



JSDialogs conversion status

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Agenda

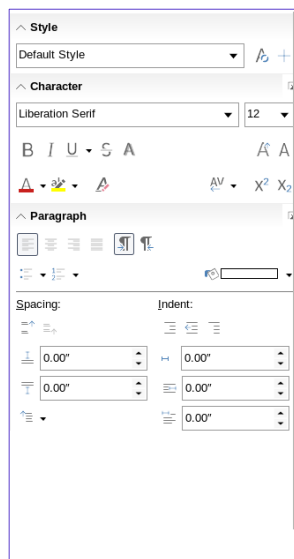
- What is JSDialogs?
- Updates since last conference
- What we can do next?
- How to contribute?

What is JSDialogs?

Framework for sharing UI components between
desktop application and Collabora Online

What is JSDialogs?

It describes UI using JSON notation which is transferred to Online where native HTML widgets are created. It offers communication in both direction so dialogs are interactive.



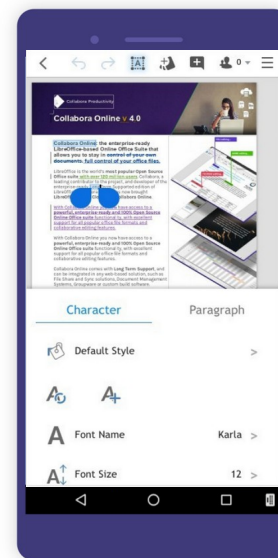
SERVER

JSON
(UI description)



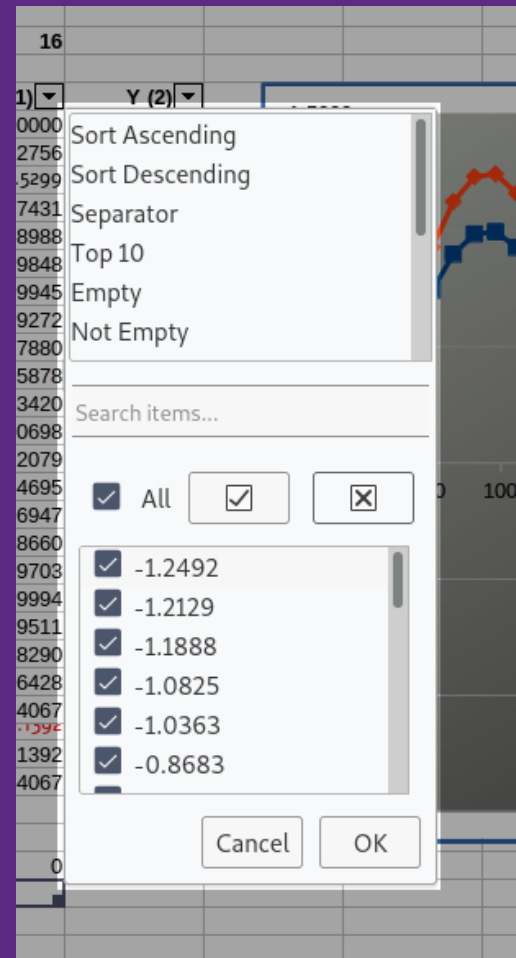
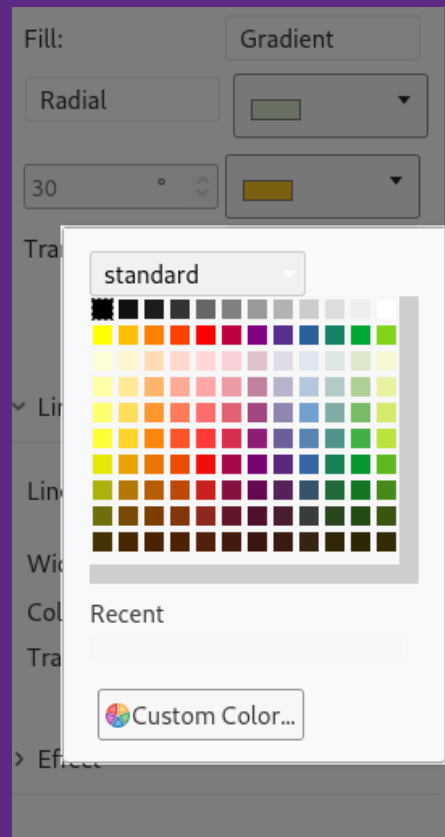
CLIENT

