

FOSDEM 2021

Collabora Online for your Documents

By Michael Meeks

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@mmeeks @CollaboraOffice



“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

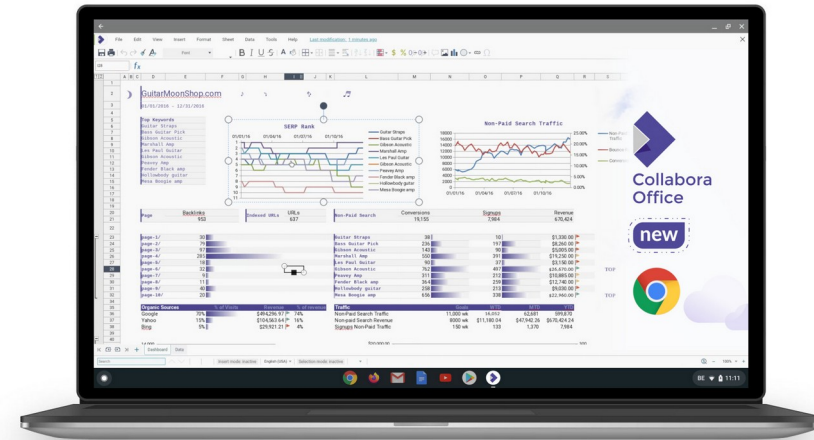
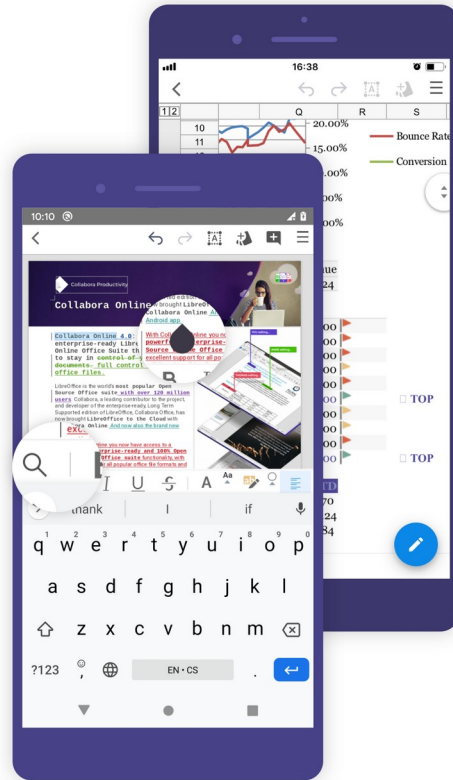
Collabora Online



Collabora Online

Built with awesome LibreOffice Technology

Rich, secure, interoperable collaborative documents, on-premise, cf. last year



Development: at pace
the last year



Quick try-out: built-in demo servers ...

Please make sure you understand that the following will happen if you set up the Collabora Online demo.

- The service will send users documents to Collabora and/or third party demo servers.
- This service is not intended for production use, hence the documents will show tile watermarks.
- The demo service may be under heavy load, and its performance is not representative in any way of the performance of an on-premise installation.
- These servers are used for testing and development, and may run test versions of the software. As such they may crash, burn, and re-start without warning.
- The users documents will not be retained by a third party after their session completes except in exceptional circumstances. By using the service, the user gives permission for Collabora engineers to exceptionally use such document data, solely for the purpose of providing, optimizing and improving Collabora Online. Such document data will remain confidential to Collabora and/or any third party providing a demo server.

At the first use and after an update, each user will get the warning, explaining all the above.

I agree, and use the demo server

I will setup my own server

Use a demo server

You can use a demo server provided by Collabora and other service providers.

Select a demo server

- Friprogramvarusyndikatet – Sweden**
- Collabora Productivity Ltd. – Ireland
- Collabora Productivity Ltd. – North California, USA
- Collabora Productivity Ltd. – Tokyo, Japan
- Collabora Productivity Ltd. – São Paulo, Brazil

Easy to test your new integration against



How does that work:

Get some JSON:

<https://www.collaboraoffice.com/demo-servers.json>

We filter that by URL
for services you
provide

```
demo-servers.json x Dazzling_CSS_Footer-part x code_notes_libre
1 { "servers": [
2   { "demo url": "https://demo.eu.collaboraonline.com",
7   { "demo url": "https://demo.YOURCOMPANY.com",
8     "provider name": "YOU",
9     "provider location": "..., ...",
10    "provider url": "https://www.yourcompany.com/"
11  },
12  { "demo url": "https://demo.ja.collaboraonline.com",
13    "provider name": "Collabora Productivity Ltd.",
14    "provider location": "Tokyo, Japan",
15    "provider url": "https://www.collaboraoffice.com/"
16  },
17  { "demo url": "https://demo.sa.collaboraonline.com",
18    "provider name": "Collabora Productivity Ltd.",
19    "provider location": "São Paulo, Brazil",
20    "provider url": "https://www.collaboraoffice.com/"
21  }
}]
```



Built-in demo servers: iff safe & route-able ...

● Use a demo server

You can use a demo server provided by Collabora and other service providers for giving Collabora Online a try.

Your NextCloud setup is not capable of connecting to the demo servers because:

- *it is a local setup (localhost)*
- *it uses an insecure protocol (http)*

For use cases like this, we offer instructions for a [Quick tryout with Nextcloud docker](#).



Better: Nextcloud Hub / AppImage install ...

A lovely, simple one-click install ...

- A small / fast PHP forwarding proxy & an AppImage
- Please upgrade to a faster, native server quickly ...

