILEOPEN:DOCX conten
Writer	medium	major	FILEOPEN: Writer canno
Writer	medium	major	FILEOPEN: two pages .d
Writer	medium	major	libreoffice opens .doc file
Writer	high	normal	FILESAVE Tab stop in rig

Component	Priority	Severity	Summary
Formula Editor	medium	major	IMPORT specifi
Formula Editor	medium	normal	Editing Microsof
Formula Editor	medium	normal	formulas in write
Formula Editor	medium	normal	Import of MathM
Formula Editor	medium	normal	FILEOPEN: Imp
Formula Editor	medium	normal	normal/italic and
Formula Editor	medium	normal	IMPORT MathM

Component	Priority	Severity	Summary
Chart	high	major	FILEOPEN: Libreoffice free
Chart	high	major	FILEOPEN: xls chart displa
Chart	high	major	OOXML: pptx import - Pie c
Chart	highest	major	inserting/deleting rows: dat
Chart	medium	major	2d chart cannot be rendere
Chart	medium	major	Saving or re-opening shee
Chart	highest	normal	FILESAVE and FORMATTI
Chart	low	normal	Chart lines moved importin
Chart	medium	normal	Incorrect import of .xls doc
Chart	medium	normal	Data point symbols are wr

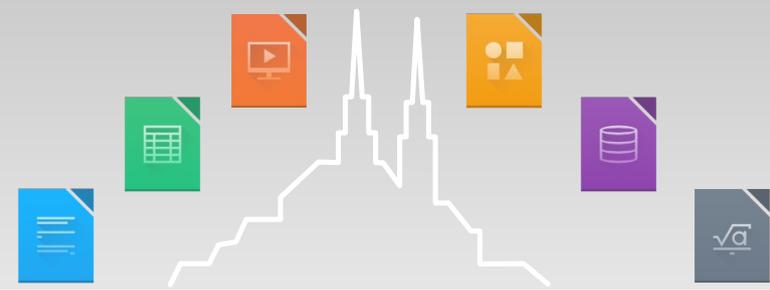
	Critical / Major
<b>Writer</b>	31
<b>Math</b>	1
<b>Calc</b>	3
<b>Chart</b>	6
<b>Impress</b>	2

Component	Priority	Severity	Summary
Calc	high	major	Saving XLSX File Removes tex
Calc	highest	major	DATALOSS FILESAVE: xlsx piv
Calc	medium	major	FILESAVE: Cell formatting lost
Calc	medium	normal	FILESAVE: XLSX - Cell RTL dir
Calc	medium	normal	FILEOPEN: XLS - Hyperlink do
Calc	medium	normal	FILEOPEN: Font problems with
Calc	medium	normal	FILESAVE: XLS - VBA code no

Component	Priority	Severity	Summary
Impress	high	major	Impress can not properly ope
Impress	highest	major	When opening .PPTX impress
Impress	medium	normal	ACCESSIBILITY: Images lose
Impress	medium	normal	FILEOPEN: Diagram in PPT c
Impress	medium	normal	FILESAVE as .pptx (MSO200
Impress	medium	normal	FILEOPEN: PPTX with Group
Impress	medium	normal	FILEOPEN: problem with MS
Impress	medium	normal	FILESAVE: Movement animat
Impress	medium	normal	FILESAVE: Tab positions not
Impress	medium	normal	FILEOPEN: PPTX files open

