



A Collabora Overview

Easy to deploy & manage document collaboration

By Michael Meeks

General Manager



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“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

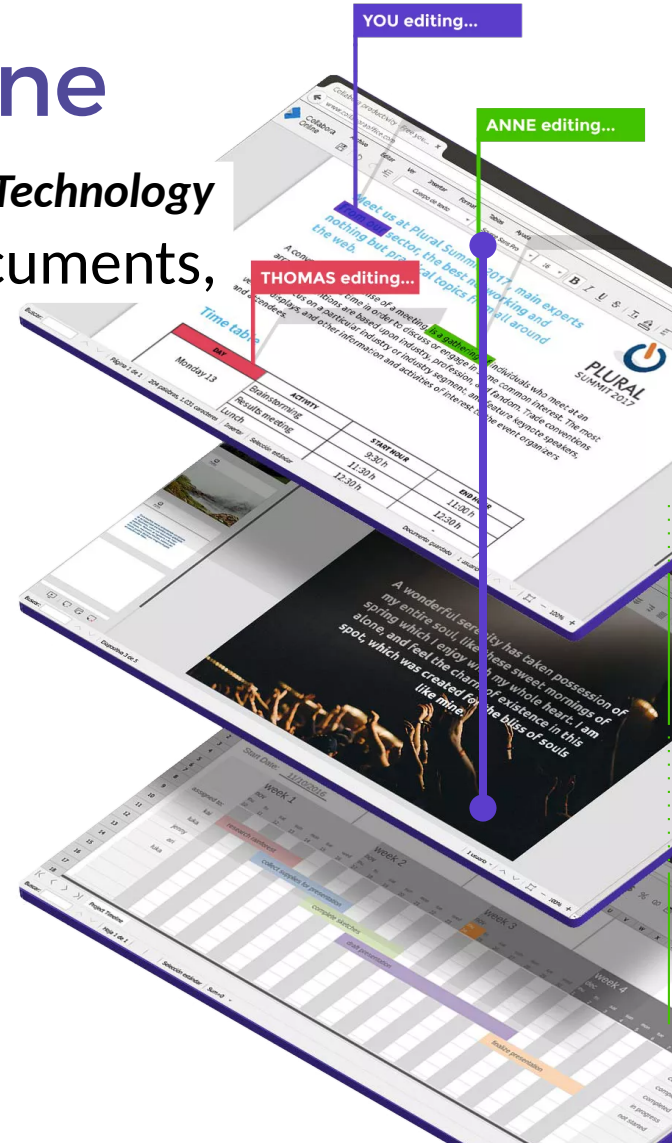
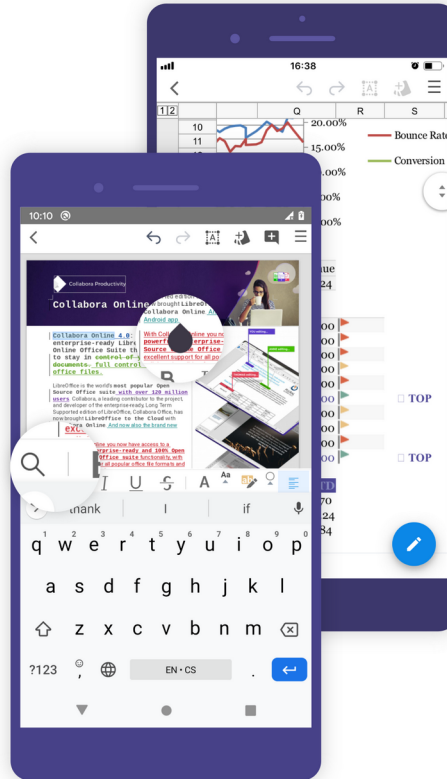
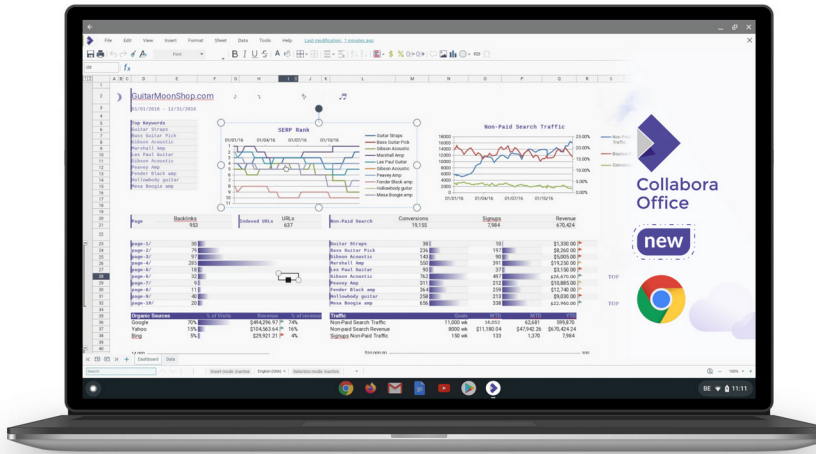


Collabora Online

Built with awesome LibreOffice Technology

Rich, FOSS, secure, interoperable, collaborative documents, on-premise ...

Let me show you some pixels:



File Home Insert Layout References **Review** Format Help Collabora Online.docx

Auto Spell Check Word Count Next Previous Accept Reject Accept All Reject All Manage

Collabora Productivity

Collabora Online 6.4

Collabora Online 6.4: the enterprise-ready LibreOffice-based Online Office Suite that allows you to stay in control of your own documents, full control of 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 now brought LibreOffice to the Cloud with Collabora Online.

With Collabora Online you now have access to a powerful, enterprise-ready and 100% Open Source Online Office suite functionality, with excellent

jane
Thu, Apr 27, 2017

Can we add the version number here too?

Marc Rodrigues
Mon, Aug 10, 2020

Of course, Jane.

Please also note that we changed our version numbering. We went from 4.2 to 6.4 to be in line with Collabora Office on the desktop.

Search Page 1 of 2 385 words, 2,637 characters Insert mode: inactive Standard selection English (USA)

150%

Style

Default Style

Character

Montserrat 14

B I U - S A A⁺ A⁻

Paragraph

Spacing: Indent:

0.00" 0.00"

0.00" 0.00"

0.00"

File Edit View Insert Format Table Slide Slide Show Tools Help Last modification: 5 minutes ago

Title, Content Carlito 29

What is Collabora Online ?

Documents + Spreadsheets + Slides

- Viewing and Collaborative editing

Excellent interoperability with Microsoft formats

- DOCX, DOC, RTF, XLSX, XLS, PPTX, PPT

Many other Import filters / Viewing for

- PDF, Visio, Publisher ...

Powerful WYSIWG rendering

On-premise Integration with your EFSS.

Architecture – a bet on CPU threads & network ...

collabora online.com

YOU editing... ANNE editing... THOMAS editing...

Character: Carlito 29

Paragraph

Spacing: 0.00" Indent: 0.00"

Area Shadow Line Position and Size

Search Slide 2 of 41 English (UK)

Microsoft Excel interface showing an SEO dashboard for GuitarMoonShop.com. The dashboard includes a SERP Rank chart, a Non-Paid Search Traffic chart, a table of backlinks, and a summary table of organic sources and traffic.

SEO Dashboard for GuitarMoonShop.com

Period: 01/01/2016 - 12/31/2016

SERP Rank

Non-Paid Search Traffic

Summary Metrics

Page	Backlinks	Indexed URLs	URLs	Non-Paid Search	Conversions	Signups
	953	637			19,155	7,984

Organic Sources

Source	% of Visits	Revenue	% of revenue
Google	70%	\$404,205.07	74%

Traffic

Source	Goals	WTD	MTD
Non Paid Search Traffic	11,000	406476%	23,291

Excel ribbon options for styling and formatting.

- Style:** Default
- Character:** Courier New, 10
- Number Format:** General, 00 decimal places, 1 leading zeroes
- Alignment:** Merge cells checked, Wrap text unchecked
- Cell Appearance:** Background color selector

Collabora Productivity

Collabora Online v 4.0

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

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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.

Character Paragraph

Default Style >

A+ A

A Font Name Karla >

A↑↓ Font Size 12 >

Collabora Productivity

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Character Paragraph

≡ ≡ ≡ ≡

≡ ≡ ≡ ≡

≡ ≡ ≡ ≡

≡ ≡ ≡ ≡

Background Color ○ >

Spacing:

Collabora Productivity

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< **Highlight Color**

No color

Color palette with 16 color swatches.

Navigation icons: back, forward, refresh, search, share, add, user count (0), menu.

Slide content: "Hello world" and a bar chart titled "Title".

Chart Type panel:

Chart Type:

Column >

3D Look

Navigation icons: back, forward, refresh, play, search, share, add, menu.

Slide content: "Shape editing" title and a collage of images related to shape editing.

Slide & Layouts panel:

Slide < Layouts

Navigation icons: back, forward, refresh, play, search, share, add, menu.

Slide content: "Shape editing" title and a collage of images related to shape editing.

Slide & Layouts panel:

Slide < Layouts

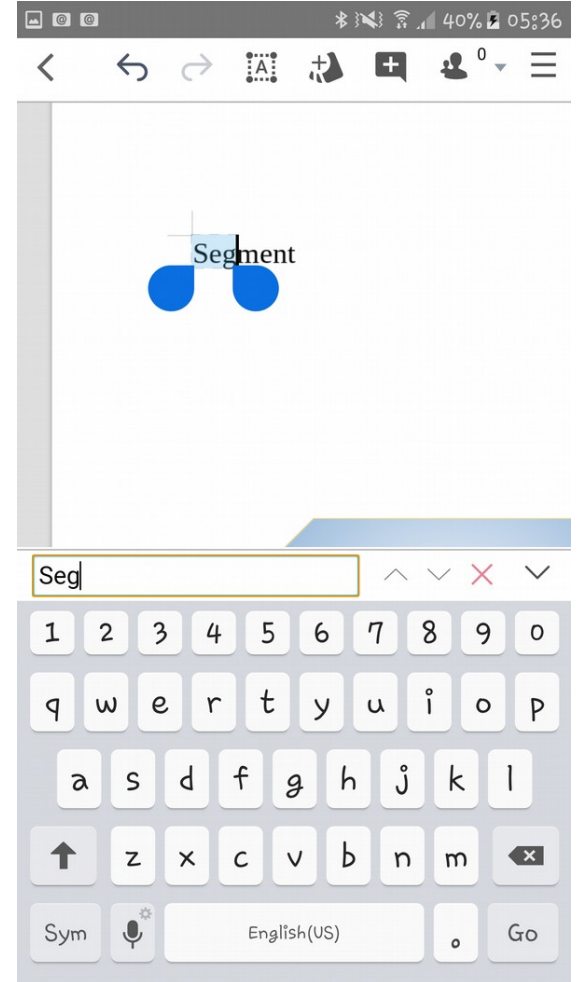
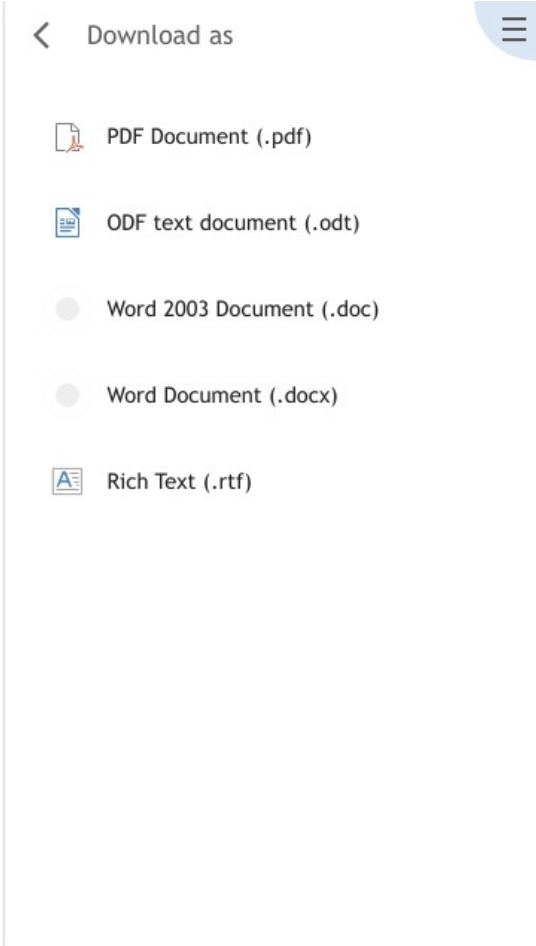
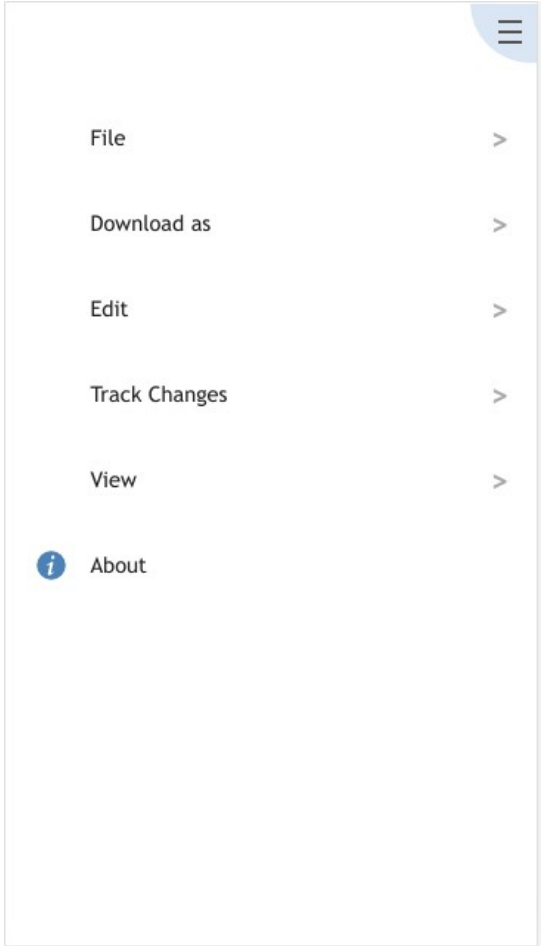
Format:

Screen 4:3 >

Orientation:

Landscape >

Background:



iOS tablets

The screenshot shows the Microsoft Excel application on an iOS tablet. The interface includes a top menu bar with 'File', 'Home', 'Insert', 'View', and 'Help'. A 'Sheet' tab is highlighted. The main workspace displays a '4 week project timeline' starting on 11/11/20. The timeline is organized into four weeks (week 1 to week 4) with tasks assigned to employees: kai, luka, jenny, and ari. A bar chart at the bottom shows progress percentages for each employee: kai (100%), luka (100%), jenny (70%), and ari (50%).

The screenshot shows the 'COLUMNS' settings dialog box in Microsoft Excel. The dialog is titled 'COLUMNS' and has a close button (X). It contains the following sections:

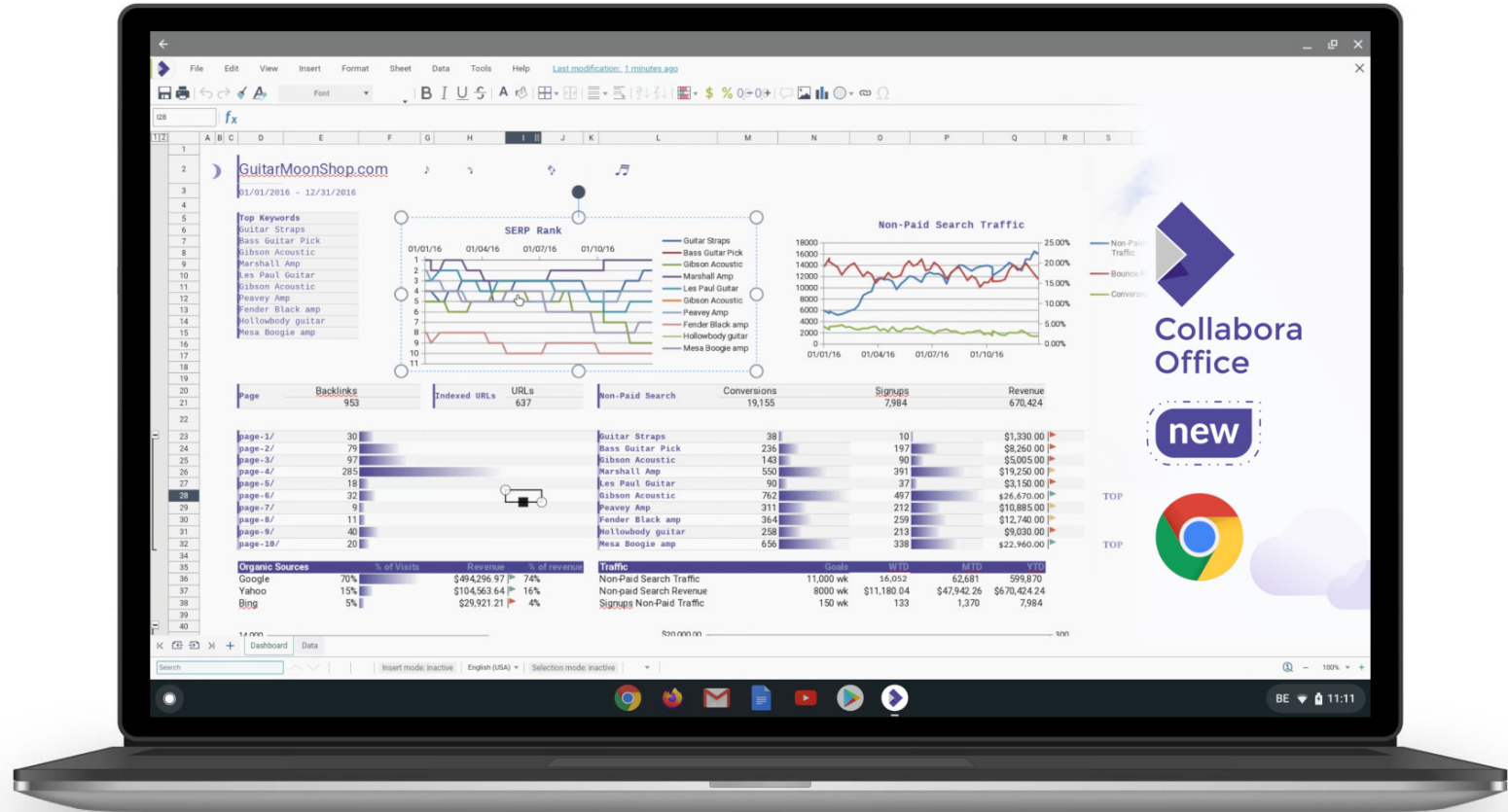
- Settings:** Columns: 11, Apply to: Page Style: Default Style.
- Width and Spacing:** Column: 1, 2, 3; Width: [input fields]; Spacing: [input fields]; AutoWidth.
- Separator Line:** Style: None, Height: 100%, Color: Black, Width: 0.25 pt, Position: Top.

Long Term Support and cloud-based solution, such as File Document Management, can build software.

see are supported for 3 years with a perpetual license annual



Rich ChromeBook support



new



Powerful document editing

Power & Interoperability are key

Collabora Online vision – focused on it:

- Full feature
- Open Source
- Browser based document editing.

Interoperability

- Is key to unlocking your documents → free choice of platform
 - Executives want iPads & Macs, Students get ChromeBooks, Researchers love the Linux Desktop, others get Windows.

MS Office Online ties you to Windows

Microsoft Word Online

Sorry, Word Online can't open this document for editing because it has document protection enabled for one or more sections. To edit this document, please open it in Microsoft Word.

Tell us about this problem to help us fix it. [Give feedback to Microsoft](#)

Session ID: 735838fd-b0c7-4534-8d07-84df8f1158b9

Edit in Word Open in Reading View

Microsoft Word Online

Sorry, Word Online can't open this document because it's too big.

Tell us about this problem to help us fix it. [Give feedback to Microsoft](#)

Session ID: 9b5be095-bcc2-407b-984a-9b5d885174ee

Edit in Word Open in Reading View

Microsoft Word Online

Sorry, Word Online ran into a problem while opening this document. To view this document, please open it in Microsoft Word.

Session ID: bd60564a-5cbb-4d12-82b3-2496bf8eba30

Edit in Word

Couldn't Open the Workbook

Sorry, we can't open your workbook in Excel Online because it exceeds the 5 MB file size limit.

You'll need to open this in Excel.

[Learn more](#)

Open in Excel

Edit a Copy?

To edit this in your browser, we will create a copy that doesn't include unsupported features.

To edit this workbook with all of its features, click Cancel and open it in Excel.

[Learn more](#)

Edit a Copy Cancel

Compatibility Report

We can't show these features in the browser:

- Shapes or other objects
- SmartArt (process, hierarchy, cycle and relationship diagrams)

But you can see all the content in this workbook by opening the file in Excel.

[Learn more](#)

OK

W Edit in Word Use the full functionality of Microsoft Word.

