

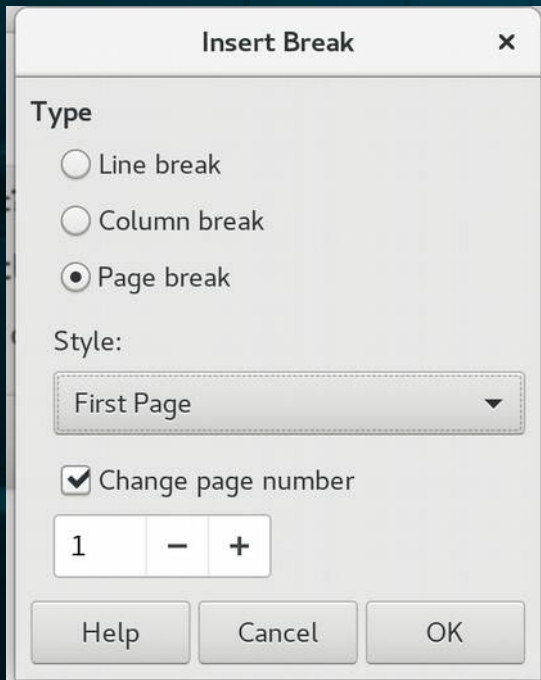
Native GTK UI

Native in 6.0

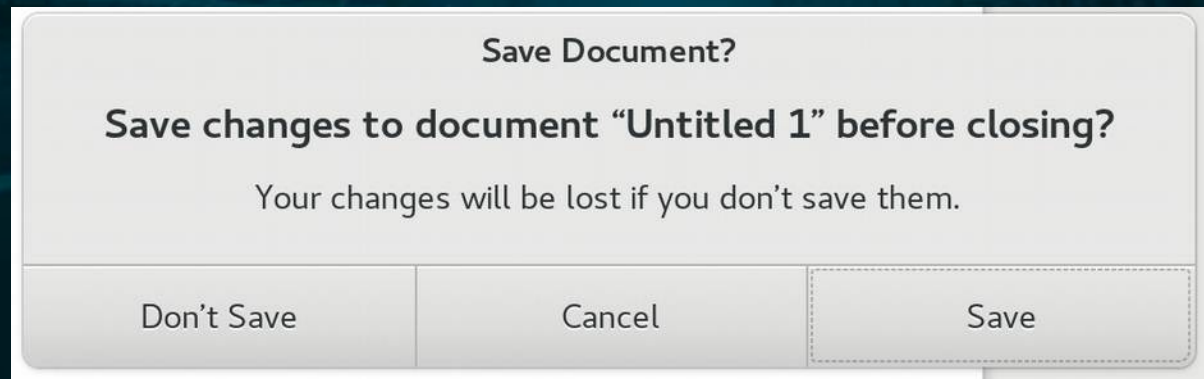
- File Dialog
 - Native for years
- Tooltips
 - Tell GTK the area the tooltip is for and GTK positions it
- Popovers
 - Formula typeahead indicator in calc
 - Page indicator in impress slide pane
- Menubar and menus
 - Context menus too

