

Neues von Collabora Office und Collabora Online

Thorsten Behrens
Collabora Productivity



Collabora
Office



Agenda

- Herausforderung souveräne Digitalität
- Wie hilft Collabora Office dabei?
- Neues aus dem Projekt
- Ein paar Ausblicke & Beispiele für erfolgreiche Migrationen

Was tun wir hier & warum?

Der geopolitische Umbruch

- strategische Entkopplung von den USA
 -  machtpolitische Entwicklungen
 - Extraterritoriales Enforcement als reale Gefahr
- auf EU-Ebene:
 -  EuroStack & aktive Förderung von MS365/Google Workspace-Alternativen
 - Deutschland & Frankreich mit eigenen Initiativen & Investments

Der Markt im Umbruch

Neue Fragen bei Softwarebeschaffung

- Bedenken zur Datensouveränität
- Softwarelizenzkosten, die in den letzten Jahren drastisch gestiegen sind
- Risiken durch Vendor Lock-in
- Wachsende Verbreitung offener Ökosysteme



Die Herausforderung Souveränität

- Kontrolle über sensible Informationen
- Einhaltung lokaler Vorschriften
- Abhängigkeit von ausländischen Cloud-Anbietern



Offene Standards & OpenSource

„Digitale Souveränität heißt nicht, alles zu besitzen. Sie heißt sicherzustellen, dass uns nichts Wesentliches weggenommen werden kann.“

Roberto Di Cosmo



ODF: der offene Dokumentstandard

- herstellerunabhängig
- royalty free
- öffentliche Spec
- offene Prozesse



Open Source als zweite Säule

- Transparenz
- Unabhängigkeit von Anbietern
- Nachhaltigkeit & Effizienz
- globales, resilientes Ökosystem



Weshalb Organisationen ihre Office-Plattform überdenken

Collabora Office

- Vollständig selbst gehostet
- Läuft in der Private Cloud oder im eigenen Rechenzentrum
- Integriert sich in bestehende Infrastruktur
- Volle Kontrolle über Daten und Updates



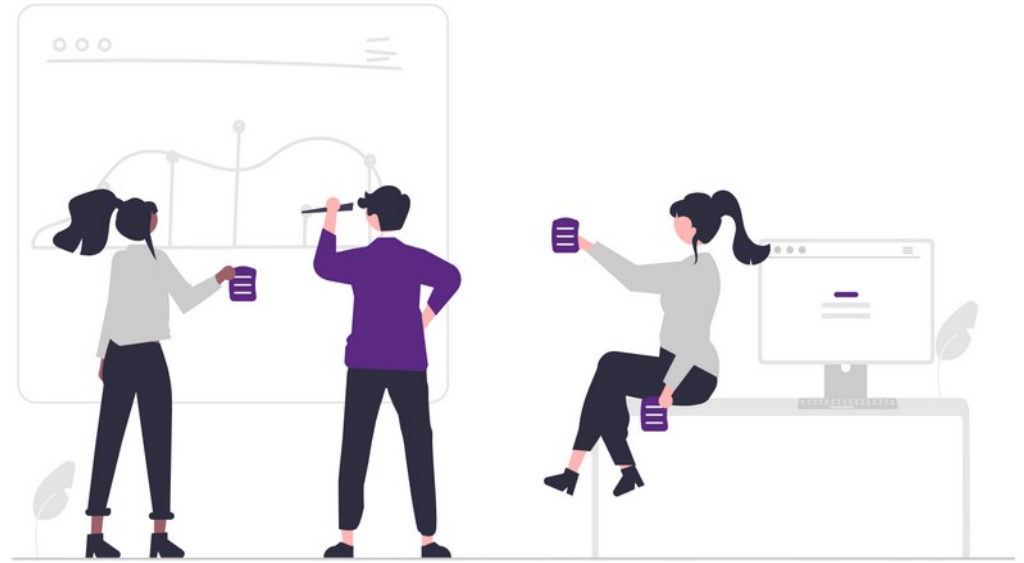
Collabora Office

- Transparentes Abomodell
- Keine erzwungenen Ökosystem-Pakete oder Softwarebundles
- Flexible Bereitstellung
- Optimiert für große Umgebungen



Collabora Office

- Support auf Enterprise-Niveau
- Professionelle Entwicklung und Roadmap
- Mitentwicklung von offenen Standards (ODF)



Unsere Mission

„Open Source zum
De-facto-
Standard
der Branche
machen“

“Make Open
Source Rock”

*(und dabei ein
nachhaltiges, wachsendes
Unternehmen sein)*



Neues von Collabora Office

**Noch so eine Geschmacksfrage:
Desktop oder Browser?**

“Browser oder Desktop-Anwendung – das ist hier die Frage.”

— Shakespeare, gerade in einer Cloud-Migration

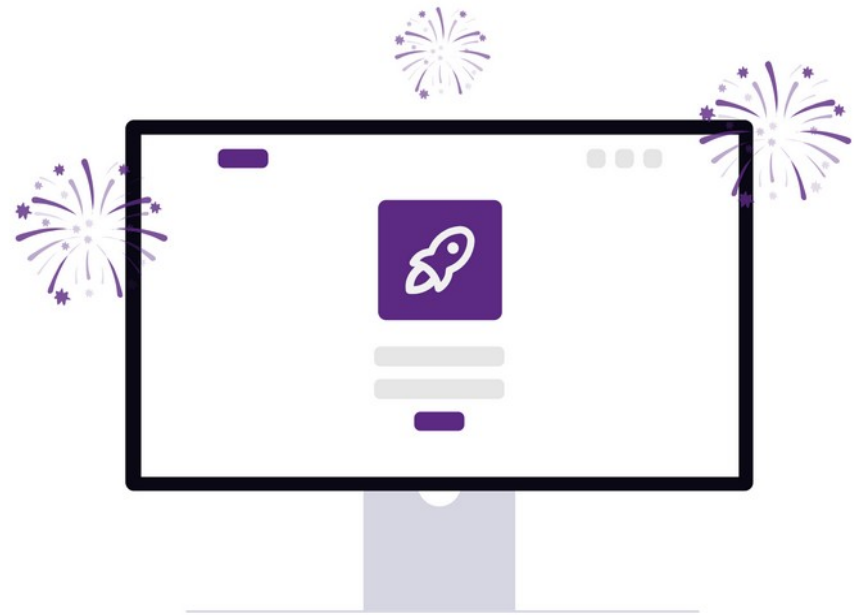
Das Web hat gewonnen. Oder etwa nicht?

- Web = unglaubliche Vorteile bei der Bereitstellung
- Desktop = weiterhin bewährt, leistungsstark und gefragt
- Die eigentliche Frage:
 - was ist grundsätzlich besser?
 - Oder stellen wir die falsche Frage?



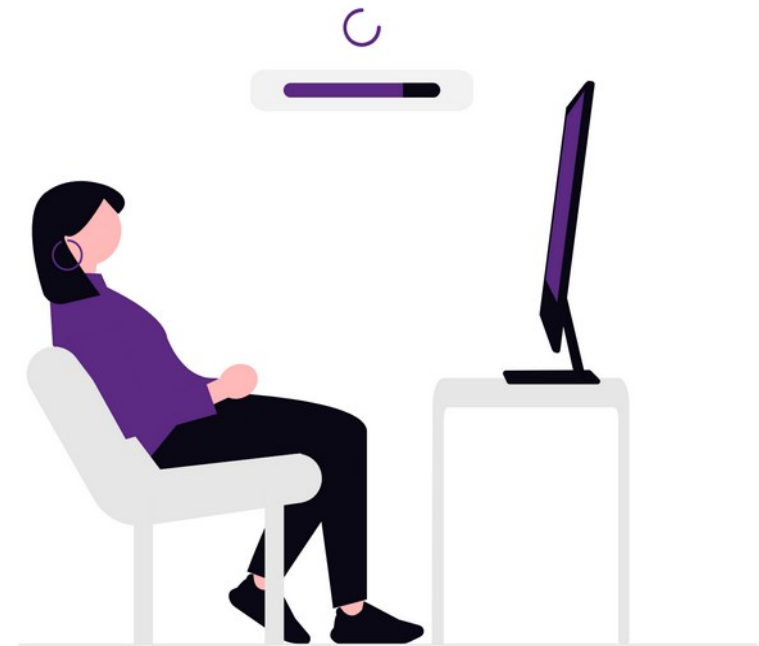
Warum das Web so überzeugend ist

- Keine Installation erforderlich / direkte Updates
- Zentralisierte Sicherheit und Kontrolle
- Einfache Zusammenarbeit
- Geringere Betriebskosten



Die versteckten Nachteile?

- Offline oder schlechte Verbindungen (Züge, Flugzeuge, Außendienst)
- Datenlokalität und -vertrauen
- Leistungsgrenzen
- Integration mit Betriebssystemen & Geräten
- Nutzererwartungen
 - “Warum kann ich nicht einfach ...?”