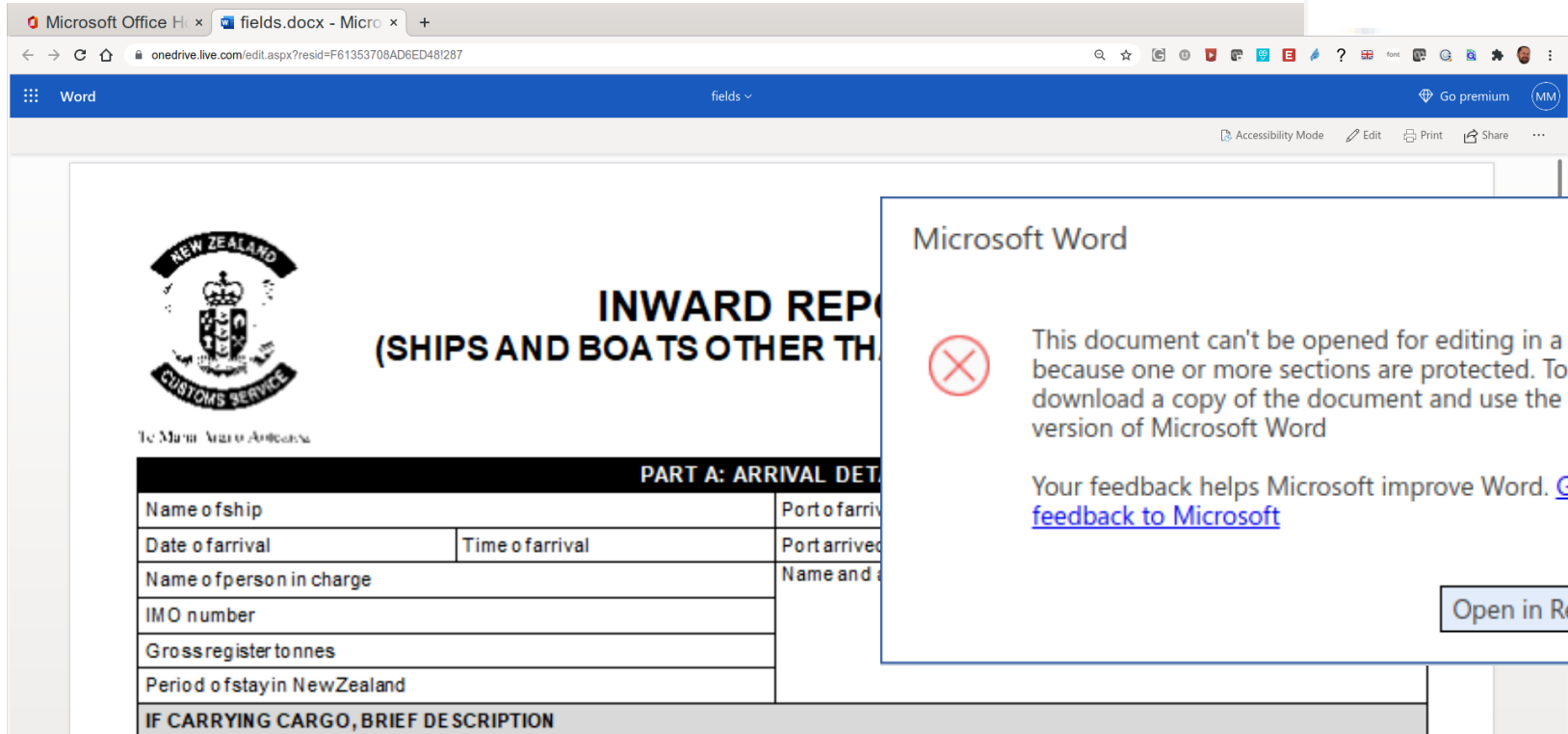
W Edit in Browser

MS Word: eg. Rich Fields

Lots of legacy forms to fill out in DOC / DOCX format:

- tab through editable fields; skip protected sections

perso




Microsoft Office Home | fields.docx - Microsoft Word

onedrive.live.com/edit.aspx?resid=F61353708AD6ED481287

Word | fields | Go premium

Accessibility Mode | Edit | Print | Share



Te Matiri Aotearoa


INWARD REPORT (SHIPS AND BOATS OTHER THAN ...)

PART A: ARRIVAL DETAILS

Name of ship	Port of arrival
Date of arrival	Time of arrival
Name of person in charge	Name and address
IMO number	
Gross register tonnes	
Period of stay in New Zealand	

IF CARRYING CARGO, BRIEF DESCRIPTION

Microsoft Word

 This document can't be opened for editing in a browser because one or more sections are protected. To edit, download a copy of the document and use the desktop version of Microsoft Word

Your feedback helps Microsoft improve Word. [Give feedback to Microsoft](#)

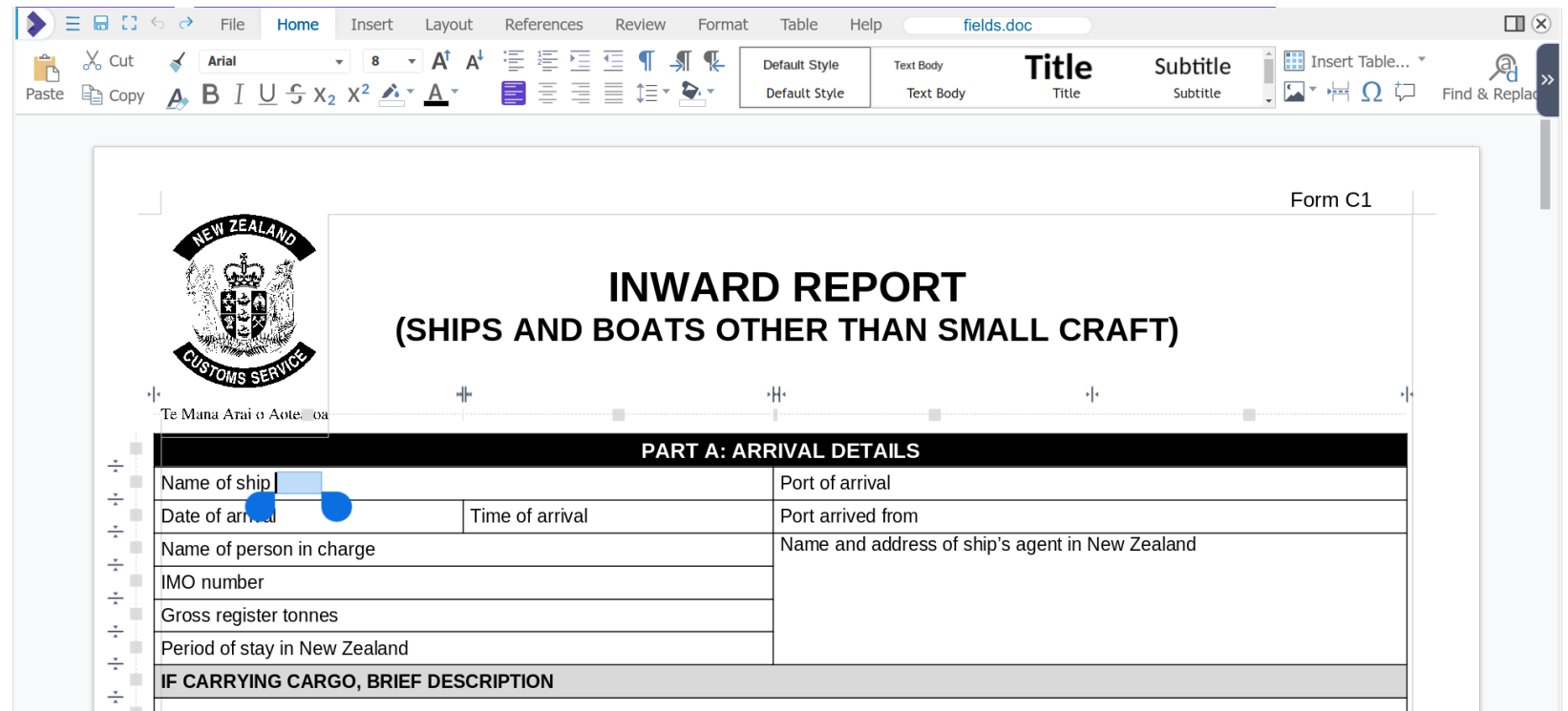
Open in Reading View

Writer: Rich Fields support ...

persor

Fill out your DOC / DOCX forms

- tab through editable fields; skip protected sections



The screenshot shows a Microsoft Word document titled 'fields.doc' containing a form for the New Zealand Customs Service. The form is titled 'INWARD REPORT (SHIPS AND BOATS OTHER THAN SMALL CRAFT)' and is labeled 'Form C1'. It features the New Zealand Customs Service logo and the Māori motto 'Te Mana Arai o Aotearoa'. The form is divided into sections, with 'PART A: ARRIVAL DETAILS' containing a table with the following fields:

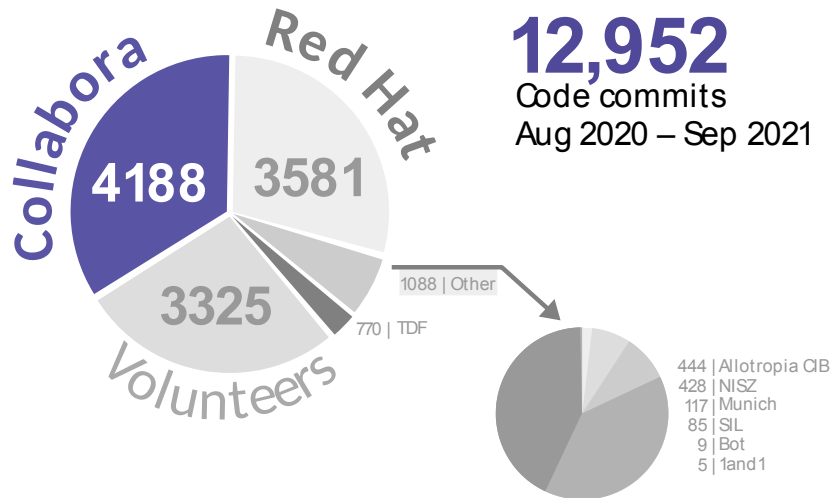
Name of ship	Port of arrival
Date of arrival	Time of arrival
Name of person in charge	Port arrived from
IMO number	Name and address of ship's agent in New Zealand
Gross register tonnes	
Period of stay in New Zealand	

Below the table is a section titled 'IF CARRYING CARGO, BRIEF DESCRIPTION'.