Native in 6.1

- Message Dialogs
- Handful of Simple Dialogs



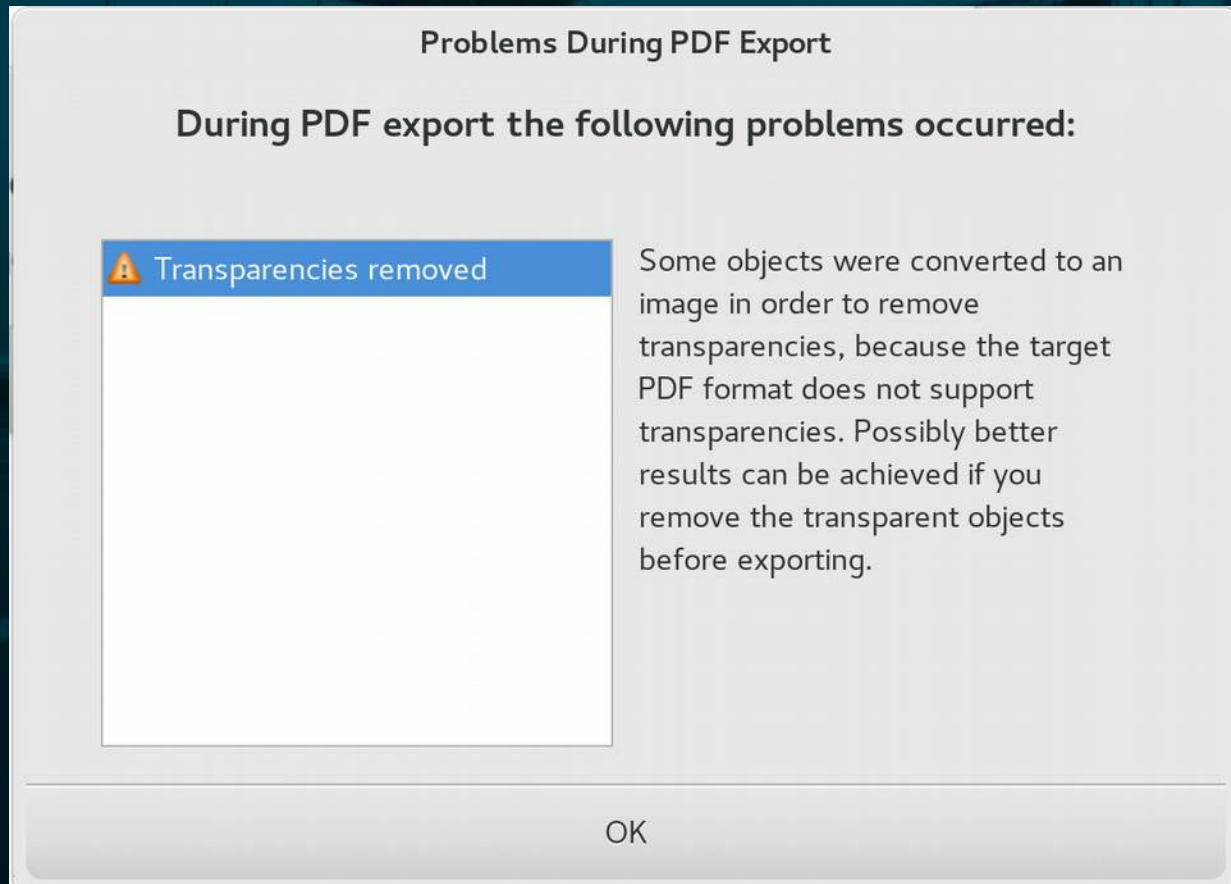
The 'Insert Break' dialog box features a title bar with the text 'Insert Break' and a close button. The main content area is divided into sections. The 'Type' section contains three radio buttons: 'Line break', 'Column break', and 'Page break', with 'Page break' selected. Below this is a 'Style:' label followed by a dropdown menu showing 'First Page'. A checked checkbox labeled 'Change page number' is positioned above a numeric input field containing '1', flanked by minus and plus buttons. At the bottom, there are three buttons: 'Help', 'Cancel', and 'OK'.



The 'Save Document?' dialog box has a title bar with the text 'Save Document?'. The main text reads 'Save changes to document "Untitled 1" before closing?' followed by a warning: 'Your changes will be lost if you don't save them.' At the bottom, there are three buttons: 'Don't Save', 'Cancel', and 'Save'.

