

LibreOffice and ODF - The future of your office



LibreOffice
The Document Foundation

About the speaker

- **Florian Effenberger – sadly ill**
- Founding member and chairman of The Document Foundation
- Supervisory Board at Free Office Germany association
- Free software enthusiast for 12 years
- Pale imitation / replacement: **Michael Meeks**



Change to Improve

your life
does not get better
by **chance**
it gets better by
CHANGE

The Document Foundation

- **charitable** Foundation under German law
- stable, enduring entity for **users and contributors**
- objective is to foster free office based on **open standards**
→ this objective can **never** be changed by anyone
- gives **legal backing** to the community
- collects and manages donations for the LibreOffice project
- holds domain names, trademarks and other core assets
- provides infrastructure and a framework for everyone
- has a strong **membership** element incorporated in statutes
- secure and grows the **ecosystem** around LibreOffice

Vendor Independence



**NO one
can control
more than 30%
of the votes
in any statutory
body of TDF**

Advisory Board

Jeremy Allison, Google

Christian Schaller, RedHat

Alan Clark, SUSE

Bdale Garbee, Software in the Public Interest

Dirk Hohndel, Intel

Thomas Krumbein, Freies Office Deutschland e.V.

John Sullivan, Free Software Foundation

Martyn Russell, Lanedo

Affiliations

- OSI - Open Source Initiative
- OIN - Open Invention Network
- OASIS - Organization for the Advancement of Structured Information Standards

Copyleft vs Permissive



Copyleft
Volunteers



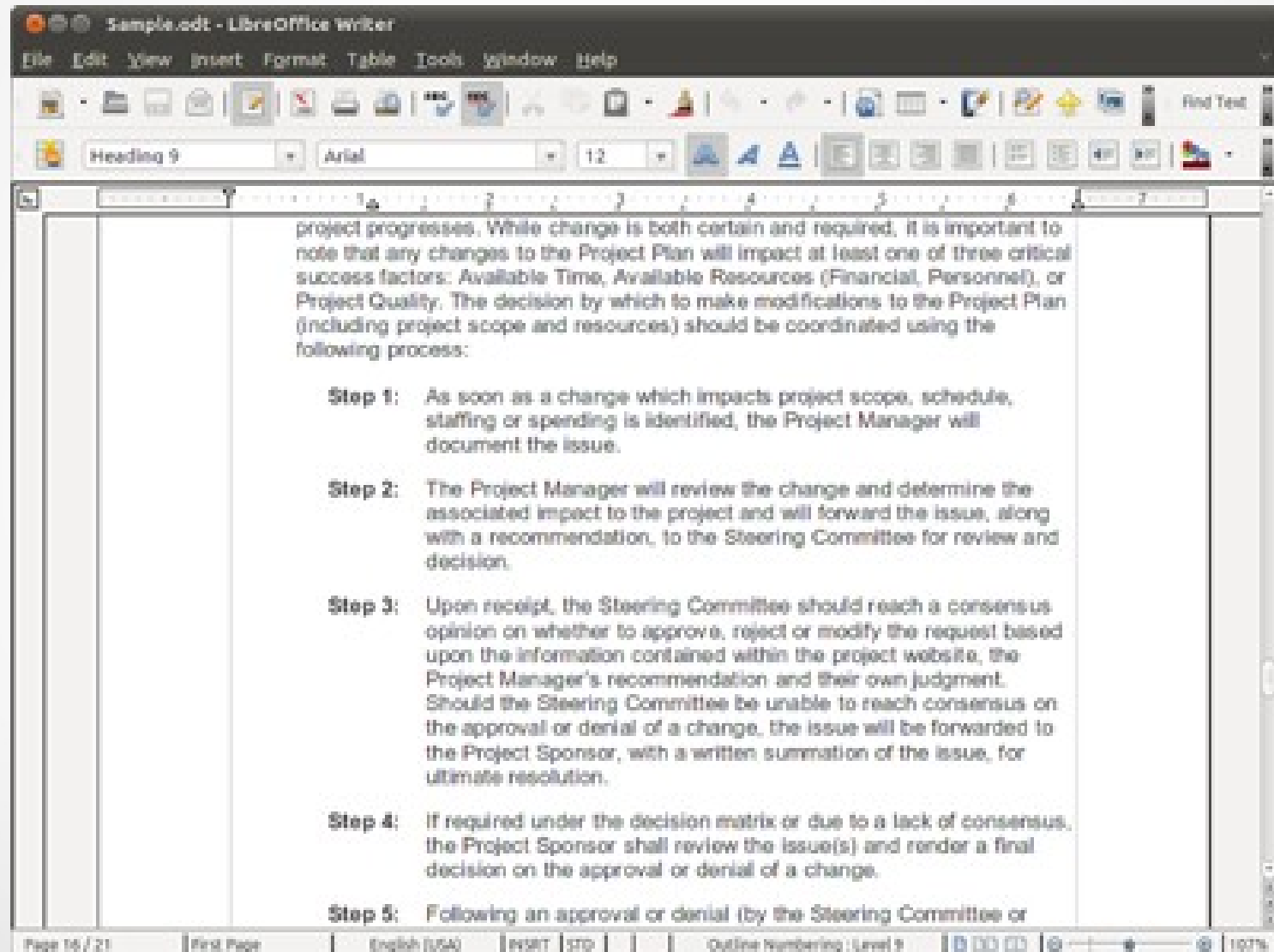
Permissive
Corporations

LibreOffice



using the OpenDocument format as native file format

Writer



Calc

Sample.ods - LibreOffice Calc

File Edit View Insert Format Tools Data Window Help

Find Text

Arial 9

C4 =

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T		
1	NPC	Hero	Buffs						Losses	Transports (based on logistics)												
2		attack	Archery	6	7	8	9	10		6	2	4	6	8	10	Total Resources	Food	Lumber	Stone	Iron		
3			HR	4	5	6	8	9														
4	1	40		50	12	12	16	10	6	43	36	31	27	24	22	215,000	100,000	20,000	20,000	20,000		
5		125																				
6	2	60		100	100	50	25	20	6	71	59	51	44	39	34	355,000	200,000	30,000	30,000	30,000		
7	3	70		150	140	135	125	120	6	240	200	171	150	133	120	1,200,000	600,000	75,000	75,000	75,000		
8		125				130	125	120														
9	4	70		300	275	225	200		6	452	377	323	283	251	224	2,280,000	1,400,000	120,000	120,000	120,000		
10		125				280	225	200	6													
11	5	70		1,000	500	420			6	758	685	570	499	443	399	3,990,000	3,000,000	180,000	180,000	180,000		
12		125				590	490	300														
13	6	100						3,000	275	1,040	867	743	650	578	520	5,200,000	4,000,000	200,000	200,000	200,000		
14	7									900	750	643	563	500	450	4,500,000	500,000	500,000	500,000	500,000		
15	8									2,280	1,900	1,629	1,425	1,267	1,140	11,400,000	8,000,000	800,000	800,000	800,000		
16	9									3,370	2,808	2,407	2,106	1,872	1,680	16,800,000	14,000,000	300,000	300,000	300,000		
17	10									4,460	3,717	3,186	2,788	2,478	2,230	23,300,000	19,000,000	600,000	600,000	600,000		
18	max																					
19																						
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29																						

Tip, add those on to the number listed
power and should be kept even with archery
troops and lower heroes, but you may have casualties

