

Collaborating with Collabora Online

*How to re-use Collabora Online in your
work or project*

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Collabora
Online



FOSDEM

*“Stand at the crossroads and look; ask
for the ancient paths, ask where the
good way is, and walk in it, and you
will find rest for your souls...” -
Jeremiah 6:16*



Some simple integrations

Converting my files to <XYZ> (sdk)

REST API: HTTP POST to /cool/convert-to/<format>&<lang=xx-XX>

- the format is e.g. png, pdf or txt
- Lang (optional) - default format language, useful for **date type cells in spreadsheets**. Example: lang=fr-FR

Command line:

```
curl -k -F "data=@test.txt" https://localhost:9980/cool/convert-to/docx > out.docx
```

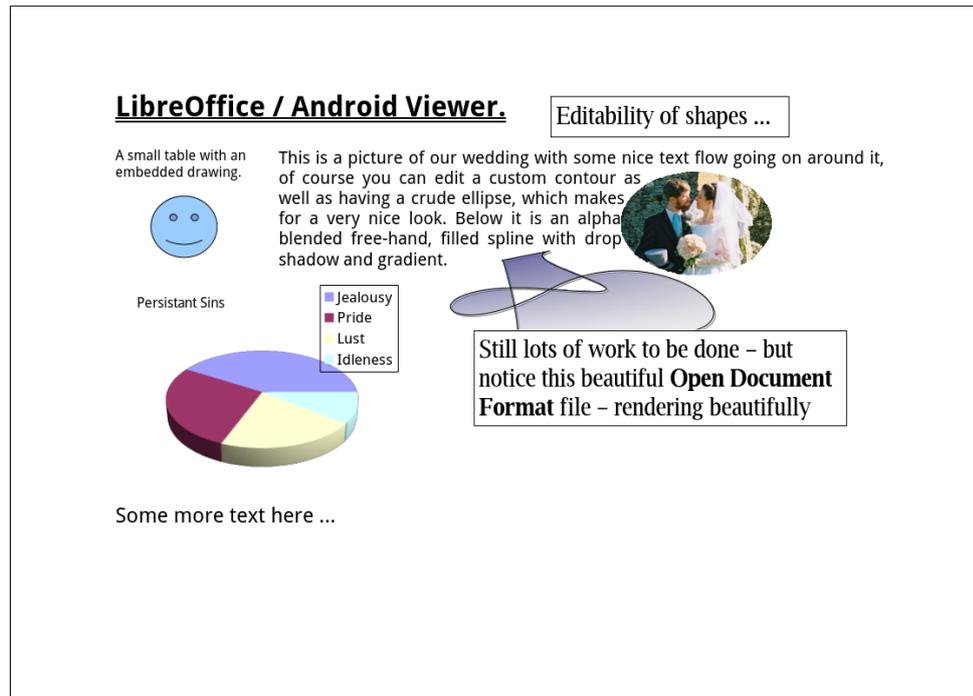
HTML:

```
<form action="https://localhost:9980/cool/convert-to/docx"
  enctype="multipart/form-data" method="post">
  File: <input type="file" name="data"><br/>
  <input type="submit" value="Convert to DOCX">
</form>
```

Securely thumbnailing any files:

```
curl -k -F "data=@/tmp/foo-baa.docx"  
https://localhost:9980/cool/convert-to/png > foo.png
```

**Nice big image by default:
~1k pixels across in one
dimension.**



Integration samples (sdk)

Helpers for the WOPI-like integration:

Node JS:

- <https://github.com/CollaboraOnline/collabora-online-sdk-examples/>

PHP

- <https://github.com/CollaboraOnline/collabora-online-sdk-examples/>

Python

- <https://github.com/CollaboraOnline/collabora-online-sdk-examples/>

React JS:

- <https://github.com/CollaboraOnline/collabora-online-sdk-examples/>

C#

- <https://github.com/CollaboraOnline/collabora-online-sdk-examples/>

Zotero integration

Re-using their web-service / API



healthtechnolog.odt

File Home Insert Layout **References** Review Format Form View Help

Table of Contents and Index Index Entry Endnote Bookmark Add/Edit Citation Refresh Citations
Update Index Footnote Footnotes and Endnotes Cross-reference Add/Edit Bibliography Add Citation Note Unlink Citations

Health Technol Assess Ser. 2022

3 TEXT IN COLUMNS

This text is written in **two columns** over two pages, starts with an **initial letter**, and has a couple of **images in the text (text is dynamically floating around them)**. Additionally we use **automatic hyphenation!** Lorem ipsum dolor sit amet, consectetur adipiscing elit. Vestibulum consequat mi quis pretium semper. Proin luctus orci ac neque venenatis, quis commodo dolor posuere. Curabitur dignissim sapien quis cursus egestas. Donec blandit auctor arcu, nec pellentesque eros molestie eget. In consectetur aliquam hendrerit. Sed cursus mauris vitae ligula pellentesque, non pellentesque urna aliquet. Fusce placerat mauris enim, nec rutrum purus semper vel. Praesent tincidunt neque eu pellentesque pharetra. Fusce pellentesque est orci.

Integer sodales tincidunt tristique. Sed a metus posuere, adipiscing nunc et, viverra odio. Donec auctor molestie sem, sit amet tristique lectus hendrerit sed. Cras sodales nisl sed orci mattis iaculis. Nunc eget dolor accumsan, pharetra risus a, vestibulum mauris. Nunc vulputate lobortis mollis. Vivamus nec tellus faucibus, tempor magna nec, facilisis feli. Donec commodo enim a vestibul

consequat mi quis pre
ac neque venenatis,
Curabitur dignissim
Donec blandit aucto
molestie eget. In con
cursus mauris vita
pellentesque urna al
enim, nec rutrum
tincidunt neque eu
pellentesque est orci.

Articles excluded based on title
n = 1,004

Articles excluded based on abstract
n = 328

Articles excluded based on full text
n = 15

Included Studies (12)

Integer sodales tincidunt tristique. Sed a metus posuere, adipiscing nunc et, viverra odio. Donec auctor molestie sem, sit amet tristique lectus hendrerit sed. Cras sodales nisl sed orci mattis iaculis. Nunc eget dolor accumsan, pharetra risus a, vestibulum mauris. Nunc vulputate lobortis mollis.

Link your web library

Connect your Zotero's account no need for any additional software or fuss. Simply head over to your personal settings page and gain instant access to your whole web library.

”

📖

📄

[]

[Go to settings](#)



Allow users to make use of their existing library

Easy to connect through integrator





Personal

- Personal info
- Security
- Notifications
- External storage
- Mobile & desktop
- Sharing
- Appearance and accessibility
- Groupware

Nextcloud Office

Select a template directory



Templates inside of this directory will be added to the template selector of Nextcloud Office.

Zotero

Enter Zotero API Key



To use Zotero specify your API key here. You can create your API key in your Zotero account API settings.

<https://www.zotero.org/settings/keys>



Integration from Nextcloud into their user settings



Per-user library key: cf. sdk

Extended WOPI-like properties:

UserPrivateInfo

JSON object that contains additional info about the user, but unlike the UserExtraInfo it is not shared among the views in collaborative editing sessions.

```
{ 'ZoteroAPIKey': '9GLmvmZ1K1qGAz9QWcdlyf6L' }
```

For example it can hold the ZoteroAPIKey which is the personal API key to Zotero Web API, for working with citation databases. When the integration provides a Zotero API key for the user, the functionality of handling Zotero databases gets enabled in Collabora Online's user interface.