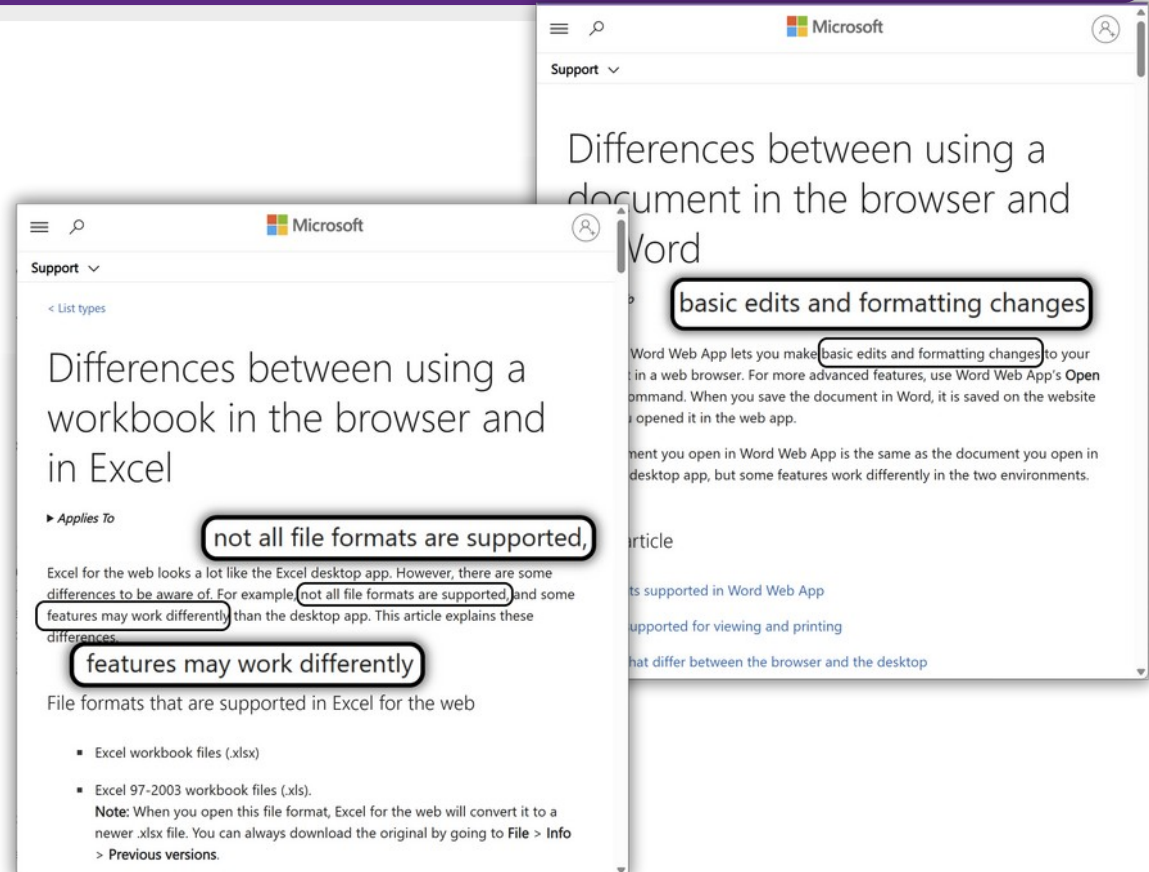
Der Desktop ist nicht tot (aber er hat sich verändert)

- Offline-first Szenarien
- Sensible oder vertrauliche Umgebungen
- Große oder wichtige Dokumente
- Leistung und Hardwarezugriff
- Nutzervertrauen und -vertrautheit



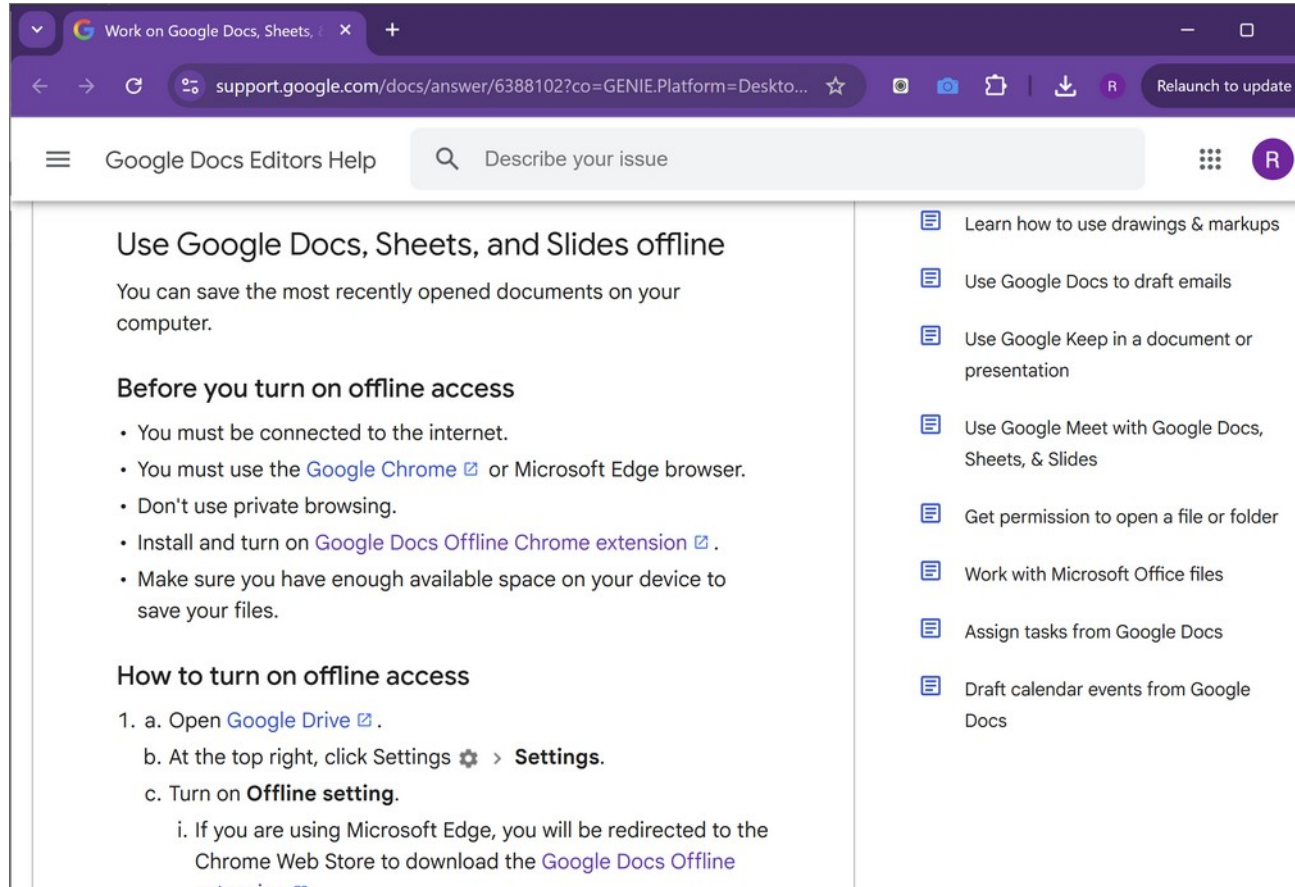
„Lösung“ der Softwareindustrie, v1.0

- Separate Web-App + Desktop-App
 - Desktop: alle Funktionen
 - Browser: für die Zusammenarbeit
- „Warum ist meine Tabellenkalkulation kaputt?!“



„Lösung“ der Softwareindustrie, v2.0

- „Desktop“ eher als Viewer
 - Anwendung funktioniert nur im Browser
 - Eingeschränkte Arbeitsabläufe



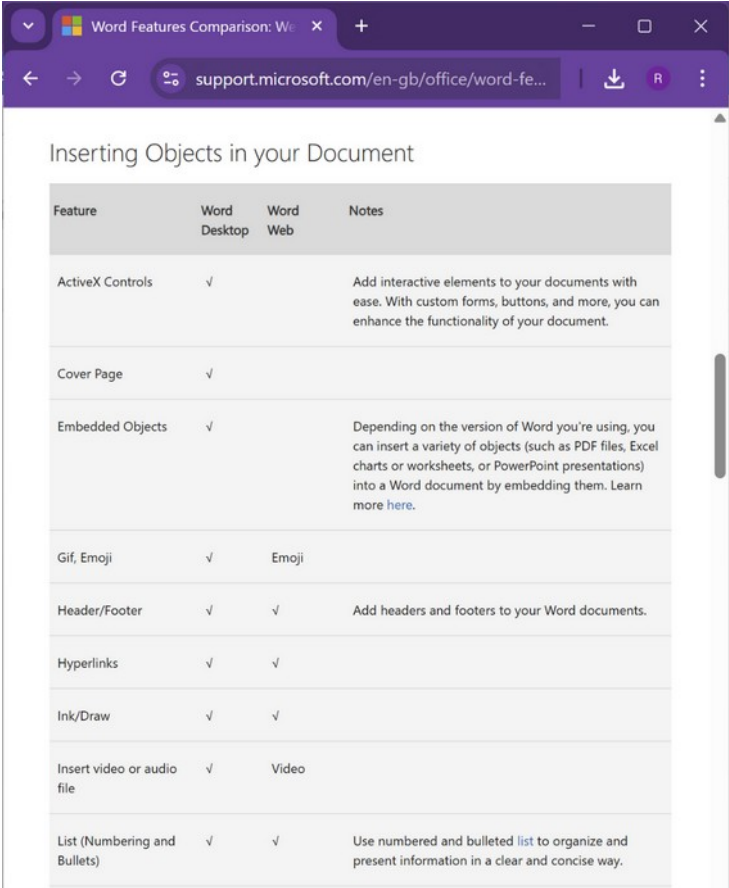
„Lösung“ der Softwareindustrie, v3.0

- Electron-Wrapper
- Ein Browser, der sich als Desktop-Anwendung ausgibt
 - Gleiche Einschränkungen
 - Hoher Speicherbedarf
 - Schlechte Betriebssystemintegration
 - z. B. Drucker oder Zwischenablage...



Das Problem?