losses

The numbers listed are the lowest tried so far

Sheet 1 / 12

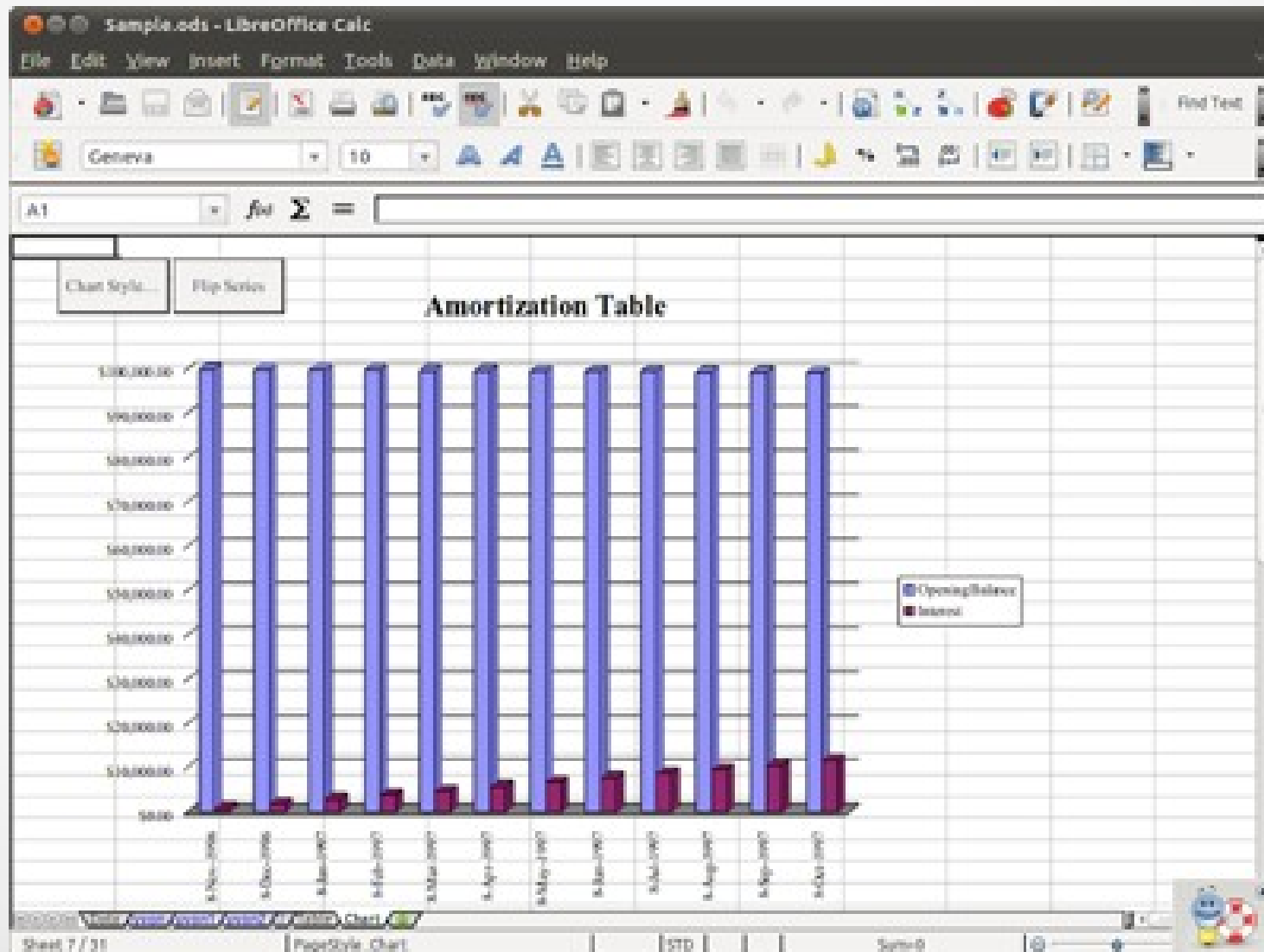
not

STD

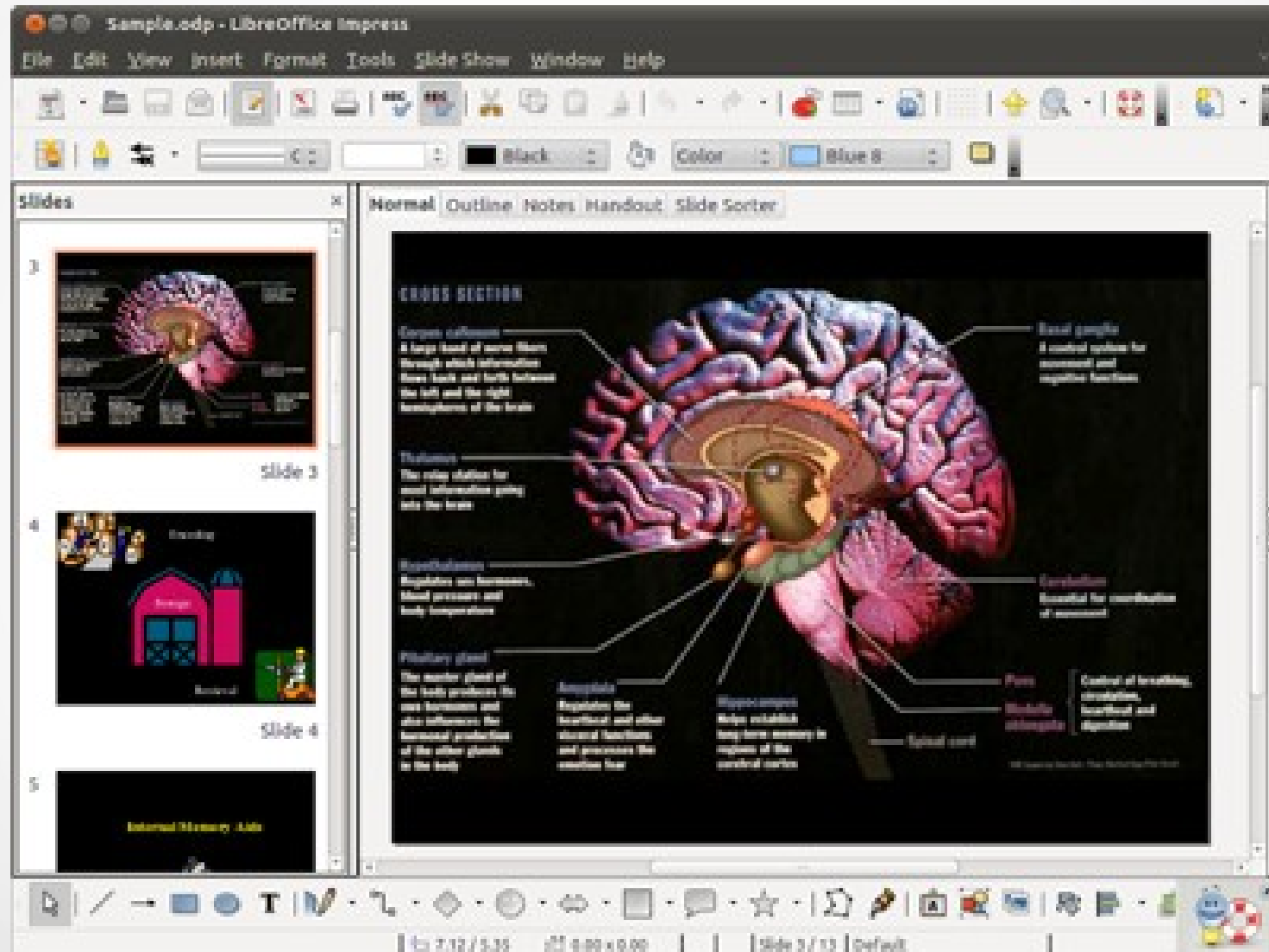
Sum=0

100%

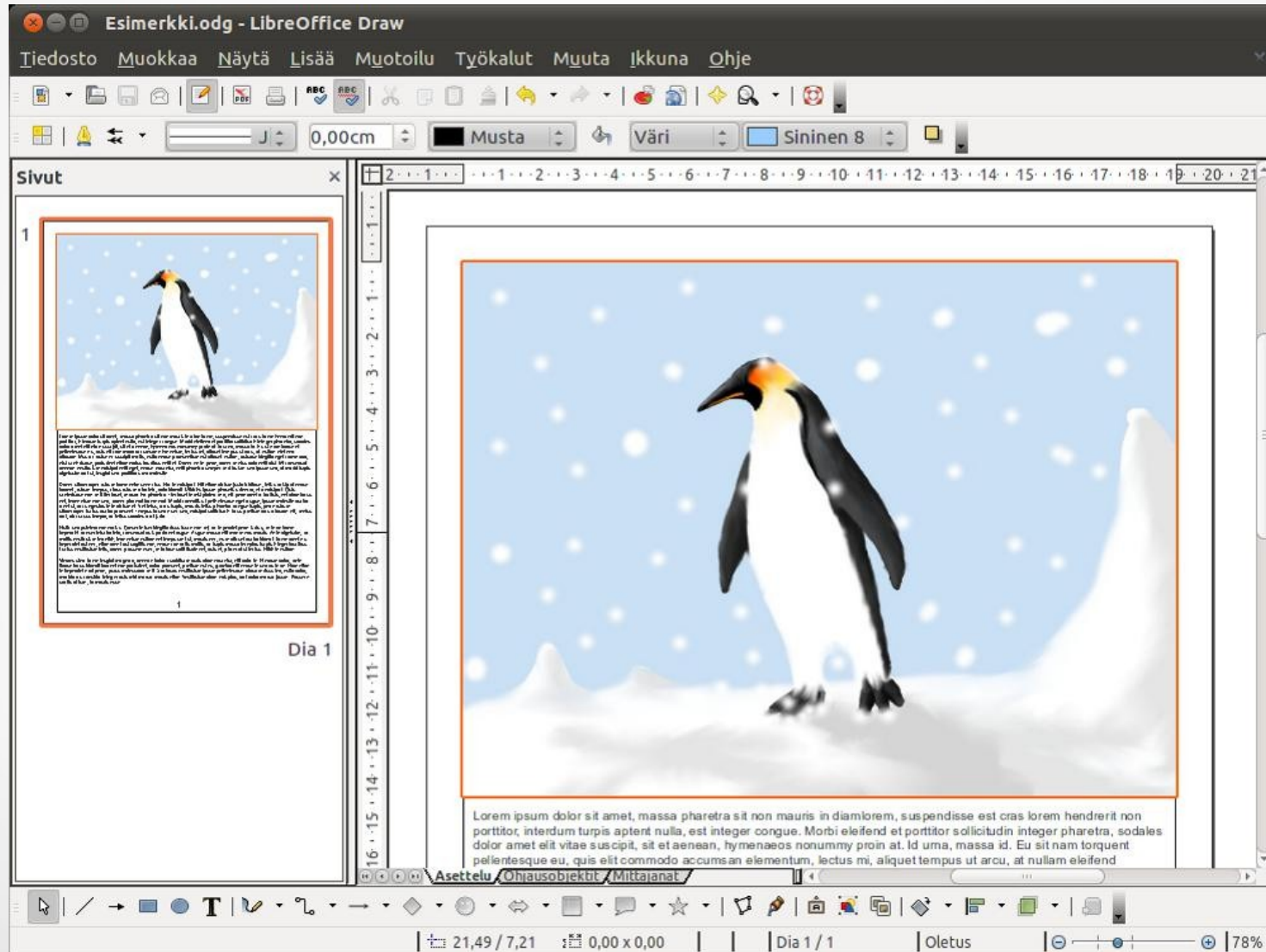
Graph



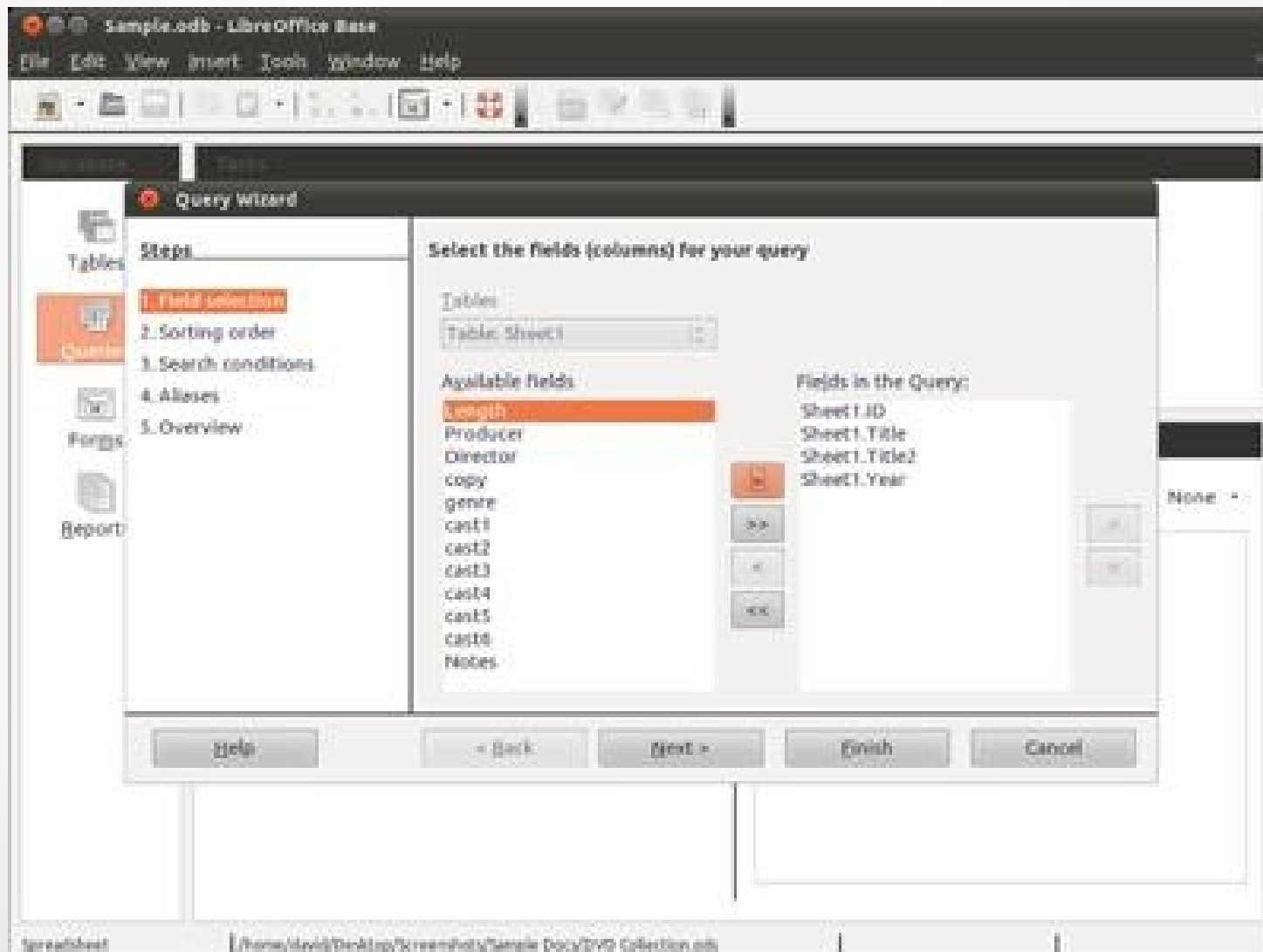
Impress



Draw



Base



Math

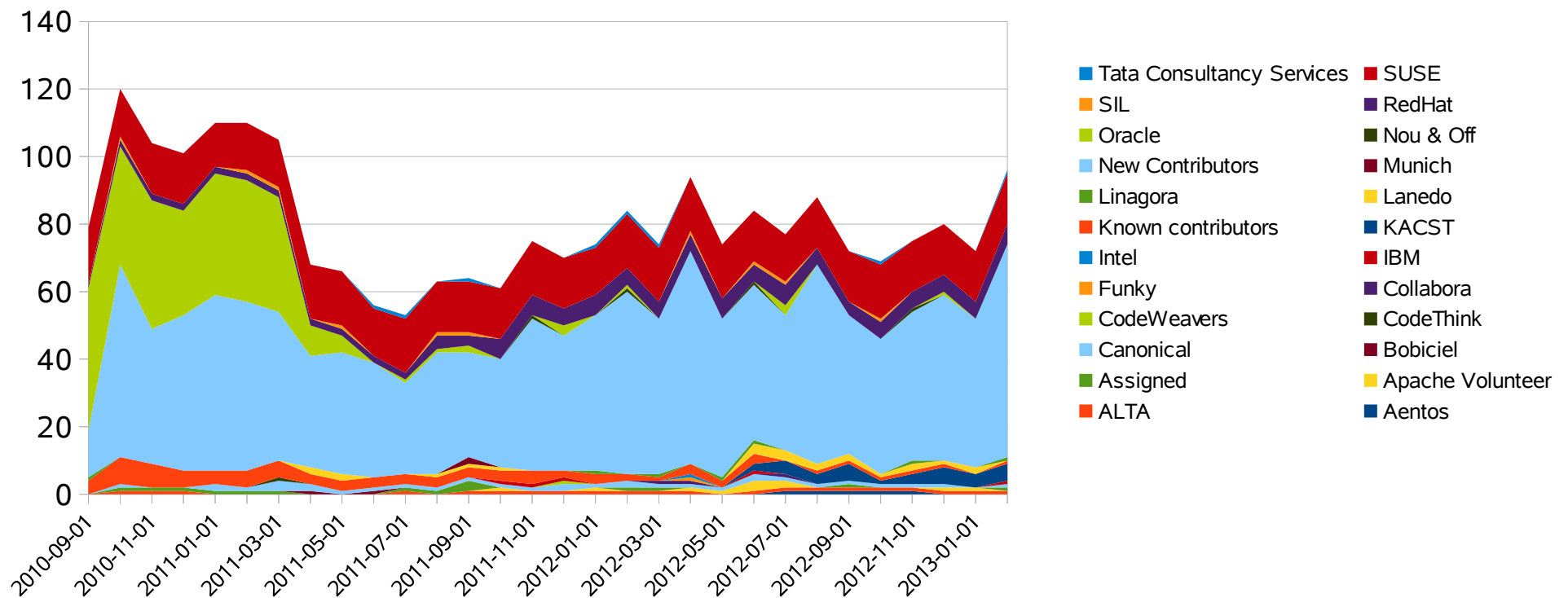
The image shows a screenshot of the LibreOffice Math application window. The title bar reads "Sample.odf - LibreOffice Math". The menu bar includes "File", "Edit", "View", "Format", "Tools", "Window", and "Help". The toolbar contains various icons for editing and formatting. On the left side, there is a "Elements" palette with various mathematical symbols and operators. The main workspace displays the equation $\frac{a}{b} = \frac{b}{a+b}$ in a large, elegant font. Below the workspace, a text area shows the source code for the equation: `{a} over {b} = {b} over {a + b}`. The status bar at the bottom indicates "100%" zoom and features a small icon in the bottom right corner.

Community Matters



Code Contributors

Active code contributors each month



An impressive community

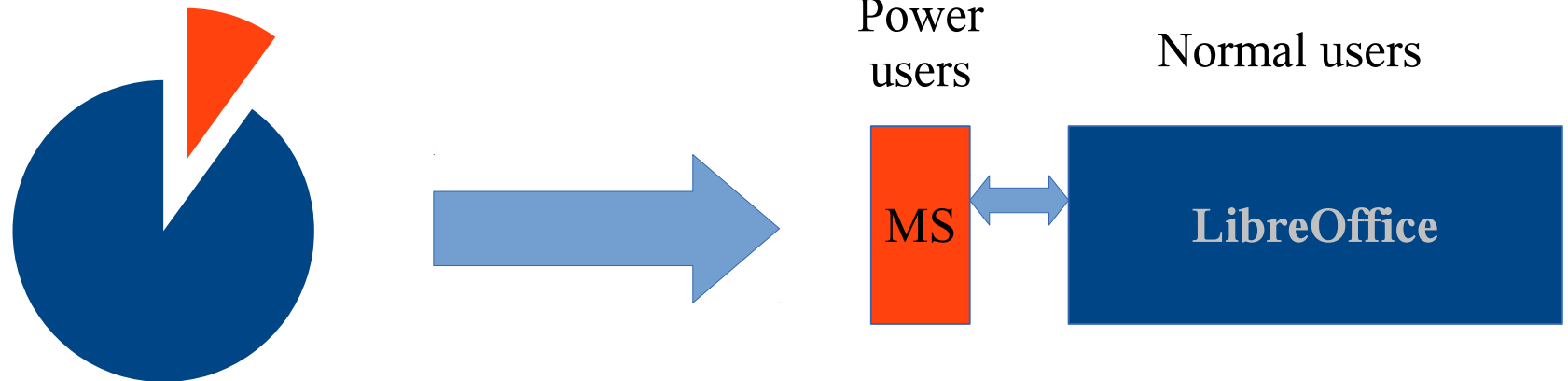
- 13.500 individual subscribers on 120 mailing lists
- 144 members of the foundation
- 30 million users worldwide in 110 languages
- supported by Google, Intel, SUSE, Red Hat, Lanedo, SPI, Free Software Foundation

Deploying LibreOffice ...

[or what your support partner
should tell you]

Deployment – worst practise ...

First segment the users



Deployment - best practise ...

Everyone installs LibreOffice,
And use high fidelity ODF
document interchange.
Cleanup minor document import
issues once.



Power users share ODF
documents externally, and use
Microsoft Office for the
remaining tough-nut
documents.

**Applying that to features:
LibreOffice 4.0 out now ...**
*a very quick & partial snapshot of
some of the new features*

Interoperability in 4.0

Core interoperability features

The screenshot displays the LibreOffice Writer interface with a document titled "test.odt". The document contains several paragraphs of Lorem Ipsum text. A range comment is visible, starting with "Range comments – sponsored by the" and "Open Source Business Alliance". The table of contents on the right side of the window lists four entries, each with a colored background and a dropdown menu:

- Content (blue background, dropdown: M (no date))
- Content (green background, dropdown: N (no date))
- Content (blue background, dropdown: M (no date))
- Content (purple background, dropdown: O (no date))

The status bar at the bottom indicates "Page 1 / 1", "Words: 20", "Default", "Hungarian", and "100%".