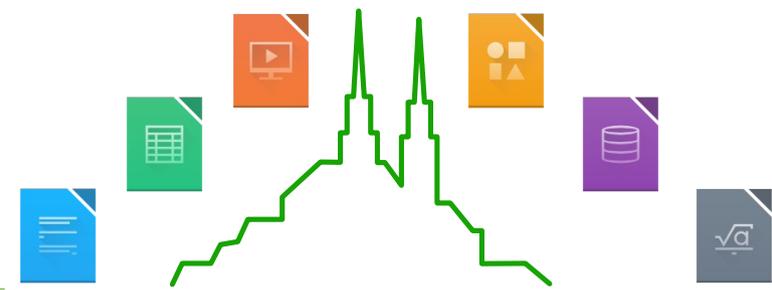


# Why Writer?



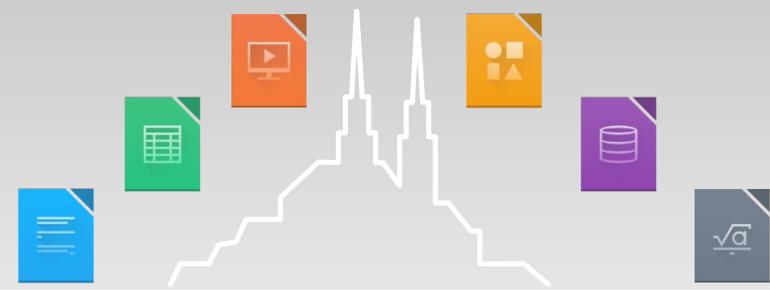
- ▼ Widely used
- ▼ For all kind of tasks
- ▼ By anyone
- ▼ With all possible tricks

After all, many still know how to use a type writer... :)



Let's see another real life example ..

# An extreme example ..



- ▼ Summary in BugZilla:  
“Docx files from Ms Word not opened in LibreOffice”..
- ▼ I quitted LibreOffice after 5 minutes
- ▼ But found later: in MsOffice it takes ~10 minutes :)

