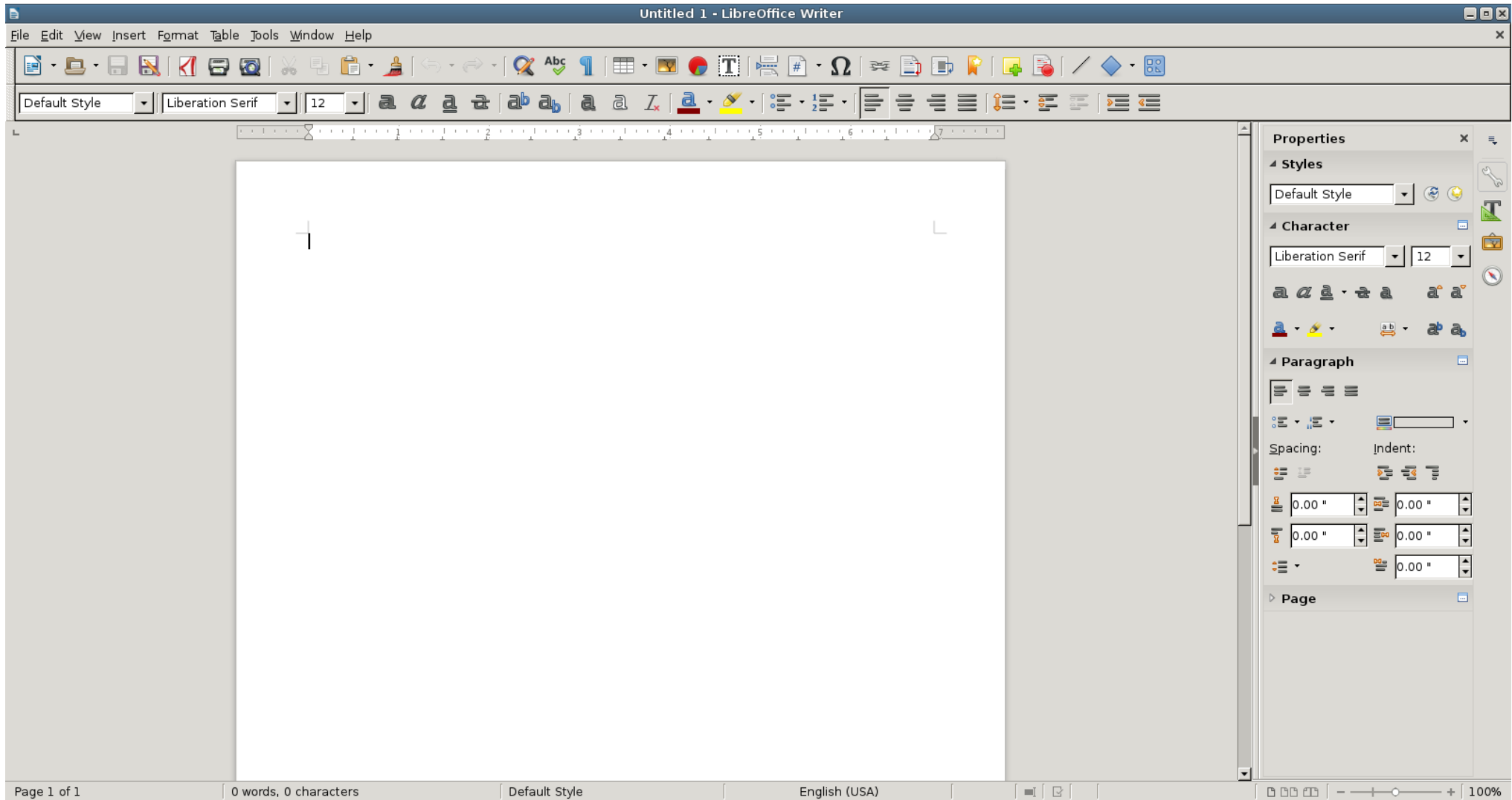
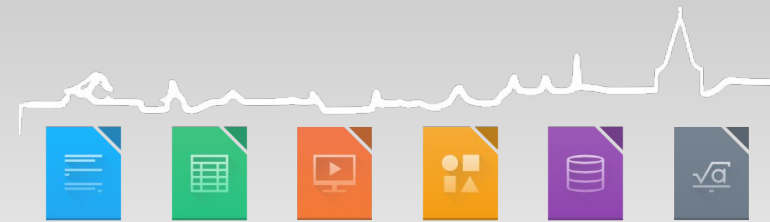