Use your own server

Collabora Online requires a separate server acting as a WOPI-like Client to provide editing ca

Use the built-in CODE - Collabora Online Development Edition

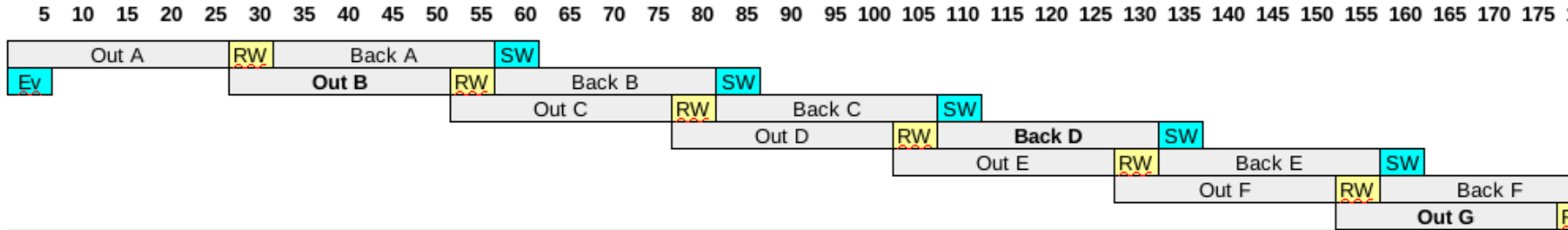
Easy to install, for personal use or for small teams. A bit slower than a standalone server and



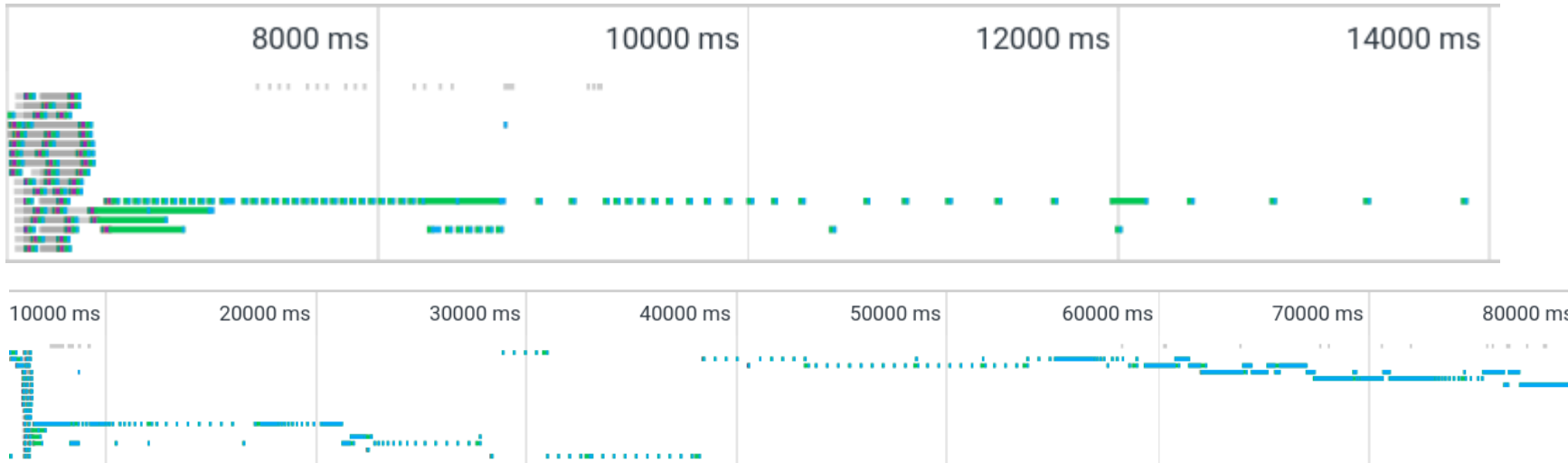
Polling websocket-alikes over keep-alive'd https://

Time / milliseconds

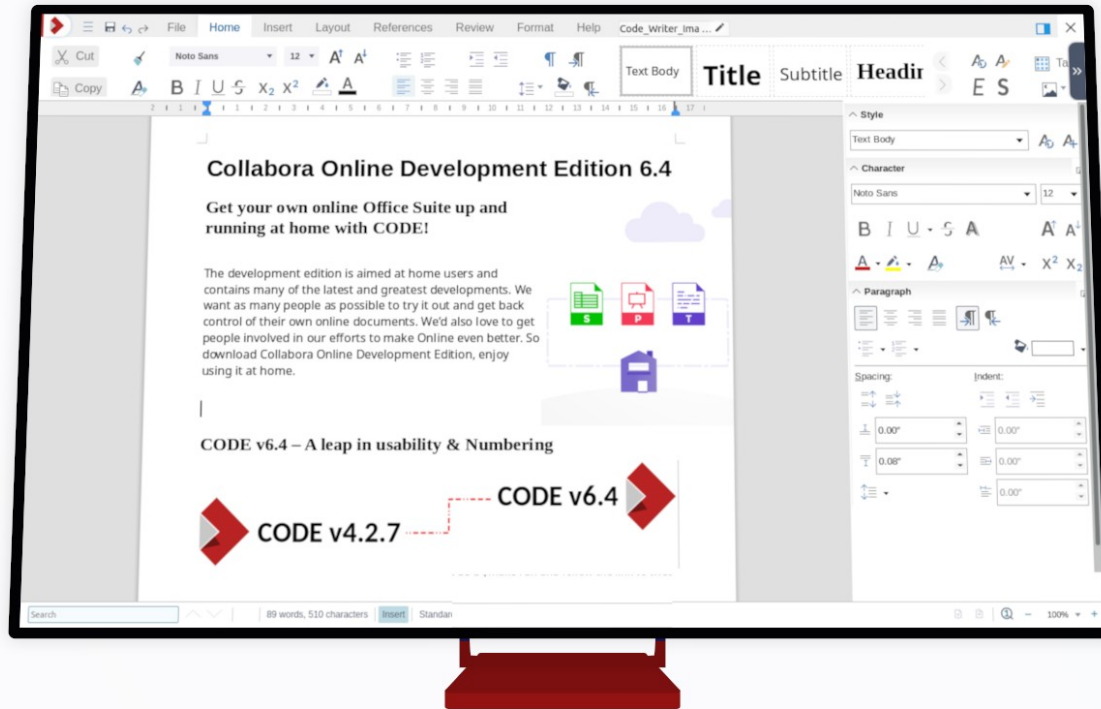
Notify to reply:



... worst case notify to reply latency ... 180ms (from 50ms ping)



Collabora Online 6.4.0 (Nov 20)