Checkout Zotero [API documentation](#)



0111

File Home Insert

Footnote Footnotes and I

Health Tec

3 TEX

Thi
p
ci

dynamica
we use au
sit amet,
consequat
ac neque
Curabitur
Donec bla
molestie e
cursus m
pellentesq
enim, ne
tincidunt
pellentesq

Integer sc
posuere, e
auctor m
hendrerit
iaculis. Nu
vestibulum

Vivamus
facilisis felis. Donec commodo enim a vehicula

My Library

Refresh

Search

- My Library
 - My Publications
 - Another SubCol
 - SubCol
 - Collection
 - Group Libraries
 - AchoShared

Improved methods for building protein models in electron density maps and the location of errors in these models	T. A. Jones, J.-Y. Zou, S. W. Cowan, M. Kjeldgaard	1991-03-01
PROCHECK: a program to check the stereochemical quality of protein structures	R. A. Laskowski, M. W. MacArthur, D. S. Moss, J. M. Thornton	1993-04-01
PROTEIN MEASUREMENT WITH THE FOLIN PHENOL REAGENT	OliverH Lowry, NiraJ Rosebrough, A. Lewis Farr, RoseJ Randall	1951/11/01
github_n_co.odt - Files - Nextcloud		
Chronic disease patients' experiences with accessing health care in rural and remote areas: a systematic review and qualitative meta-synthesis	F. Brundisini, M. Giacomini, D. DeJean, M. Vanstone, S. Winsor, A. Smith	2013
Handbook of Climate Change Management		
Moving from Urban Sociology to the Sociology of the City	Cary Wu	2016-03-01
Psychology	Henry Gleitman, James J. Gross, Daniel Reisberg	1/5/2020

Cancel OK

Browse your whole library, no need for any additional program installed on the user's side!

Adding citations from private or shared folders using only Collabora Online



The screenshot shows the LibreOffice Writer interface with the 'References' menu open. A 'Add/Edit Citation' dialog box is active, displaying a list of citations. The citation 'Chronic disease patients' experiences with accessing health care areas: a systematic review and qualitative meta-synthesis' is selected. The PRISMA flow diagram below the dialog shows the process of identifying and including studies for a systematic review.

PRISMA Flow Diagram:

- Articles excluded based on title: n = 1,804
- Articles excluded based on abstract: n = 326
- Articles excluded based on full text: n = 16
- Full-text studies reviewed: n = 25
- Included Studies: 12
- Excluded studies (n = 13): chronic condition, no consideration of the link between condition and external factors related to the work environment (n = 12); excluded study not with population of interest (n = 2); excluded study not relevant to the conditions (n = 1); excluded study because doctoral dissertation (n = 1).



Tabbed view → familiar user interface

Actions, easy to identify and distinguish

Language / Grammar API

Thanks to LanguageTooler

By LanguageTooler



Thanks to Adfinis for accelerating this work !

Daniel Naber's company:

- Focused on B2C & the web browser:
- LanguageTooler GmbH
 - Potsdam.
- Taking on Grammarly
- More info [here](#)

A screenshot of the LanguageTool web interface. At the top, there are navigation buttons: 'Insert Text' (blue), 'Check Word Document' (black), and 'NEW' (orange). To the right are 'Save' (blue), 'Copy' (black), 'Delete' (black), and 'English' (black) with a dropdown arrow. The main text area contains a paragraph with several errors highlighted: 'too have' (orange), 'seplling' (red), 'underilnes' (red), 'error's' (yellow), 'in a reliable' (blue), 'double clicking a word?' (orange), and 'Monday,' (blue). A pop-up notification box is open over the text, titled 'Extraneous apostrophe' with a close button. The message reads: 'Did you mean the plural noun "errors" instead of the possessive?'. Below the message is a blue button labeled 'errors' and a button with a speaker icon labeled 'Ignore in this text'. At the bottom of the interface, there is a status bar showing '9+ writing issues found' in a red box and '623 characters, 104 words' with an information icon.

Simple Rest API

Keep Java isolated in it's own world:

- <https://languagetool.org/http-api/>

/check + JSON ...

/languages

/words

etc.

The screenshot shows a REST client interface with a list of API endpoints. At the top, there are links for 'Show/Hide', 'List Operations', and 'Expand Operations'. The endpoints are listed as follows:

Method	Endpoint	Description
POST	/check	Check a text
GET	/languages	Get a list of supported languages.
GET	/words	List words in dictionaries
POST	/words/add	Add word to a dictionary
POST	/words/delete	Remove word from a dictionary

At the bottom of the interface, there is a text input field containing the URL `https://languagetool.org/http-api/#/d...`, a 'VALID' button, and a dropdown menu showing a curly brace symbol. Above the input field, it says '[BASE URL: /v2 , API VERSION: 1.1.2]'.

coolwsd.xml - can enable it:

```
<languagetool desc="LanguageTool Remote API settings for grammar checking">
```

```
  <enabled desc="Enable LanguageTool Remote Grammar Checker" type="bool" default="false"></enabled>
```

```
  <base_url desc="Http endpoint for the LanguageTool API server, without /check or /languages postfix at the end." type="string" default=""></base_url>
```

```
  <user_name desc="LanguageTool account username for premium usage." type="string" default=""></user_name>
```

DeepL built-in translation ...

Collabora Online: the enterprise-ready LibreOffice-based Online Office Suite that allows you to stay in full control of your office files.

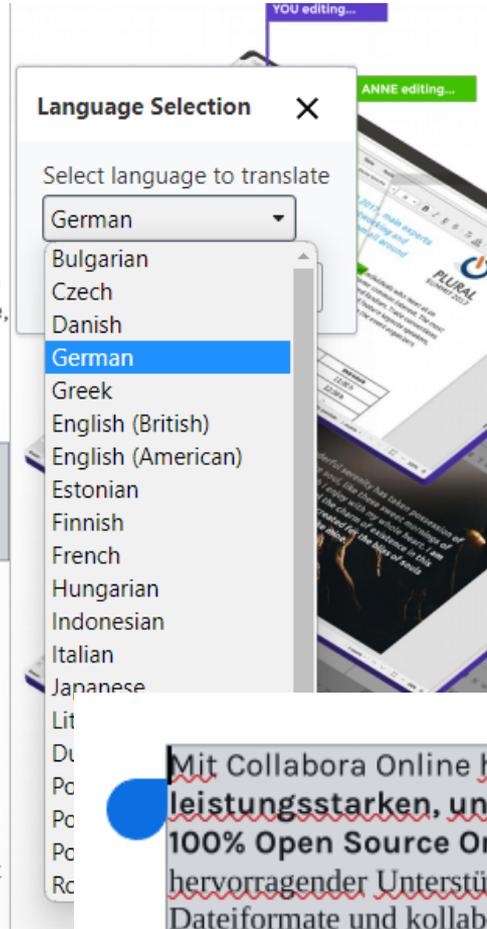
LibreOffice is the world's most popular Open Source Office suite with over 120 million users. Collabora, a leading contributor to the project, and developer of the enterprise-ready, Term Supported edition of LibreOffice, Collabora Office, has now brought LibreOffice to the Cloud with Collabora Online. Apple are great

With Collabora Online you now have access to a powerful, enterprise-ready and 100% Open Source Online Office suite functionality, with excellent support for all popular office file formats and collaborative editing features.

With Collabora Online you now have access to a powerful, enterprise-ready and 100% Open Source Online Office suite functionality, with excellent support for all popular office file formats and collaborative editing features.