Interface builder



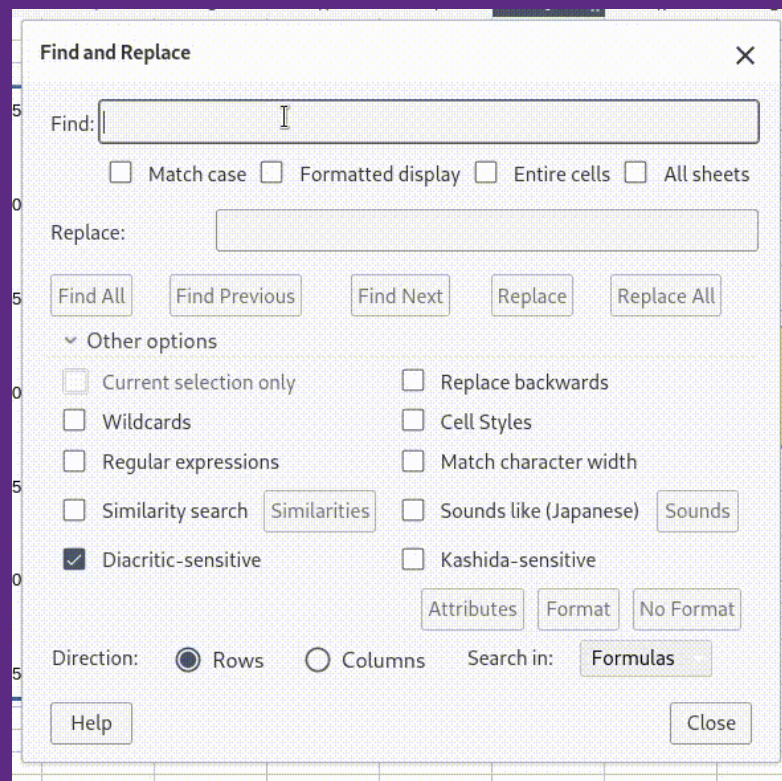
Updates since last conference

- Use JSDialogs for all MessageDialogs (Szymon Kłos, Henry Castro)
- Update to core 22.05 (Szymon Kłos)
- Unified popups (Szymon Kłos)
- Popups closing fixes (Szymon Kłos)