Native in 6.1

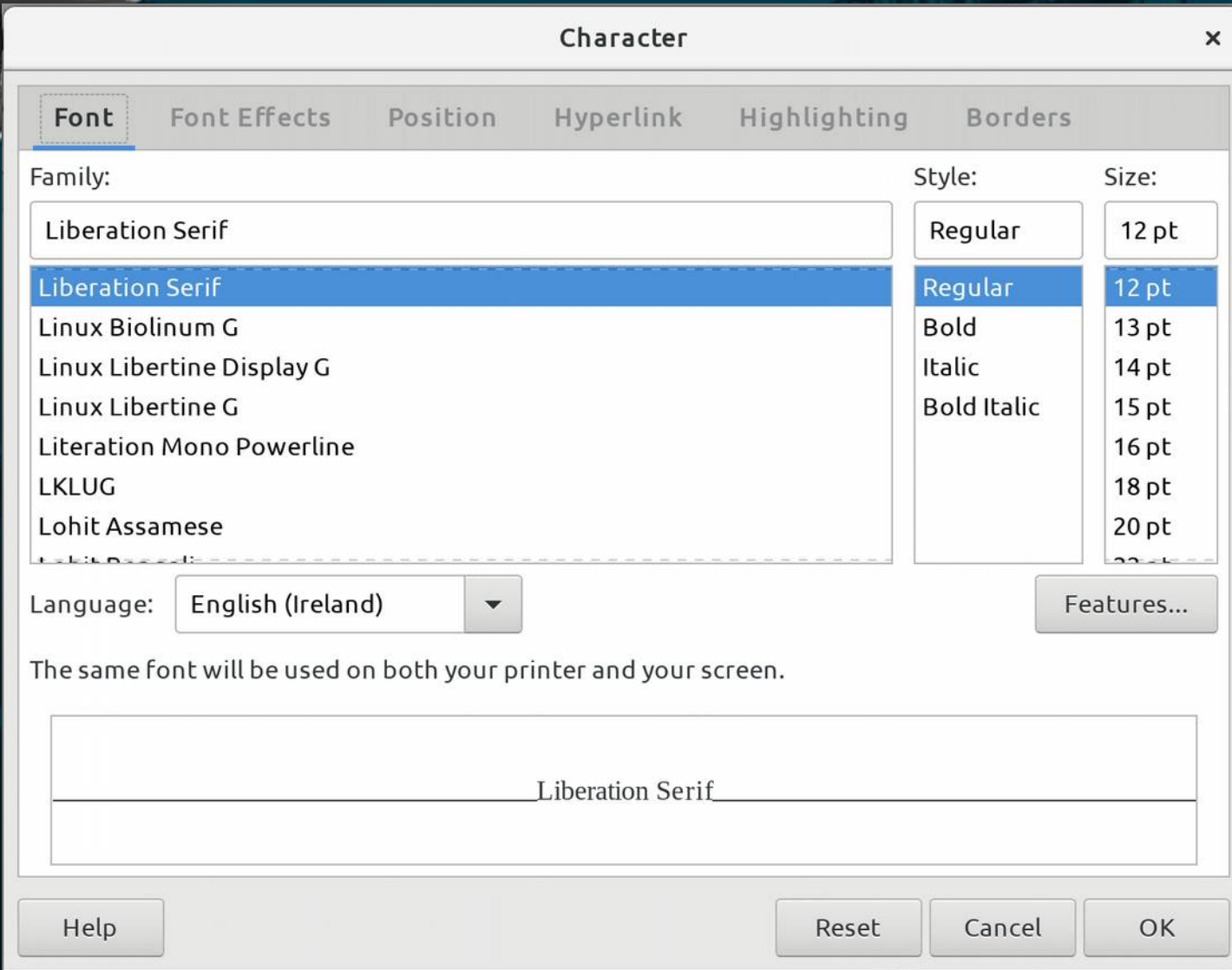
- Sample warning dialog with extra widgetry



Native in 6.2

- 180 GenericDialogControllers
- 100+ Tab Pages
 - Tab pages get reused in multiple dialogs, so...
 - Detect whether in a native SfxTabDialogController or a vcl-based SfxTabDialog and react accordingly
- 41 SfxTabDialogControllers
 - Including the big ones, format character, format paragraph and format page, etc