Collabora Online comes with Long Term Support, and can be integrated in any web-based solution, such as File Share and Sync solutions, Document Management Systems, Groupware or custom build software.

All Long Term Support releases are supported for 3 years, with

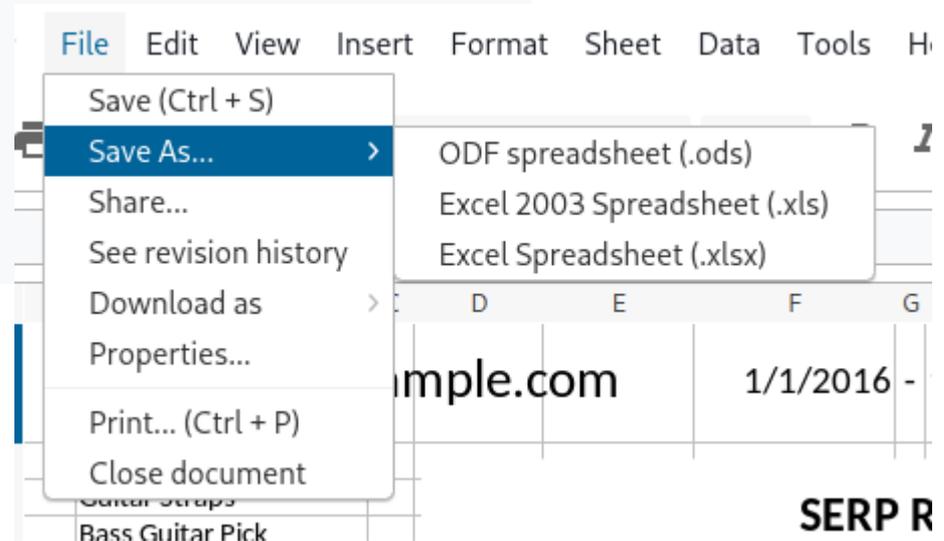
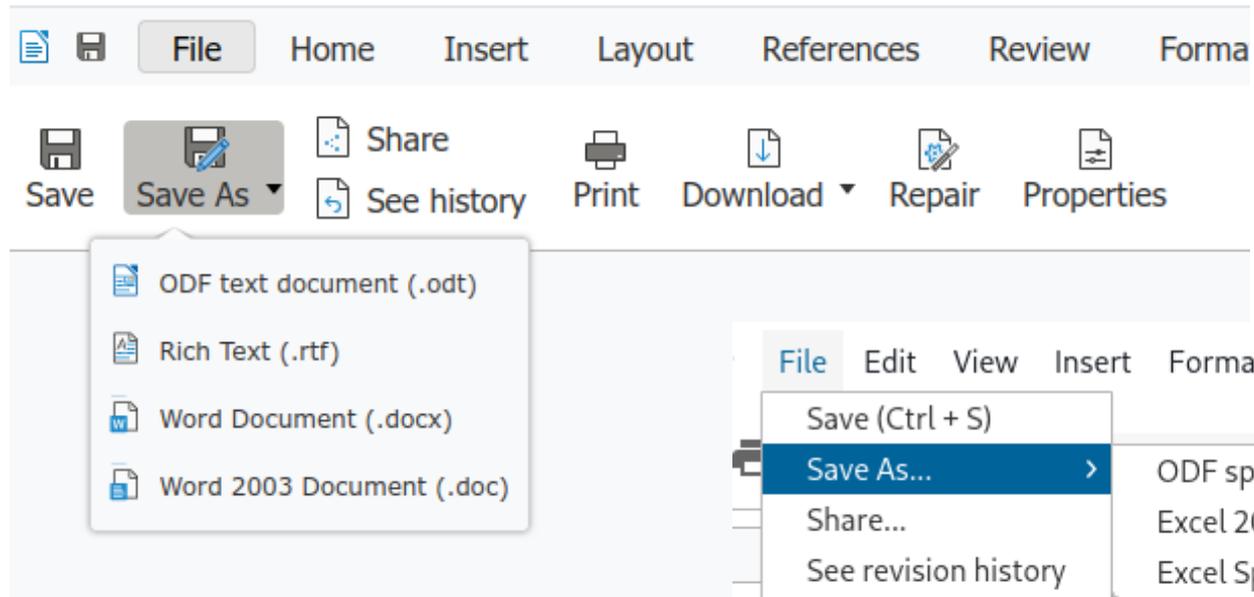


Mit Collabora Online haben Sie jetzt Zugang zu einem leistungsstarken, unternehmenstauglichen und 100% Open Source Online Office Suite mit hervorragender Unterstützung für alle gängigen Office-Dateiformate und kollaborative Bearbeitungsfunktionen.

Save-As / Export integration

Advertising our abilities to save-as something else ...

Save-As as an option ...



Integrating properly ...

We need a file picker:

- WOPI properties:
 - EnableInsertRemoteImage=True
 - UserCannotWriteRelative=False

- Trigger this with a PostMessage:

```
{"MessageId": "UI_InsertGraphic",  
  "Values": {}}
```

```
{"MessageId": "UI_SaveAs",  
  "Values": {"format": "odt"}}
```

We get various PostMessages:

Action_InsertGraphic <url>

or **Action_SaveAs**

- Filename: <String>
- Notify: <boolean>

Creates copy of the document with given Filename.

Filename is the requested filename for the new file. Notify when present and set to true notifies the host when document is saved. See Action_Save_Resp for details.

Same hooks for new 'Export':

PDF Options [X]

General Initial View User Interface Links Security

Range

All

Pages:

Selection

Images

Lossless compression

JPEG compression Quality:

Reduce image resolution to:

Watermark

Sign with watermark

General

Hybrid PDF (embed ODF file)

Archive (PDF/A, ISO 19005)

PDF/A version:

Universal Accessibility (PDF/UA)

Tagged PDF (add document structure)

Create PDF form

Submit format:

Allow duplicate field names

Structure

Export outlines

Export placeholders

Comments as PDF annotations

Export automatically inserted blank pages

Use reference XObjects

Help [Reset] [Cancel] [Export]

EPUB Export [X]

General

Version:

Split method:

Layout method:

Metadata

Identifier:

Title:

Author:

Language:

Date:

Help [Cancel] [OK]

Remote & Font management

A key to better interop ?

Remote configuration (sdk)

Make ourselves more state-less:

Can configure a useful sub-set of settings

coolwsd.xml - point to a config server:

```
<remote_config >  
  <remote_url desc="remote  
server to which you will send  
request to get remote config  
in response" type="string"  
>https://server_url_endpoint<  
/remote_url>  
</remote_config>
```

Polled font settings

```
{
  "kind": "fontconfiguration",
  "server": "Some pretty name",
  "fonts": [
    {
      "uri": "https://somehost/path/f1.ttf"
    },
    {
      "uri": "https://someotherhost/path/f2.ttf",
      "stamp": "foo3"
    },
    {
      "uri": "https://whatever/path/x42.ttf"
    }
  ]
}
```

coolwsd.xml:

```
<remote_font_config>
  <url desc="URL of optional JSON file that
lists fonts to be included in Online"
type="string"
>https://someserver/path/file.json</url>
</remote_font_config>
```

Polled every minute.

Very easy to make a D&D font mgmt UI

Funkiness in forkit / opening files & chrooting to make this work smoothly.

- thanks to Tor Lillqvist...