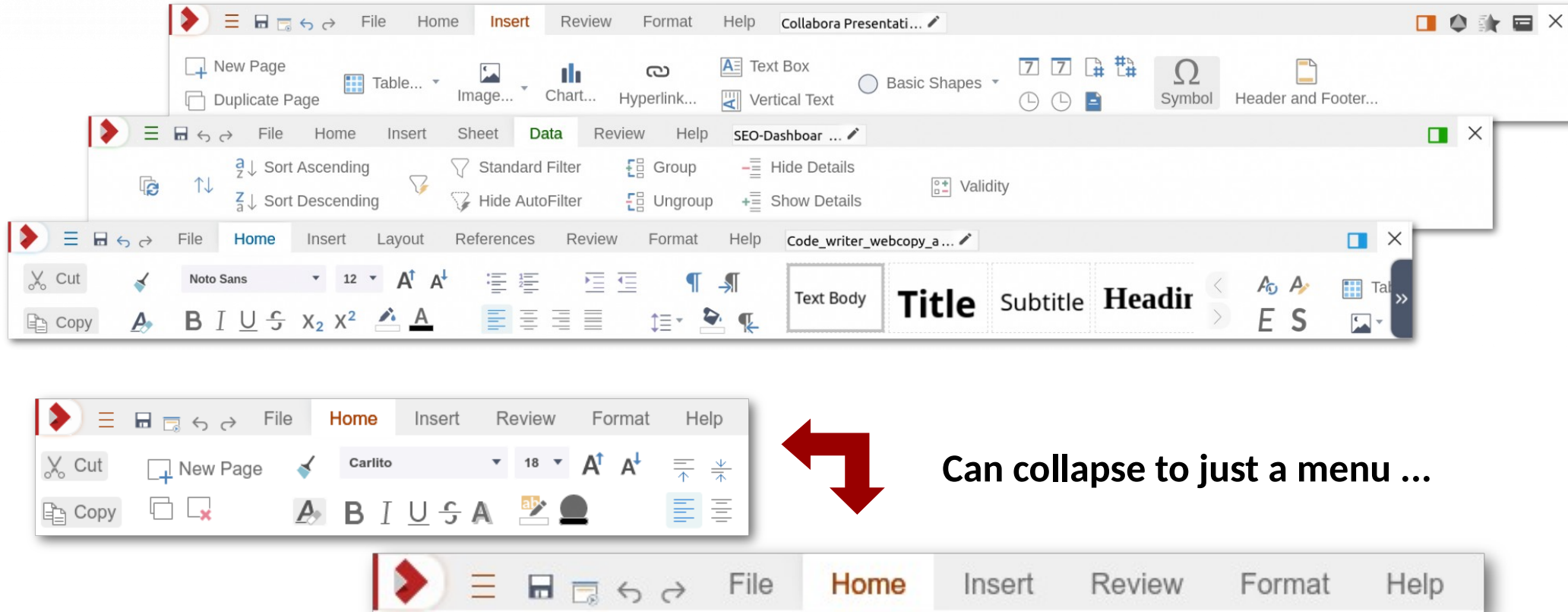


A version leap: cf. openSUSE





Eclectic Notebookbar UX choices: to taste



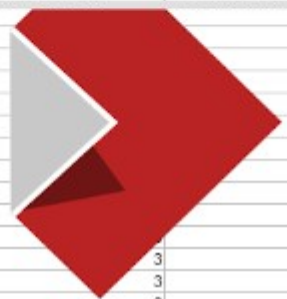


Classic mode retained: configurable & default ...

- Insert Rows Above
- Insert Columns Before
- Insert Row Break
- Delete Rows
- Remove Row Break
- Freeze First Column
- Insert Rows Below
- Insert Columns After
- Insert Column Break
- Delete Columns
- Remove Column Break
- Freeze Rows and Columns
- Freeze First Row

G34 fx Σ = 3

	A	E	F	G	H	I	J	K
1								
2								
3	Top Keywords							
4	Date	mp	Les Paul Guitar	Gibson Acoustic	Peavey Amp	Fender Black amp	Hollowbody guitar	Mesa Boogie amp
19	04/04/16	3		3	5		8	14
20	11/04/16	3		3	5		9	14
21	18/04/16	3		4	5		9	14
22	25/04/16	3		4	5		9	14
23	02/05/16	3		4	5		9	14
24	09/05/16	3		4	5		10	15
25	16/05/16	3		4	5		10	15
26	23/05/16	3		4	5		10	15
27	30/05/16	3		4	5		10	15
28	06/06/16	3		4	5		10	15
29	13/06/16	3		4	5		10	15
30	20/06/16	3		3	5		10	15
31	27/06/16	3		3	5		10	15
32	04/07/16	3		3	5		10	15
33	11/07/16	3		3	5		9	15
34	18/07/16	2		3	5		9	15
35	25/07/16	2		4	3		9	15
36	01/08/16	2		4	3		9	14
37	08/08/16	2		4	3		9	14
38	15/08/16	2		4	3		9	14
39	22/08/16	2		4	3		9	14
40	29/08/16	2		4	3		9	14
41	05/09/16	2		4	3		9	14
42	12/09/16	2		4	3		9	14
43	19/09/16	2		5	3		9	14
44	26/09/16	2		5	3		9	14
45	03/10/16	2		5	3		10	14
46	10/10/16	2		5	3		10	13
47	10/10/16	1		6	2		10	13
48								
49								
50								
51								



Style
Default

Character
Calibri 11

B I U S A A↑ A↓

Number Format
General 0.00

Decimal places: 0 Leading zeroes: 1

Negative numbers in red

Thousands separator

Alignment

Indent: 0 pt

Text orientation: 0°

Freeze Rows / NotebookBar / SmartArt

- Local Image...
- Image...
- Set Background Image...
- Comment**
- Chart...
- Hyperlink...
- Special Character...
- HeaderAndFooter



Marc
Wed, Aug 26, 2020

You can now add annotations to PDF Files in Collabora Online via the Comment function

PDF Search, Collaboration & Annotation

Import SmartArt Graphics in Collabora Online 6.4

- a •b •c
- X •y •z
- empty

Import SmartArt Graphics in Collabora Online 6.4

- a •b •c
- X •y •z
- empty

Slide

Format: User

Orientation: Landscape

Background: None

Master Slide: Title Slide

Master Background

Master Objects

Master View

Layouts

Online 6.4.x ...

rapid fire

incremental goodness

SEO-Dashboard.xlsx - Files - Nextcloud - Google Chrome (on dell.home)

share.collabora.com/index.php/apps/files/?dir=/ADemo&fileid=6...