- Anfangs sind Web- und Desktop-Versionen noch „gleichwertig“
- Im Laufe der Zeit:
 - Funktionen erscheinen zuerst in der einen Version
 - Und kommen manchmal nie in der anderen an
- Die Dokumentation wird vage:
 - „In einigen Versionen verfügbar“



Word Features Comparison: We x +

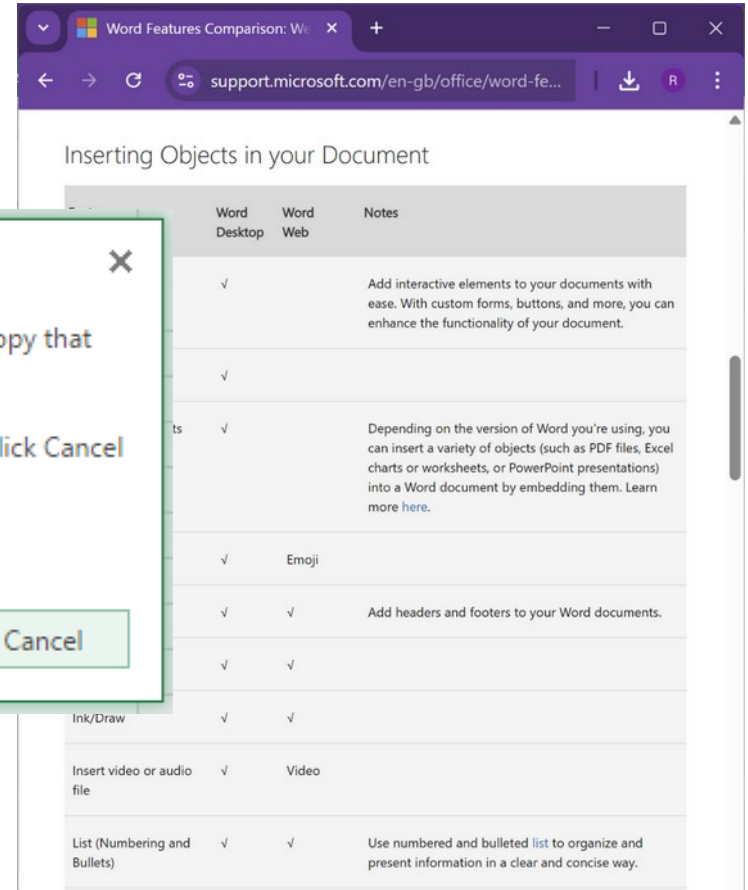
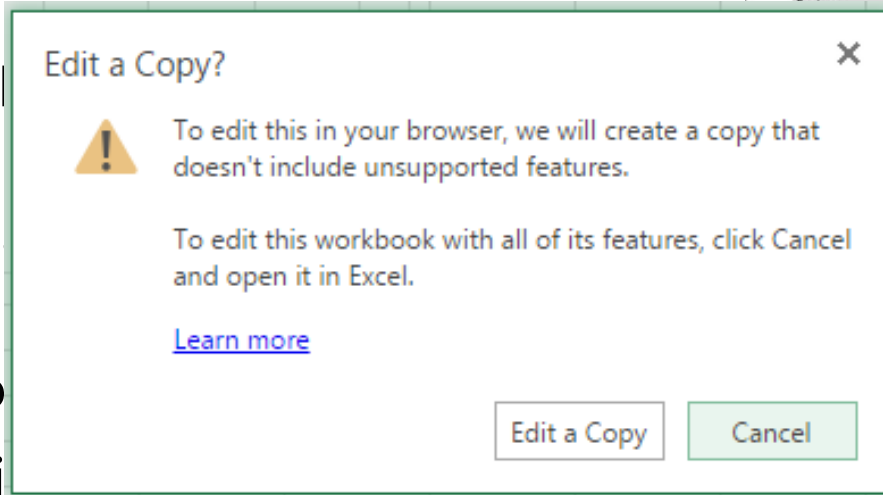
support.microsoft.com/en-gb/office/word-fe...

Inserting Objects in your Document

Feature	Word Desktop	Word Web	Notes
ActiveX Controls	✓		Add interactive elements to your documents with ease. With custom forms, buttons, and more, you can enhance the functionality of your document.
Cover Page	✓		
Embedded Objects	✓		Depending on the version of Word you're using, you can insert a variety of objects (such as PDF files, Excel charts or worksheets, or PowerPoint presentations) into a Word document by embedding them. Learn more here.
Gif, Emoji	✓	Emoji	
Header/Footer	✓	✓	Add headers and footers to your Word documents.
Hyperlinks	✓	✓	
Ink/Draw	✓	✓	
Insert video or audio file	✓	Video	
List (Numbering and Bullets)	✓	✓	Use numbered and bulleted list to organize and present information in a clear and concise way.

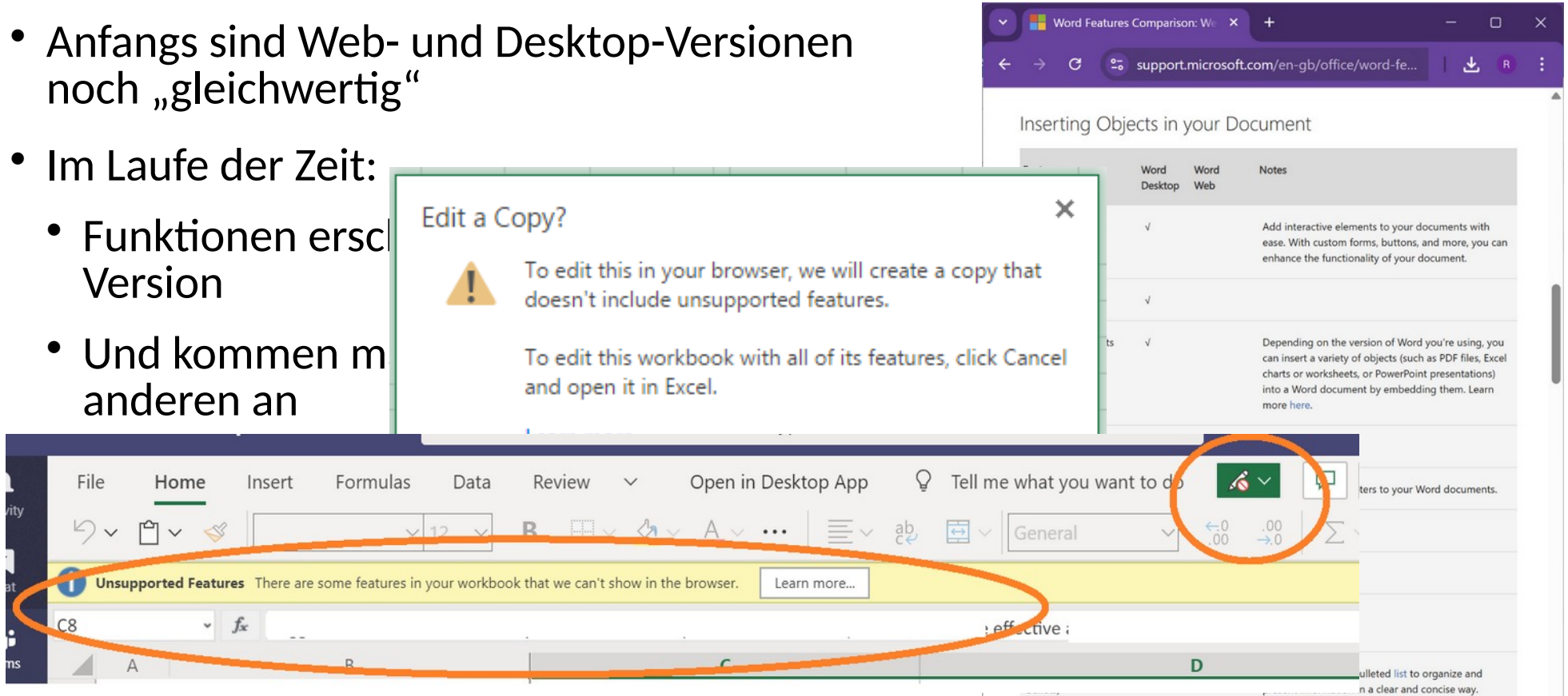
Das Problem?

- Anfangs sind Web- und Desktop-Versionen noch „gleichwertig“
- Im Laufe der Zeit:
 - Funktionen erschaffen neue Versionen
 - Und kommen mehr und mehr an
- Die Dokumentation
 - „In einigen Versionen“



Das Problem?

- Anfangs sind Web- und Desktop-Versionen noch „gleichwertig“
- Im Laufe der Zeit:
 - Funktionen erschaffen in der Desktop-Version
 - Und kommen mit der Zeit in die Web-Version an



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

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-bcc2-497b-984a-9b5d8f1158b9

Edit in Word

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

[Learn more](#)

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

Cancel

Edit a Copy

Edit Document

Print



Edit in Word

Use the full functionality of Microsoft Word.



Edit in Browser

Make quick changes right here using Word Online.

Compatibility Report



We can't show these features in the browser:

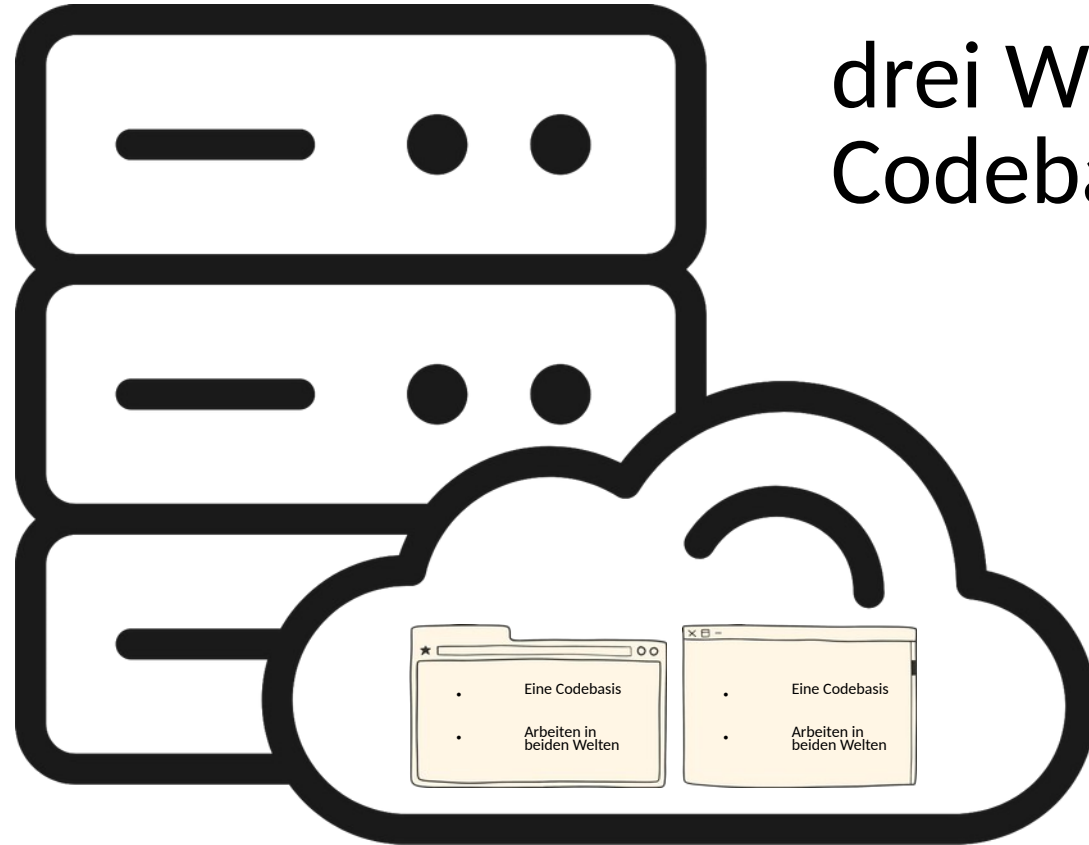
- Shapes or other objects
- SmartArt (process, hierarchy, cycle and relationship diagrams)