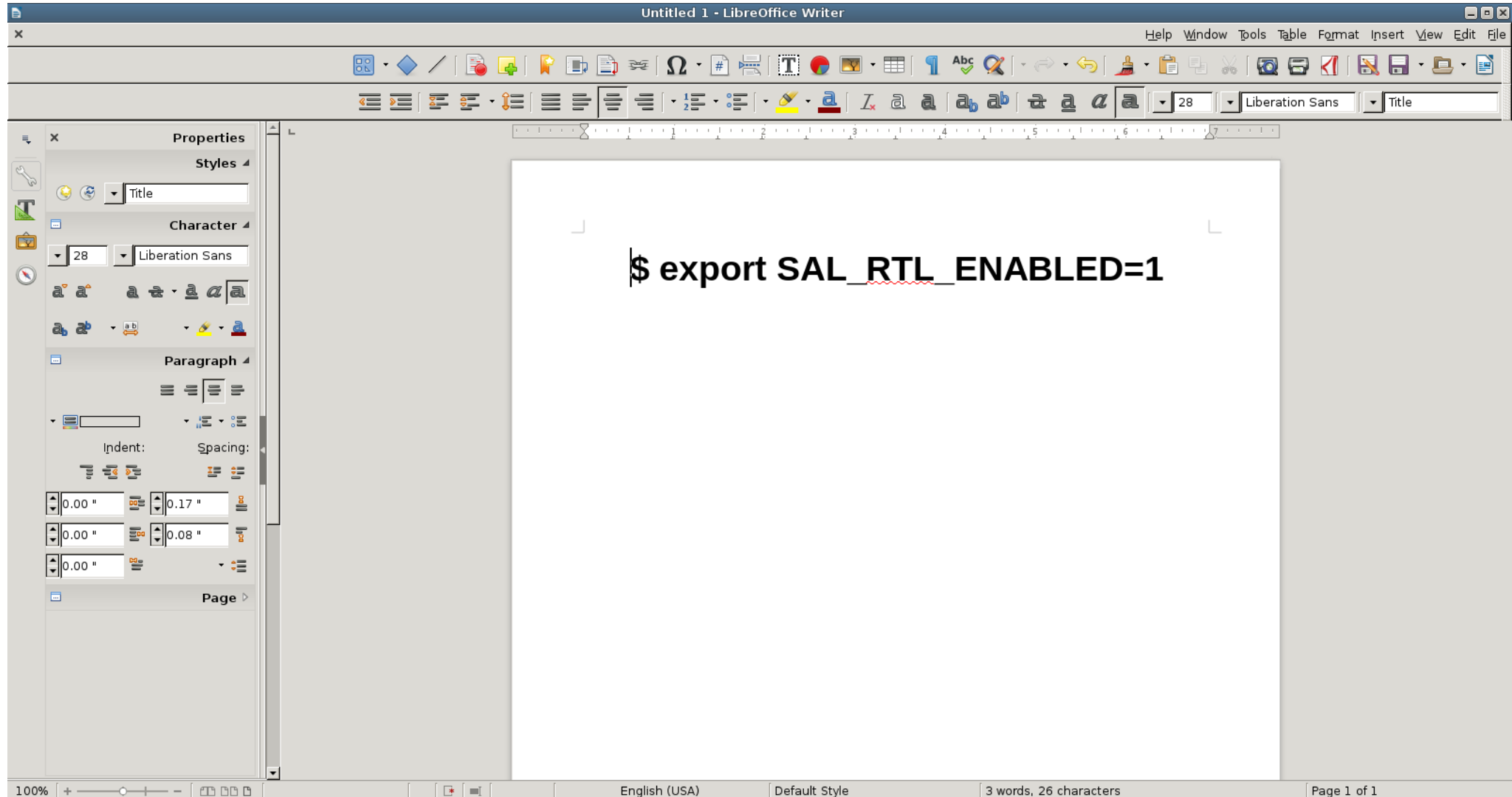
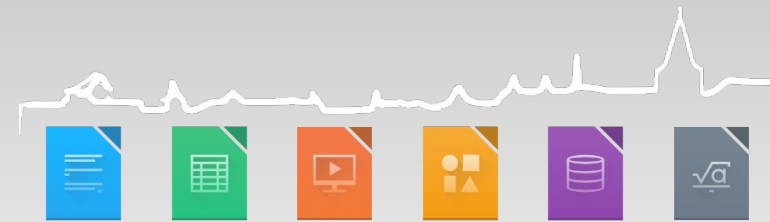
Right to left (RTL) support status 2015