File Home Insert Sheet Data Review Help SEO-Dashboard.xlsx

Callibri 11 A+ A

General

A H1 H2 +1 ±0 -2

fx Σ =

112 | A B C D E F G H I J K L M

1 | Guitar Shop | 01/01/2016 - 12/31/2016

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Page Indexed URLs Non-Paid Search

Organic Sources % of Visits Revenue % of revenue Traffic

Organic Sources	% of Visits	Revenue	% of revenue	Traffic
Google	70%	\$494,296.97	74%	Non-Paid Search Traffic
Yahoo	15%	\$104,563.64	16%	Non-paid Search Revenue
Bing	5%	\$29,921.21	4%	Signups Non-Paid Traffic

Chart Type: Line

3D Lines

Stack series

On top

Percent

Line type: Straight Properties...

Elements

Titles

Title

Edit Chart Titles & Sub titles

Subtitle

Directly in the side-bar

Legend

Show legend

Placement: Right

Axes

X axis X axis title

Y axis Y axis title

Dashboard Data

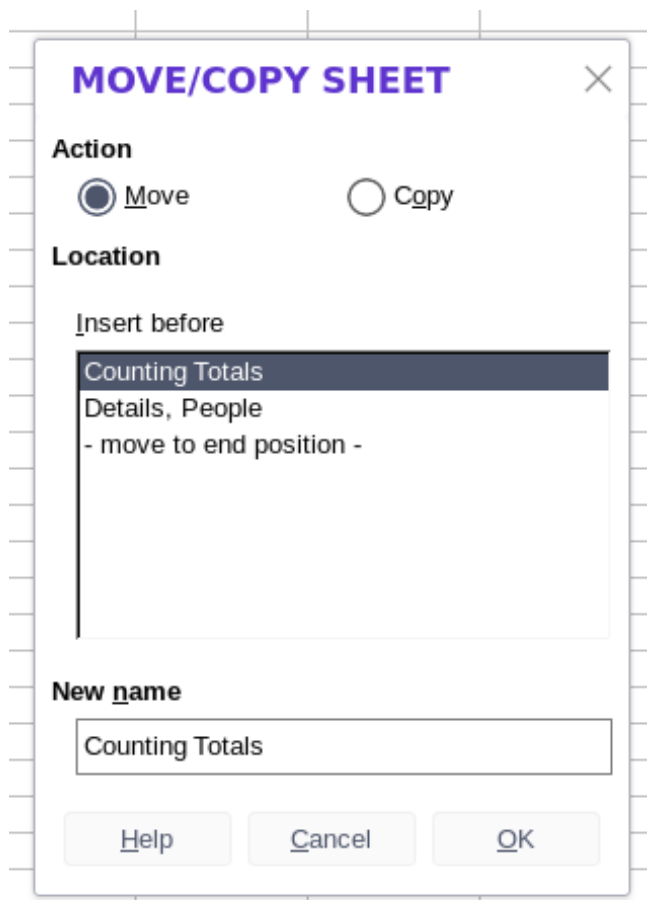
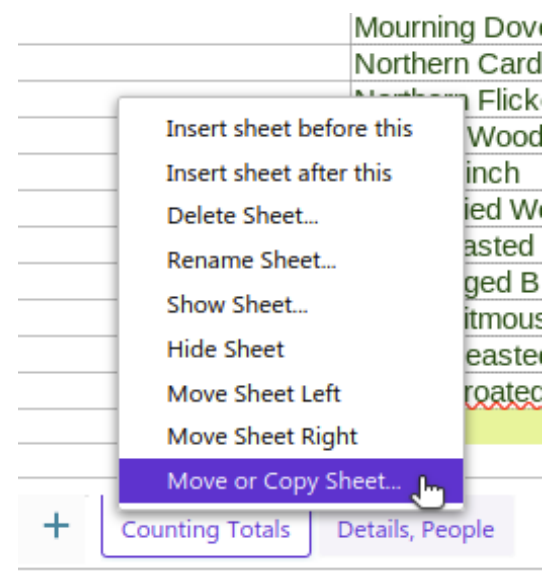
Select multiple cells Insert mode: inactive English (USA) Selection mode: inactive

100%

Improved chart editing sidebar functionality



Calc: Improved sheet movement:





Calc: customize & create Pivot Tables

SELECT SOURCE [X]

Current selection

Named range:

Help

PIVOT TABLE LAYOUT [X]

FILTERS: Country

COLUMN FIELDS: Data

ROW FIELDS: Country

DATA FIELDS: Sum - Apple & Pear Trees

AVAILABLE FIELDS: Country, Size, Orchards count, Apple & Pear Trees, Peach & Apricot Trees, Olive Trees

DRAG THE ITEMS INTO THE DESIRED POSITION

> Options

> Source and Destination

Help Cancel OK

PIVOT TABLE LAYOUT [X]

FILTERS: Country

COLUMN FIELDS: Data

ROW FIELDS: Country

DATA FIELDS: Sum - Apple & Pear Trees

AVAILABLE FIELDS: Country, Size, Orchards count, Apple & Pear Trees, Peach & Apricot Trees, Olive Trees

DRAG THE ITEMS INTO THE DESIRED POSITION

> Options

▼ Source and Destination

SOURCE

Named range

Selection

DESTINATION

New sheet

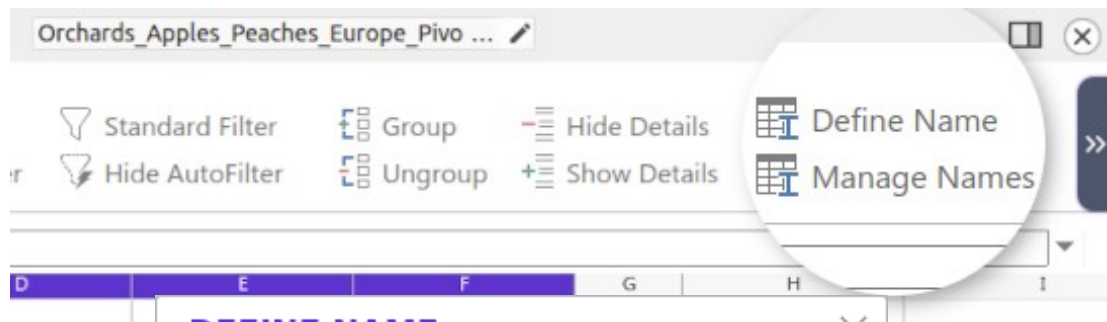
Named range

Selection

Help Cancel OK



Calc: define & manage range names & print ranges



DEFINE NAME

DEFINE THE NAME AND RANGE OR FORMULA EXPRESSION.