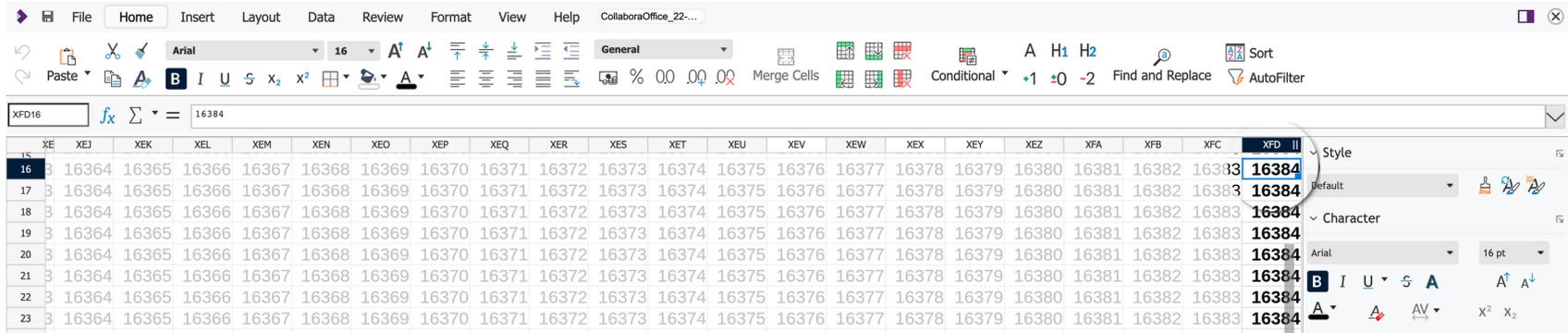
Gratuitous recent features:

Other things we've been up to ...

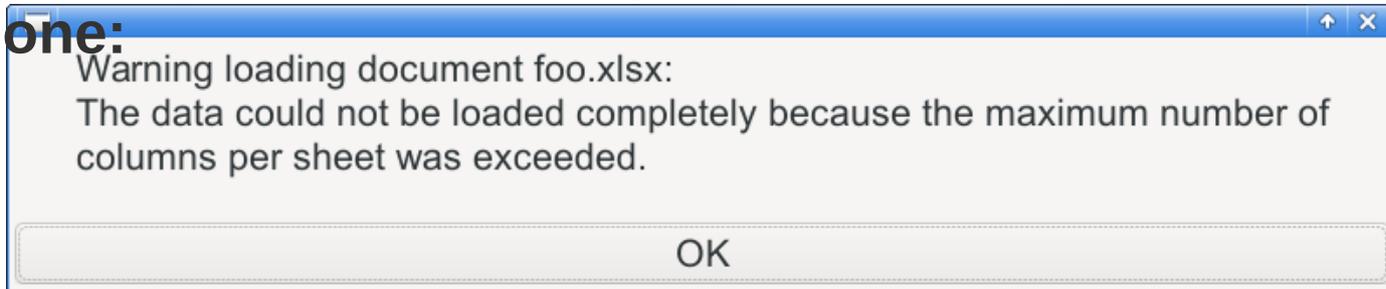
Jumbo Spreadsheets



We now support up to 16384 columns in spreadsheets

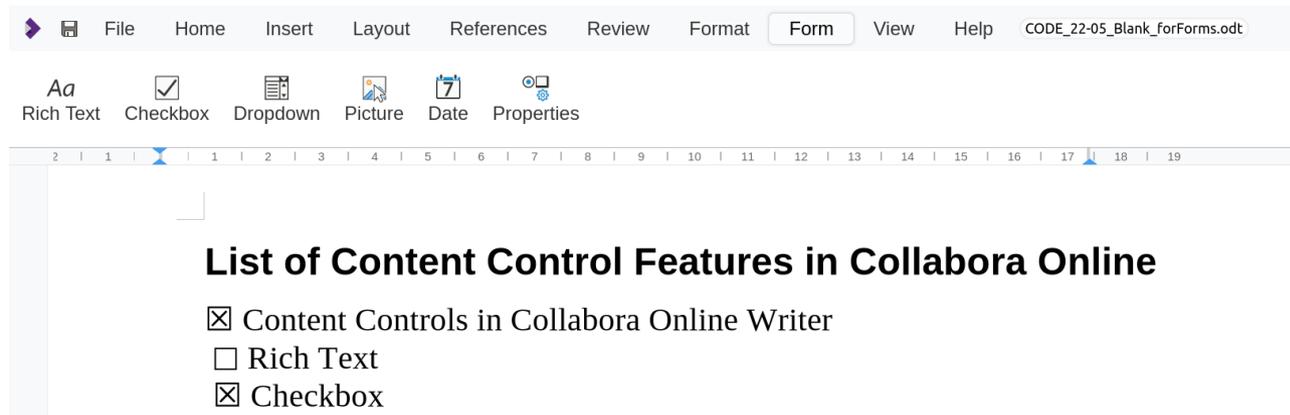


Possibly the most annoying error dialog in the world now gone:

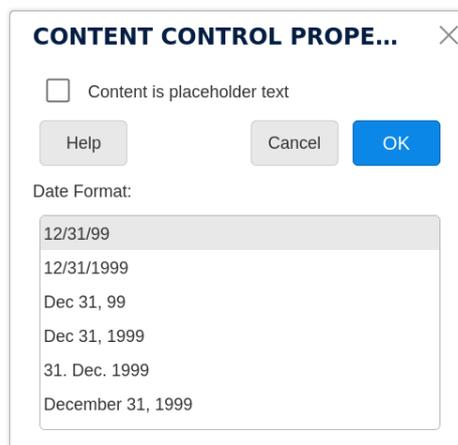


Content Controls in Writer: Forms ...

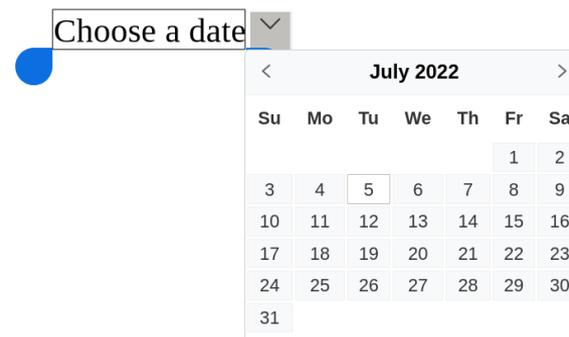
- Rich Text
- Checkbox
- Dropdown
- Picture
- Date



The screenshot shows the LibreOffice Writer interface with the 'Form' menu open. The menu options are: Rich Text, Checkbox, Dropdown, Picture, Date, and Properties. Below the menu, a document titled 'CODE_22-05_Blank_forForms.odt' is displayed. The document content includes the title 'List of Content Control Features in Collabora Online' and a list of features with checkboxes: Content Controls in Collabora Online Writer, Rich Text, and Checkbox.



The 'CONTENT CONTROL PROPERTIES' dialog box is shown. It has a close button (X) in the top right corner. There is a checkbox labeled 'Content is placeholder text' which is currently unchecked. Below this are three buttons: 'Help', 'Cancel', and 'OK'. Under the heading 'Date Format:', there is a list of date formats: '12/31/99', '12/31/1999', 'Dec 31, 99', 'Dec 31, 1999', '31. Dec. 1999', and 'December 31, 1999'. The '12/31/99' format is currently selected.