RTF: Drawing Object import

Same document in
LibreOffice 3.6

4.0

11 St' Menachem Begin Ramat Gan Israel 972-3-6339999 972-3-6296355		HRG Lachish Tours LTD	
		עוסק מורשה: 510817018	
To:	Mr. KAPLAN/LIOR	Co. Vat#:	510817018
Address:		IATA No.	37-21078-4
		Issue date:	24-Oct-11
			337768
		Start date:	27-Sep-11
		Due date:	24-Oct-11

ORIGINAL

Invoice	60027
For: Mr. KAPLANLIOR	

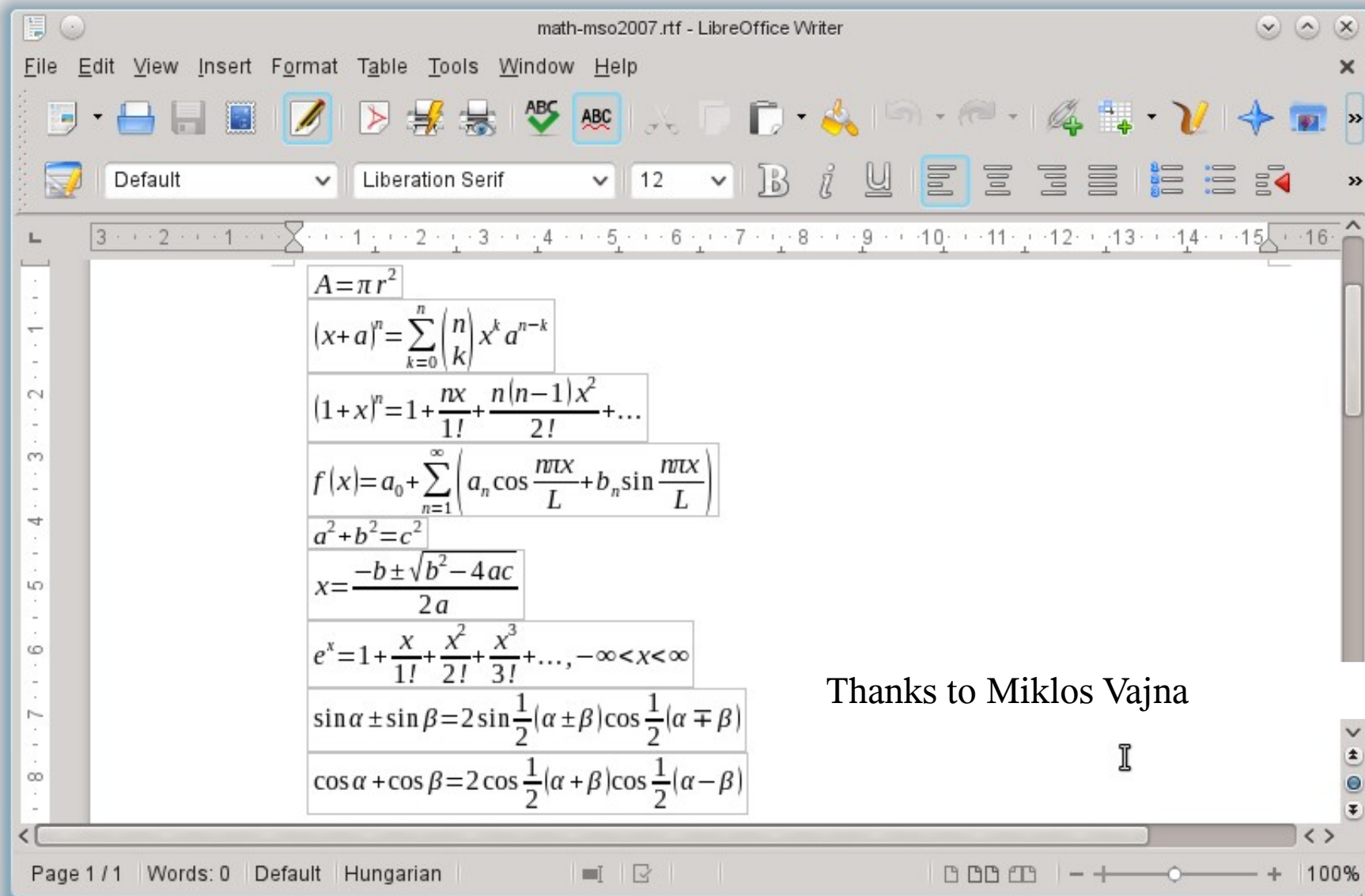
Service	Description	Amount	Tax	Cur
<input checked="" type="checkbox"/> Flight	Dep: 27-Sep-11 17:00 TEL AVIV - BGN APT ELAL 325T Arr: 27-Sep-11 PARIS - C. DE GAULLE	625.00	111.25	USD
<input checked="" type="checkbox"/> Flight	Dep: 16-Oct-11 00:20 PARIS - C. DE GAULLE ELAL 328V Arr: 16-Oct-11 TEL AVIV - BGN APT	0.00	0.00	USD
Total:		625.00	111.25	USD

+ Tax:	111.25
TOTAL:	736.25 USD

Remarks:

ETTI

RTF improved eg. Formulae



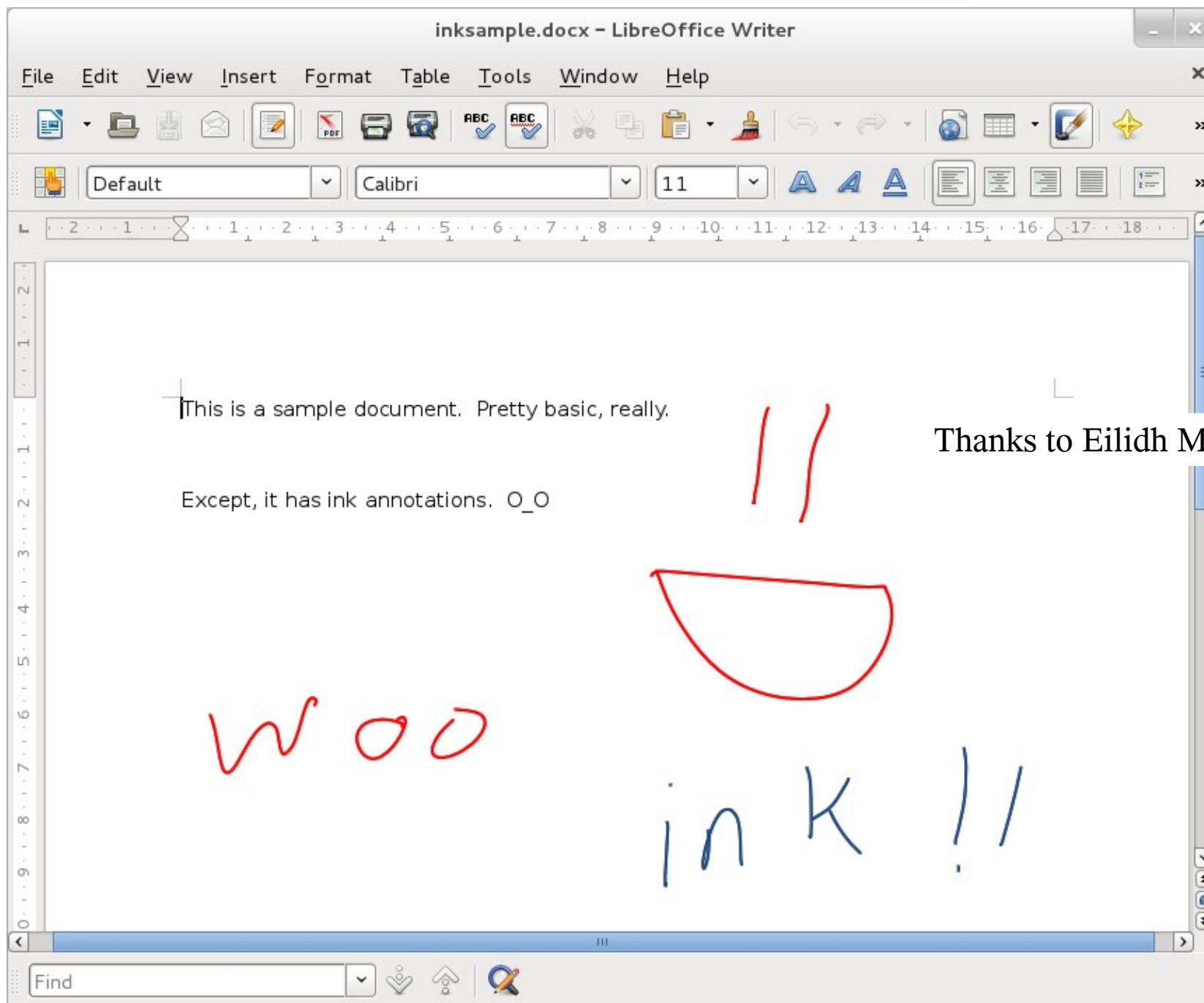
The screenshot shows the LibreOffice Writer interface with a document titled "math-mso2007.rtf". The document contains a list of mathematical formulas, each enclosed in a separate text box. The formulas are:

- $A = \pi r^2$
- $(x+a)^n = \sum_{k=0}^n \binom{n}{k} x^k a^{n-k}$
- $(1+x)^n = 1 + \frac{nx}{1!} + \frac{n(n-1)x^2}{2!} + \dots$
- $f(x) = a_0 + \sum_{n=1}^{\infty} \left(a_n \cos \frac{n\pi x}{L} + b_n \sin \frac{n\pi x}{L} \right)$
- $a^2 + b^2 = c^2$
- $x = \frac{-b \pm \sqrt{b^2 - 4ac}}{2a}$
- $e^x = 1 + \frac{x}{1!} + \frac{x^2}{2!} + \frac{x^3}{3!} + \dots, -\infty < x < \infty$
- $\sin \alpha \pm \sin \beta = 2 \sin \frac{1}{2}(\alpha \pm \beta) \cos \frac{1}{2}(\alpha \mp \beta)$
- $\cos \alpha + \cos \beta = 2 \cos \frac{1}{2}(\alpha + \beta) \cos \frac{1}{2}(\alpha - \beta)$

The interface includes a menu bar (File, Edit, View, Insert, Format, Table, Tools, Window, Help), a toolbar with various icons, and a status bar at the bottom showing "Page 1 / 1", "Words: 0", "Default", "Hungarian", and a zoom level of "100%".