NAME:

RANGE OR FORMULA EXPRESSION:

SCOPE:

> Range Options

MANAGE NAMES

Name	Range or formula expression	Scope
Apples	'Sorted Data'.\$E\$4:\$E\$19	Document (Global)
Orchards	'Sorted Data'.\$B\$39	Document (Global)
Peaches	'Sorted Data'.\$F\$4:\$F\$22	Document (Global)

NAME:

RANGE OR FORMULA EXPRESSION:

SCOPE:

> Range Options



Calc: Statistical tools for data analysis

File Home Insert Sheet Data Review Help Orchards_Apples_Peaches_Europe_PivotTable (...)

Refresh Pivot Table Sort Ascending AutoFilter Standard Filter Group Hide Details Define Name
Delete Pivot Table Sort Descending Advanced Filter Hide AutoFilter Ungroup Show Details Manage Names Validity Statistics

B3:G75 fx Σ ν $=$

	A	B	C	D	E	F	G	H	I	J	K	L	M	N
1									Size	- all -				
2										Data				
3		Country	Size	Orchards count	Apple & Pear Trees	Peach & Apricot Tree	Olive Trees		Country	Som - Apple & Pear				
4		Austria	M	2,344.80	3,837.32	214.90			Austria		7,674.00			
5		Austria	L	2,655.50	3,069.85	429.80			Belgium		5,788.59	2,795.63		
6		Belgium	S	2,208.49	1,736.58	838.69					4,957.00			
7		Belgium	M	9,587.01	2,315.44						4,459.00			
8		Belgium	L	2,934.50	1,736.58						376.76			
9		Belgium	S	6,918.00	495.80						7,818.60			
10		Bulgaria	M	4,518.49	991.60						1,254.00			
11		Bulgaria	L	3,500.76	3,470.59						38,298.00			
12		Bulgaria	S	14,518.60	891.82						28,260.96			15,345.23
13		Croatia	M	6,318.49	2,229.54						9,377.35	73,175.58		670,679.36
14		Croatia	L	2,354.64	1,337.72						25,044.00			
15		Cyprus	S	11,007.59	75.35						55,809.00	2,298.62		1,070,833.53
16		Cyprus	M	1,518.49	113.03						3,191.10			
17		Cyprus	L	1,550.55	188.38						1,511.60			
18		Czechia	S	4,578.88	1,563.72						6,949.00			
19		Czechia	M	3,955.49	4,691.16						10,843.80	2,497.59		
20		Czechia	L	1,306.54	1,563.72						11,306.18	1,845.55		300,415.17
21		Denmark	S	918.92	125.50						55,050.00			
22		Denmark	M	500.65	376.49						25,261.00			
23		Denmark	L	207.95	752.99						2,321.44			
24		France	S	39,522.80	11,489.49						2,355.44			1,241.99
25		France	M	31,580.03	22,978.98						23,222.00	590.89		2,505,786.06
26		France	L	14,074.47	3,829.83						1,655.00			
27		France	S	9,901.44	8,478.29						5,743.08			
28		Germany	M	15,698.11	14,130.48						488,552.00	153,051.72		4,592,102.58
29		Germany	L	10,518.29	5,652.19									
30		Germany	S	549,528.32	2,813.21									
31		Greece	M	132,518.22	2,813.21	14,635.12	201,203.81							
32		Greece	L	79,220.36	3,750.94	36,587.79	402,407.62							
33		Hungary	S	23,221.55	5,008.80									
34		Hungary	M	5,539.26	5,008.80									
35		Hungary	L	7,530.67	15,026.41									
36		Italy	S	873,425.28	11,161.98	59.76	107,083.35							
37		Italy	M	294,518.49	16,742.97	59.76	535,416.77							
38		Italy	L											

ANALYSIS OF VARIANCE (ANOVA)

DATA

INPUT RANGE:

RESULTS TO:

TYPE

Single factor Two factor

GROUPED BY

Columns Rows

PARAMETERS

ALPHA:

ROWS PER SAMPLE:

Help Cancel OK

Sampling

Descriptive Statistics

Analysis of Variance (ANOVA)

Correlation

Covariance

Exponential Smoothing

Moving Average

Regression

Paired t-test

F-test

Z-test



The pieces you can't see

Performance

- 20%+ faster rendering time
- Faster interactive editing of cells
- Bind-mounting of document jails (instead of hard-linking)
- Improved watermark caching
- Slide content pre-fetching
- On-demand slide thumbnail fetching.
- Significant PDF rendering improvements
- Significant thumbnail / download speedups

Misc

- iOS multi-document support
- Substantial cypress automated test coverage.
- Cluster debugging / warnings ... check matching ServerIds

And much much more ...

- 3600+ commits.
- Innumerable bug-fixes & improvements

Mobile 6.4.x ...

bringing goodness to your phone

16.19 Wed 25. Nov example-timeline 2.ods

File Home Insert View Help

Cut Copy Format Page... Sheet

AB22

4 week project timeline | 11/11/20

	week 1 nov					week 2 nov					week 3 nov				week 4 dec		week 4 dec																	
EMPLOYEE	thu 46	fri 13	sat 14	sun 15	mon 16	tue 17	wed 18	thu 19	fri 20	sat 21	sun 22	mon 23	tue 24	wed 25	thu 26	fri 27	sat 28	sun 29	mon 30	tue 1	wed 2	thu 3	fri 4	sat 5	sun 6	mon 7								
kai	research rainforest																																	
luka						collect supplies for presentation																												
jenny											complete sketches																							
ari																draft presentation																		
luka																															finalize presentation			