# And this is how it looks in Word

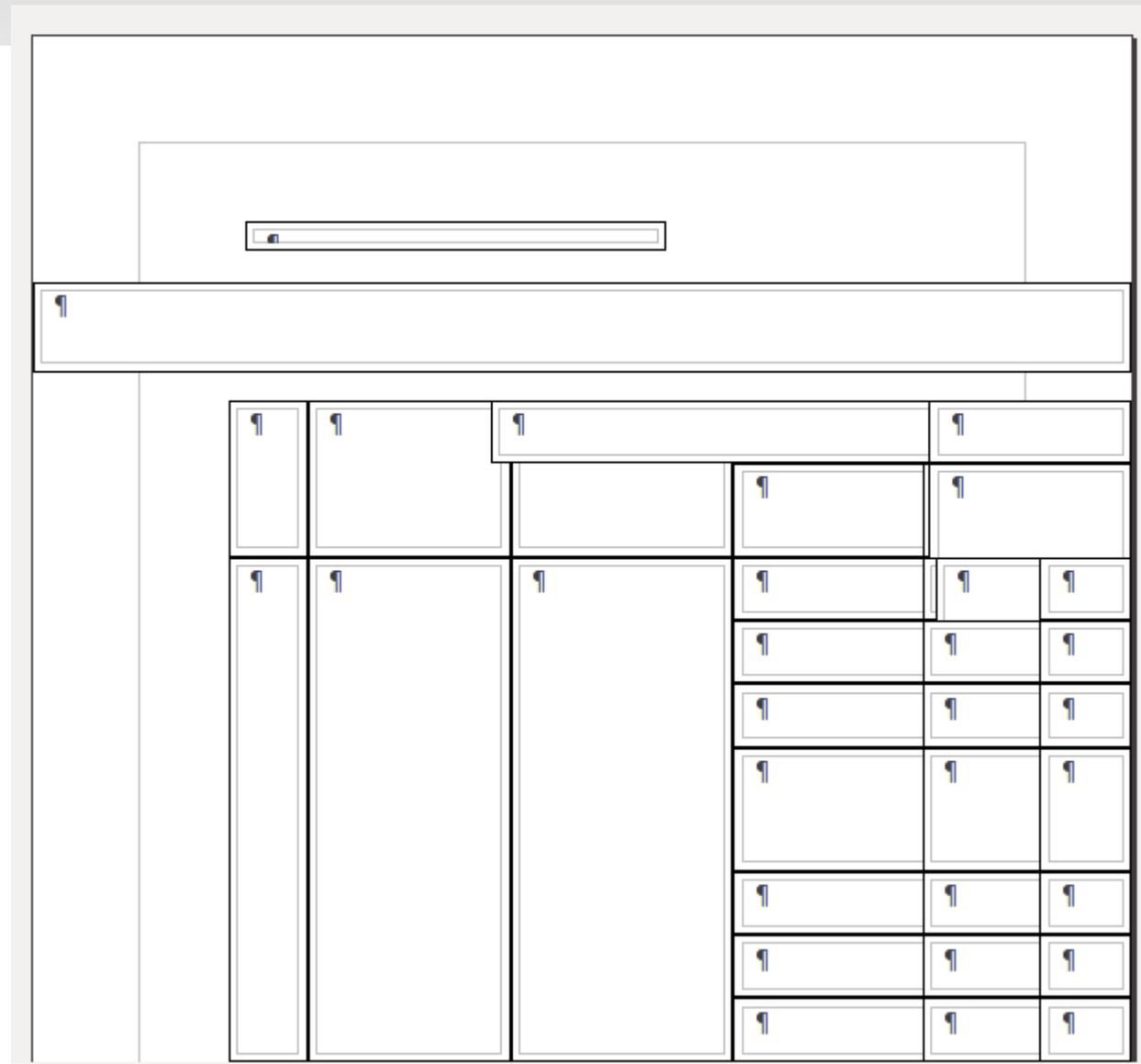
Paragraph Styles

Сведения о качестве, технических характеристиках товара, его безопасности, функциональных характеристиках (потребительских свойствах) товара, размере, упаковке, отгрузке товара и иные сведения о товаре, представление которых предусмотрено документацией об электронном аукционе:

п/п	Наименование товара	Указание на товарный знак (модель, производитель)	Технические характеристики			Ед. изм.	Сведения о сертификации
			Требуемый параметр	Требуемое значение	Значение, предлагаемое участником		
1.	Одноволоконный оптический модуль		Рабочая длина волны	Не менее 1550		Тх	
			Мощность излучения	-8*...-3*		дВт	
			Чувствительность приемника	должна быть -22		дВт	
			Максимальная допустимая мощность на входе приемника	не более -3		дВт	
			Максимальная дальность	не менее 20		км	
			Оптический бюджет	не менее 14		дБ	
			Диапазон рабочих	[-5...+70]		-С	
2.	Коммутатор		температур				
			Пропускная способность	не менее 71,4		гpps	
			Объем ОЗУ	не менее 64		МВ	
			Объем flash-памяти	не менее 16		МВ	
			Таблица MAC адресов	не менее 8000		шт	
			Максимальное количество VLAN	не менее 64		шт	

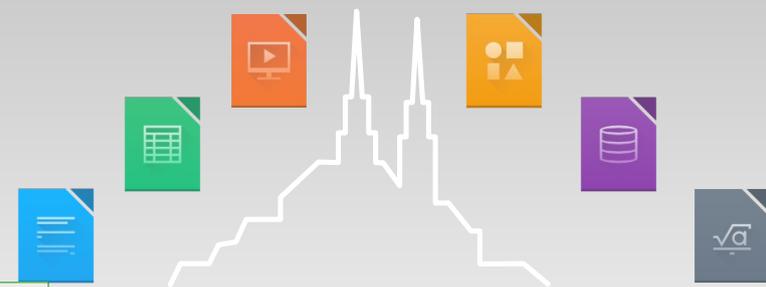
> 250 pages full with frames to construct tables

# LibreOffice 3.3.0.4 did it faster, but ..



Not placed as  
'designed' and  
no text at all

# And don't forget fonts!



**Leadership**  
**COACHING**

**Basic Coaching  
to  
Best Practices  
Sept**

**Conference Site:** Good Shepherd Lutheran Church Fellowship Hall  
1436 21<sup>st</sup> Ave N, Fort Dodge

**Conference Schedule:** September 16 1-5pm  
September 17 8:30am-5pm (lunch provided)  
September 18 8:30am-12pm  
(Because of the nature of the training, it is important for participants to be present for the entire workshop)

**Lodging:** Starlite Village Best Western      Americlnn Lodge & Suites  
Jct of Hwys S 7 & 169                      114 Kenyon Rd West  
Fort Dodge                                      Fort Dodge  
515-573-7177                                      515-576-2100  
(See registration page for details and rates)