Thanks to Miklos Vajna

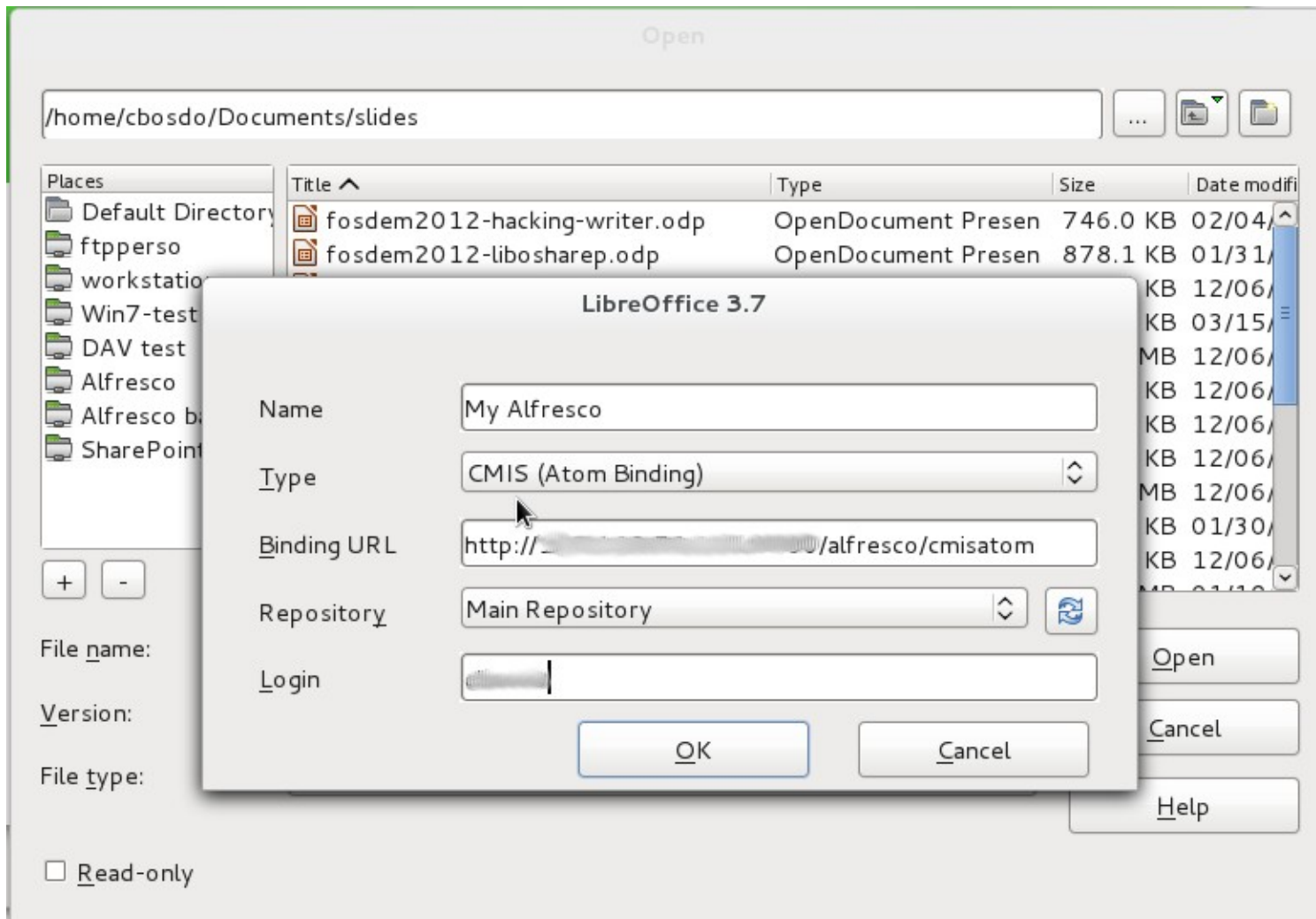
DOCX – ink annotation import



Thanks to Eilidh McAdam / Lanedo

CMIS: Sharepoint / Alfresco / Nuxeo ...

- Using the CMIS protocol – load / save / checkout to your favourite content / document management system:



Proprietary → ODF continues

Wordperfect, Works, Visio, Corel Draw ...

The screenshot shows a presentation slide within a software interface. The slide features a central image of a child's hands holding yellow daffodils. To the right of the image is a yellow box containing the text: "Развивать коммуникативность. Формировать основы нравственных знаний." Below the image is another yellow box with the text: "Партнёрские способы взаимодействия взрослого и ребёнка." To the right of this box is a third yellow box with the text: "Обучение детей средствам общения через игру." Below that is a fourth yellow box with the text: "Усвоение социальных норм и правил поведения." At the bottom left of the slide is an illustration of a man in a white lab coat pointing at a green chalkboard. To the right of the slide is a large white box containing the text: "Microsoft Publisher import thanks to Brennan Vincent (GSOC) Valek Filippov Fridrich Strba". The software interface includes a menu bar (File, Edit, View, Insert, Format, Tools, Modify, Window, Help), a page number indicator (1-30), and a status bar at the bottom showing "Layout / Controls / Dimension Lines", "16.49 / -2.03", "0.00 x 0.00", "Slide / Default", and "116%".

Visio: all file formats now imported

The screenshot shows the LOdev Draw application window titled "Rack.vsd - LOdev Draw". The main workspace contains a diagram of a server rack labeled "Site 5 Building F First Floor". The rack is 42 U high and contains the following components from top to bottom:

- 1 U: Patch Panel
- 2 U: Patch Panel
- 5 U: Patch Panel
- 1 U: Monitor
- 1 U: Keyboard
- 8 U: Server 1 - 10.1.1.20
- 8 U: Server 3 - 10.1.1.24
- 8 U: Server 4 - 10.1.1.26
- 8 U: Primary Router
- 8 U: Mgmt Port: 10.1.1.15
- 8 U: Primary Addresses: 10.1.1.0/255.255.255.0, 10.1.2.0/255.255.255.0, 10.1.6.0/255.255.255.0, 10.1.7.0/255.255.255.0
- 2 U: Power Supply

An LODEv version dialog box is open in the foreground, displaying the following information:

LOdev
Version 4.0.0.0.beta1 (Build ID: 87906242e87d3dadb2ba9827818f2d1416d80cc7)
LOdev is a modern, easy-to-use, open source productivity suite for word processing, spreadsheets, presentations and more.
This release was supplied by The Document Foundation
Copyright © 2000 - 2012 LibreOffice contributors and/or their affiliates
LOdev is derived from LibreOffice which was based on OpenOffice.org

Buttons: Credits, Website, Close

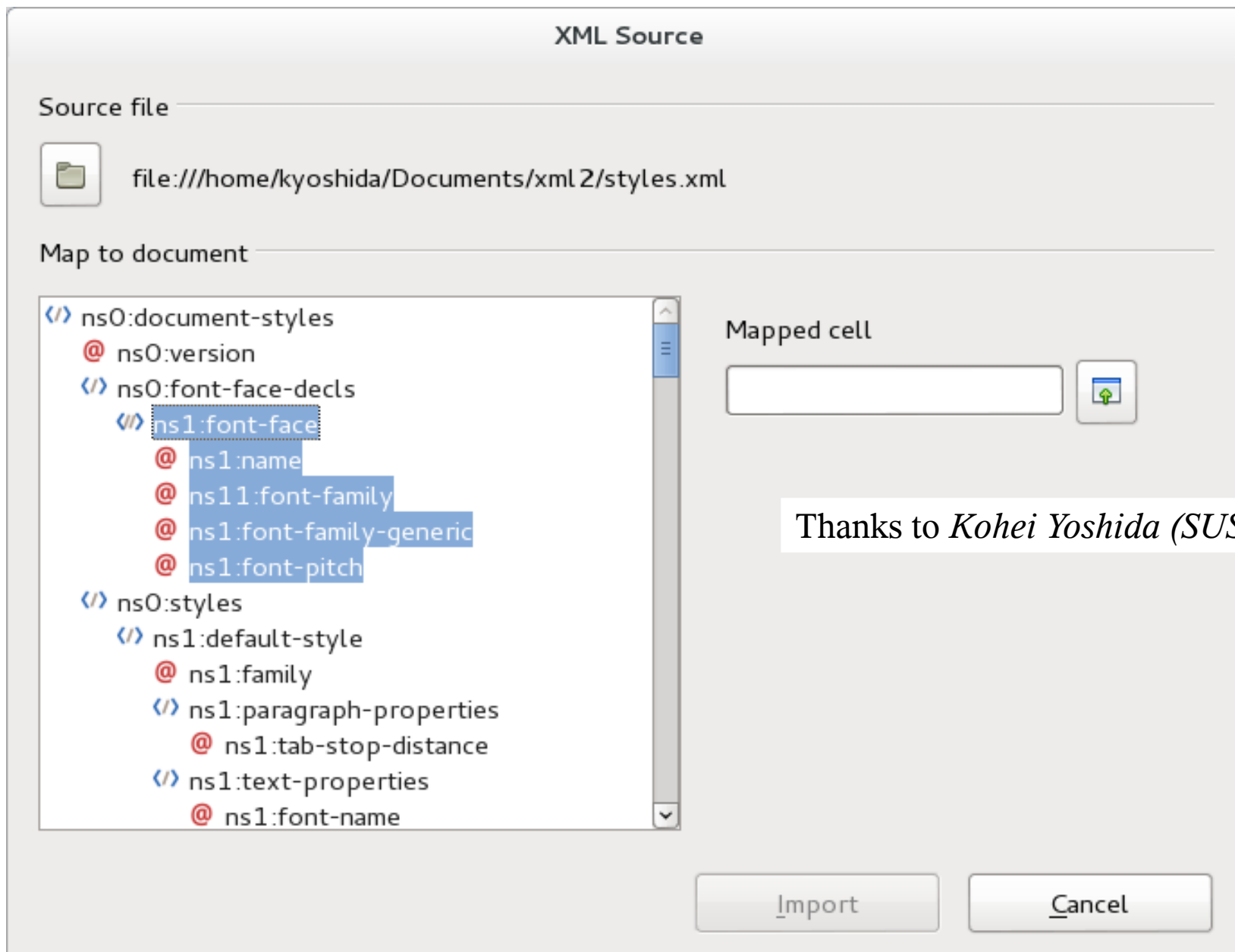
The application interface includes a menu bar (File, Edit, View, Insert, Format, Tools, Modify, Window, Help), a toolbar, a status bar at the bottom showing "-4.09 / 16.57", "0.00 x 0.00", "Slide 1 / 1", "Default", and a system tray with the time "11:57".