Employee	Progress (%)
kai	100.00%
luka	100.00%
jenny	75.00%

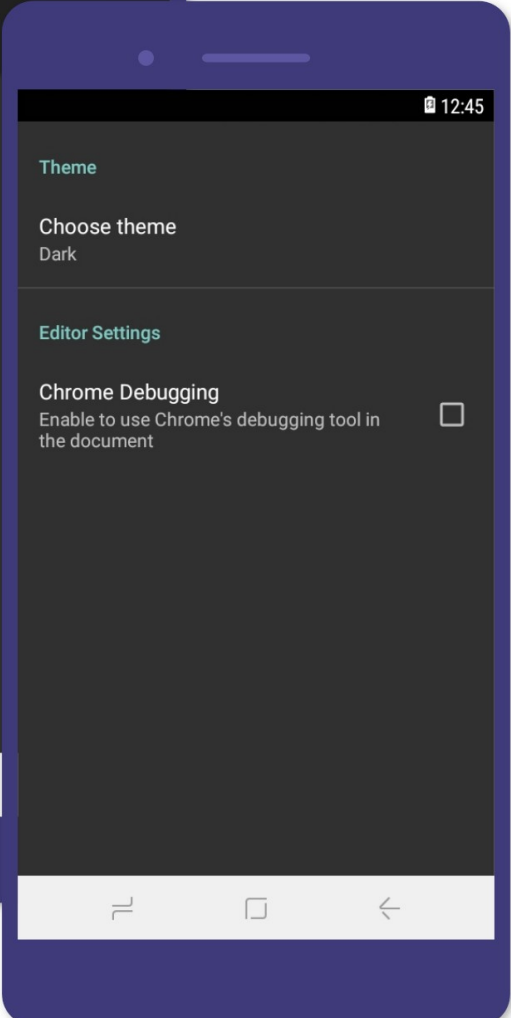
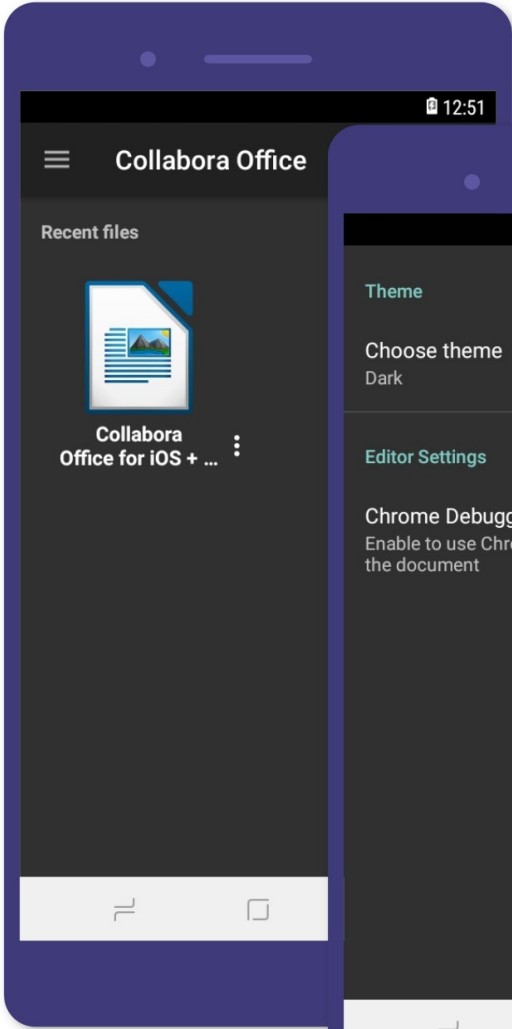
Project Timeline

Search Sheet 1 of 1 Select multiple cells English (USA)

collabo



Android: start of a Dark Mode for the Online shell.



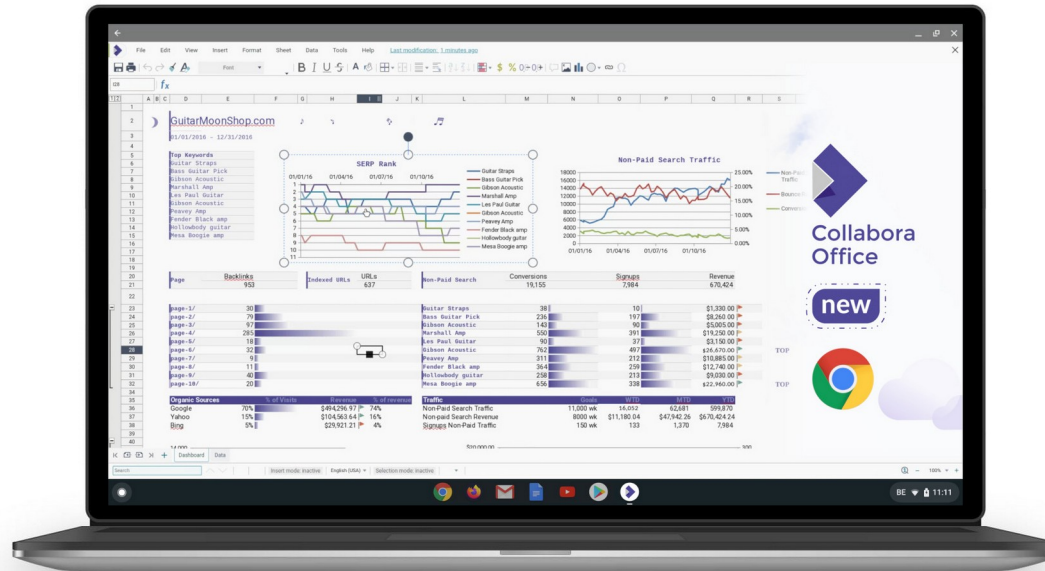


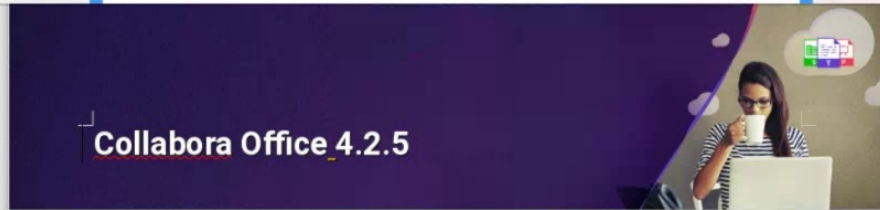
**500k
installs**



Available for iOS, Android & Chrome OS

ChromeBooks:





Collabora Office 4.2.5

Collabora Office 4.2.5: the enterprise-ready LibreOffice-based Mobile Office Suite that allows you to stay in control of your own documents. 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 now brought LibreOffice to the Cloud with Collabora Online already back in 2016 - and is still doing most of the work - e.g. 97% of commits if from Collabora.