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

[Learn more](#)

OK

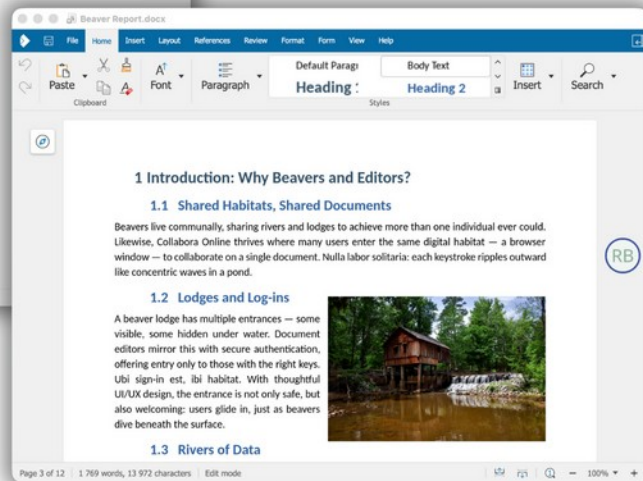
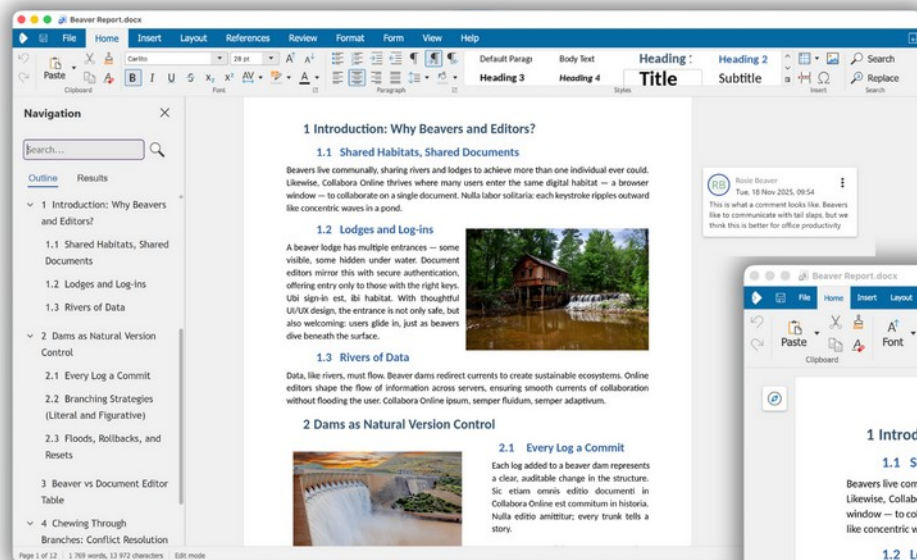
Die ideale Lösung:



drei Welten, eine
Codebasis

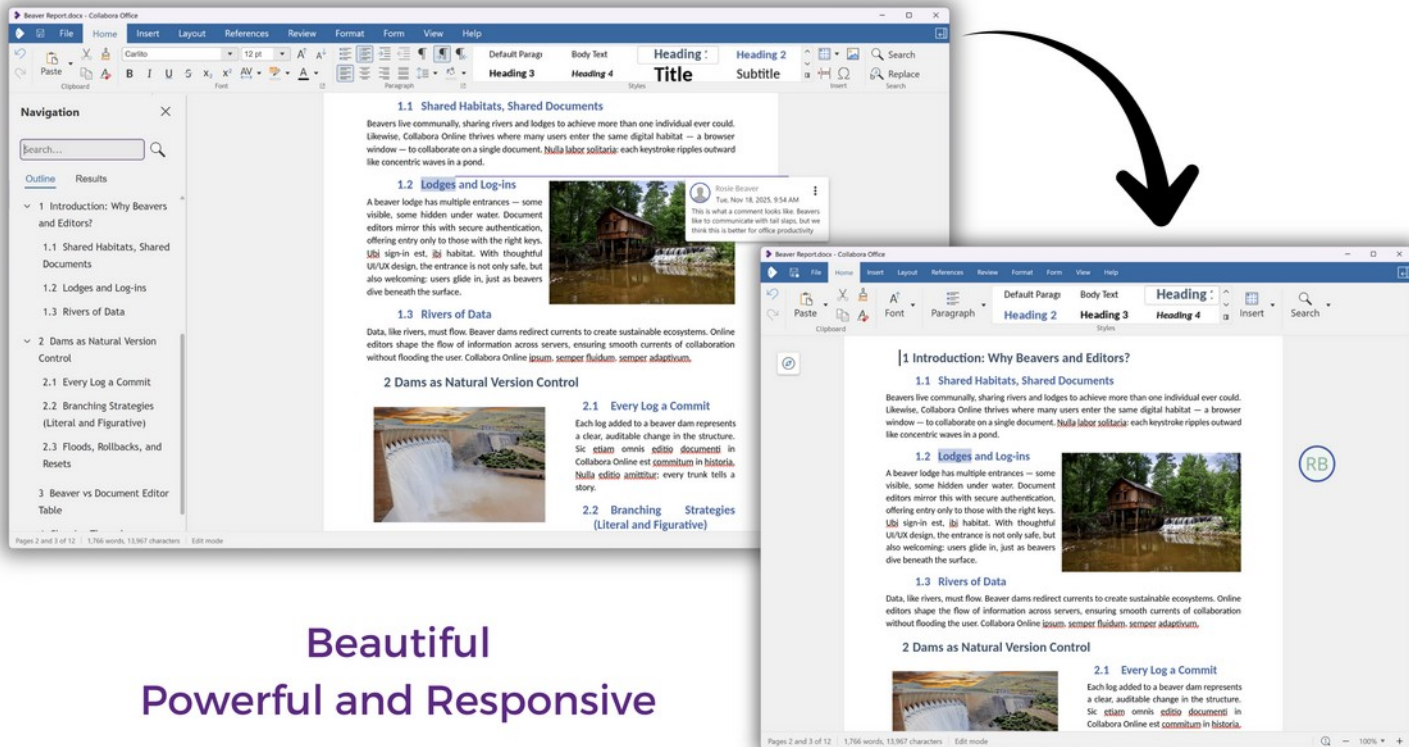
Collabora Office stellt sich vor

macOS



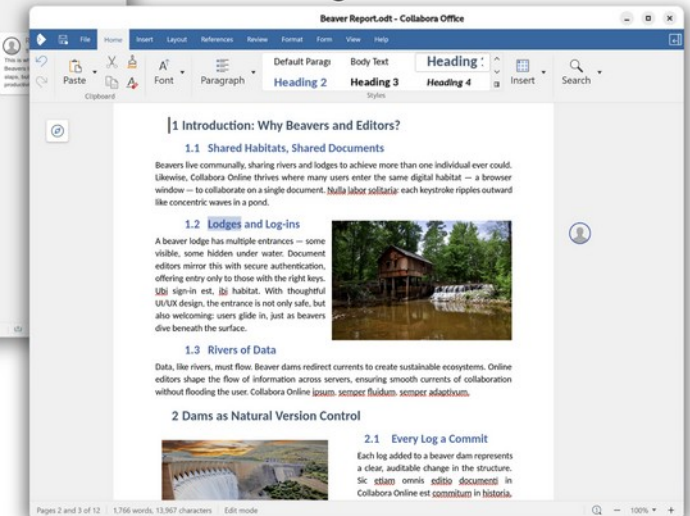
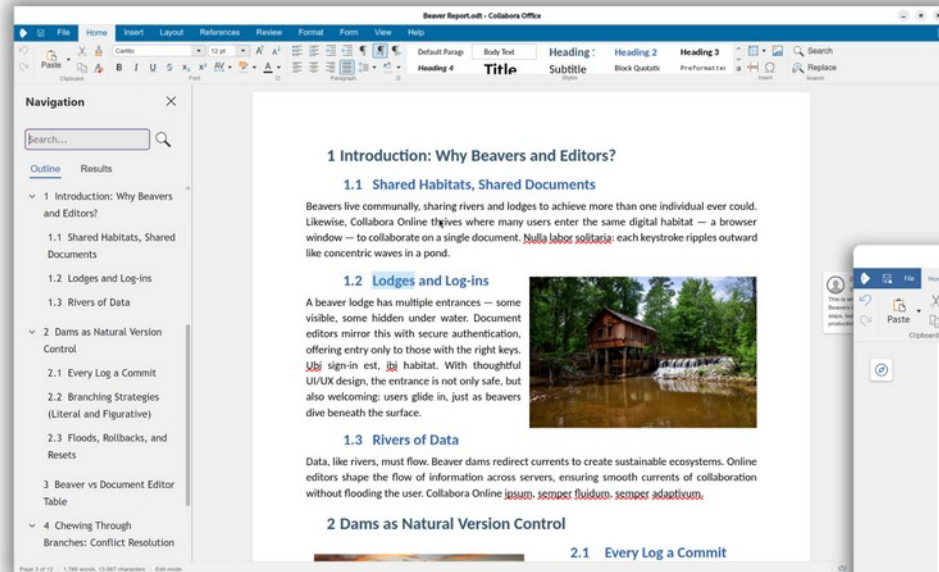
Beautiful
Powerful and Responsive