*Thanks to
Fridrich Strba
Valek Filippov*





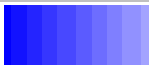





Includes the **just-release**
Visio 2013 format.

Calc improvements ...
a few details on one component

Arbitrary XML → spreadsheet



Conditional fmts: bars + icons

	A	B	C
1	Name	Score A	Score B
2	Mary	 16.38%	 65.98%
3	Bob	 22.35%	 32.36%
4	Abdul	 22.61%	 13.90%
5	Holly	 49.00%	 77.50%
6	Oak	 17.57%	 18.98%
7			

Many thanks to:
*Markus Mohrhard &
Stefan 'Astron' Knorr*

Stock option pricing formulae ...

pricing.ods - LibreOffice Calc

File Edit View Insert Format Tools Data Window Help

Sans 10

MAX $=E\$17*OPT_BARRIER(B\$7,B\$8,B\$12,B\$13,E\$9,E\$10,E\$11,E\$12,E\$13,E\$14,E\$15,E\$16,H12)$

OPT_BARRIER(spot, vol, r, rf, T, strike, barrier_low, barrier_up, rebate, put/call, knock in/out, barrier_type, greek)

1 **Black Scholes Model: $dS/S = (r-rf) dt + vol dW$**

2 **Option value: $\exp(-r T) E[\text{payoff}(S_T)]$**

3 valuation of barrier options

4 payment happens at maturity T

market		contract	
spot	1.2	today	1-Oct-2012
vol	12.0%	maturity	1-Dec-2012
rate (domestic)	1.0%	T	0.167
rate (foreign)	3.0%	strike K	1.1
		barrier lower	0
		barrier upper	1.5
		rebate	0
		(p)ut or (c)all	c
		knock-(i)n or knock-(o)ut	g
		(c)ontinuous or at the (e)nd barrier	c
		notional	1000

		market quotation	
		domestic	foreign
vanilla put/call	price	96.924	80.770
	price	96.923	80.769
d/dS	delta	953.472	1144.166
	prem adj delta	872.703	1047.243
d^2/dS^2	gamma	1497.247	17.967
d/dt	theta	7.876	0.022
d/dvol	vega	43.239	0.360
d^2/dvol^2	volga		
d^2/dSdvol	vanna	-1262.911	
d/dt	rho	175.020	1.444
d/drf	rhof	-191.218	-1.547
	hit barrier	0.00%	
	S_T in money	95.37%	

Thanks to Tino Kluge

$=E\$17*OPT_BARRIER(B\$7,B\$8,B\$12,B\$13,E\$9,E\$10,E\$11,E\$12,E\$13,E\$14,E\$15,E\$16,H12)$

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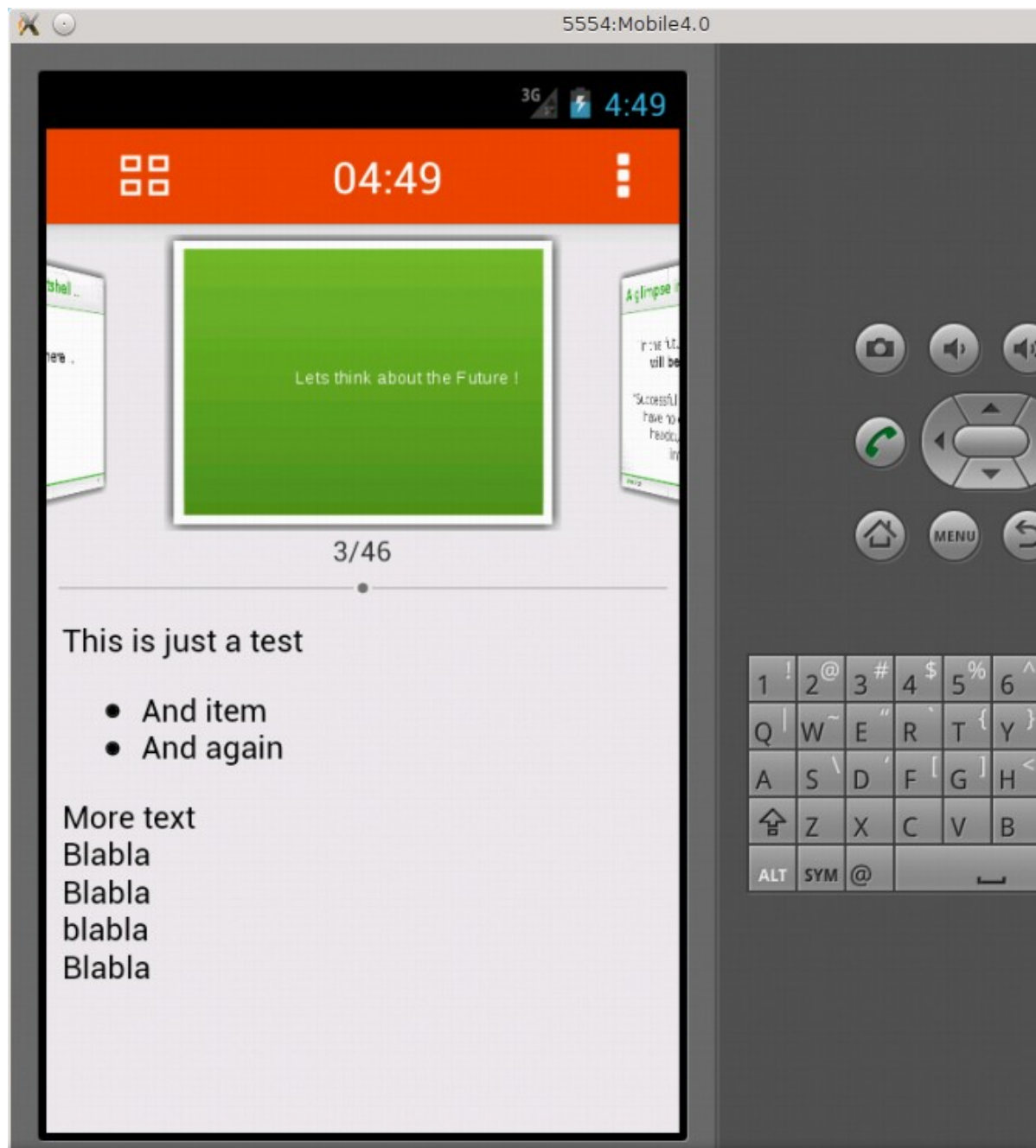
touch, barrier, hedging, compare with saved

Sheet 2 / 4 PageStyle_barrier Sum=1013.769 100%

Fun improvements ...
Those features that make life better

Android remote control ...

- ▶ Thanks to *Andrzej J. R. Hunt (and GSOC)*
- ▶ Use your smart-phone as a powerful remote control
 - ▶ see your notes
 - ▶ switch slides
 - ▶ up-load your slides ?



Android remote control ...

5554:Mobile4.0

- ▶ Pretty slide sorter / selector
- ▶ Clock / count-down etc.
- ▶ Potential future work
 - ▶ accelerometer / laser pointer ?
- ▶ fuse with viewer code to allow projection from a tablet ?
- ▶ Should ship in 3.7/4.0

Lets think



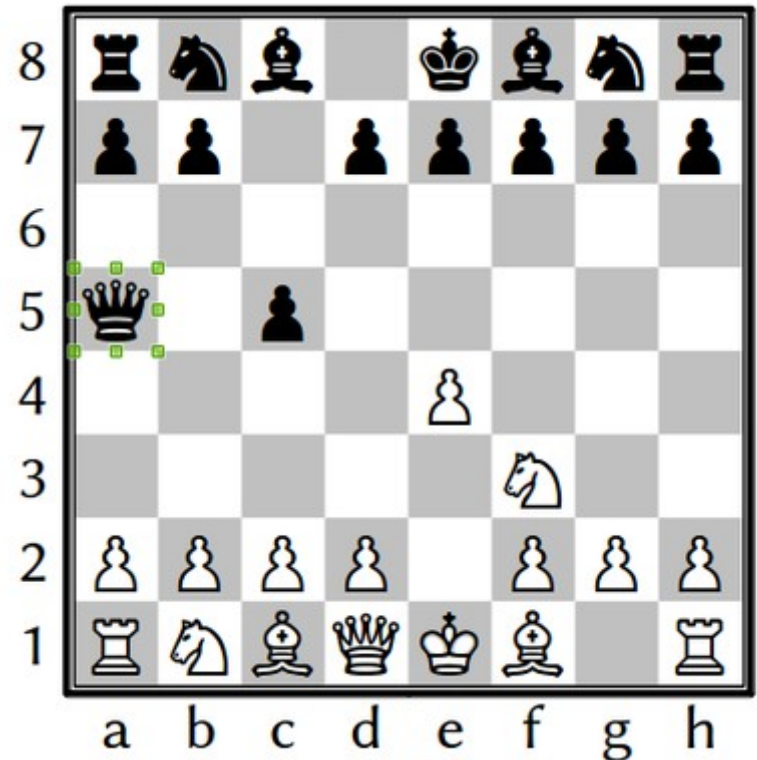
Schools: LibreLogo integration ...