Built on LibreOffice Technology



- 200+ million LibreOffice user-base
- ~1000 people helping to develop LibreOffice
 - 100 localization teams
- Product developed in public: outer-source



Berlin: Federal Ministry of Economics and Technology



City of Rome: Capitol Hill

Performance Wins

Performance breakdown

Coolwsd / core work

- Major improvements in raw data-transfer
 - download, print, presentation

Faster rendering

- Font caching, image scaling
- Faster opening times of document types
- Faster invalidation, scaling to more concurrent users in one document.

Asynchronous (auto) save

- Don't pause while the EFSS backend / WOPI-like transaction completes.

Solves autosave 'stalls' while typing.



Saving document, please wait...

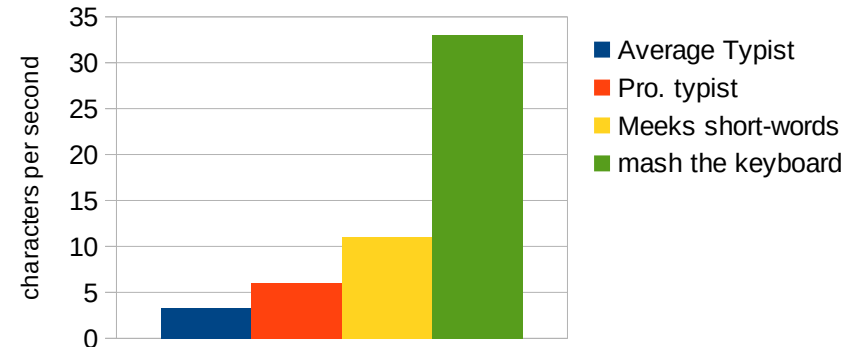
Performance: typing fast ...

- Customer: “we tested it with eight people doing random typing”
- Profiled this use-case; it is/was slow
 - The mis-spelling squiggly-line (cf. wrong language setting?) ...
 - an unfeasible amount of CPU ~90% of rendering time
 - A most beautiful sub-divided, AA b-spline but ... ~2 pixels high mostly
- Mashing the keyboard a pathological case: we’re still working on improving
 - [Test your speed here](#)
- Consider Calc with lots of mis-spelling

Sdf sadf kjh lkshdfk ashdfkjasdhdkf
slkdfhkasdh flksjdh f;ksah dflk kwe
iuh ks,dnf;yi o;wae ,n sadlkjfh

Mashing the keyboard as a test

~10x as bad as reality



Profiling: Javascript was slow: surprise

JS in the browser mostly our bottleneck

- batch-processing of websockets: much faster
 - Don't render one frame per message
- group table handle / cursor movement / DOM re-building → 15x faster
- Reduce GC pressure on image handling
- Kick-out a poorly optimized node module or two.

Interactivity / client-side rendering

- Client-side Calc grid rendering
- Client-side writer page rendering

Work continues here ...

New features to 21.11

RTL support: Arabic, Hebrew, ...

... ht-to-left_Testsheet_v2.ods مساعدة صيغة مراجعة بيانات نسق إدراج الصفحة الرئيسية ملف

ملء الشاشة جرد العمود الأول نسق الصفحة... جرد الصفوف والأعمدة جرد الصف الأول الشرط الجانبي صغر مستوى التكبير قفز

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35

العربية

صفر 0

واحد 1

إثنان 2

ثلاثة 3

أربعة 4

خمسة 5

ستة 6

سبعة 7

ثامنة 8

تعاية 9

عشرة 10

صفر

واحد

إثنان

ثلاثة

أربعة

خمسة

ستة

سبعة

ثامنة

تعاية

عشرة

صفر

واحد

إثنان

ثلاثة

أربعة

خمسة

ستة

سبعة

ثامنة

تعاية

عشرة

خمسة

نمط الصفحة: المبدئي

المتمم الصفحة الحدود الخلفية ترويسة تذييل ورقة

تنسيق الورق

البيسق: A4

العرض: 21,00 سم

الطول: 29,70 سم

الاتجاه: عرضي عمودي

اتجاه النص: من اليمين إلى اليسار (أفقي) من اليسار إلى اليمين (أفقي) من اليمين إلى اليسار (عمودي) من اليسار إلى اليمين (عمودي)

الهوامش

بساط: 2,00 سم

يمين: 2,00 سم

أعلى: 2,00 سم

أسفل: 2,00 سم

صينية الورق: [من إعدادات الطابعة]

إعدادات التخطيط

تخطيط الصفحة: يمين ويسار

Page numbers: ... 3, 2, 1

محاذاة الجدول: إفتي رأسى

حسنا أبع مساعدة

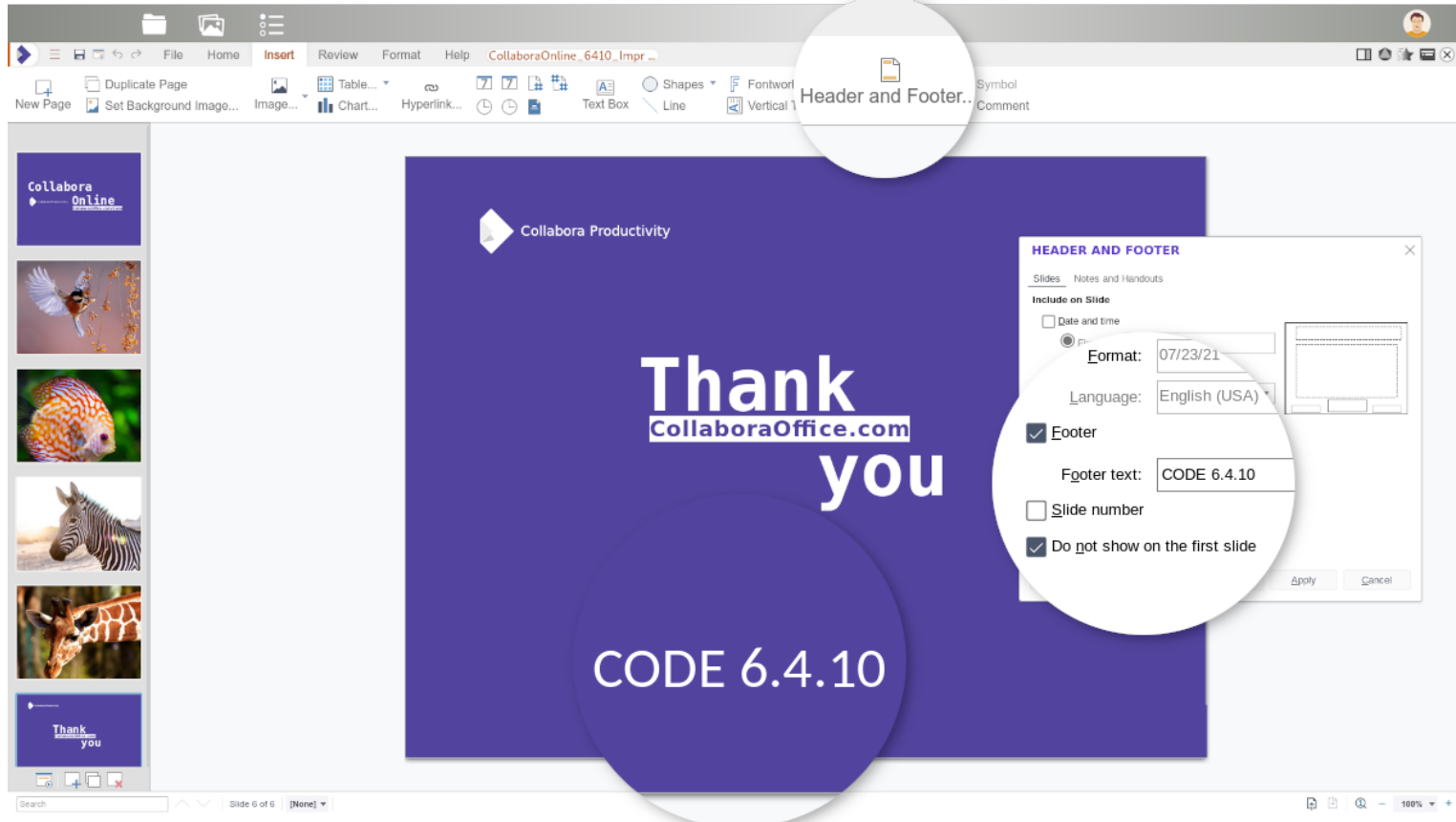
Sheet1

الورقة 1 من 1 حدد عدة خلايا وضع الإدراج: غير نشيط الإنجليزية (الولايات المتحدة) التحديد القياسي المتوسط: المجموع: 0 تحرير

150%

eg. PPTX interoperability wins

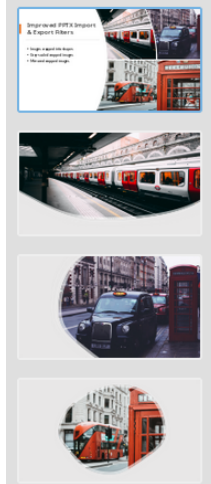
Headers / footers and various fields round- tripping nicely



The screenshot displays a presentation software interface with a slide titled "Thank you" and "CollaboraOffice.com". A "HEADER AND FOOTER" dialog box is open, showing settings for the slide's header and footer. The dialog box includes the following options:

- Date and time
- Format: 07/23/21
- Language: English (USA)
- Footer
- Footer text: CODE 6.4.10
- Slide number
- Do not show on the first slide

The slide content includes the text "Thank you" and "CollaboraOffice.com" in a white font on a dark blue background. The footer text "CODE 6.4.10" is also visible on the slide. The interface shows a menu bar with options like File, Home, Insert, Review, Format, and Help. A sidebar on the left contains a list of images, and a search bar is at the bottom left. The status bar at the bottom indicates "Slide 6 of 6" and "100%" zoom.