- ▼ Lior Kaplan

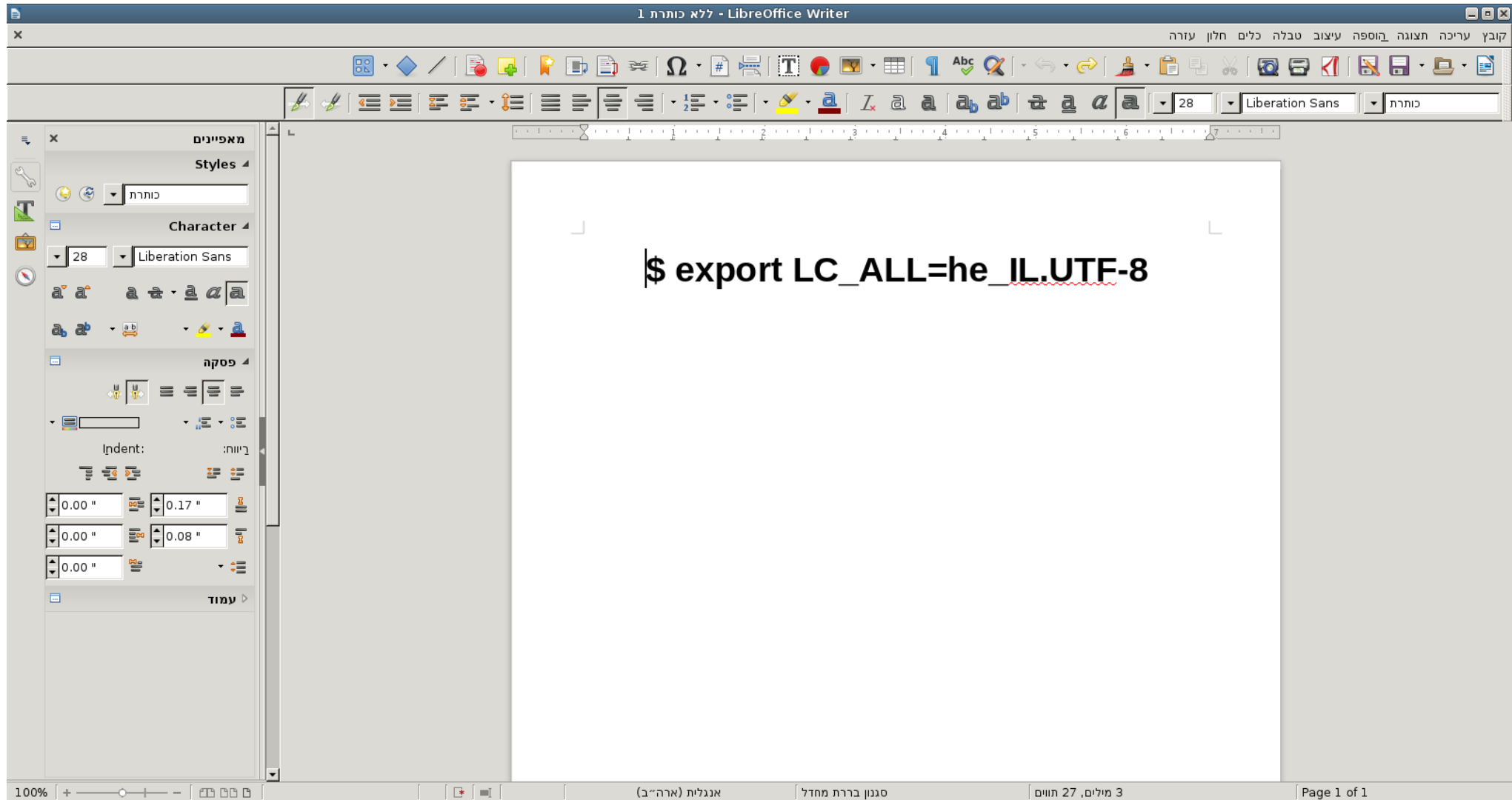
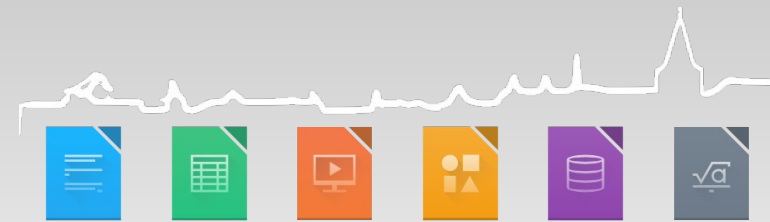
Have you seen it?

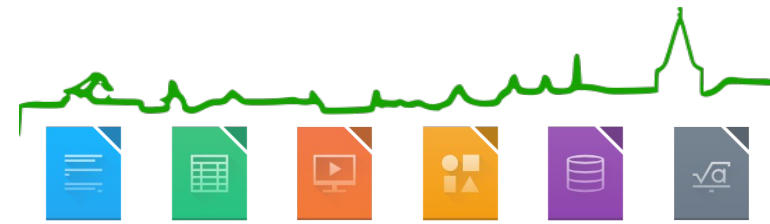


Have you seen it?



Have you seen it?