Windows



Beautiful
Powerful and Responsive

und Linux



Beautiful
Powerful and Responsive

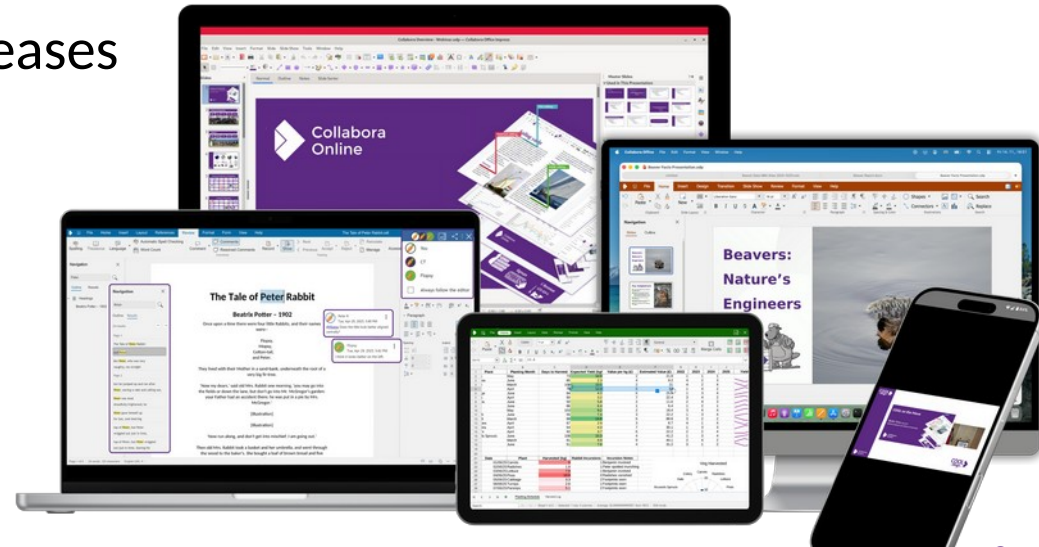
Und nun das Familienalbum

Unsere Produkte



CODE (Collabora Online Development Edition)

- allerneuesten Funktionen – neue Releases
~einmal im Monat
- Browserbasiert & kollaborativ
- Einfacher Einstieg
- Ideal für Tests und Entwicklung
- Perfekt für den Privatgebrauch



Unsere Produkte



Collabora Online

- Flaggschiff-Produkt – mit Support und bereit für den Unternehmenseinsatz
- Browserbasierte, kollaborative Bearbeitung
- Integrierbar & Interoperabel
- Open Source



Unsere Produkte



Collabora Office

- Nahtloser Oberflächenwechsel vom Browser zum Desktop
- Eine Codebasis im Browser, auf Tablet, Smartphone, Chromebook und Desktop
- Synchronisierte Updates



Unsere Produkte



Collabora Office Mobile

- Für Smartphones, Tablets und Chromebooks
- Verfügbar für iOS, Android und Chromebooks
- Support als Teil eines Abonnements
- Datenschutz als Standard

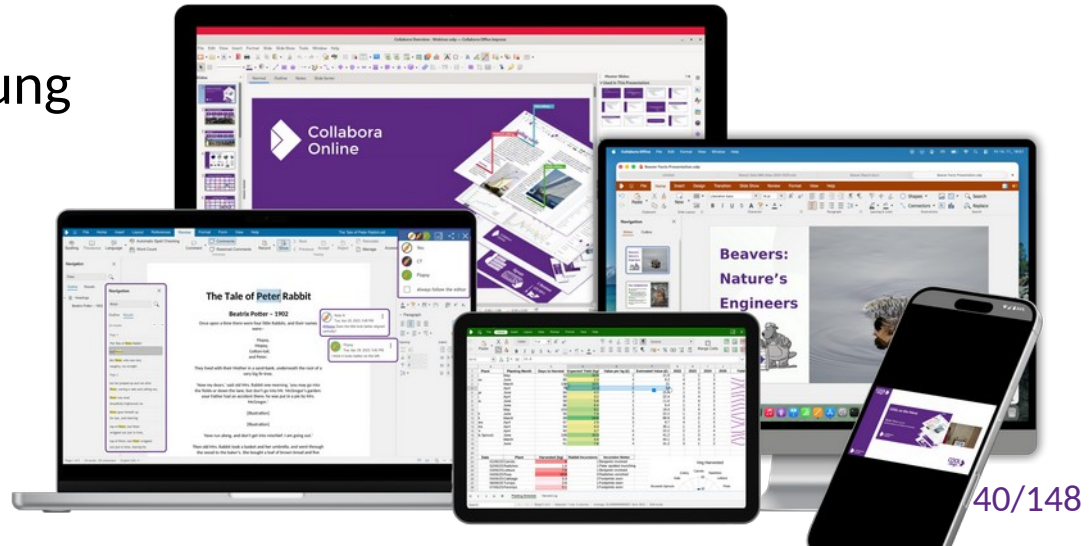


Unsere Produkte



Collabora Office Classic

- Für Offline- und Power-User
- Leistungsstarke Desktop-Bearbeitung
- Für Linux, Windows und Mac
- Mit Support



Unsere Apps

In allen Produkten verfügbar

- **Writer:** Textdokumente
- **Calc:** Tabellenkalkulationen
- **Impress:** Präsentationen
- **Draw:** Zeichnungen



Neuigkeiten bei den Applikationen

Kontrolle über KI?

KI-Integration

The image displays a collage of Microsoft Office applications (Excel, PowerPoint, Word) with the AI Assistant integrated into them. The AI Assistant is shown as a floating window that provides context-aware suggestions and editing options.

Excel Screenshot: The AI Assistant is shown interacting with a spreadsheet containing football statistics. It suggests replacing a formula in cell B6 to safely handle text values in F6 and avoid #VALUE! errors. The assistant also suggests rewriting the formula and replacing the current one.

PowerPoint Screenshot: The AI Assistant is shown interacting with a presentation slide titled "World Cup 2026 Edition". It suggests creating three more slides outlining the roles of the host nations in the 2026 World Cup.

Word Screenshot: The AI Assistant is shown interacting with a document titled "World Cup 2026 Edition". It suggests making the text more concise, making the tone more professional, and rewriting it in a more casual, friendly tone. It also offers to confirm the accuracy of the information.

AI Assistant Interface: The AI Assistant is shown as a floating window with a star icon and the text "Ask AI anything about your document". It provides context-aware suggestions and editing options. The interface includes a "Using selected text as context" section with options to "Make the following text more concise", "Make the tone more professional", and "Rewrite in a more casual, friendly tone". It also includes a "See more" link and a "Can you confirm the accuracy of this information?" section.

Collabora: initiale KI-Anbindung

Benötigt Konfiguration & Setup, zunächst nur als Opt-In Feature

- Anbindung an alle gängigen KI-Modelle
- Keine Datenlecks im Hintergrund – Dokumente werden nicht hochgeladen
- Dokumentinhalte werden **nur nach Auswahl & expliziter Anweisung** auf das KI-Modell geladen
- Collabora Online läuft auf Containern ohne persistente Datenhaltung – wir speichern keine Sitzungsdaten persistent
 - Wir haben kein Interesse an Ihren Daten!

KI-Chat-Seitenleiste

AI Assistant



Ask AI anything about your document

Make the following text more concise

Make the tone more professional

Rewrite in a more casual, friendly tone

See more

Ask AI...



 Content generated by an external AI service (gpt-5.4-mini). Please review before use.

AI Assistant



Ask AI anything about your document

Diagnose formula error

Sanity check data

Create a formula

See more

Ask AI...



 Content generated by an external AI service (openai/gpt-oss-120b:free). Please review before use.

AI Assistant



Ask AI anything about your document

Create slides

Make the following text more concise

Make the tone more professional

See more

Ask AI...

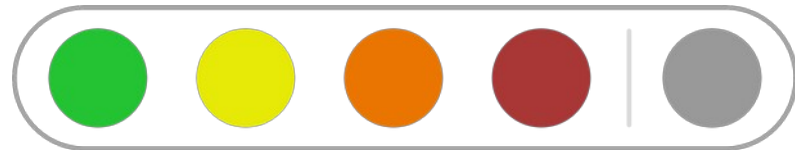
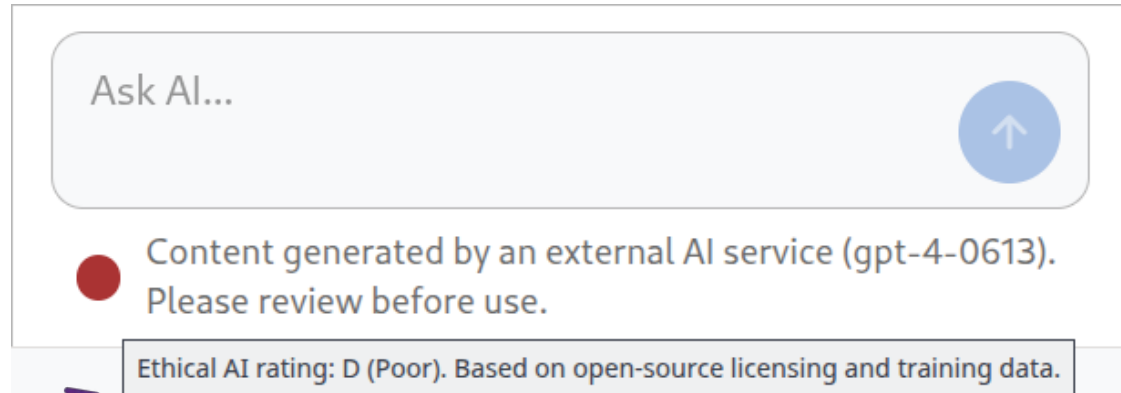
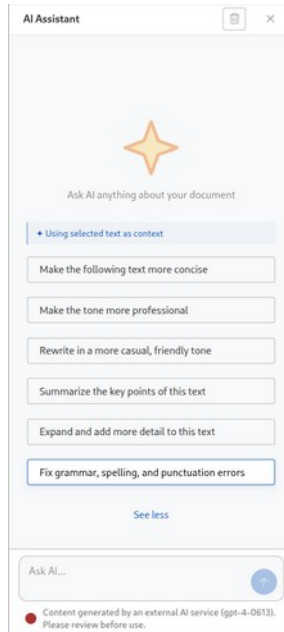


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 Collabora
Office

46

Ethische KI-Bewertung



offene

geschlos
sene bewertet
e

Writer

1 Introduction: Why Beavers and Editors?

1.1 Shared Habitats, Shared Documents

Beavers live communally, sharing rivers and lodges to achieve more than one individual ever could. Likewise, Collabora Online thrives where many users enter the same digital habitat — a browser window — to collaborate on a single document. Nulla labor solitaria: each keystroke ripples outward like concentric waves in a pond.