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 a perpetual license, annual subscription to security maintenance and updates, an SLA, and Level 3 (code fix) support (other levels are provided by our partners). And there are more benefits:

YOU editing...

COLUMNS

Settings

Columns: 

Apply to: Page Style: Default Style

Width and Spacing

Column:

Width:

Spacing:

AutoWidth

Separator Line

Style: None Height: 100% Color: Black

Width: 0.25 pt Position: Top

UX integration:


*Letting you dress your
your integration to match
(cf. blog)*



Getting style guide: a how-to ...


Documents

Document types



Loading...

Options



Colours

Neutral colours

#000000	#4d4d4d	#b3b3b3	#FFFFFF
---------	---------	---------	---------

Accent colours

#4c566a	#4d82b8	#0b67e7
---------	---------	---------

Colour-coded tools

#88c0d0	#a19cc8	#b7b84d
---------	---------	---------

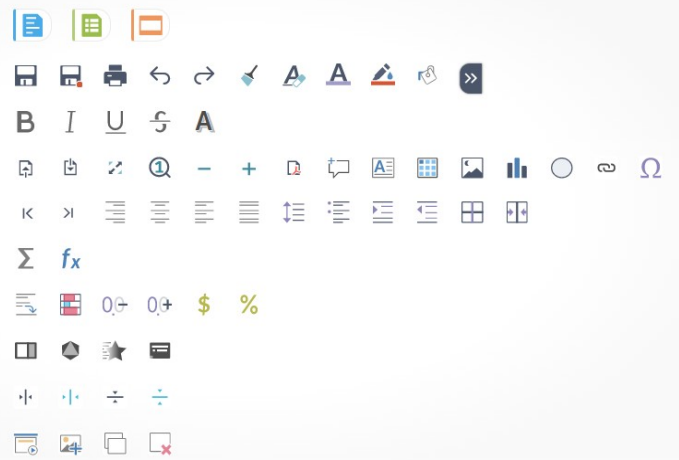
Typography

Sans-serif

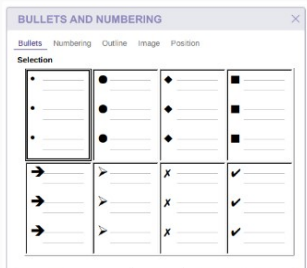
Sans-serif fonts with a variety of weights for each purpose.

Aa Bb Ww	a	abcdefghijklm
Aa Bb Ww	a	nopqrstuvwxyz

Iconography



Dialog Windows





ui_defaults: posted with the iframe:

```
<input name="ui_defaults" value="TextRuler=false;StatusBar=false" type="hidden"/>
```

‘;’ delimited options in a post field.

uiMode=classic/notebookbar – **select menu/toolbars**

StatusBar=false – **hide status bar**

TextStatusBar=false – **hide status bar only for Text**

other prefixes: Presentation/Spreadsheet

Sidebar=false – **hide sidebar by default**

Ruler=false – **hide ruler by default ... etc.**

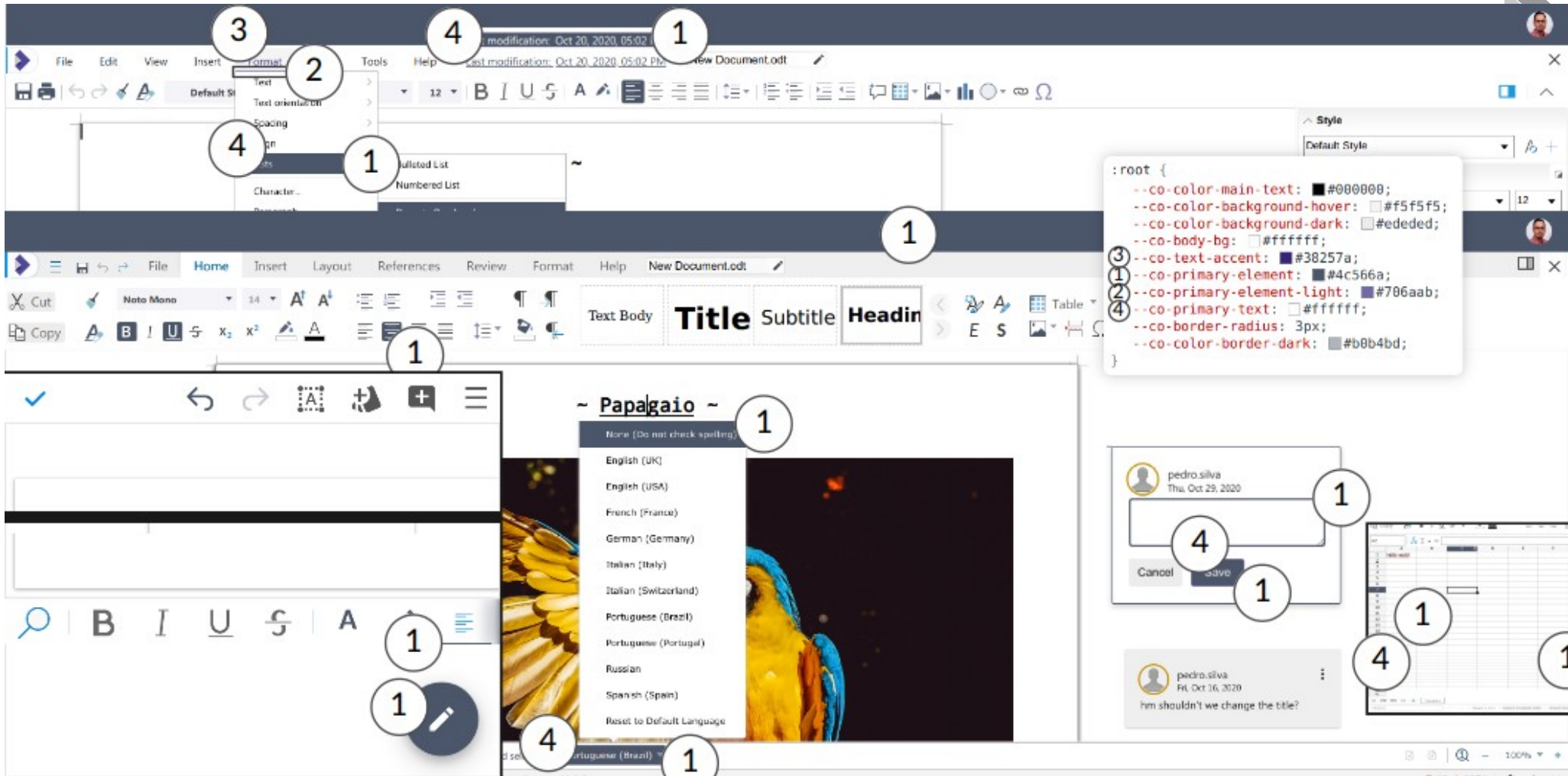


css_variables: posted with the iframe:

```
<input name="css_variables" value="co-color-main-text=#000;--co-body-bg=#FFF--co-txt-accent=#38257a;" type="hidden"/>
```