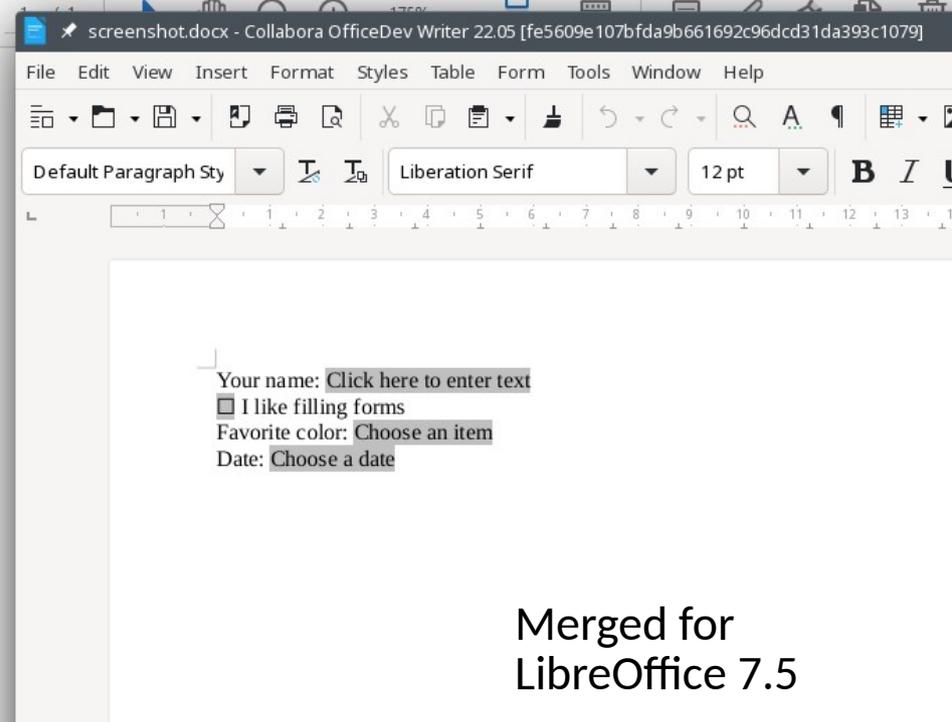
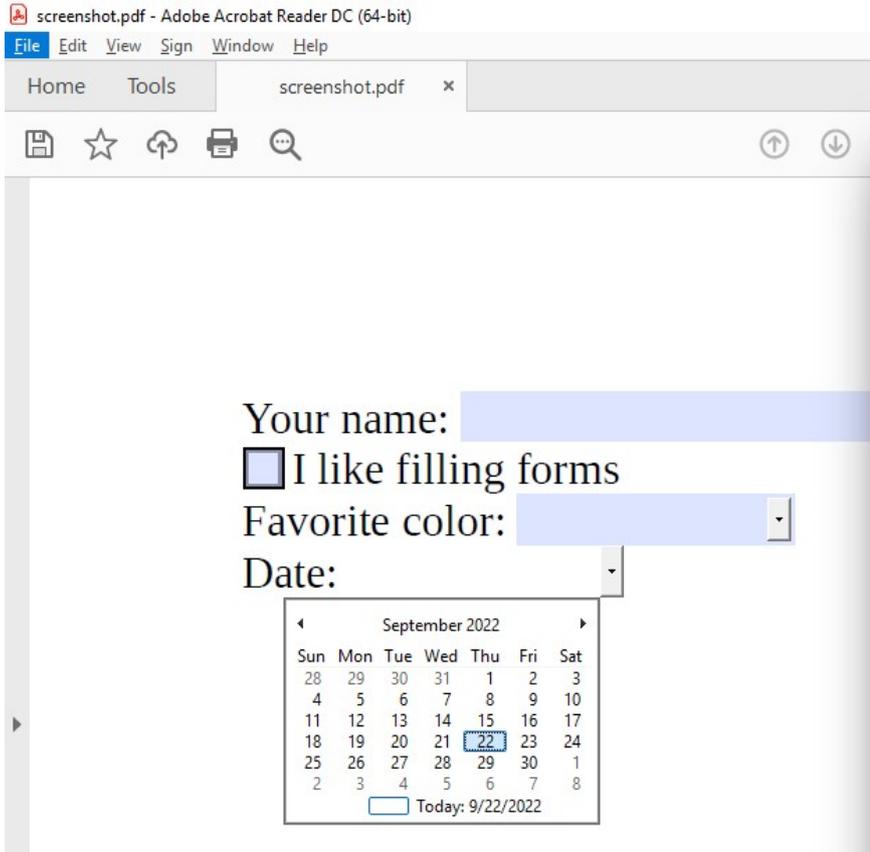
A date picker widget is shown. It consists of a text input field containing the text 'Choose a date' and a dropdown arrow. Below the input field is a calendar for July 2022. The calendar shows the days of the week (Su, Mo, Tu, We, Th, Fr, Sa) and the dates from 1 to 31. The date '5' is highlighted.



PDF form creation ...

Class beating PDF form export:

Improved form / a11y support



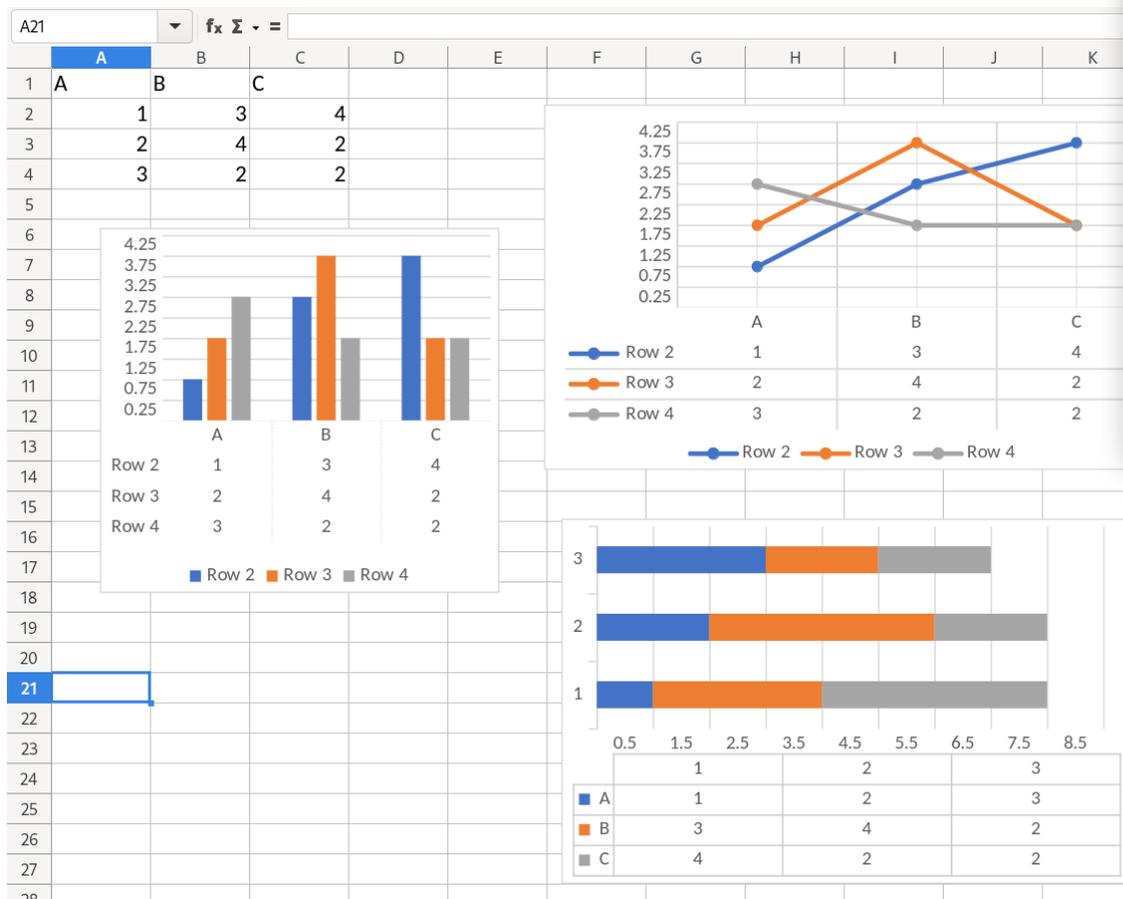
Merged for
LibreOffice 7.5

Impress color theme

A key interoperability win

The screenshot shows the 'Area' color selection dialog in the Impress application. The 'Area' tab is active, and the 'Color' button is selected. The 'Colors' section shows a 'Theme colors' palette, which is highlighted with a red box. Below the palette is a grid of color swatches and a 'Recent Colors' section. The 'Active' color is blue (R: 68, G: 114, B: 196, Hex: 4472c4). The 'New' color is also blue (R: 68, G: 114, B: 196, Hex: 4472c4). Two preview windows are shown on the right, each displaying text and shapes in the selected color. The top preview window shows text boxes and shapes in blue, with options for 'Some text', 'Some text, 60% lighter', and 'Some text, 25% darker'. The bottom preview window shows text boxes and shapes in orange, with options for 'Some text', 'Some text, 60% lighter', and 'Some text, 25% darker'. The 'Pick' button is visible below the 'New' color section.

Chart - data tables ...



Data Table [X]

Show Data Table

Data Table Properties

- Show Horizontal Border
- Show Vertical Border
- Show Outline
- Show Keys

Help Cancel OK

Merged for
LibreOffice 7.5



Precisely anchor & reflow your boat (and other) images

The screenshot displays the Microsoft Word interface with a document titled "CODE_6410_Writer_Sailing...". The document contains text about sailing yachts and a large image of a sailboat. A context menu is open over the image, showing options: Cut, Copy, Paste, Delete, Anchor (selected), Wrap, Arrange, and Rotate or Flip. The "Anchor" sub-menu is also open, showing options: To Paragraph, To Character (checked), and As Character. The "Image" task pane on the right shows settings for the selected image, including Area, Image properties (Brightness, Contrast, Color mode, Transparency), Wrap options, and Position and Size (Width: 2.86", Height: 3.57").

is no standard definition, so the term applies here to sailing vessels that have a cabin with amenities that accommodate overnight use. To be termed a "yacht", as opposed to a "boat", such a vessel is likely to be at least 33 feet (10 m) in length and have been judged to have good aesthetic qualities.[4] [Sailboats](#) that do not accommodate overnight use or are smaller than 30 feet (9.1 m) are not universally called yachts. Sailing yachts in excess of 130 feet (40 m) are generally considered to be [yachts](#). [5]

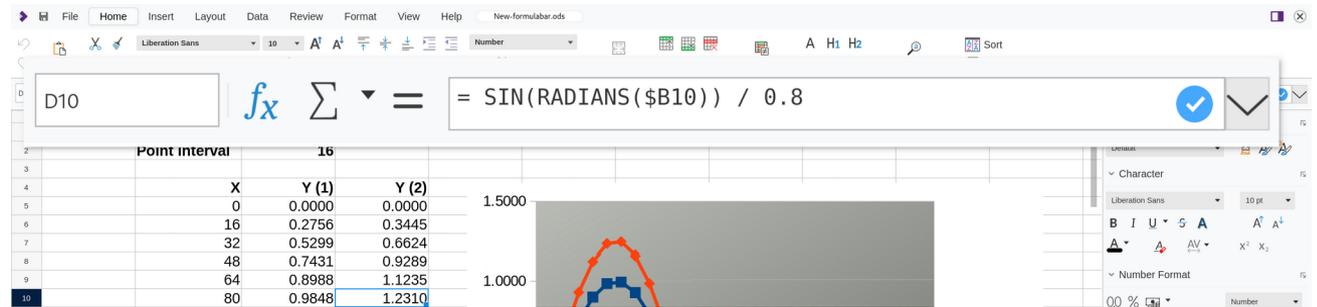
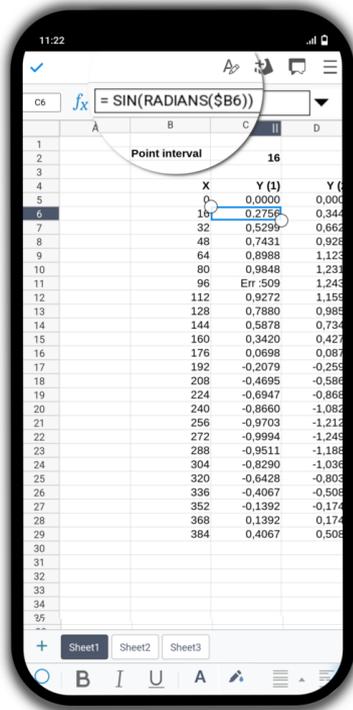
Sailing [yachts](#) are actively used in sport and are among categories recognized by the governing body of sailing sports, [World Sailing](#). [6]

Etymology

Sailing yachts are actively used in sport and are among categories recognized by the governing body of sailing sports, [World Sailing](#). [6]

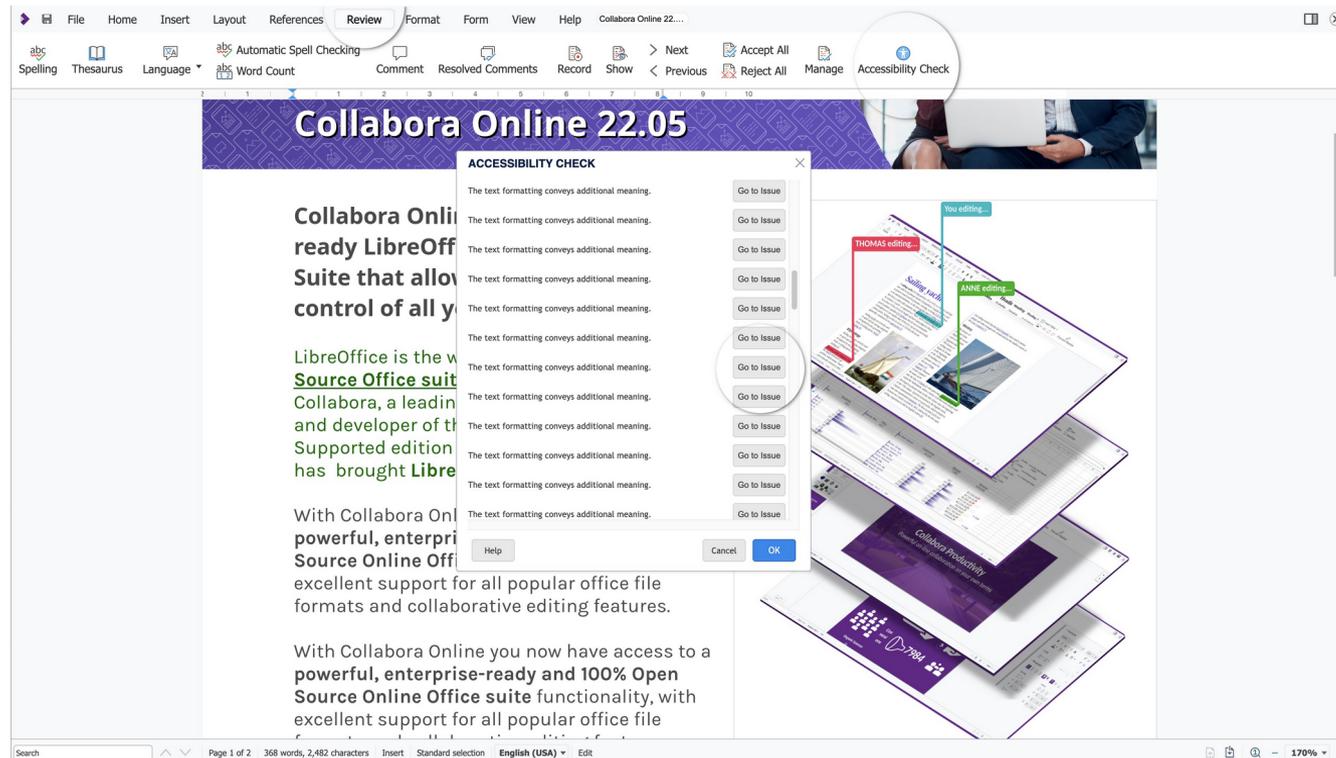
The term, *yacht*, originates from the [Dutch](#) word *jacht* (pl. *jachten*, which means "hunt"), and originally referred to light, pleasure boats begins with rowed craft in Pharaonic Egyptian times. The history of sailing yachts begins in Europe in the beginning of the 17th century with the son of [James I of England](#). Pleasure vessels acquired the name *yacht* who spent time exiled in Europe and a variety of *jachten* were already well known for the elite classes since the beginning of his restoration to the English crown, a series of royal yachts, which included at the time a [catamaran](#). The first recorded yacht race between vessels occurred in 1661, followed by the first open sailing competition in 1663 in English waters. [8]