Native in 6.2



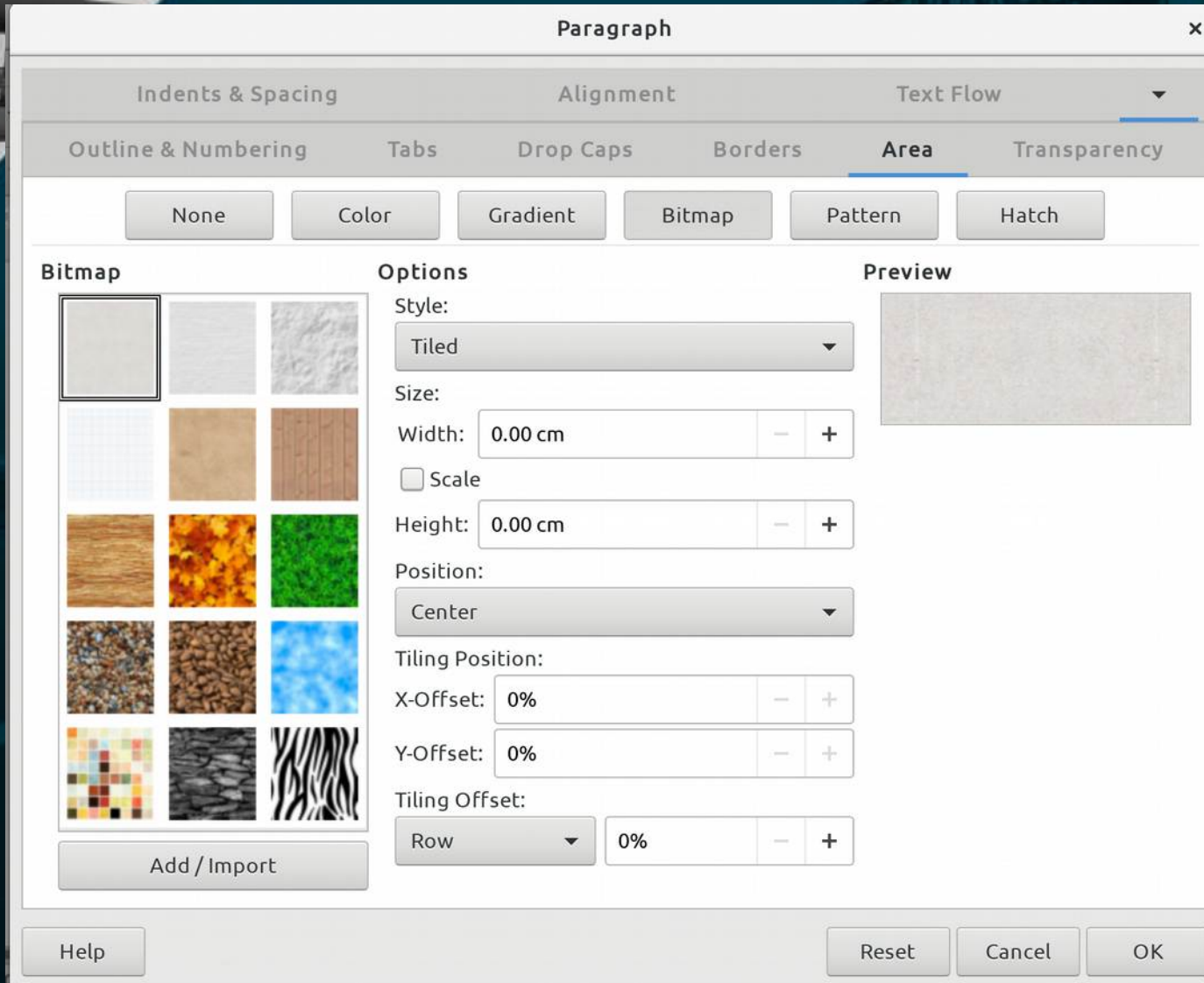
GtkNotebook Overflow #1/5

- Overuse of multiple tabs in LibreOffice
- Large font and padding in e.g. Adwaita theme for tabs
- 16 tabs in impress style dialog
- Attempt 1: Scrolling tabs at top
 - can't see all tabs at the same time, significant push back
- Attempt 2: Position tabs to the left when > 8 tabs
 - But now plenty of space available in some themes at the top going to waste where the tabs would have fit
- Attempt 3: Position tab to the left only when dialog would grow past natural size
 - Even vertically we still end up with not all tabs visible at the same time in some cases, significant push back

GtkNotebook Overflow #2/5

- Attempt 4: Double-decker tabs
 - Use two notebooks, one with no content area on top, and another with content area underneath
 - What the VCL TabControl does, so like the status quo
- But a GtkNotebook must always have one active tab
 - Hackery like blocking signals and removing the active page succeeds in a GtkNotebook with no active tab.
 - But GtkNotebook won't render anything at all if it has no active tab
 - Except in limited circumstances, during DnD of a page.
 - Hackery to trap it in some pseudo-dnd state provokes exciting visual and unstable results
 - Pretend extra active tab is there for some reason...