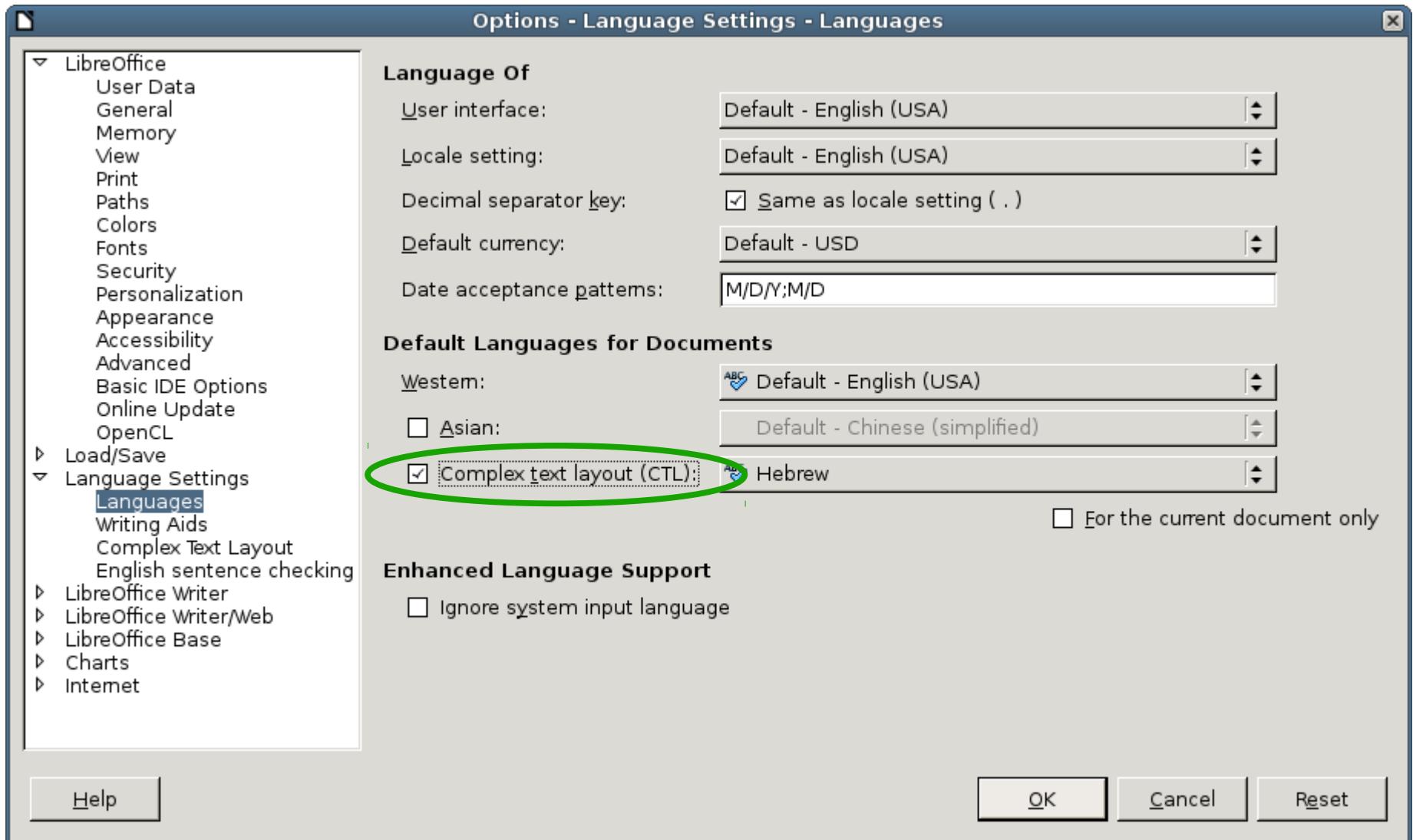
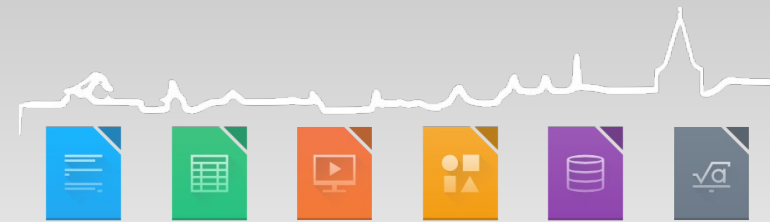