1.2 Lodges and Log-ins

A beaver lodge has multiple entrances — some visible, some hidden under water. Document editors mirror this with secure authentication, offering entry only to those with the right keys. Ubi sign-in est, ibi habitat. With thoughtful UI/UX design, the entrance is not only safe, but also welcoming: users glide in, just as beavers dive beneath the surface.



1.3 Rivers of Data

Data, like rivers, must flow. Beaver dams redirect currents to create sustainable ecosystems. Online editors shape the flow of information across servers, ensuring smooth currents of collaboration without flooding the user. Collabora Online ipsum, semper fluidum, semper adaptivum.

2 Dams as Natural Version Control



2.1 Every Log a Commit

Each log added to a beaver dam represents

AI Assistant



Shared Habitats, Shared Documents

Beavers live **communally**, sharing rivers and lodges to achieve more than one individual ever could. Likewise, Collabora Online thrives

Make it more concise

Shared Habitats, Shared Documents

Beavers live **communally**, sharing rivers and lodges to do more together than any one could alone. Likewise, Collabora Online works best when many users share the same digital habitat — a browser window — to collaborate on one document.

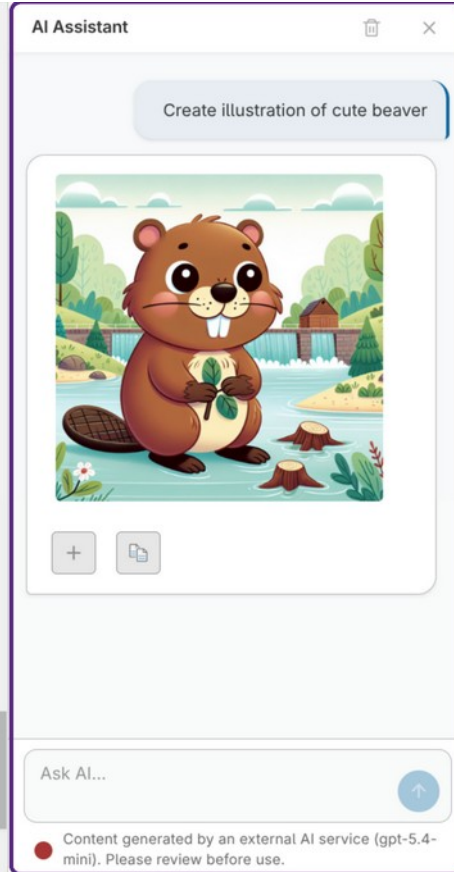


Ask AI...



Content generated by an external AI service (gpt-5.4-mini). Please review before use.

KI-Bildgenerierung



Calc - Diagnose von Formelfehlern

- Formelfehler (#VALUE!, #DIV/0!, #REF!) sind kryptisch. Nutzer brauchen Hilfe, um zu verstehen, was schiefgelaufen ist.
- Enthält eine Zelle einen Formelfehler, erscheint ein Kontextmenü:
- Hilfe zu diesem Fehler
- Mit dem Funktionsassistenten untersuchen
- In der Formelleiste bearbeiten
- Diesen Fehler mit KI-Hilfe beheben



Calc - Formeln und Datenanalyse

Formel erstellen: Beschreiben Sie in natürlicher Sprache, was Sie möchten. Das LLM schreibt die Formel.

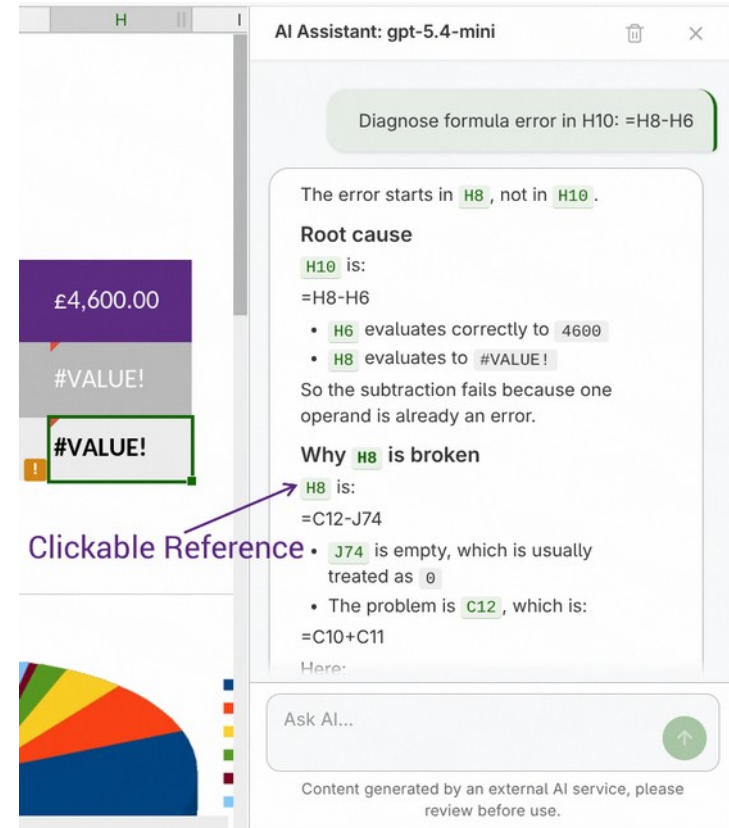
Formelvalidierung: Das LLM testet Formeln vor dem Einfügen in einer Sandbox. Das Dokument wird erst geändert, wenn der Nutzer zustimmt.

Daten auf Plausibilität prüfen: Das LLM liest die ausgewählten Daten (mit Zeilen- und Spaltenköpfen als Kontext) und prüft auf Anomalien, Ausreißer oder Inkonsistenzen.

Zellbezüge in Antworten: Das LLM gibt klickbare Zellbezug-Chips aus (z. B. B2, C12), die beim Anklicken direkt zur Zelle springen.

Formeln stapelweise einfügen: Das LLM kann mehrere Zellen auf einmal setzen (z. B. eine Spalte mit berechneten Formeln füllen).

Verfügbare Calc-Funktionen: Das LLM kann alle verfügbaren Tabellenfunktionen nach Kategorien gruppiert abfragen und weiß so beim Erstellen von Formeln, welche Werkzeuge zur Verfügung stehen.



The screenshot displays the 'AI Assistant: gpt-5.4-mini' interface. A user query asks to 'Diagnose formula error in H10: =H8-H6'. The assistant's response explains the error: 'The error starts in H8, not in H10'. It identifies the 'Root cause' as H10 containing the formula '=H8-H6'. A list shows that H6 evaluates to 4600, while H8 evaluates to '#VALUE!'. The explanation states: 'So the subtraction fails because one operand is already an error.' It then details 'Why H8 is broken', showing H8 contains '=C12-J74'. A list indicates J74 is empty (treated as 0) and the problem is C12, which is '=C10+C11'. A 'Clickable Reference' label with a purple arrow points to the C12 reference in the list. The interface includes a sidebar with a spreadsheet snippet showing '£4,600.00' and two '#VALUE!' errors, and a bottom section with a pie chart and a legend.

AI Assistant: gpt-5.4-mini

Diagnose formula error in H10: =H8-H6

The error starts in **H8**, not in **H10**.

Root cause

H10 is:

=H8-H6

- **H6** evaluates correctly to 4600
- **H8** evaluates to #VALUE!

So the subtraction fails because one operand is already an error.

Why **H8 is broken**

H8 is:

=C12-J74

- **J74** is empty, which is usually treated as 0
- The problem is **C12**, which is: =C10+C11

Here:

Ask AI...

Content generated by an external AI service, please review before use.

Impress – Erstellen & Verfeinern

The screenshot displays a presentation software interface with a slide titled "The Great Storylines of 2026". The slide content is organized into a timeline-like structure with text boxes and numerical callouts.

Slide Content:

- New Generational Talent** Yamal, Mbappé and Bellingham lead a wave of players under 22 who could define this tournament — and the next decade of football.
- Legacy Builders** For Müller, Modric, and Alisson, 2026 may be a final shot at a winner's medal. Great players completing great stories.
- South American Powerhouses** Brazil and Argentina both arrive as genuine title contenders. A Vinicius-led Brazil vs Lautaro's Argentina final would be legendary.
- 9** Nations ranked in global top 10 competing
- 18** Estimated U21 players in squads
- 5** Nations with 2+ prior titles
- 22** Years since USA last hosted the final

AI Assistant Sidebar:

AI Assistant

***New Generational Talent **Yamal, Mbappé and Bellingham lead a wave of players under 22 who could define this tournament — and the next decade of football.*

Are these the best players to highlight here?