Improved PPTX Import

- Images cropped into shapes
- Grey-scaled cropped images
- Mirrored cropped images



Slide

Format: User

Orientation: Landscape

Background: Color

White

Master Slide: Title and Content

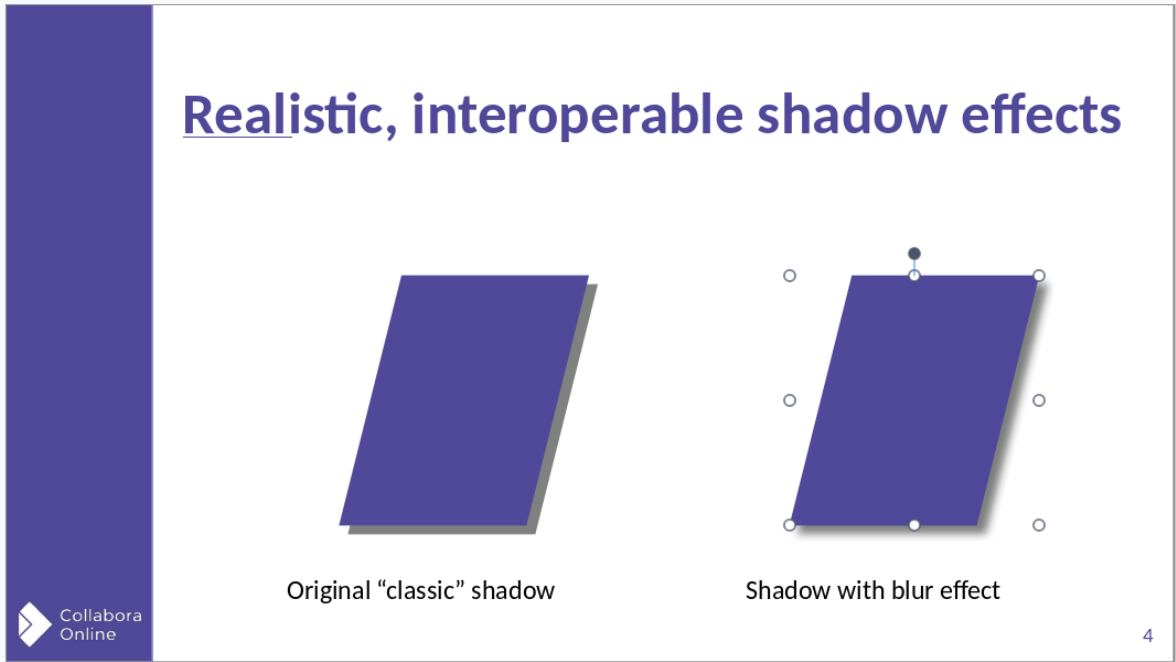
Master Background

Master Objects

Master View

Layouts

- Collabora Online 21.11
- Collabora Online 21.11
- Glow & Soft Edge Effects on Shapes
- Realistic, interoperable shadow effects**
- Collabora Office
- Collabora Office: Desktop Editing
- Collabora Office: Mobile Editing
- Collabora Office: Chrome OS



Character

Paragraph

Area

Fill: Color

Transparency: None

Effect

Shadow

Enable

Angle: 315°

Distance: 6 pt

Color: Gray

Blur: 6 pt

Transparency: 0

Line

Line: [Line Style]

Width: [Width]

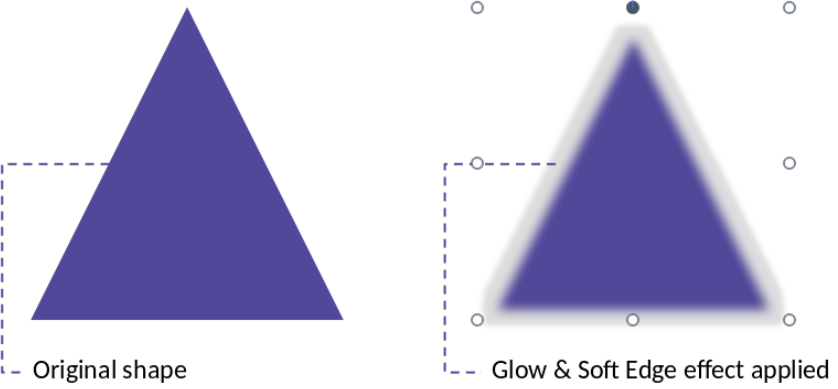
Color: [Color]

Transparency: 0

Corner style: Rounded

Cap style: Flat

Glow & Soft Edge Effects on Shapes



> Character

> Paragraph

> Area

Fill: Color

Transparency: None

> Effect

Glow

Radius: 8 pt

Color: Light Gray 4

Transparency: 0

Soft Edge

Radius: 8 pt

> Shadow

> Line

Line:

Width:

Color:

Transparency: 0

Corner style: Rounded

Cap style: Flat

> Position and Size

Position X: 6,85

Position Y: 2,05

Width: 2,95

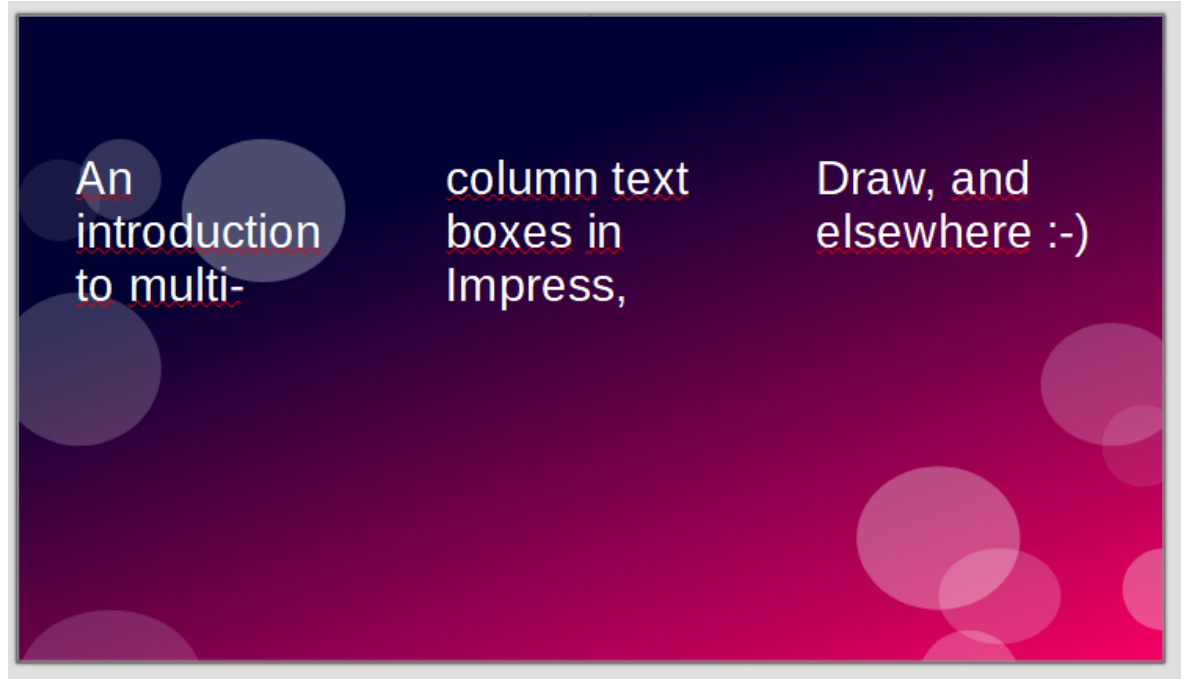
Height: 2,95

Shape text rendering wins

eg. multi-column
text layout in
impress

btLr text frame
supporti

Bottom-to-top, left-to-right
text (vertical)



Gutter Margins – book / thesis binding

Margins

Iinner: 0.79"

Outer: 0.79"

Top: 0.79"

Bottom: 0.79"

Gutter: 1.00"

1. Define the size of the gutter margin


Gutter position:

Left

Left

Top

2. Choose the position of the gutter margin

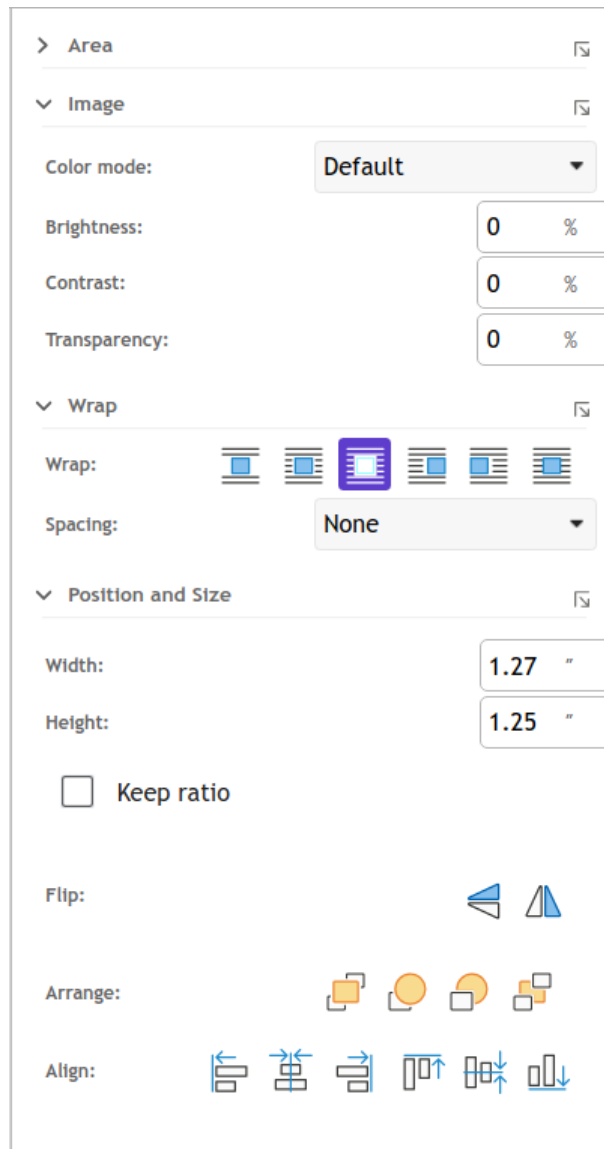


3. A preview of the gutter margin's size and position is rendered in the dialog

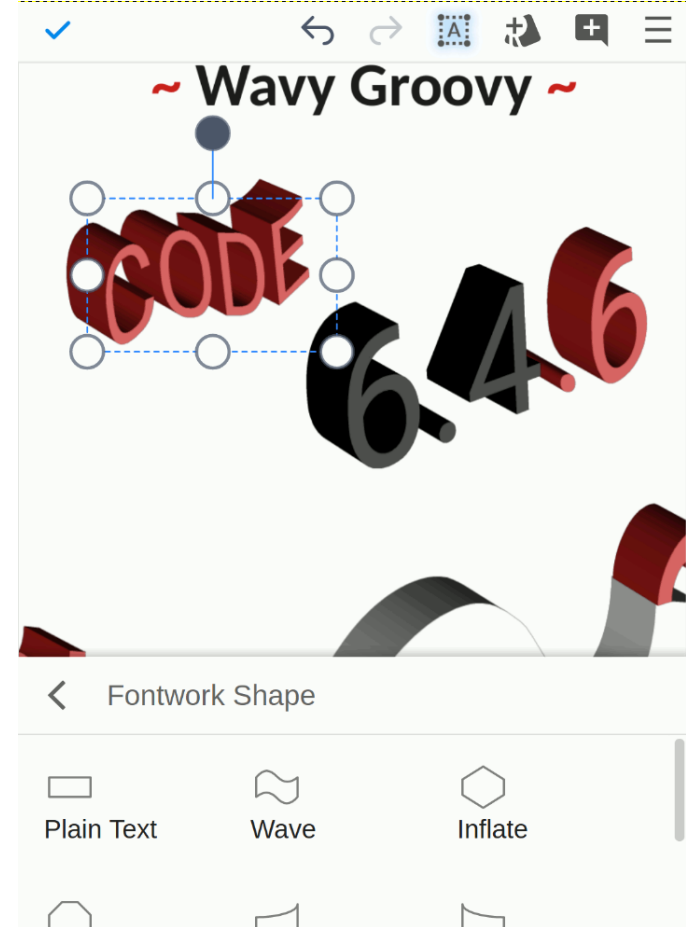
UX: JS sidebar ...