New HTML Formula Input Bar



Accessibility Check

Accessibility Check Helps to create documents according to the PDF/UA Standard



Richer dialog functionality left & right

eg. SparkLine properties

The screenshot shows the 'SPARKLINE PROPERTIES' dialog box. It is divided into three main sections: 'Properties', 'Colors', and 'Axes'.
- **Properties:** Includes 'Type' (set to 'Column'), 'Line width' (0.75), 'Display empty cells as' (Zero), and checkboxes for 'Display hidden' and 'Right-to-left'.
- **Colors:** A 'Series' dropdown is set to '#5C2983'. Below it are five rows, each with a checkbox and a color dropdown: 'Negative points' (checkbox unchecked, color #800000), 'High points' (checkbox checked, color 'Dark Lime 1'), 'Low points' (checkbox unchecked, color #800000), 'Marker' (checkbox unchecked, color #800000), and 'Last point' (checkbox unchecked, color #800000).
- **Axes:** Includes a checkbox for 'Display X axis' (unchecked), and two rows for 'Vertical minimum' and 'Vertical maximum', each with a dropdown set to 'Individual' and a text input set to '0'.
Buttons at the bottom include 'Help', 'Close', and 'OK'.

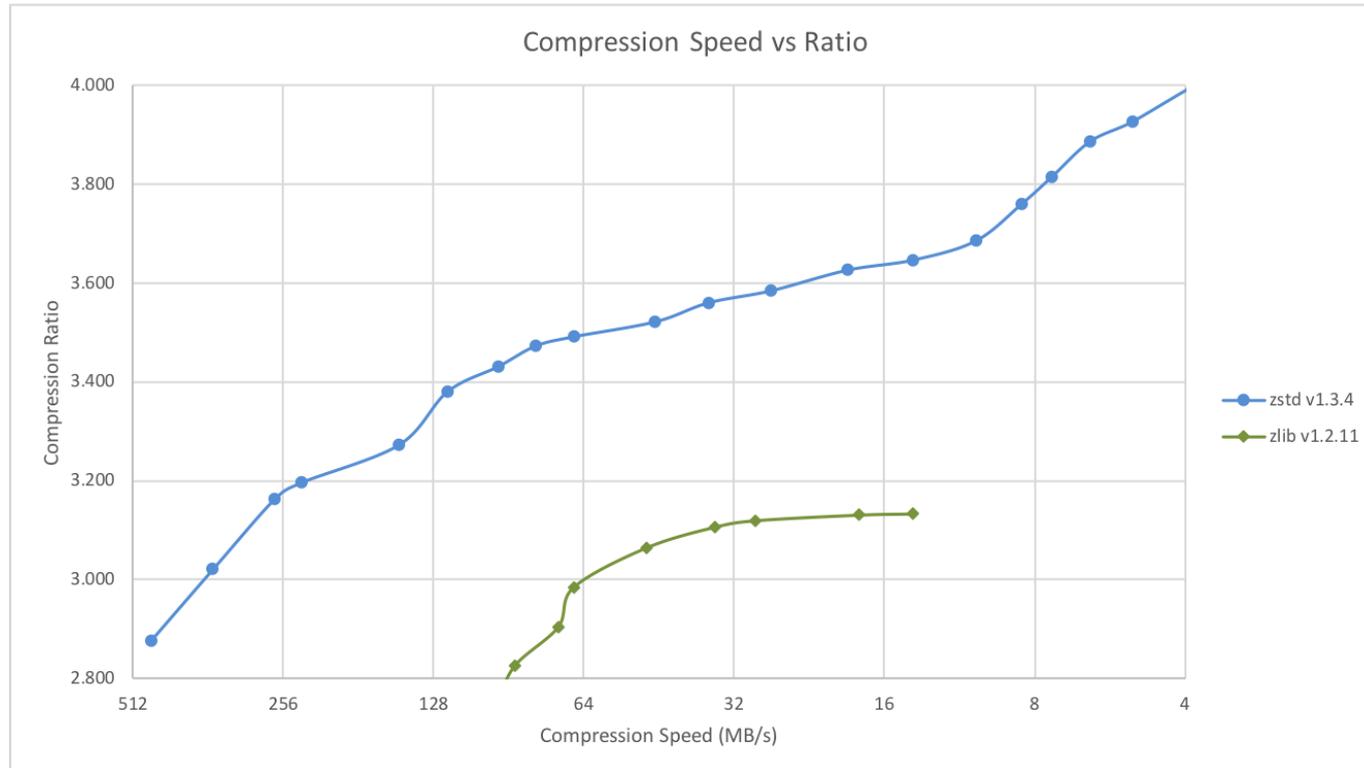
or File Properties

The screenshot shows the 'PROPERTIES OF "CV"' dialog box. It has tabs for 'General', 'Description', 'Font', and 'Statistics', with 'General' selected. The file name 'CV.odt' is shown with a 'Change Password' button. The 'Type' is 'OpenDocument Text'. Other fields include 'Location' (CV.odt), 'Size' (25 KB (25,491 Bytes)), 'Created' (01/09/2021, 14:28:14), 'Modified' (01/09/2021, 20:52:35), 'Template', 'Digitally signed', 'Last printed', 'Total editing time' (00:18:12), and 'Revision number' (9). At the bottom, there are checkboxes for 'Apply user data' (checked), 'Save preview image with this document' (checked), and 'Image preferred DPI' (unchecked). Buttons include 'Reset Properties', 'Help', 'Reset', 'Cancel', and 'OK'.

Faster (zstd) tile compression + δ 's

Thanks to Facebook for a better zlib.

~5x lower CPU load for tile compression.



Properties of "text" [X]

General Description Font Statistics

 text.docx Change Password

Type: MS Word document
Location: text.docx
Size: 19 KB (19,384 Bytes)
Created: 11/04/2015, 14:23:04
Modified: 12/18/2017, 21:10:04
Template:
Digitally signed:
Last printed:
Total editing time:00:20:00
Revision number: 34

Apply user data Reset Properties

Save preview image with this document

Image preferred DPI [dropdown]

Help Reset Cancel OK

Password options.