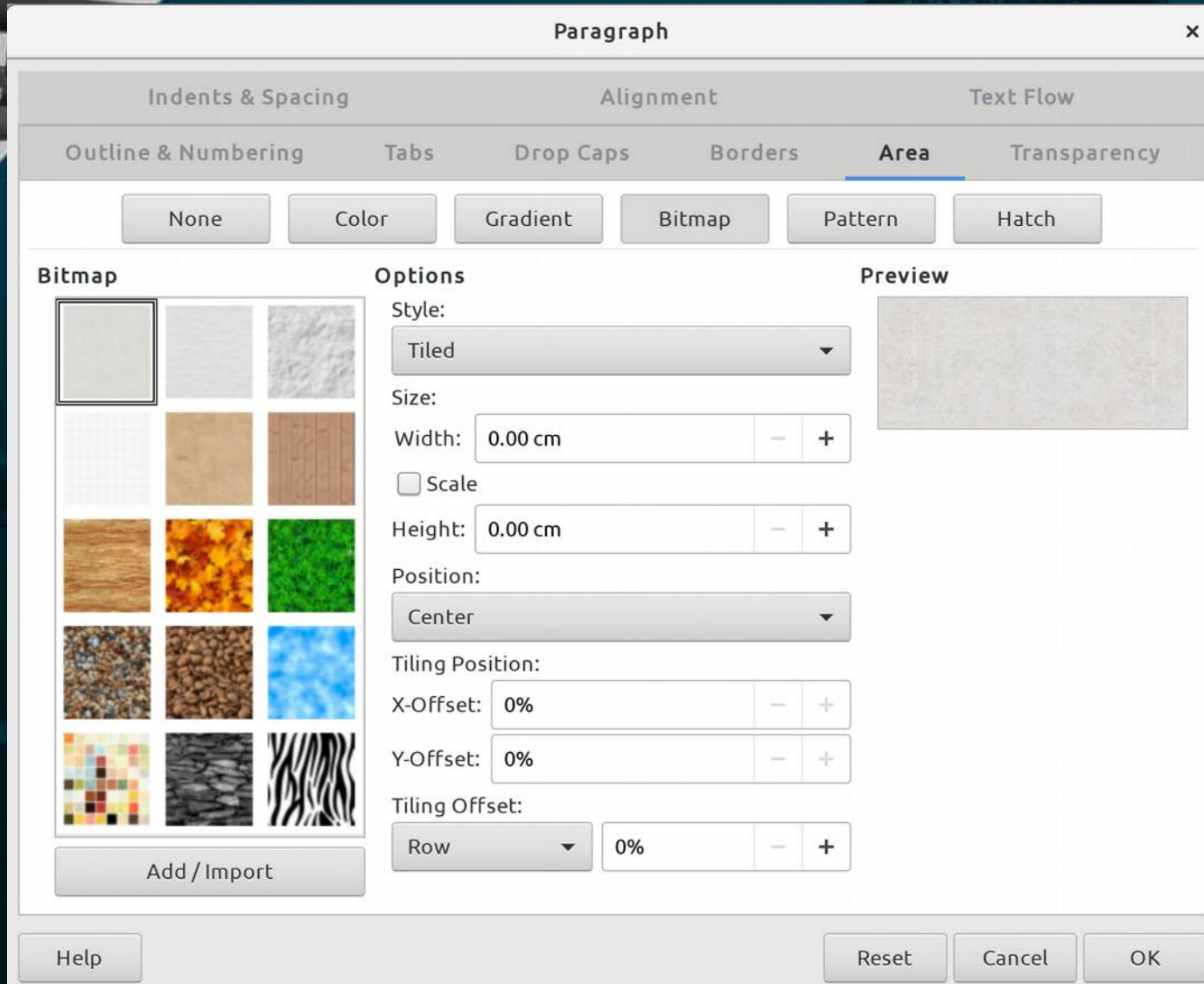
GtkNotebook Overflow #3/5



GtkNotebook Overflow #4/5

- All tabs visible at the same time again
- All tabs back at the top again
- But no love for the weird indicator tab in the top deck, significant push back
- Attempt 5: Hide it in some other way
 - GtkCssProvider and `gtk_style_context_add_provider` to the `GtkStyleContext` of the top deck “overflow” notebook and theme the active (`header.top > tabs > tab:checked`) tab into invisibility and a 0x0 size

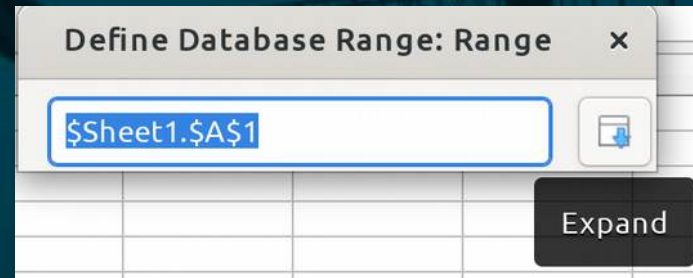
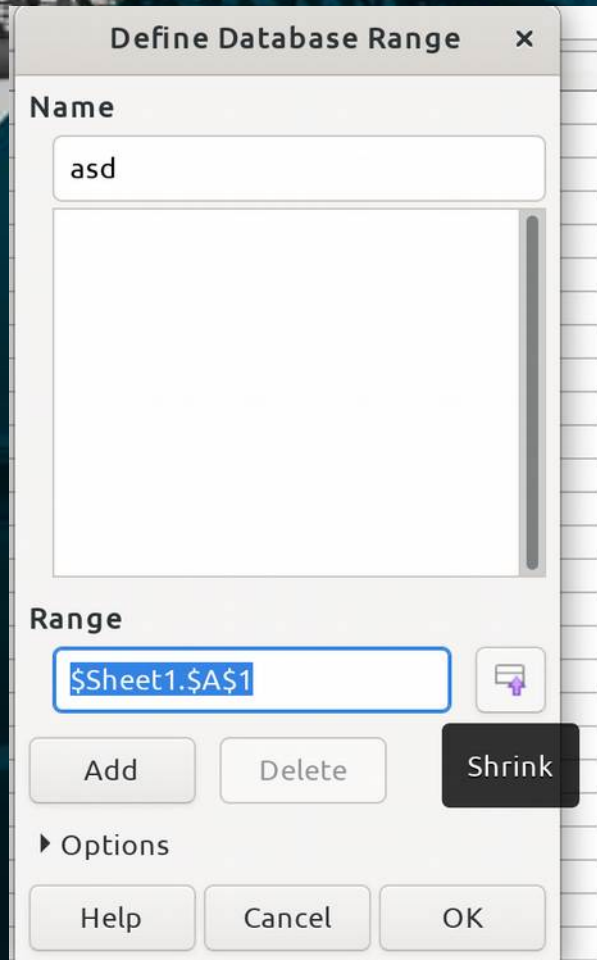
GtkNotebook Overflow #5/5



Native in 6.3

- 266 GenericDialogControllers
- 160+ Tab Pages
- 48 SfxTabDialogControllers

Calc Range Selector Dialogs



Contour Editor

Contour Editor

Font Information for LiberationSerif

Misc. Metrics Sub/Super Panose Charsets

Win Ascent: 1825 Is Offset

Win Descent: 443 Is Offset

Really use typographic metrics

The specification already says that the typographic metrics should be used to determine line spacing. But so many programs fail to follow the spec. that MS decided an additional bit was needed to remind them to do so.