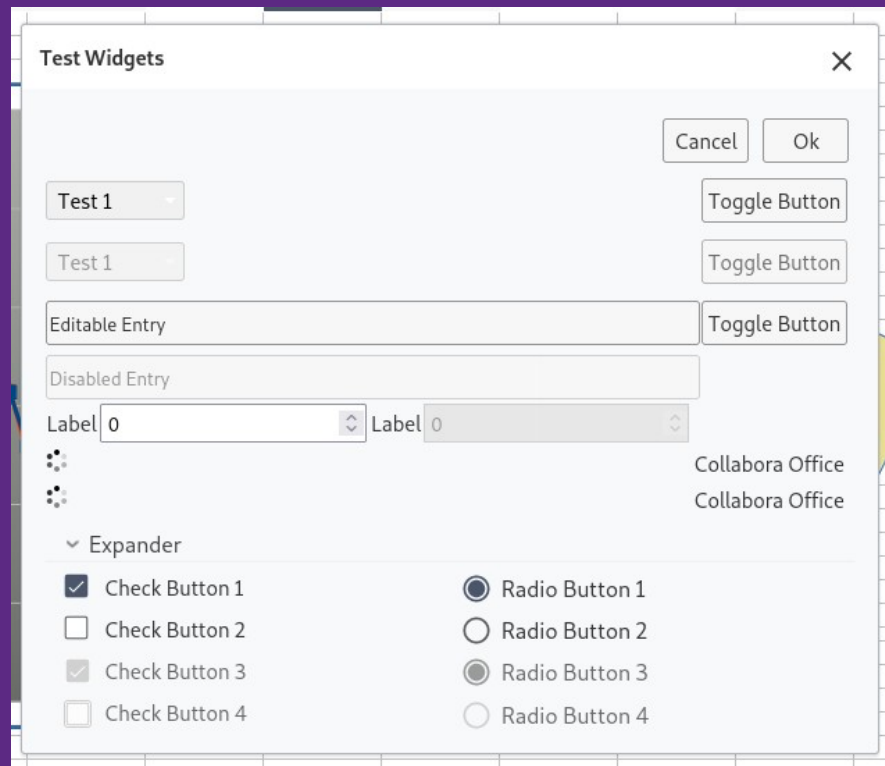
Updates since last conference

- A11y: basic keyboard navigation, initial focus in dialog
(Szymon Kłos, Julius Haertl, Rashesh Padia)
- Unique ID for duplicated widget names
(Gökay ŞATIR, Szymon Kłos)



Updates since last conference

- Easier testing: enable JSDialog by environment variable
(Szymon Kłos)
- Test Dialog in “About”
(Rashesh Padia)
- Improved IconView, Buttons, Tabs
(Mike Kaganski, Pedro Silva, Nick Wingate)



Updates since last conference

The screenshot shows a spreadsheet application interface. At the top, a toolbar contains various icons for editing and formatting. Below the toolbar, a formula bar displays the formula `= SIN(RADIANS($B6))` in cell C6. The spreadsheet grid shows columns A through F and rows 1 through 4. Cell B6 contains the text "Point interval" and the value 16. Cell C6 contains the formula `= SIN(RADIANS($B6))`. Cell D6 contains the value 1.5000. A tooltip for cell D6 shows the value 1.5000. A dropdown menu is visible in cell C6, showing the formula `= SIN(RADIANS($B6))`.

	A	B	C	D	E	F
1						
2		Point interval	16			
3						
4						

The screenshot shows a "Repair Document" dialog box. The dialog box has a title bar with the text "Repair Document" and a close button (X). The main area of the dialog box contains a table with the following columns: "Type", "What?", "Who?", and "When?". The table lists three items:

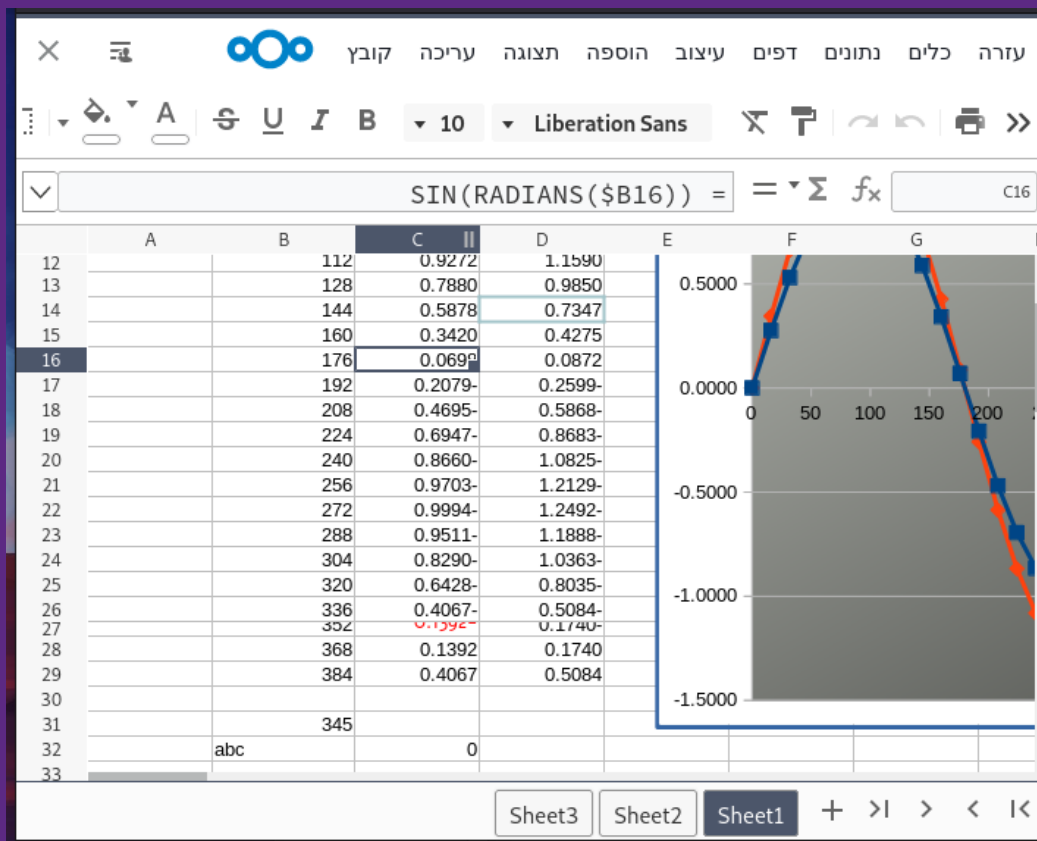
Type	What?	Who?	When?
Undo	Apply attributes to Shape 'Shape 1'	You	2022-09-21T16:48:03,568923366
Undo	Apply attributes to Shape 'Shape 1'	You	2022-09-21T16:48:03,565136669
	Apply attributes to Shape 'Shape 1'		

At the bottom of the dialog box, there are two buttons: "Cancel" and "Ok".

Removed last one "leaflet dialog"
(Skyler)

Updates since last conference

Right-to-Left user interface support



What we can do next?

- Simplify generated structure (draft PR is ready)
- Convert more dialogs!
- Optimize Sidebar to send smaller updates
- Convert “vex” modals to JSDialogs (create adapter with similar API)
- Extend Test Dialog with missing widgets and cover with cypress tests
- Better Mobile Wizard windows/tabs management

How to contribute?

- Visit: <https://collaboraonline.github.io>
- Ask on IRC / Matrix / Telegram / Weekly community call
- Read forum topic:
“**How to help with JSDialogs development (porting dialogs to native HTML)**”
<https://forum.collaboraonline.com/t/how-to-help-with-jsdialogs-development-porting-dialogs-to-native-html/964>
- Test new dialog with environment variable:
SAL_JSDIALOG_ENABLE=modules/scalc/ui/validationdialog.ui make run

How to contribute?

Convert a dialog:

- You need to make sure it is async (C++ part)

```
SwAbstractDialogFactory* pFact = SwAbstractDialogFactory::Create();  
- ScopedVclPtr<VclAbstractDialog> pDialog(pFact->CreateSwCaptionDialog(GetFrameWeld(), *this ));  
- pDialog->Execute();  
+ VclPtr<VclAbstractDialog> pDialog(  
+     pFact->CreateSwCaptionDialog(GetFrameWeld(), *this));  
+ pDialog->StartExecuteAsync([pDialog](sal_Int32) {  
+     pDialog->disposeOnce();  
+ });  
break;
```

- Enable it in the core (vcl/jsdialog/enabled.cxx) or using environment variable
- Test in the Online, sometimes we need to implements missing widgets (JavaScript part)



Thanks !

By Szymon Kłos



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