PDF Options



General

Initial View

User Interface

Links

Security

Range

All

Pages:

Selection

Images

Lossless compression

JPEG compression Quality:

Reduce image resolution to:

Watermark

Sign with watermark

General

Hybrid PDF (embed ODF file)

Archive (PDF/A, ISO 19005)

PDF/A version:

Universal Accessibility (PDF/UA)

Tagged PDF (add document structure)

Create PDF form

Submit format:

Allow duplicate field names

Structure

Export outlines

Export placeholders

Comments as PDF annotations

Export automatically inserted blank pages

Use reference XObjects

Help

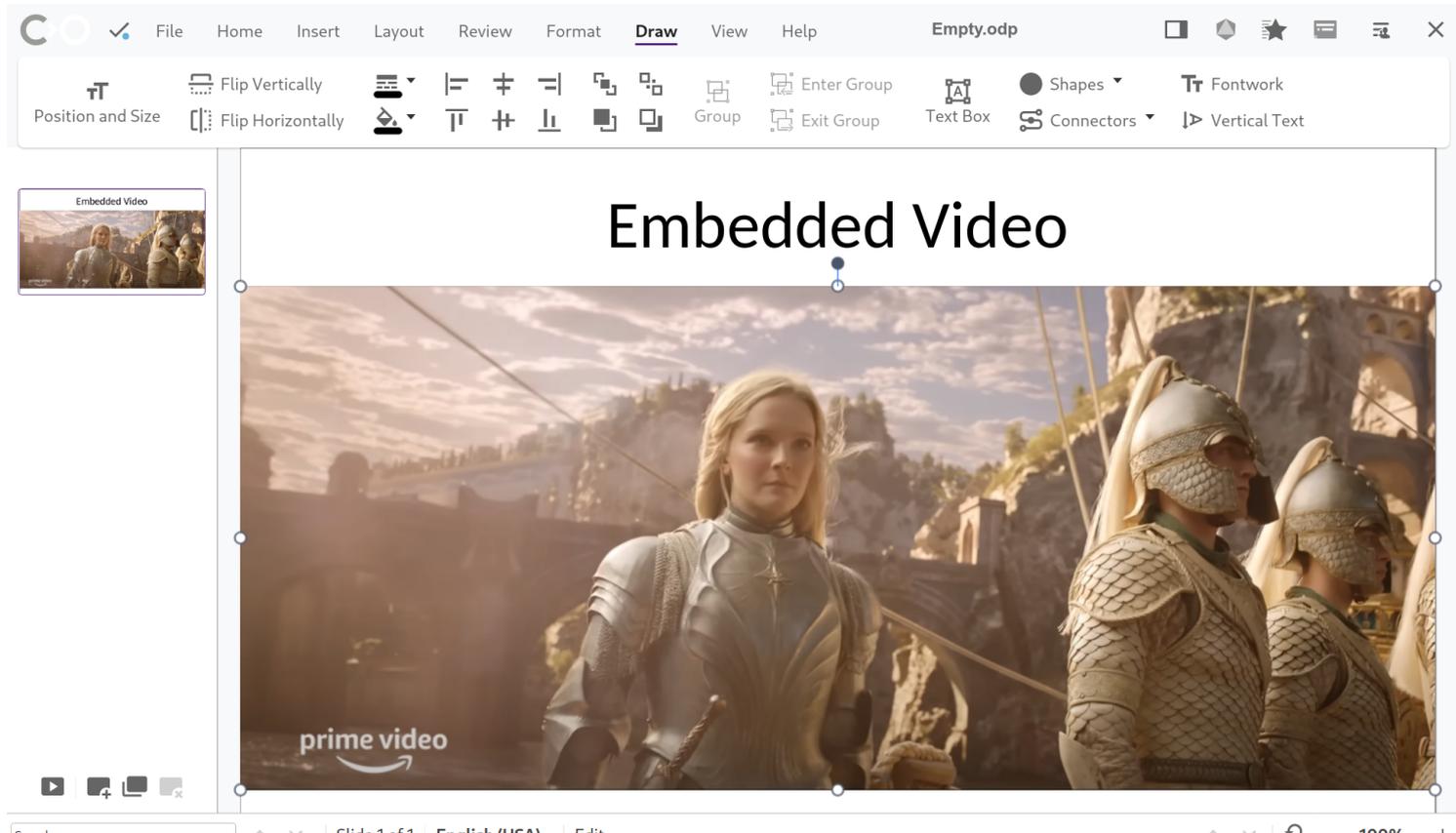
Reset

Cancel

Export

Online / embedded Video playback

Built on browser codec support:



The screenshot displays a presentation software window titled "Empty.odp". The interface includes a menu bar with options: File, Home, Insert, Layout, Review, Format, Draw, View, and Help. Below the menu is a toolbar with various drawing and editing tools, including "Position and Size", "Flip Vertically", "Flip Horizontally", "Group", "Exit Group", "Text Box", "Shapes", "Connectors", "Fontwork", and "Vertical Text".

The main content area features a slide with the text "Embedded Video" centered at the top. Below the text is a video player showing a scene from a movie. The video player includes a "prime video" logo in the bottom left corner and a "Video" icon in the bottom right corner. A small thumbnail of the video is visible in the top left corner of the slide area.

WASM prototype

Proving the concept of off-line-ness ...

Working prototype: proves concept

libreoffice - Collabora Collabora | PXGU-696-Offline-in-browser-ed | Online Editor

https://people.internal.collabora.co.uk/~tml/cowasm/cool.html

File Home Insert Layout References Review Format Form View

Karla 12

Collabora

Collabora Online 22.05

Collabora Online 22.05: the enterprise-ready LibreOffice-based Online Office Suite that allows you to stay in full control of all your office files.

LibreOffice is the world's **most popular Open Source Office suite with over 200 million users**. Collabora, a leading contributor to the project, and developer of the enterprise-ready, Long-term Supported edition of LibreOffice, Collabora Office, has brought **LibreOffice technology to the Cloud**.

THOMAS editing... ANNE editing... You editing...

Settings

Network & internet

Not connected
You aren't connected to any networks [Get Help](#)

WiFi
Connect, manage known networks, metered network Off

Search

Page 1 of 3 Selected: 1 word, 7 characters Insert Standard selection English (USA) Edit

100%

Come hack with us !

The cool kids use LibreOffice technology

LibreOffice Hack-fest

- This Monday & Tuesday:
- Community Dinner tonight!



COOL Days 2023 +

LibreOffice technology Hack-fest:

- March 28th & 29th
- Claire College

Cambridge / UK.

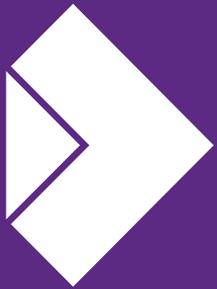


<https://www.collaboraoffice.com/cool-days-2023/>

<https://wiki.documentfoundation.org/Events/2023/FOSDEM>



FOSDEM



**Collabora
Online**

Oh, that my words were recorded, that they were written on a scroll, that they were inscribed with an iron tool on lead, or engraved in rock for ever! I know that my Redeemer lives, and that in the end he will stand upon the earth. And though this body has been destroyed yet in my flesh I will see God, I myself will see him, with my own eyes - I and not another. How my heart yearns within me. - Job 19: 23-27

Thank you!

By Michael Meeks



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www.collaboraoffice.com

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