A tiny Python implementation

If schools teach 'typing' instead of programming: ensure they have no excuse: add a localised, pretty training language in the office-suite !

Thanks to Laszlo Nemeth



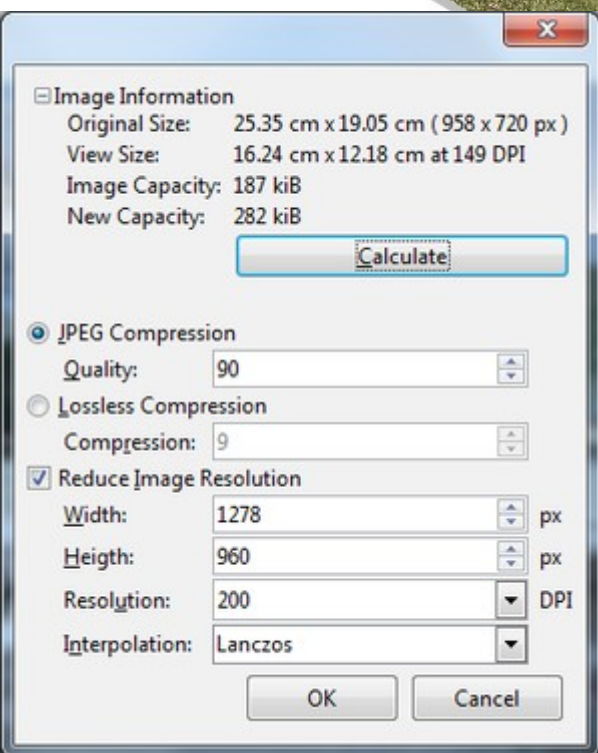
UI improvements ...
or how we're looking less awful

Improved graphics scaling

OLD:



NEW:



Higher quality image rendering

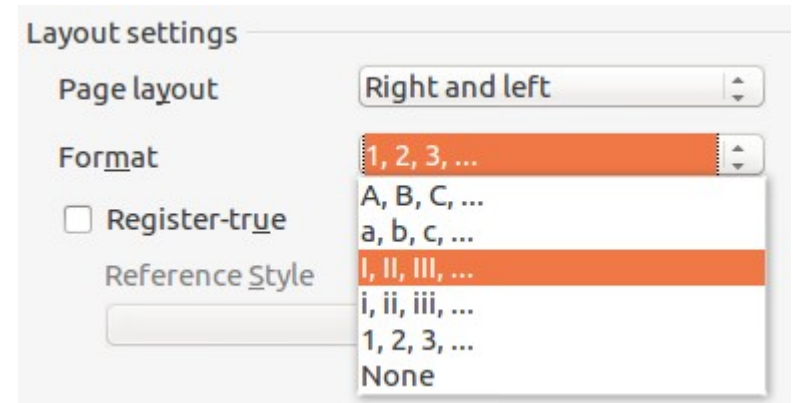
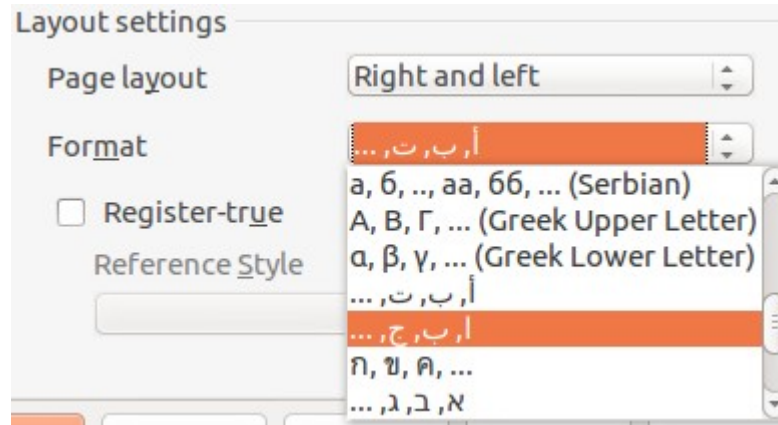
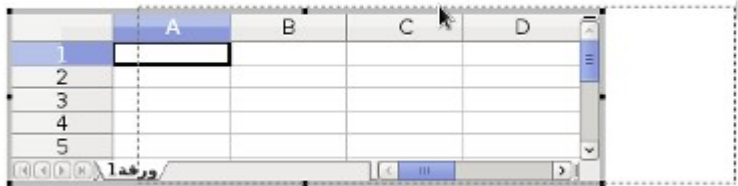
Improved image smoothing tool

Re-sizing, re-scaling, and adapting compression of embedded objects now possible during editing.

Thanks to Tomaž Vajngerl

Snapshots of the great work from KACST : Motah Getting Arabic & Right-To-Left right.

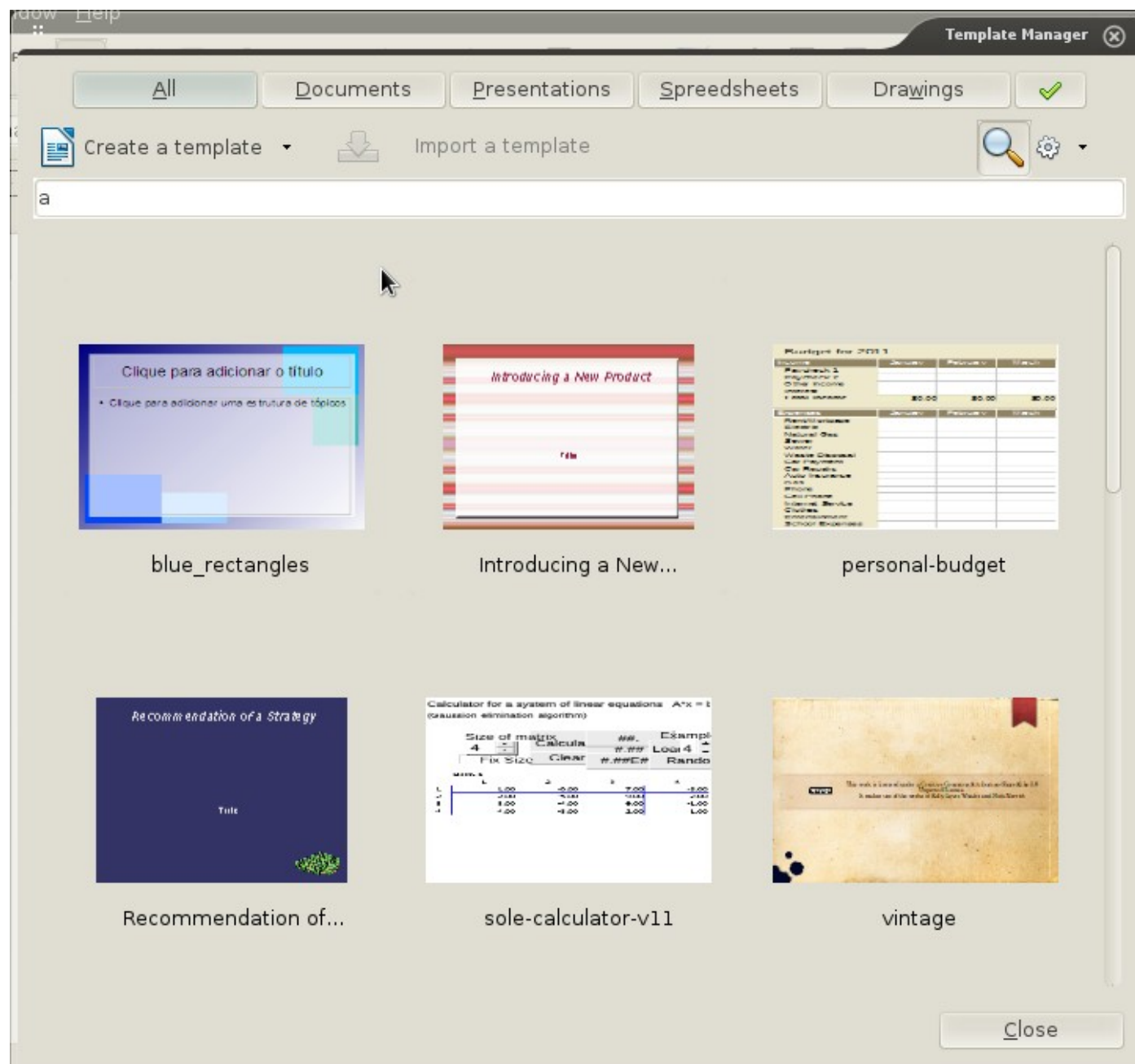
Funky OLE object dragging fixed.



And much more;
see above link.

New Template selection UI

- Thanks to *Rafael Dominguez (GSOC)* and *Cedric Bosdonnat & Design team*
- Making template selection and search prettier & simpler.