They're definitely among the strongest names to feature, but whether they're the "best" depends on the angle you want. If the point is to spotlight the most marketable and influential young stars, this trio works very well:

- Lamine Yamal
- Kylian Mbappé
- Jude Bellingham

That said, if you want the headline to feel more strictly "new generational talent," Mbappé is a little less fitting because he's already established as a global star rather than an emerging one. Yamal and Bellingham fit the "next decade" framing more naturally.

A tighter version could be:
New Generational Talent
Yamal and Bellingham lead a wave of

Ask AI...

2026 Men's World Cup • Player career records through 2024/25 season

Kollaborativ



Gemeinsames Bearbeiten in Echtzeit

- Kollaboratives Bearbeiten
- Dem Bearbeiter folgen



Kommentare und Erwähnungen

- Threads für Unterhaltungen
- Kommentare im Navigator durchsuchen



Änderungsverfolgung

- Annehmen und Ablehnen
- Wiederherstellen
- Dokumentvergleich

Browser-basiert

beaver-report-v3.odt - Nextcloud

File Home Insert Layout References Review Format Form View Help beaver-report-v3.odt

Clipboard Font Paragraph Styles Search

Journal of Restoration Ecology & River Systems • Vol. 14, No. 2 • Article 6 • Demonstration Issue

Hydrological and biodiversity response to reintroduced Eurasian beaver (*Castor fiber*) in a lowland British catchment: an eighteen-month progress assessment

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¹Wildlife Trust, Field Monitoring Team, ²Department of Catchment Science, University of the North Downs, ³Regional Rivers Authority, Hydrometry Unit, ⁴

Received 3 April 2025; revised 2 June 2025; accepted 28 June 2025. 1 Correspondence: p.vasquez@unh.ac.uk

ABSTRACT

The reintroduction of the Eurasian beaver has been proposed as a low-cost, self-sustaining intervention for restoring natural flow regulation and wetland biodiversity to degraded lowland rivers. We report an eighteen-month assessment of a soft-release programme in the Riverwood catchment, in which two founding pairs established four breeding territories. Beaver engineering raised local water tables, impounded an estimated 4,200 m³ of water behind 23 dams, and was associated with a 28% reduction in modelled storm peak discharge and a nine-hour delay in peak arrival. Standardised surveys recorded increases in amphibian, odonate, wetland-bird and aquatic-plant richness within impounded reaches, alongside the return of the water vole. We discuss localised conflicts with landowners and the mitigation measures adopted, and outline priorities for the next monitoring period.

Keywords: *reversing* · *ecosystem engineer* · *flood attenuation* · *Castor fiber* · *wetland biodiversity* · *natural flood management*

1 INTRODUCTION

Across much of lowland Britain, centuries of channelisation, land drainage and floodplain disconnection have left river systems that shed water rapidly, flood destructively, and support a fraction of their former biodiversity. Restoring these functions through conventional engineering is expensive and rarely self-maintaining. The Eurasian beaver (*Castor fiber*) offers an alternative: a keystone herbivore whose dam-building and canal-digging create precisely the wet, structurally complex habitats that management otherwise struggles to reproduce.

The species was hunted to extirpation across Britain by the sixteenth century, valued for its fur, meat and castoreum. Its subsequent absence removed a major source of natural disturbance from freshwater systems, and many of the wetland habitats that depended on beaver activity contracted or disappeared altogether. The animal's return — whether through licensed reintroduction or unlicensed release — therefore represents not merely the addition of a species but the restoration of an entire ecological process that shaped these landscapes for millennia.

further wet the surrounding land. The resulting mosaic of open water, marginal vegetation, dead standing timber and coppiced regrowth supports assemblages that are otherwise scarce in managed lowland catchments.

1.1 Aims and scope

Beaver reintroduction has advanced rapidly in Europe over recent decades, and enclosed and free-living trials in Britain have reported measurable effects on flow, water quality and species richness. Fewer studies, however, follow a free-living population continuously from first release through the establishment of several breeding territories, capturing both the hydrological and the ecological trajectory in the same catchment.

Here we present an interim, eighteen-month assessment of the Riverwood programme. We combine high-resolution hydrometric records, standardised seasonal ecological surveys and remote-camera data to ask three questions: (i) how quickly did the founding animals establish and breed; (ii) what measurable changes in flow regime and water storage followed dam construction; and (iii) how did wetland

2 STUDY AREA AND METHODS

2.1 Site and release

The Riverwood catchment (area = 42 km²) drains a mixed agricultural and semi-natural landscape. Two adult pairs were released under a soft-release protocol¹ in autumn 2024. Animals were free to disperse after enclosure opening, and territory occupancy was tracked by field sign, remote camera and opportunistic observation.

2.2 Hydrometry

Discharge was recorded at the Cair Weir gauge at fifteen-minute resolution. Storm-event peaks were compared against a calibrated rainfall-runoff model representing pre-restoration conditions. Impoundment volumes were estimated from dam surveys and differential GPS of pond extents.

2.3 Ecological survey

Amphibians, Odonata, wetland birds and aquatic macrophytes were surveyed along fixed transects using standardised seasonal protocols, with a 2024 pre-release baseline. Water vole presence was assessed from latrines, feeding sign and burrow surveys.

3 RESULTS

3.1 Population establishment

Both founding pairs bred successfully. By the spring 2026 survey we estimated eleven individuals across four active territories (Figure 1), with first-winter kit survival of 83%. A single kit loss at Alder Carr was attributed to fox predation recorded on a trail camera.

Estimated population by territory

Quarter	Cair Weir	Millpond Reach	Alder Carr	Hazle Brook	Total
Q4 2024	2	0	0	0	2
Q1 2025	3	1	0	0	4
Q2 2025	4	2	1	0	7
Q3 2025	5	3	2	0	10
Q4 2025	6	4	3	0	13
Q1 2026	7	5	4	0	16

raising the local water table by up to 40 cm (Figure 4). During the February 2026 storm, modelled peak discharge fell by approximately 28% relative to the counterfactual baseline, and the peak arrived some nine hours later (Figure 2).⁴

Storm hydrograph at Cair Weir gauge

Hours since storm onset	Pre-restoration (modelled)	Post-restoration (observed)
0	0	0
10	15	5
15	22	10
20	15	12
25	10	15
30	5	10
40	0	5
50	0	0

Dam construction and storage

Month	Cumulative dams	Water impounded (x10 ³ m ³)
Nov	1	0.5
Dec	2	1.0
Jan	3	1.5
Feb	4	2.0
Mar	5	2.5
Apr	6	3.0
May	7	3.5
Jun	8	4.0
Jul	9	4.0
Aug	10	4.0
Sep	11	4.0
Oct	12	4.0
Nov	13	4.0
Dec	14	4.0
Jan	15	4.0
Feb	16	4.0
Mar	17	4.0

Figure 2. Storm hydrograph at the Cair Weir gauge. The post-restoration peak is lower and delayed relative to the modelled pre-restoration curve (synthetic data).

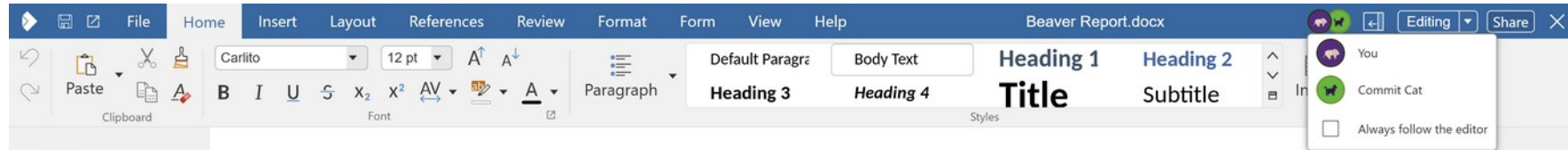
Figure 3. Cumulative dam construction (bars) and estimated water impounded (line) over the monitoring period (synthetic data).

3.3 Biodiversity response

Impounded reaches showed consistent increases in taxonomic richness relative to baseline (Figure 3). Amphibian species doubled, dragonfly richness more than doubled, and wetland-bird richness rose from eight to fourteen species. Water vole sign, absent at baseline, was recorded at four locations along the newly wetted margins — a notable return for a rapidly declining mammal.

Collabora Office

Mehrere Nutzer



1 Introduction: Why Beavers and Editors?

1.1 Shared Habitats, Shared Documents

I can type here and undo Beavers live communally, sharing rivers and lodges to achieve more than one individual ever could. Likewise, Collabora Online thrives where many users enter the same digital habitat — a browser window — to collaborate on a single document. ~~Nulla labor solitaria:~~ each keystroke ripples outward like concentric waves in a pond. While another user types here...

1.2 Lodges and Log-ins

A beaver lodge has multiple entrances — some visible, some hidden under water. Document editors mirror this with secure authentication, offering entry only to those with the right keys. Ubi sign-in est, ibi habitat. With thoughtful UI/UX design, the entrance is not only safe, but also welcoming: users glide in, just as beavers dive beneath the surface.



1.3 Rivers of Data

Data, like rivers, must flow. Beaver dams redirect currents to create sustainable ecosystems. Online editors shape the flow of information across servers, ensuring smooth currents of collaboration.

Kollaboratives
Undo & Redo

Mehrere Nutzer

The screenshot shows a Collabora Office document titled "Recipe". The document is divided into three main sections: "Recipe", "Ingredients", and "Preparation". The "Recipe" section contains the title "Strawberry Vanilla Pancakes". The "Ingredients" section is a table with two columns: "Quantity" and "Ingredient". The "Preparation" section is currently being edited by user "Flopsy".

Quantity	Ingredient
200g	Self-raising flour
1 1/2 tsp	Baking powder
1 tbsp	Golden caster sugar
3	Large eggs

The "Preparation" section is highlighted with a callout box. The callout box shows the text "Preparation" and a small "Flopsy" label. The callout box also shows a list of users: "You", "CT", and "Flopsy". The "Always follow the editor" checkbox is checked.