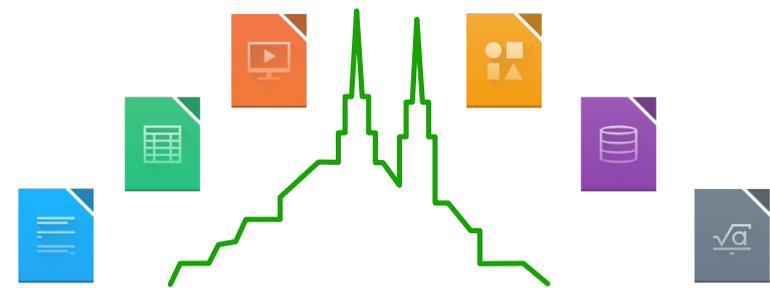
**Registration Fee:** \$75 per person

**Registration Deadline:** August 31  
(There is pre-reading for this conference, so the sooner you register, the sooner you will receive your book!)

Nearly perfect; only one paragraph too much  
But without the weird fonts and all spaces etc it was awful

Often causes issues in Impress

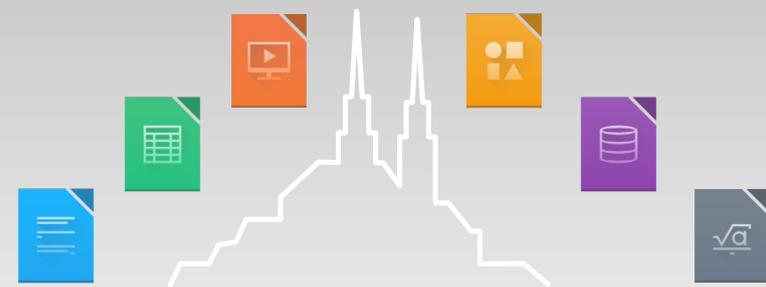




Only three slides left, with ..



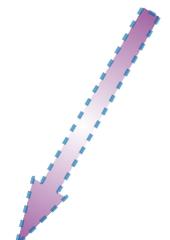
# If only ...



- ▼ Idea:
  - ▼ Font-telltale – warn for missing fonts!
- ▼ Top wishes
  - ▼ Images, object, frames (with anchored content etc)
  - ▼ Paragraph distance, indent
  - ▼ Header/footer issues
  - ▼ SmartArt