Typo Ascent: Is Offset

Typo Descent: Is Offset

Typo Line Gap: 307

HHead Ascent: 1825 Is Offset

HHead Descent: -443 Is Offset

HHead Line Gap: 87

VHead Column Spacing: 0

1341

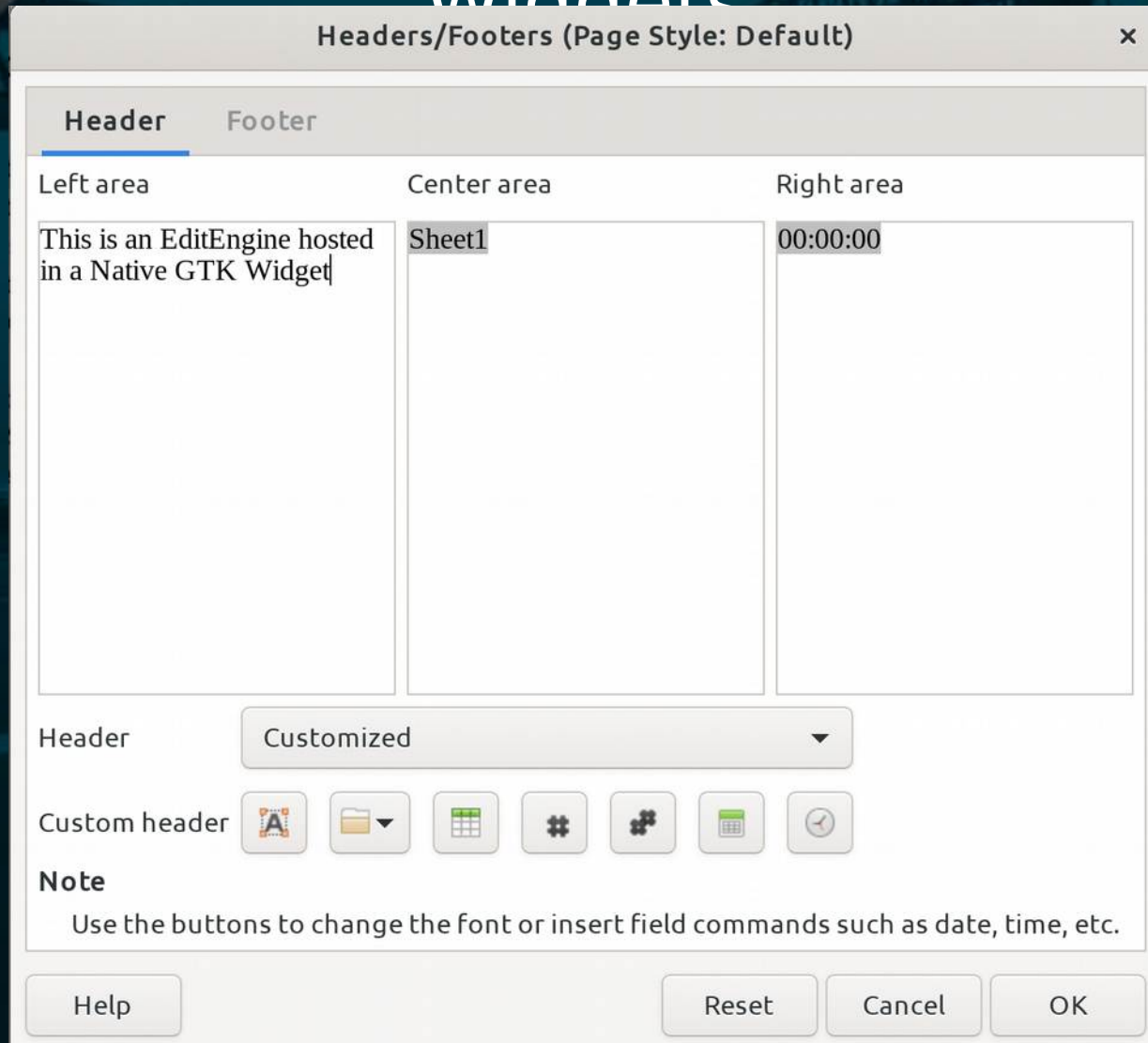
Capital Height:

X Height: 940

OK Cancel

4.14 " / 6.44 " | 10.83 " x 7.99 "