Javascript widgets rendering
in the browser:

- Much easier to theme
- Crisp text, editing.
- Working, but needs polish
- Quicker to update

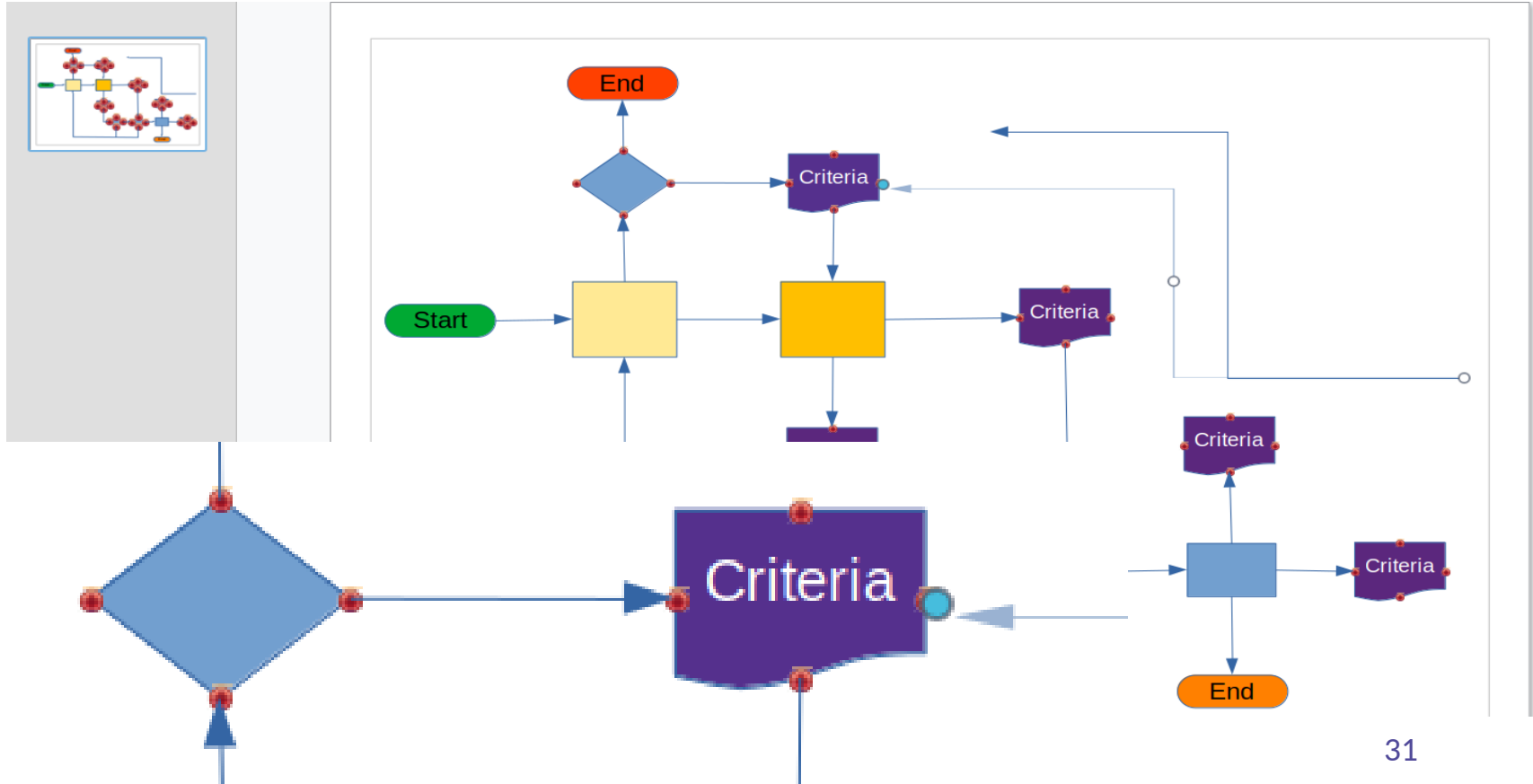


Bringing Draw to Online: Fontwork



Bringing Draw to Online: Connectors ...

Shapes, Glue points, Connectors



Precisely anchor & reflow your boat (and other) images

The screenshot shows a Microsoft Word document with a text-heavy layout. On the left, there is a column of text discussing the definition of yachts. In the center, a large image of a multi-masted sailing ship is being edited. A context menu is open over the image, with the 'Anchor' option selected, showing sub-options: 'To Paragraph', 'To Character' (which is checked), and 'As Character'. To the right of the image, another column of text discusses the history of sailing yachts. At the bottom right, a 'Position and Size' task pane is visible, showing the image's dimensions as 2.88 inches wide and 3.57 inches high. The Word ribbon at the top includes 'Home', 'Insert', 'Layout', 'References', 'Review', and 'Format'. The status bar at the bottom indicates 'Page 1 of 3', '1,050 words, 5,617 characters', and '100%' zoom.

Collabora Online SDK

Collabora Online SDK describes the main methods that allow you to interact with different Collabora Online components.

Chose one of the following sections to learn more about the available SDK methods.



Install it on-premises



Create integration



Browse available integrations

Frequently Asked Questions

High availability, fault tolerance, upgrade-ability?

Do the documents leave the server?

What is CODE? Are there non-development editions too?

Do the programs require an uninterrupted network connection?

Can I host your product on my own environment?

[View all FAQ](#)

If you want a high availability setup, not only to provide extra scalability, but also to provide redundancy against faults. Collabora Online has a clean and attractive architecture – which scales with your routing network:

- Each document is served by a single node...

[Read more →](#)

- [← Back](#)
- INTRO**
 - Why integrate?
 - ▣ Installation guide
- GET STARTED**
 - Introduction**
 - ▣ How to integrate
 - Step-by-step tutorial
 - ▣ Simple examples
 - ▣ Available integrations
 - ▣ Advanced integration
- DOCUMENTATION**
 - ▣ PostMessage API
 - Conversion API
 - ▣ Server macros in Python
 - ▣ Theming of Collabora Online
- MORE INFORMATION**

[🏠](#) » [Introduction](#)

Introduction

This document will help you integrating with your existing solution. Users can edit the documents hosted in the file storage via web interface.

For this to work, you have to setup and connect several parts to the solution:

- Server for hosting Collabora Online
- Website that presents iframe with the editing capabilities
- Authentication
- Connection to the file storage

The easiest way to integrate Collabora Online is using the WOPI (Web Open Platform Interface) protocol.

Collabora Online implements a protocol inspired by the WOPI (Web Open Platform Interface) protocol. Using the WOPI vocabulary as well as the WOPI protocol (Web Open Platform Interface) protocol. Collabora Online is a *WOPI client* that can be integrated with a solution: web application and file storage). WOPI is a well documented protocol. For more details please visit the [WOPI documentation](#).

[← Previous](#)

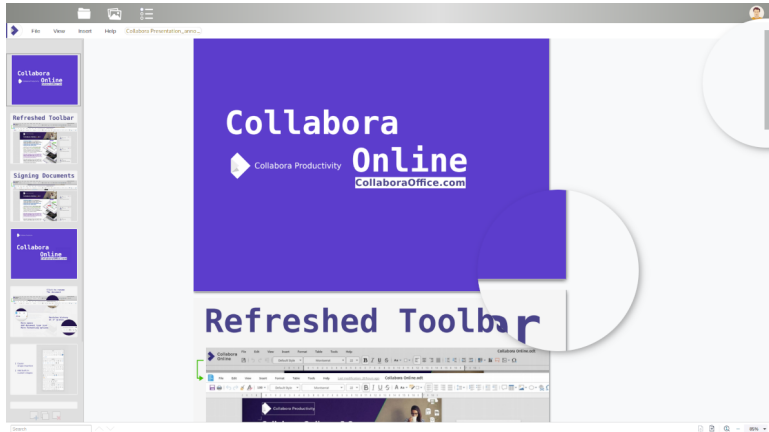
© Copyright 2021, Collabora.

Built with Sphinx, custom theme based on sphinx rtd by Read the Docs.