The basics

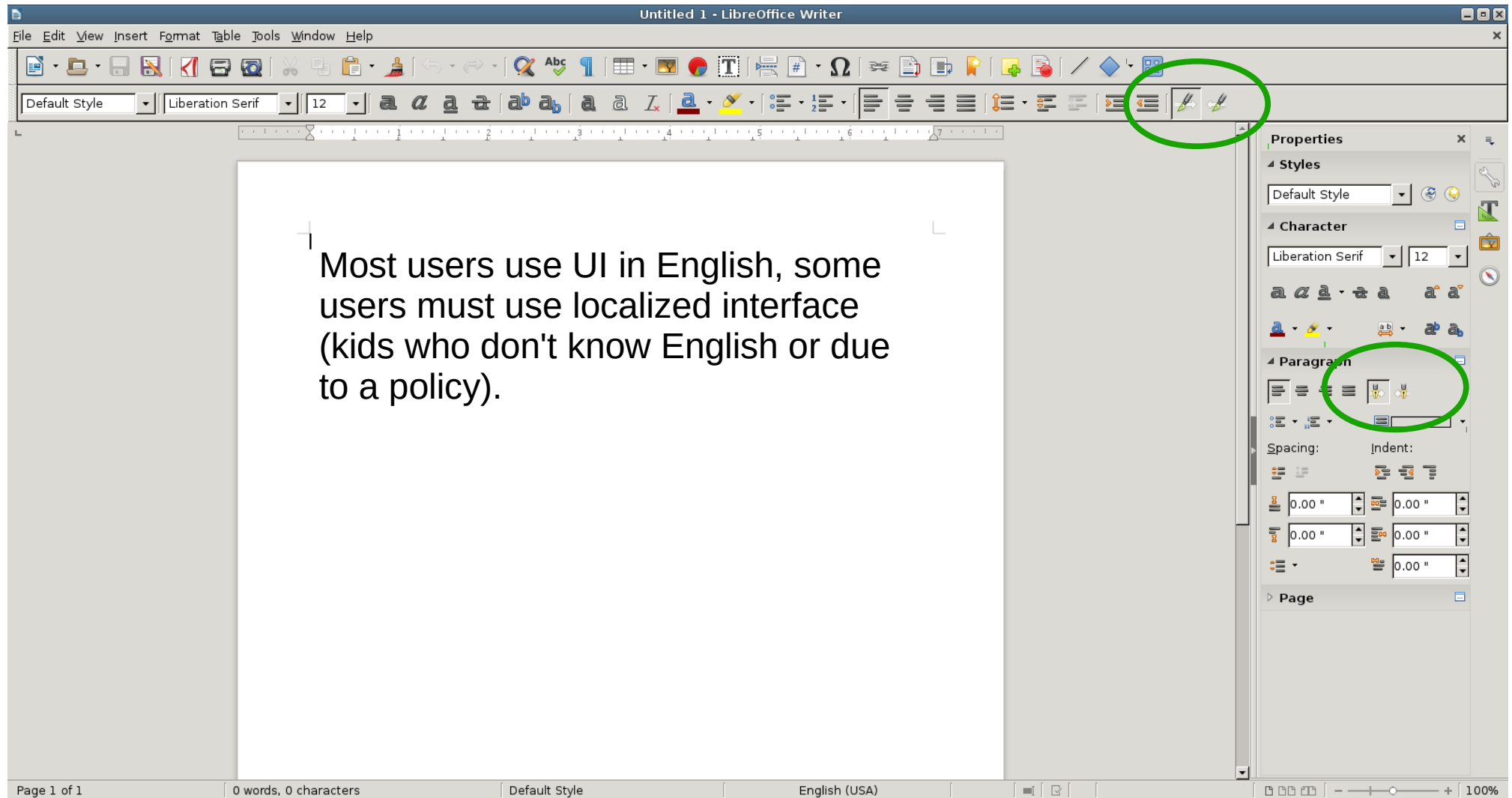
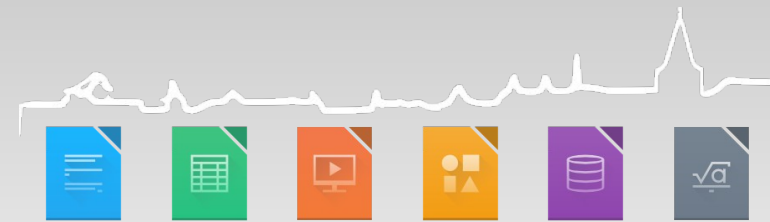
- ▼ RTL interface != RTL support
- ▼ Directionality != alignment



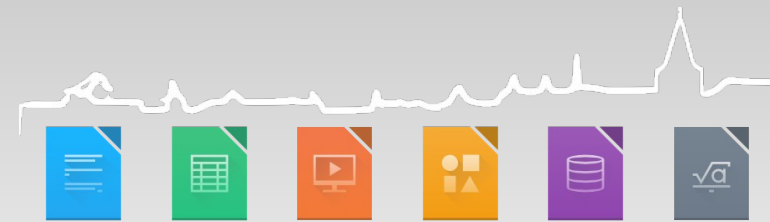
RTL interface != RTL support



RTL interface != RTL support

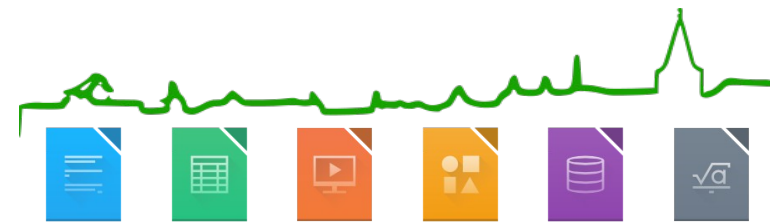


Directionality != alignment



- ▼ Mixed טקסט text 25-09-2015 מעורב !
 - ▼ Mixed טקסט text 25-09-2015 מעורב !
- !25-09-2015 מעורב text טקסט Mixed ▼
 - !25-09-2015 מעורב text טקסט Mixed ▼
- ▼ טקסט Mixed מעורב text 25-09-2015!
 - ▼ טקסט Mixed מעורב text 25-09-2015!
- !text 25-09-2015 מעורב Mixed טקסט ▼
 - !text 25-09-2015 מעורב Mixed טקסט ▼
- ▼ Notice the weak directionality characters



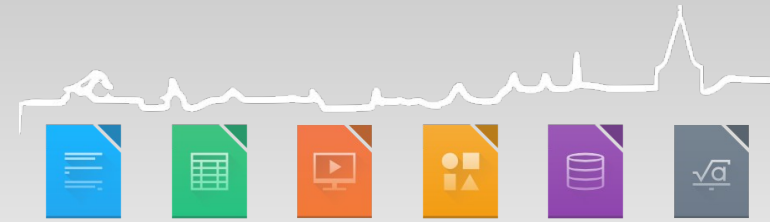


RTL bugs

- ▼ Meta bug at [tdf#43808](https://tdf.org/ticket/43808)
- ▼ Updated status at http://wiki.documentfoundation.org/RTL_Bugs