EditEngines in Native Widgets



Drag and Drop

Pivot Table Layout ×

Filters:

1

Available Fields:

1
2
3

Column Fields:

Data

Row Fields:

3

Data Fields:

Sum - 2

Drag the Items into the Desired Position

▶ Options
▶ Source and Destination

Help Cancel OK

Native in 6.4: Native Assistants

Insert Address Block

- Select Starting Document
- Select Document Type
- Insert Address Block**
- Create Salutation
- Adjust Layout

Insert Address Block

- Select the address list containing the address data you want to use. This data is needed to create the address block.
Select Different Address List...
Current address list: EvolutionLocal
- This document shall contain an address block

<Title> <First Name> <Last Name> <Address Line 1> <ZIP> <City>	<Title> <First Name> <Last Name> <Address Line 1> <ZIP> <City> <Country>
-------------------------------------------------------------------------	--------------------------------------------------------------------------------------

More...
 Suppress lines with just empty fields
- Match the field name used in the mail merge to the column headers in your data source.
Match Fields...
- Check if the address data matches correctly.

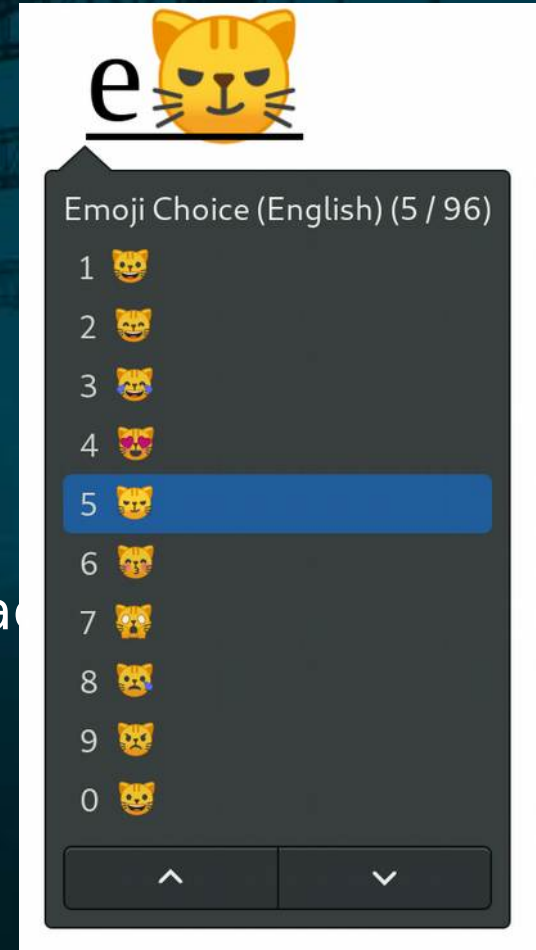
```
< not yet matched >  
< not yet matched > < not yet matched >  
< not yet matched >  
ZIP City
```

Document: 1 ↶ ↷

Help < Back Next > Cancel Finish

New in 6.4

- Working Color Emoji
 - Thanks to Khaled Hosny
- Tend to need ≥ 2 UTF-16 codes
 - IM counts in UTF32
- FontConfig fallback
 - Tag as und-Zsye to get best fallback



Walk Through of Native GTK components

Walkthrough

- Tooltips, Popovers
- Native Message Dialog example
- Animated effects, e.g. radio/check buttons
- Color Menu Button/Line Style Menu Button
- Overlay Scrollbar
- Interactive Custom Widget
- Tabbed Dialog
 - A mega Tabbed Dialog with area tab, e.g Format Page
- GtkComboBox[Text] with images
- Password Caps Lock Indicator
- Images, on-demand entries, radiobutton entries
- Firefox Theme Integration with native menubar
- Wizards
- Tables of Contents, preview and entries animation
- Emoji ctrl+shift+e

What's left to do

- Use a DataSourceBrowser in a VCL Control
 - “Old” MailMerge Dialog
 - Writer DataBase Preview Dialog
- Options Dialog
 - Supports extensions adding options panes
- Complete Wizards
- Calc CSV Dialog
- Print Dialog

End, Thanks