Lots of other new pieces

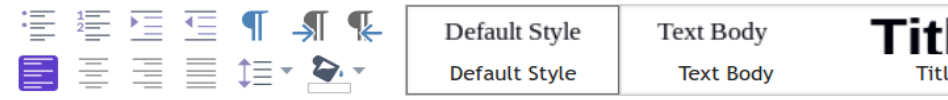
PDF scrolling

- Continuous scroll, instead of 'slide pages' for PDF reading:



Style Previews

- A simple way for people to style their documents from the Notebookbar:

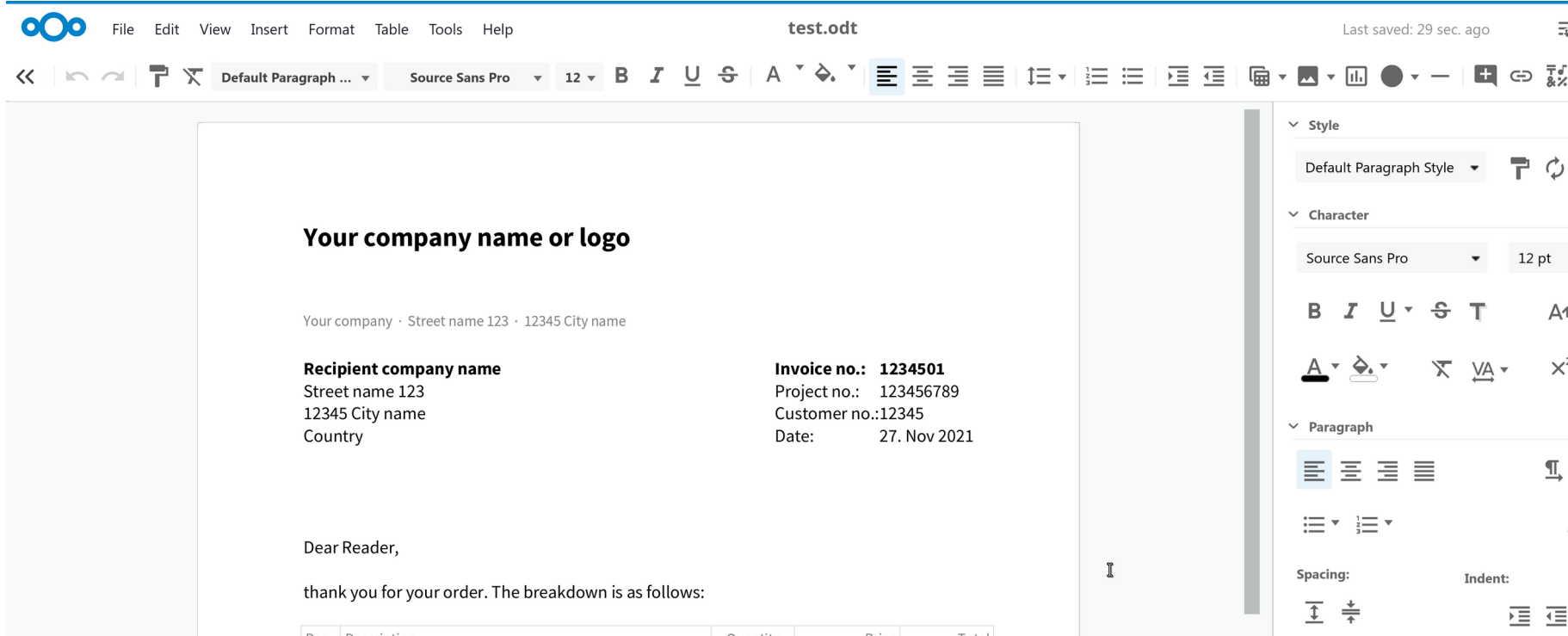


Integration improvements

Nextcloud Office

Integrated, matching themed graphical goodness & innovation ...

- *thanks to Jan, Julius, Szymon, Andreas, Pedro, Kendy ...*



The screenshot shows the Nextcloud Office interface for editing a document named 'test.odt'. The top menu bar includes 'File', 'Edit', 'View', 'Insert', 'Format', 'Table', 'Tools', and 'Help'. The toolbar contains various editing tools like undo, redo, bold, italic, underline, strikethrough, text color, background color, bulleted list, numbered list, link, unlink, and insert table. The main editing area displays a document template with the following content:

Your company name or logo

Your company · Street name 123 · 12345 City name

Recipient company name	Invoice no.: 1234501
Street name 123	Project no.: 123456789
12345 City name	Customer no.:12345
Country	Date: 27. Nov 2021

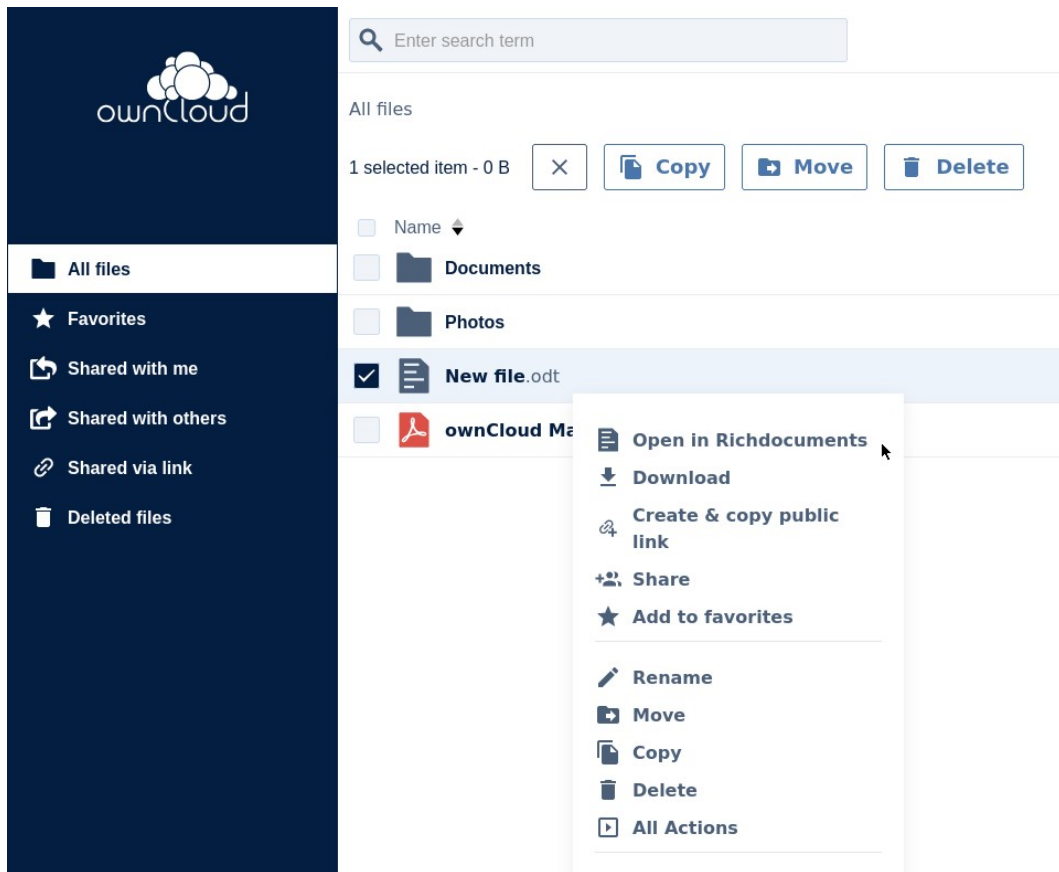
Dear Reader,

thank you for your order. The breakdown is as follows:

The right-hand sidebar shows the 'Style' section with 'Default Paragraph Style' selected, and the 'Character' section with 'Source Sans Pro' font and '12 pt' size. The 'Paragraph' section shows alignment and list options. The 'Spacing' and 'Indent' sections are also visible at the bottom of the sidebar.

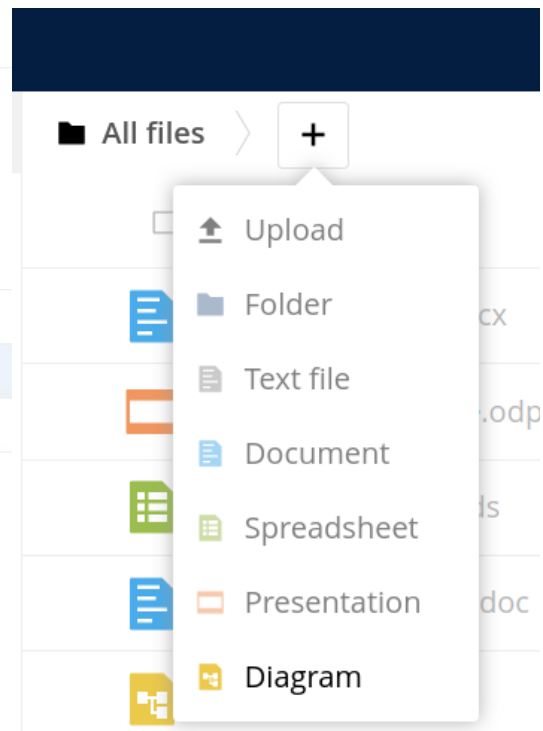
ownCloud Web & OCIS ...

Native integration into ownCloud Web



The screenshot shows the ownCloud Web interface. On the left is a dark sidebar with the ownCloud logo and navigation options: All files, Favorites, Shared with me, Shared with others, Shared via link, and Deleted files. The main content area has a search bar at the top. Below it, the 'All files' section shows '1 selected item - 0 B' with buttons for Copy, Move, and Delete. A list of files is displayed with columns for selection, name, and type. The file 'New file.odt' is selected, and a context menu is open over it, listing actions: Open in Richdocuments, Download, Create & copy public link, Share, Add to favorites, Rename, Move, Copy, Delete, and All Actions.

Diagram integration ...



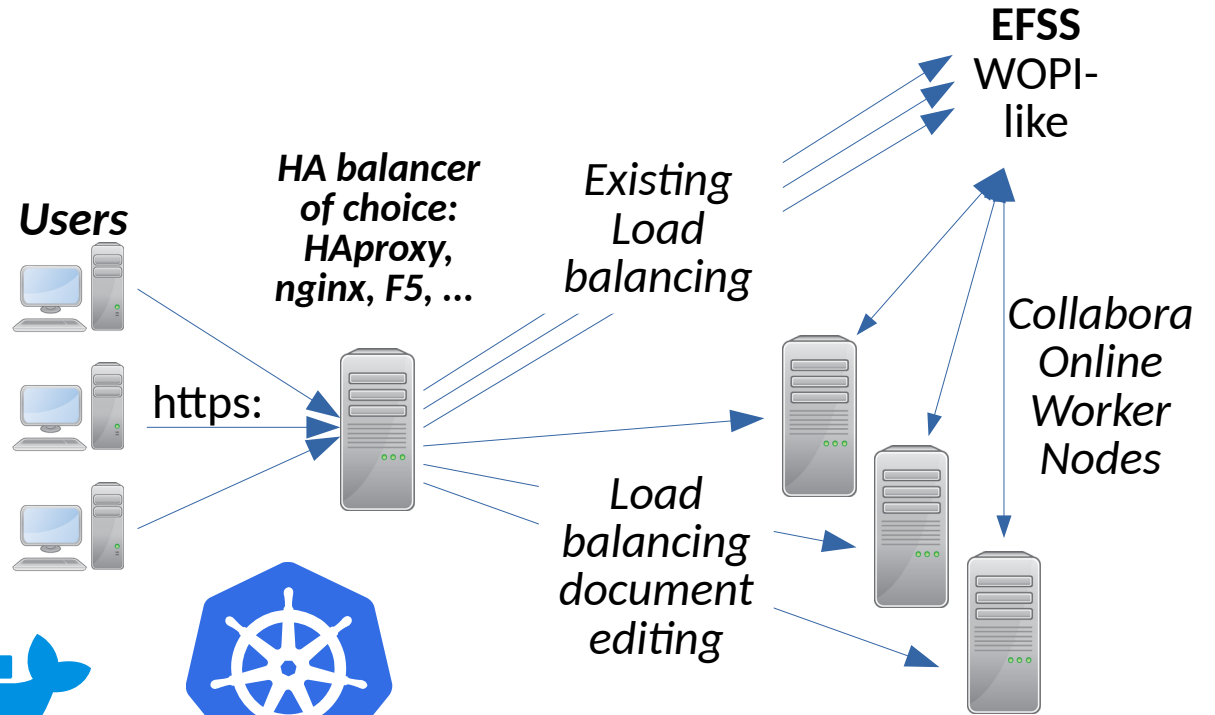
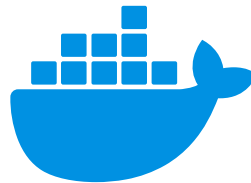
The screenshot shows the 'All files' section of the ownCloud Web interface. A plus sign button is clicked, opening a dropdown menu with the following options: Upload, Folder, Text file, Document, Spreadsheet, Presentation, and Diagram. The 'Diagram' option is highlighted, indicating the integration of diagram files into the file system.