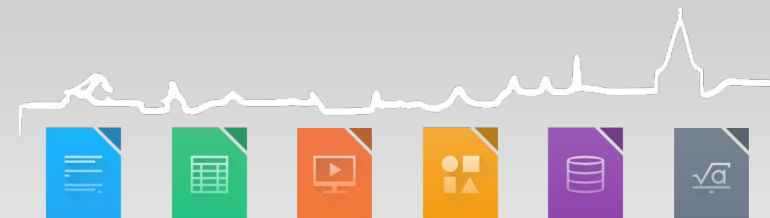
Bug types



- ▼ Language support – happens only with a RTL language (e.g. tdf#55361 or tdf#56408)
- ▼ Directionality support – happens only with RTL directionality (e.g. tdf#32531)
- ▼ Interface problems – happens only with RTL interface (e.g. tdf#93352)
- ▼ Mixed of the above (e.g. tdf#56403).
- ▼ In addition – language specific requirements (e.g. Arabic but not Hebrew).
- ▼ Notice: All example bugs still happen in LibreOffice 5.0.2 (Debian GNU/Linux, 64bit).



What have changed (LibO 4.0)

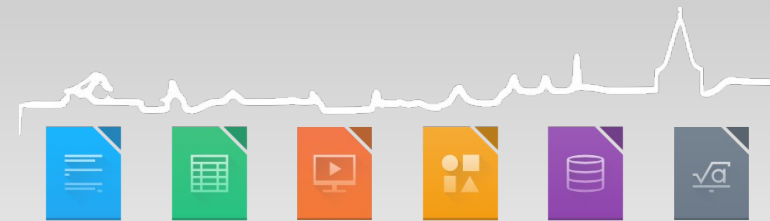


4.0.0 [\[edit\]](#)

- [tdf#33356](#) Cannot remove RTL and LTR icons from the toolbar
- [tdf#42070](#) RTL support is broken in presenter Console extension
- [tdf#42577](#) RTL UI toolbar view mirrored (docking and expand at the wrong side) when Insert Object Formula
- [tdf#43210](#) Writer: preview before printing in RTL lang, the 1st page is from left
- [tdf#43901](#) RTL Toolbar icons order becomes opposite when in OLE object edit mode
- [tdf#44657](#) RTL UI: Horizontal scrollbar in calc main window is broken
- [tdf#44925](#) Calc: list box contents should be same direction/alignment as sheet, not the interface
- [tdf#56970](#) Switching between sheets with different directionality hides the + button for new sheet
- [tdf#60785](#) RTL UI: Undo/Redo buttons point to the wrong direction



What have changed (LibO 4.1)

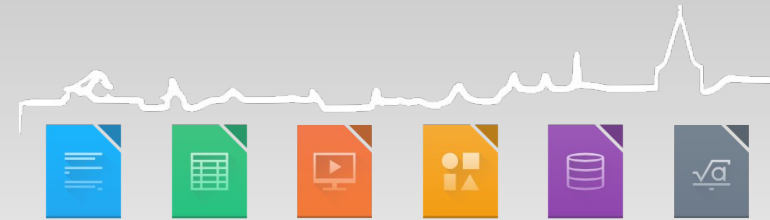


4.1.0 [\[edit\]](#)

- [tdf#33302](#) Brackets inverted in rtl text (mac only)
- [tdf#37464](#) Cell Border works backwards on Right-to-Left spreadsheet
- [tdf#37692](#) RTL list numbering reverses its direction
- [tdf#38951](#) RTL numbering with wrong direction in Textbox
- [tdf#39370](#) RTL / LTR and right/left alignment buttons' icons should not be reversed in RTL interface
- [tdf#40496](#) "Clear Direct Formatting" clears RTL directionality
- [tdf#42387](#) RTL EDITING: merge cell destroys table, borders incorrect for new table
- [tdf#44582](#) RTL UI: Horizontal scrollbar in navigator window is broken
- [tdf#51835](#) Indent changes in Calc forces alignment to left
- [tdf#53030](#) Calc deletes current sheet, not right-clicked on sheet when trying to delete opposite directionality sheets
- [tdf#53031](#) Undoing sheet deletion restores it to the default directionality regardless of the original sheet directionality
- [tdf#54629](#) EDITING: Hebrew/Arabic text is not clickable in textbox area of Impress slides (Lohit Hindi font only)
- [tdf#55432](#) EDITING: the context menu opened out of screen boundaries if (1) opened by the keyboard key and (2) in column A, (3) in RTL mode, and (4) column A is wider than menu width*1.6 :)
- [tdf#56970](#) Switching between sheets with different directionality hides the + button for new sheet
- [tdf#59117](#) Cell Borders of last(Right most) column is missing in RTL Table in impress
- [tdf#59892](#) Text written with Graphite Font (e.g Linux Biolinum G) Mirrored when the context direction is Right-to-left
- [tdf#60554](#) Borders disappear while merging some cells in tables (impress/draw)
- [tdf#60785](#) RTL UI: Undo/Redo buttons point to the wrong direction
- [tdf#60855](#) RTL UI: handout show boxes out of page border
- [tdf#62050](#) EDITING: comments window in RTL UI not working well
- [tdf#62143](#) EDITING: In RTL letter numbering bullets aren't displayed properly in edit view
- [tdf#62399](#) FORMATING: incorrect matching of border lines in 'Table Format' dialog for RTL Table (calc)
- [tdf#62470](#) FORMATING: incorrect matching of border lines in 'Table Format' dialog for RTL Table (writer)
- [tdf#63254](#) UI: Horizontal scrollbar area isn't displayed when resizing while sheet is RTL and gtk integration is present
- [tdf#63323](#) Comments in RTL sheet don't point to the appropriate cell
- [tdf#63546](#) EDITING: In Calc when writing direction of cell is changed to RTL, text remains left-aligned
- [tdf#63592](#) change text direction while editing take you out from the edit mode
- [tdf#63878](#) [FORMATTING] On an RTL spreadsheet, changing zoom level moves charts
- [tdf#64011](#) RTL sheets: you can't draw shapes from left to right, also the start position are wrong