‘;’ delimited options in a post field, default (for now) are:

```
--co-primary-element: #4c566a  
--co-primary-element-light: #706aab  
--co-txt-accent: #38257a  
--co-primary-text: #ffffff  
--co-border-radius: 3px  
--co-body-bg: #ffffff  
--co-color-main-text: #000000
```



File Edit View Insert Format Table Tools Help *Last modification: Oct 20, 2020, 05:02 PM* New Document.odt

Heading 1 Noto Mono 18.2 B I U S A

~ Papagaio ~



INSERT TABLE

General
Name: Table1
Columns: 2 Rows: 2

Options
 Heading
 Repeat heading rows on new pages
Heading rows: 1
 Don't split table over pages

Help Cancel Insert

pedro silva
Fri, Oct 16, 2020
hm shouldn't we change the title?

File Edit View Insert **Format** Table Tools Help *Last modification: Oct 20, 2020, 05:02 PM* New Document.odt

Text
Text orientation
Left-To-Right
Right-To-Left

Spacing
Align
Lists
Character..
Paragraph..
Bullets and Numbering..
Page..
Sections..
Title Page..
Position and Size..
Line..

↳ Papagaio ~



Style
Heading 1

Character
Noto Mono 18.2

B I U S A

Paragraph

Before:

Collabora Online.odt - Files - Nextcloud - Mozilla Firefox

localhost/nextcloud/index.php/apps/files/?dir=/Documents&fileid...

File Edit View Insert Format Table Tools Help Last modification: 7 minutes ago Collabora Onlin ...

Save
Save As...
Share...
Print...
See revision history
Download as >

Collabora Online

Welcome to the Collabora Online Demo

Thank you for your interest in the Collabora Online demo. Collabora Online is an open source on-premise office suite solution based on LibreOffice Online. It enables you to collaboratively edit, save and write text files, spreadsheets and presentations online. Collabora Online works on any modern browser and offers excellent interoperability for all popular office formats.

There are two versions of Collabora Online. The scale-able and supported enterprise-ready [Collabora Online](#) and [CODE](#) — the Collabora Online Developers Edition. While Collabora Online is aimed at professional business users, CODE is perfect for home users that want to start to run their online office suite in an own private environment or tech-enthusiast, that want to be among the first to see and test new features. Learn more about the differences [here](#).

One more thing before you start! This demo runs on our servers and grants you access to the latest snapshot from



After: theming / palette & settings ...


Collabora Online.odt - Files - Nextcloud - Mozilla Firefox

localhost/nextcloud/index.php/apps/files/?dir=/Documents&fileid... Vyhledat

File Edit View Insert Format Table Tools Help Last modification: 1 minutes ago Collabora Onlin ...

- Save
- Save As...
- Share...
- Print...
- See revision history
- Download as

Nextcloud highlight colors



Collabora Online

Welcome to the Collabora Online Demo

Thank you for your interest in the Collabora Online demo. Collabora Online is an open source on-premise office suite solution based on LibreOffice Online. It enables you to collaboratively edit, save and write text files, spreadsheets and presentations online. Collabora Online works on any modern browser and offers excellent interoperability for all popular office formats.

There are two versions of Collabora Online. The scale-able and supported enterprise-ready [Collabora Online](#) and [CODE](#) — the Collabora Online Developers Edition. While Collabora Online is aimed at professional business users, CODE is perfect for home users that want to start to run their online office suite in an own private environment or tech-enthusiast, that want to be among the first to see and test new features. Learn more about the differences [here](#).

Ruler off by default

Sidebar was here ...

Lighter document background

Next ...

more rapid fire

incremental goodness



Roadmap – for partners & customers

All our code development done in public

- <https://collaboraonline.github.io/>
- <https://github.com/CollaboraOnline/online>
- <https://forum.collaboraonline.com/>
 - Minutes of our (public) weekly calls – get involved ...

Some bits in-progress:

- Canvas based front-end re-work: slicker & crisper
- JS dialog / sidebar rendering ... → client-side chrome
- Async auto-saving



Your integration ...

The screenshot shows a Moodle interface for an "Assignment Essay". The page displays the following information:

- 1149 words
- 5 pages
- MLA

The document name is "assignment-1.docx".

The background shows a Microsoft Word document with the "References" tab selected. The ribbon includes options for Index Entry, Update Index, Endnote, Footnotes and Endnotes, Bookmark, Caption, More Fields, and Update All. The status bar at the bottom of the Word window shows page numbers from 2 to 18.

At the bottom of the image, the text "CO" is visible on the left side, and the start of a paragraph is shown: "For twelve year old Alice, who has struggled in math, there are many perspectives from the lens of Developmental Psychology. Alice initially struggled in math despite her continued".

Collabora and LibreOffice



An awesome community of friends.

(who still disagree sometimes)

Online commmits

By affiliation (last year)

Collabora



5 | Others
15 | CIB
21 | 1&1
28 | Volunteers

Over 50m

pulls from

CODE

Collabora Online

Development Edition

docker image



Moving our development to github

Clear brand story

- Helps to drive investment and avoid user / customer confusion
- Unwinds long running source of conflict at TDF

Removing reminder for users

- CODE no longer needs a warning on limits.

Access to more developers

Continue to support, work on LibreOffice

Similar to Nextcloud/ownCloud/pydio/seafiler/etc.

- A clear flow of users through their projects
- An obvious place for support
- Clear credit given in the product name
- No complex structures necessary.

FLOSS company assets: cash + their brands

- ROI is important → in marketing.



Making Open Source ROCK



Thank you!

By Michael Meeks

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**Open Source,
Open First**

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