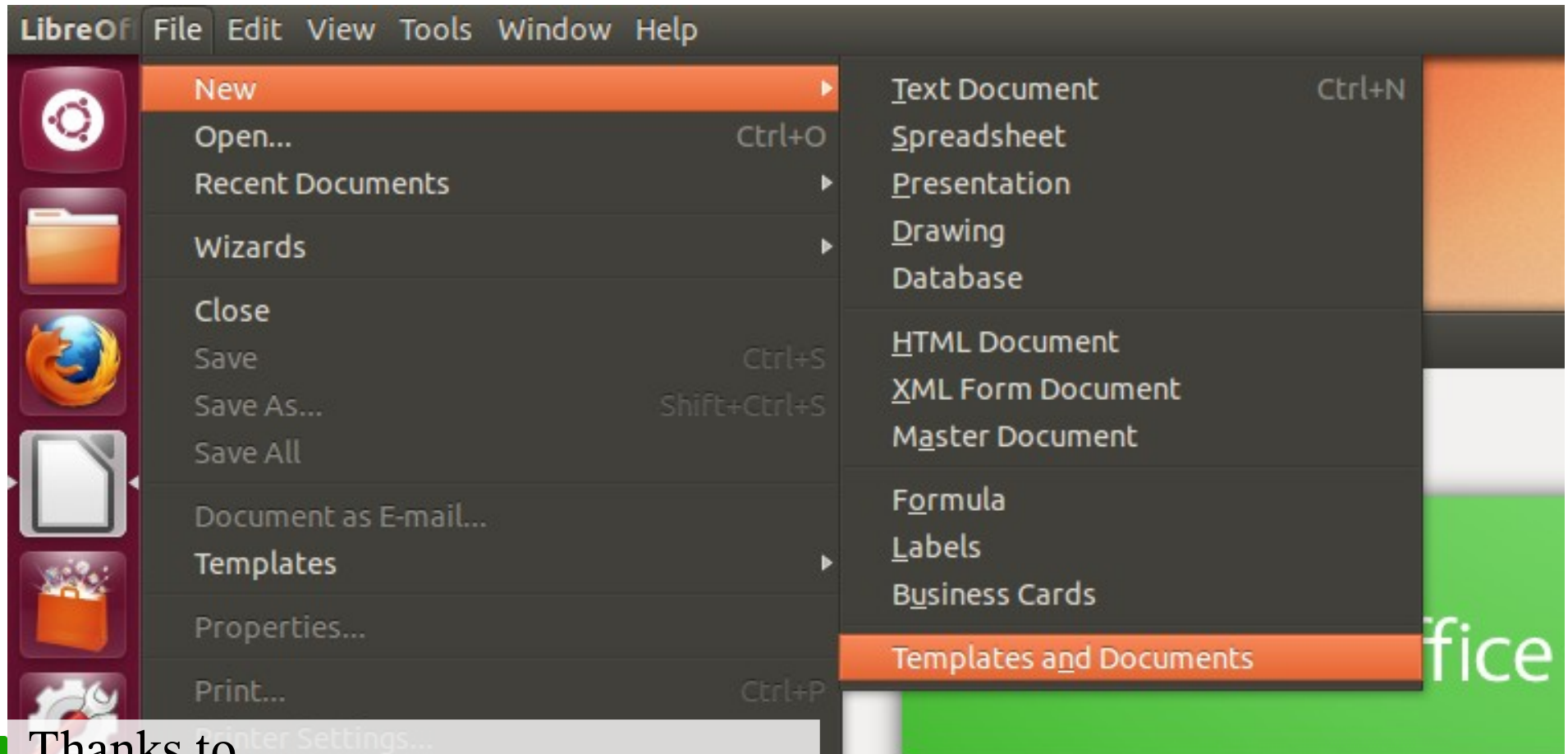
Style previews in drop-down

- ▼ Thanks to *Jan Holesovsky*
- ▼ Making styles easier to use.



The screenshot shows the LibreOffice Writer interface. The title bar reads "Untitled 1 - LibreOffice". The menu bar includes File, Edit, View, Insert, Format, Table, Tools, Window, and Help. The toolbar contains various icons for file operations and editing. The style dropdown menu is open, showing the following options: Clear formatting, Default Style, Heading, **Heading 1** (with red double underline), *Heading 2* (with teal italic), Heading 3, Text Body (highlighted in blue), and More... The document content shows the following text: **This is Heading 1**, *And under that, Heading 2*, **Heading 3**, and And of course, the Text Body here...

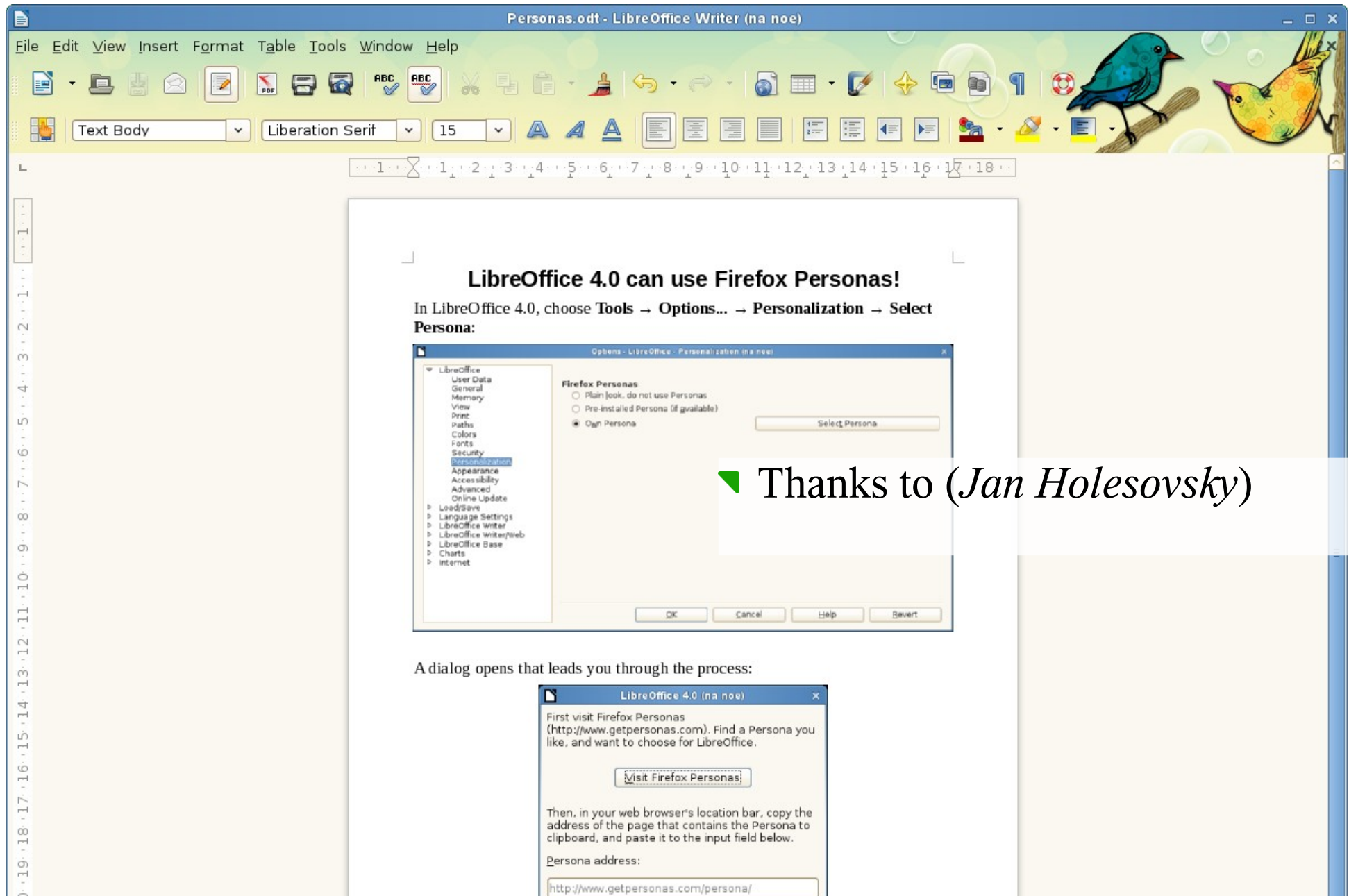
Unity menu integration



Thanks to
(Antonio Fernandez, Björn
Michaelsen, Alberto Ruiz, Ryan
Lortie, Ted Gould)



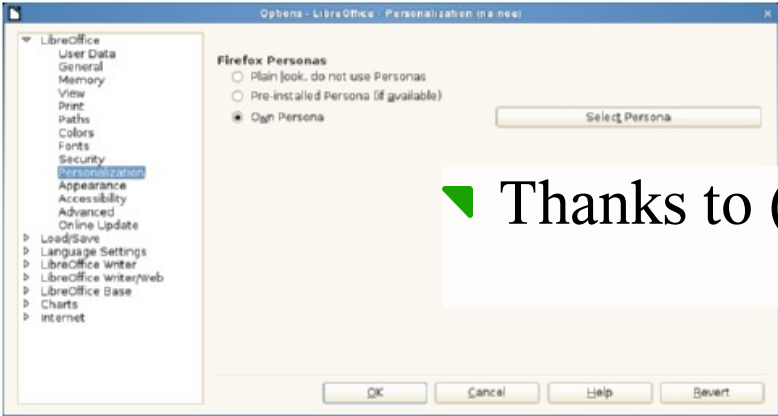
Personas ... shared with Firefox



The image shows a screenshot of the LibreOffice Writer application window. The title bar reads "Personas.odt - LibreOffice Writer (na noe)". The menu bar includes File, Edit, View, Insert, Format, Table, Tools, Window, and Help. The toolbar contains various icons for file operations and editing. The main text area displays the following content:

LibreOffice 4.0 can use Firefox Personas!


In LibreOffice 4.0, choose **Tools** → **Options...** → **Personalization** → **Select Persona**:



The dialog box shows the "Personalization" section selected in the left sidebar. Under "Firefox Personas", the "Own Persona" option is selected. A "Select Persona" button is visible.

▼ Thanks to (*Jan Holesovsky*)

A dialog opens that leads you through the process:



The dialog box contains the following text:

First visit Firefox Personas (<http://www.getpersonas.com>). Find a Persona you like, and want to choose for LibreOffice.

[Visit Firefox Personas](#)

Then, in your web browser's location bar, copy the address of the page that contains the Persona to clipboard, and paste it to the input field below.

Persona address:

Thank you for your time!
Questions?