What have changed (LibO 4.2)

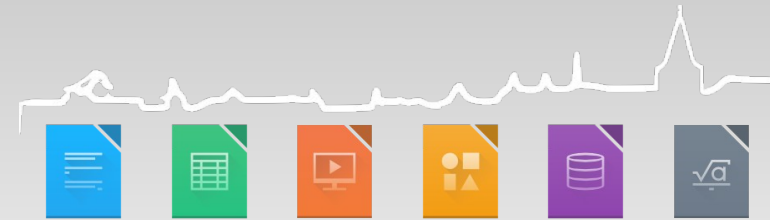


4.2.0 [\[edit\]](#)

- [tdf#43093](#) FILEOPEN: [docx] MS Office documents opens with wrong alignment and directionality
- [tdf#46186](#) RTL: RTL table reverses its direction on LTR page
- [tdf#51835](#) Indent changes in Calc forces alignment to left
- [tdf#52204](#) Find/Search option should support ignoring diacritics (Arabic Tashkeel and Hebrew nikkud)
- [tdf#63254](#) UI: Horizontal scrollbar area isn't displayed when resizing while sheet is RTL and gtk integration is present
- [tdf#63323](#) Comments in RTL sheet don't point to the appropriate cell
- [tdf#67746](#) SIDEBAR Feature request: RTL\LTR buttons
- [tdf#69280](#) UI: Comments toggle button should be on the left side of the ruler when locale set to RTL language
- [tdf#71646](#) FILESAVE: [docx] wrong directionality after save file created by MS



What have changed (LibO 4.3)

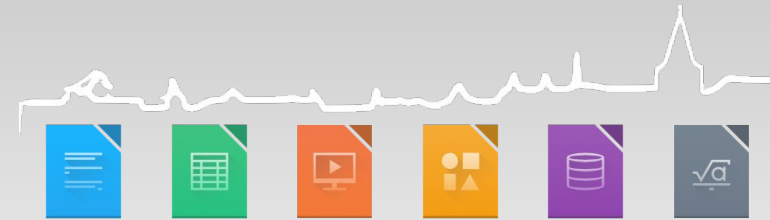


4.3.0 [\[edit\]](#)

- [tdf#44029](#) [🔗](#) docx files with RTL paragraphs aren't compatible with Word
- [tdf#72560](#) [🔗](#) FILEOPEN: DOCX problem with LTR right aligned text in specific case
- [tdf#73588](#) [🔗](#) EDITING: In Calc when TAB direction is RTL, text remains Right-aligned
- [tdf#74751](#) [🔗](#) Base point diagram works in reverse on RTL languages



What have changed (LibO 4.4)

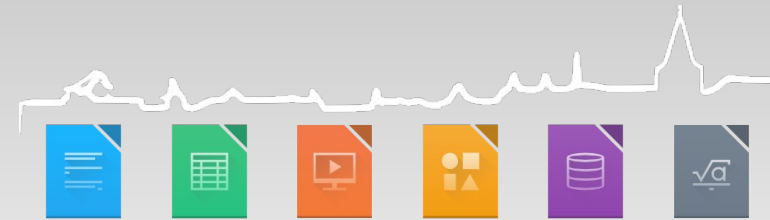


4.4.0 [\[edit\]](#)

- [tdf#79243](#) [🔗](#) Crop preview is wrong on RTL interface
- [tdf#85806](#) [🔗](#) Hebrew and Arabic are not working on MAC



What have changed (LibO 5.0)

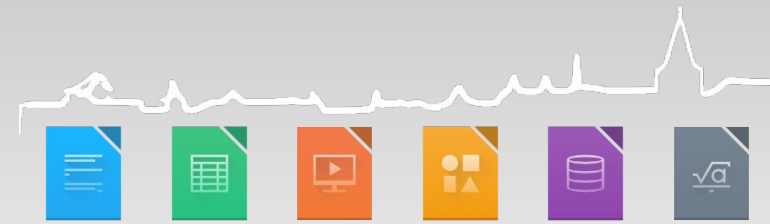


5.0.0 [\[edit\]](#)

- [tdf#63927](#) Export (HTML, DOC, DOCX): handles weak bidi characters as strong ones
- [tdf#85806](#) Hebrew and Arabic are not working on MAC
- [tdf#90673](#) FILESAVE : PPTX Paragraph text direction right-to-left is not exported



But sometimes things go horribly wrong



Case story: tdf#89381 broke the RTL interface.