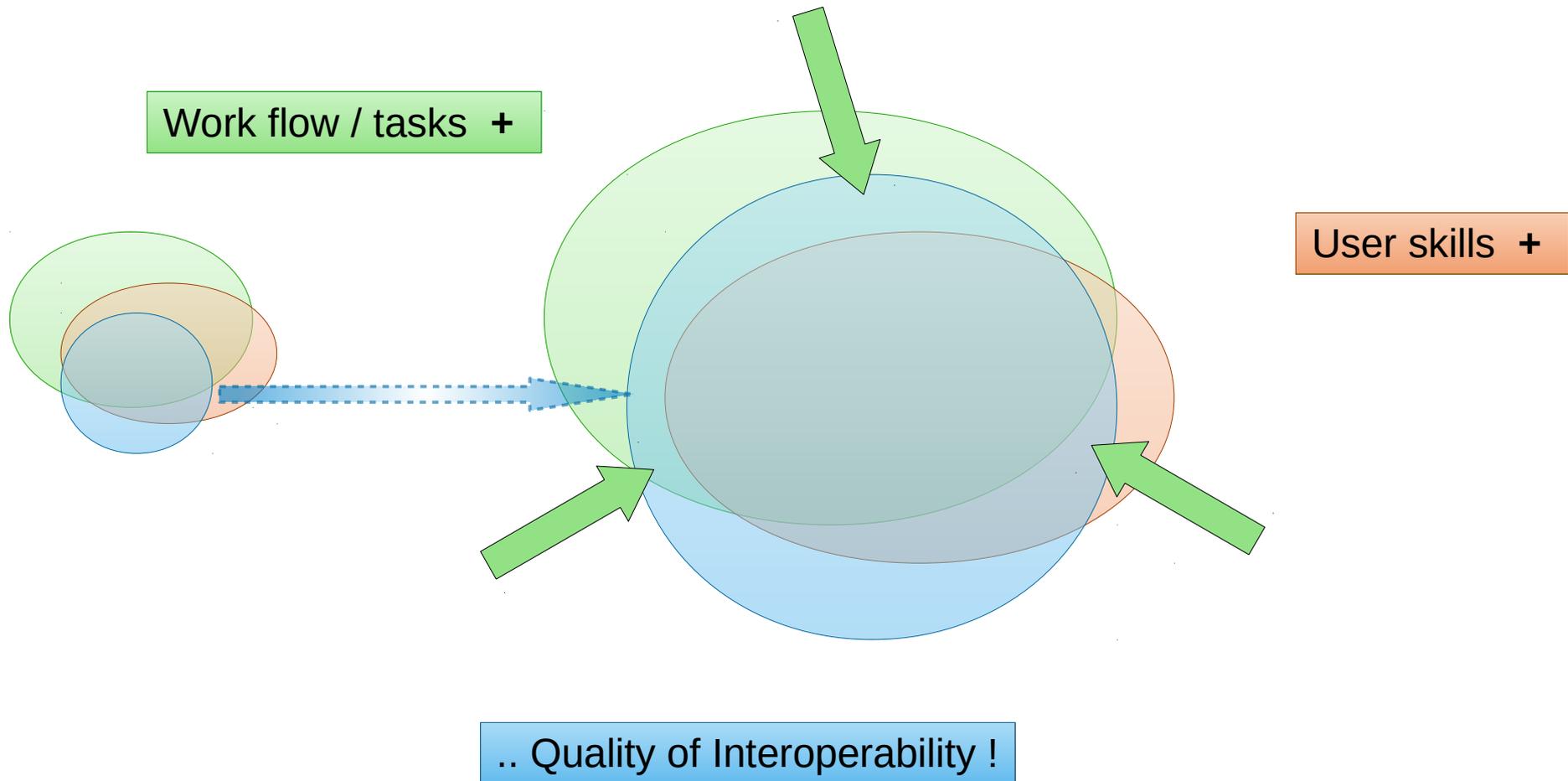
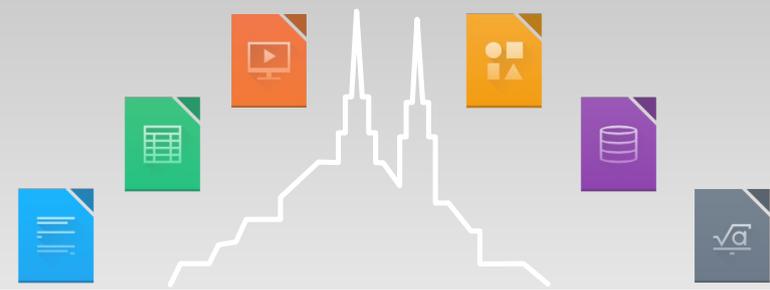
My take on this:  
Investigate the 100-200 issues  
create set of reference test  
with ~simple but comprehensive  
and docs and issues  
and showing a much better to  
digest list from the query:)

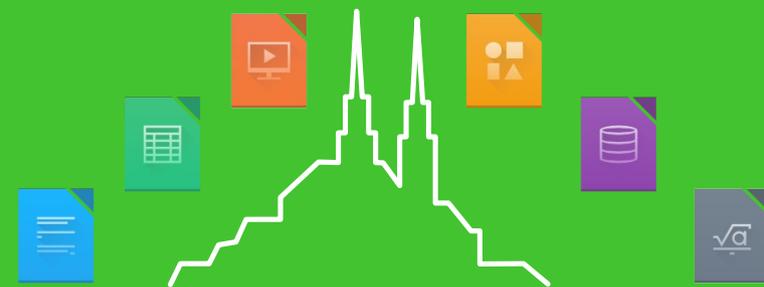


Highly impressed and pleased by:  
OSBA's "Interoperability contributions"  
Miloš Šrámek's "automated bisection of interoperability regressions"  
Michael Stahl's "Functional Document Testing"  
Many other developers hard work in this area



# Grow the area where LibreOffice fits excellent





Thank you for attending  
and supporting LibreOffice

- ▶ See you at the next conference!
- ▶ Contact me at [cno@nouenoff.nl](mailto:cno@nouenoff.nl)



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