Easy to deploy

High availability - clustered COOL

On the server

- High availability
- Server balancing
- Management (eg. Kubernetes)



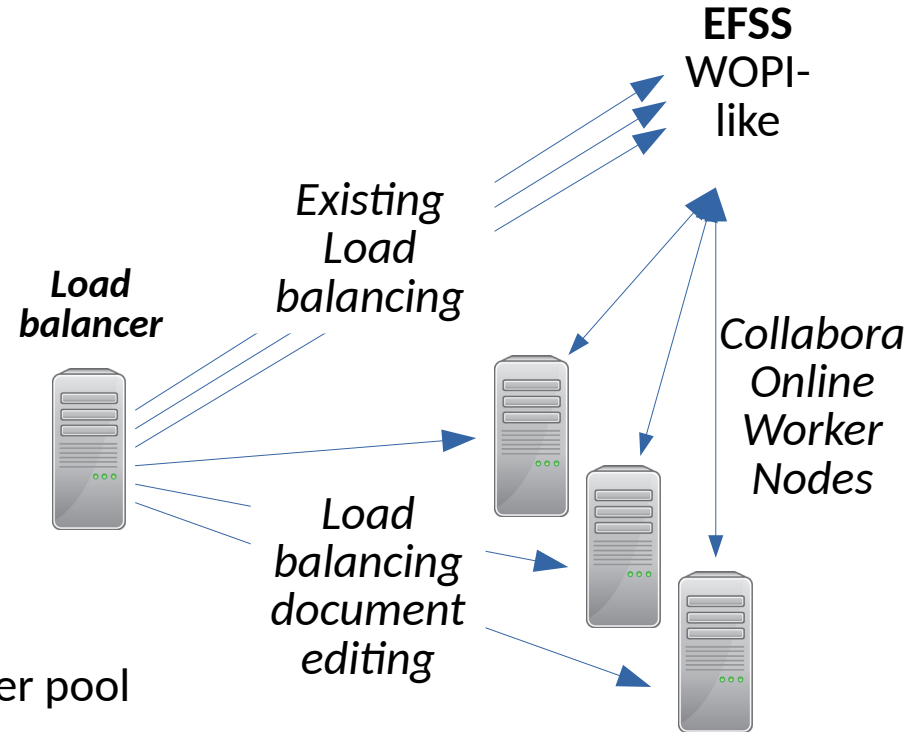
Incremental upgrade-ability ...

Simple: foreach (node)

- Remove one from the load balancer
- Either:
 - Wait for documents to expire
 - Or shut it down to evict users
 - Saving document state
 - Which is re-loaded on another node
- Upgrade node and re-insert into balancer pool

eg. SURF Drive - Dutch Academic network

- 59 institutes, 66,000 users – and 99.996% availability.



Demand scaling / Kubernetes ...

Example 1&1 ([cf. COOL-days talk](#))

- Kubernetes
 - Dynamic load scaling / balancing
- Office Viewer:
 - 100+ instances of COOL
 - 600k conversions / 24hrs
- Office Online Editor
 - 100+ instances of COOL
 - 35,000 edited docs / 24hrs
- 1&1 → huge European hoster: mail.com, gmx.de, web.de etc.
- IONOS / STRATO → also a partner.

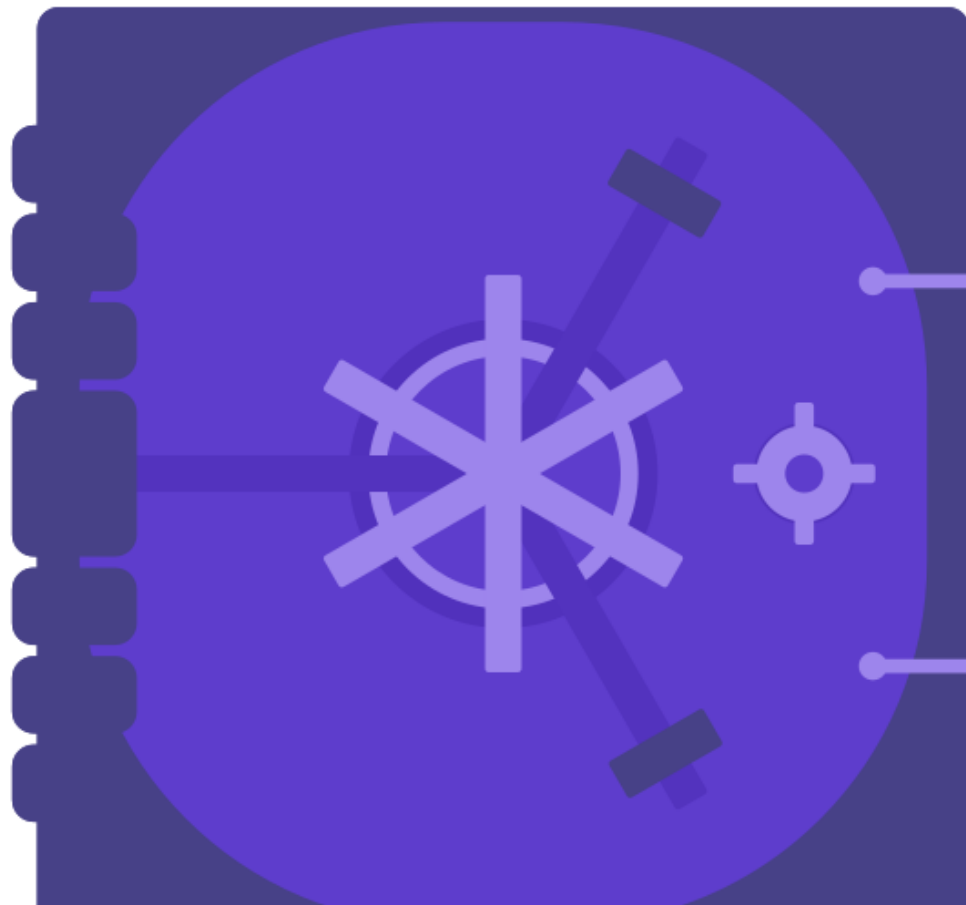


Distinctives

Things you don't get elsewhere

Digital Sovereignty: avoid the data-trap

don't let your document data out of your site [sic]



on your premise / Private network

Virtual machine / Docker container

Seccomp-bpf ~no sys-calls

Extremely sparse filesystem

Chroot per document

Systematic load crash testing

Industry beating coverity score

LibreOfficeKit

rendering instance

- Document data is held in your server room
 - GDPR / jurisdictional compliance par excellence.
- Not sent to every single device to be controlled by the browser + JS + local debugger.
- C'bra sends pixels to clients.

Simple: setup, pricing, support

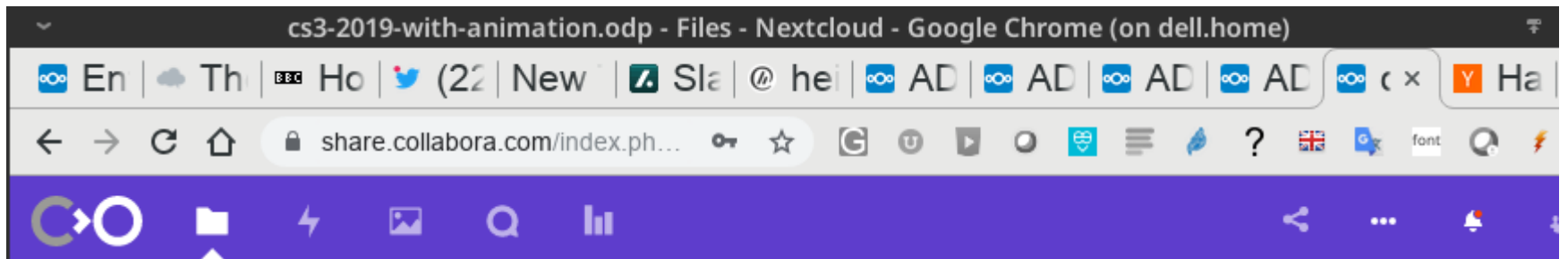
“Are you sure you only need a load-balancer for HA ?”

“Nothing to ask, followed the docs, easy to setup, if only all my problems were that easy”

As many servers & connections & VMs as you need

Dynamically scale your workloads with **Kubernetes**

Beware of the Window + Tabpocalypse: pay just once per user ...



COOL Days 2021 ... our first conference

Developers Day

COOL
days

Collabora Online



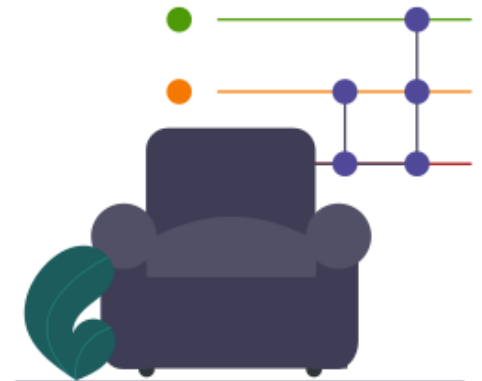
Hard-core community
& technical content

Latest business
insights, case-studies
& updates

Business Day

COOL
days

Collabora Online



Conclusions

Collabora Online – best of breed

- Free your documents and yourself
- Easy to setup, maintain & scale
- Secure architecture – easy to comply
- Rapid development & improvement
- Full feature Office + excellent interoperability
- Built by a large community on LibreOffice Technology
- Sensible support & development model



Thanks for listening Questions ?



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