Example screencast:

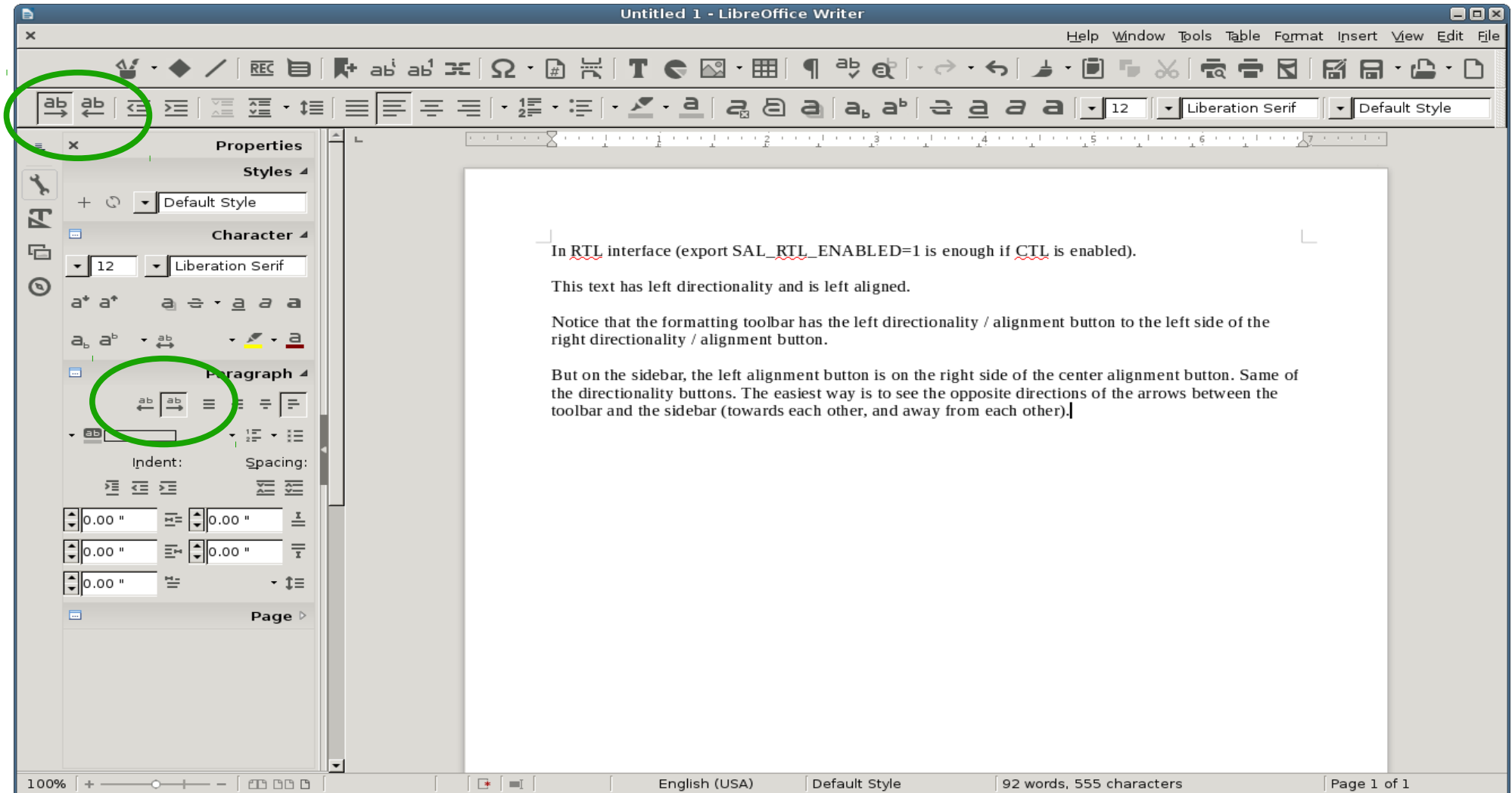
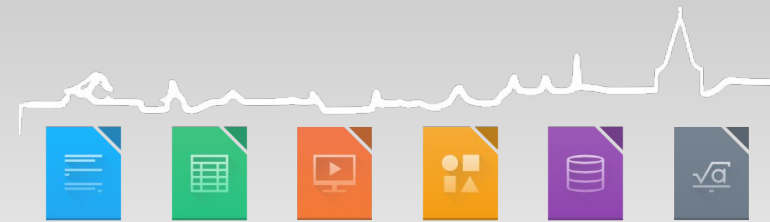
<https://bugs.documentfoundation.org/attachment.cgi?id=113746>

The bug got fixed for 5.1 (master) and backported to 5.0.2 and 4.4.6.

The process took very long, both detection (Nov 2014 to Feb 2015) and fix (Feb 2015 to Aug 2015).



Or just get broken over new features (tdf#85767)



Aarhus 2015 CONFERENCE



Thank you ...

- For fixing RTL bugs (or at least reporting them).



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