Mehrere Nutzer

	Plant	Planting Month		Value per
1				
2	Carrots	May		
3	Radishes	June		
4	Lettuce	March		
5	Peas	April	78	10.6
6	Cabbage	June	84	4.3
7	Turnips	April	50	3.2
8	Parsnips	June	50	5.8
9	Onions	June		
10	Beets	May	84	
11	Spinach	June	50	
12	Broccoli	March		
13	Tomatoes	April	50	
14	Pumpkins	April		
15	Zucchini	April	84	
16	Brussels Sprouts	June	108	10.3
17	Kale	March	81	4.9
18	Celery	June	51	7.8
19				

Kollaborativ

Recipe (Rabbits).odt

File Home Insert Layout References Review Format Form View Help

abc Automatic Spell Checking Comments
Spelling Thesaurus Language Word Count Comment Resolved Comments

Recipe

Strawberry Vanilla Pancakes



Comments:

-  Peter R
Tue, Apr 29, 2025, 5:40 PM
[@Flopsy](#) Does the title look better aligned centrally?
-  Flopsy
Tue, Apr 29, 2025, 5:42 PM
I think it looks better on the left.
-  Peter R
Tue, Apr 29, 2025, 5:44 PM
Is this the correct final quantity?
-  CT
Tue, Apr 29, 2025, 5:44 PM
Yes :)
-  Peter R
Thu, May 8, 2025, 1:10 PM
Thanks [@CT](#)

Comments (continued):

-  Peter R
Tue, Apr 29, 2025, 5:40 PM
[@Flopsy](#) Does the title look better aligned centrally?
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Thanks [@CT](#)

Kollaborativ

The screenshot displays the Kollaborativ application interface, which is designed for collaborative document editing. The main window shows a recipe document titled "Recipe (Rabbits).odt" with a ribbon menu (File, Home, Insert, Search) and a toolbar. The document content includes a title "Berry la kes", an "Ingredients" section with a list of items, and a "Preparation" section with numbered steps. A "Navigation" panel on the left side of the document provides a search bar and tabs for "Outline" and "Results". Below these tabs, a "Comments" section is visible, showing a list of comments. One comment, "@Flopsy Does the title look better aligned centrally?", is highlighted. A larger, detailed view of this comment is shown in a separate window, indicating that the comment can be viewed in a larger context. The comment text reads: "I think it looks better on the left." The interface also shows a "Comments" section in the main document, listing comments from users like Peter R and Flopsy. The overall design is clean and modern, with a focus on collaborative work.

Navigation

Search...

Outline Results

Comments

@Flopsy Does the title look better aligned centrally?

I think it looks better on the left.

Sometimes comments or replies can be very long. In this case - it is useful to be able to view the comment with a larger window, not at the side.

Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do eiusmod tempor incididunt ut labore et dolore magna aliqua. Ut enim ad minim veniam, quis nostrud exercitation ullamco laboris nisi ut aliquip ex ea commodo consequat. Duis aute irure dolor in reprehenderit in voluptate velit esse cillum dolore eu fugiat nulla pariatur. Excepteur sint occaecat cupidatat non proident, sunt in culpa qui officia deserunt mollit anim id est laborum.

Recipe (Rabbits).odt

Default Paragraph Body Text Heading 1 Heading 2 Heading 3 Heading 4 Title Subtitle

Ingredients

- 200g self-raising flour
- 1 1/2 tsp baking powder
- 1tbsp golden caster sugar
- 3 large eggs
- 25g melted butter, plus extra for cooking
- 200ml milk
- vegetable oil, for cooking
- To serve: fruit, or jam, or cooked and maple syrup

Preparation

- Mix 200g self-raising flour, 1 1/2 tsp baking powder, 1 tbsp golden caster sugar and a pinch of salt together in a large bowl.
- Create a well in the centre with the back of your spoon then add 3 large eggs, 25g melted butter and 200ml milk.

Comments

Peter R

@Flopsy Does the title look better aligned centrally?

Tue, 29 Apr 2025, 17:40

Flopsy

I think it looks better on the left.

Tue, 29 Apr 2025, 17:42

Kollaborativ

The screenshot displays the Collabora Office application interface. The main window shows a document titled "Recipe (Rabbits).odt" with a ribbon menu (File, Home, Insert, Search) and a sidebar navigation pane. The sidebar contains a search bar and a list of comments. A comment by @Flopsy is highlighted, showing the text "Does the title look better aligned centrally?". A blue callout box with the text "Schneller Zugriff zum Bearbeiten" (Faster access to editing) points to the comment. The document content includes a title "Berry la kes", an "Ingredients" section with a list of items, and a "Preparation" section with numbered steps. A small image of a stack of pancakes is visible on the left side of the document.

Navigation

Search...

Outline Results

Comments

▼ @Flopsy Does the title look better aligned centrally?

I think it looks better on the left.

▼ Sometimes comments or replies can be very long. In this case - it is useful to be able to view the comment with a larger window, not at the side.

► Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do eiusmod tempor incididunt ut labore et dolore magna aliqua. Ut enim ad minim veniam, quis nostrud exercitation ullamco laboris nisi ut aliquip ex ea commodo consequat. Duis aute...

Recipe (Rabbits).odt

Default Paragraph Body Text Heading 1 Heading 2 Heading 3 Heading 4 Title Subtitle Insert Search

2 3 4 5 6 7 8 9 10 11 12 13

Ingredients

- 200g self-raising flour
- 1 1/2 tsp baking powder
- 1tbsp golden caster sugar
- 3 large eggs
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- 200ml milk
- vegetable oil, for cooking
- To serve: fruit, or jam, or cooked and maple syrup

Preparation

1. Mix 200g self-raising flour, 1 ½ tsp baking powder, 1 tbsp golden caster sugar and a pinch of salt together in a large bowl.
2. Create a well in the centre with the back of your spoon then add 3 large eggs, 25g melted butter and 200ml milk.

Comments

Peter R

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Tue, 29 Apr 2025, 17:40

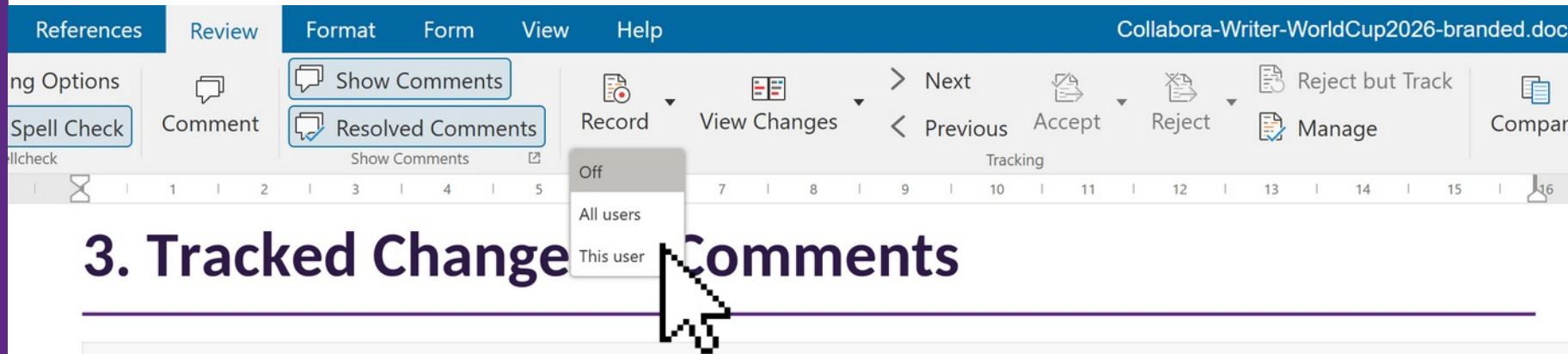
Flopsy

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Tue, 29 Apr 2025, 17:42

Collabora Office

Änderungsverfolgung

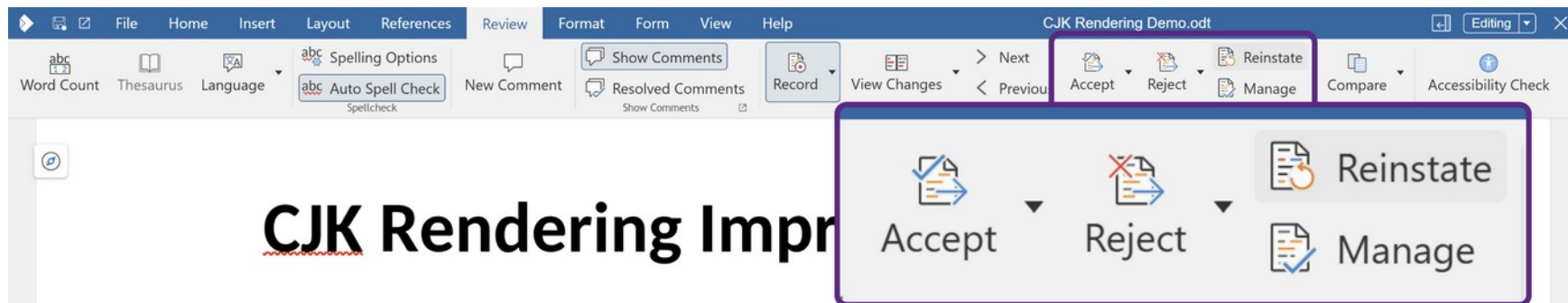


3. Tracked Change Comments

Argentina arrive in North America as heavystrong favourites to retain the trophy won so memorably in Qatar. Lionel Messi, now at 38 years of age, will captain the side for what is expected to be his final World Cup.

Spain, ranked first in the world, arepresent themselves as the leading challengers, drawn into a favourable Group H alongside Cape Verde, Saudi Arabia and Uruguay.

Erweiterte Änderungsverfolgung



1. Quotation Marks in Mixed CJK & Western Text

English: "Hello, world!" English: "Hello, world!"

Chinese: 「你好，世界！」

Japanese: 『こんにちは、世界！』

2. Right-to-Left Override (U+202E) Handling

Standard CJK text: 你好世界

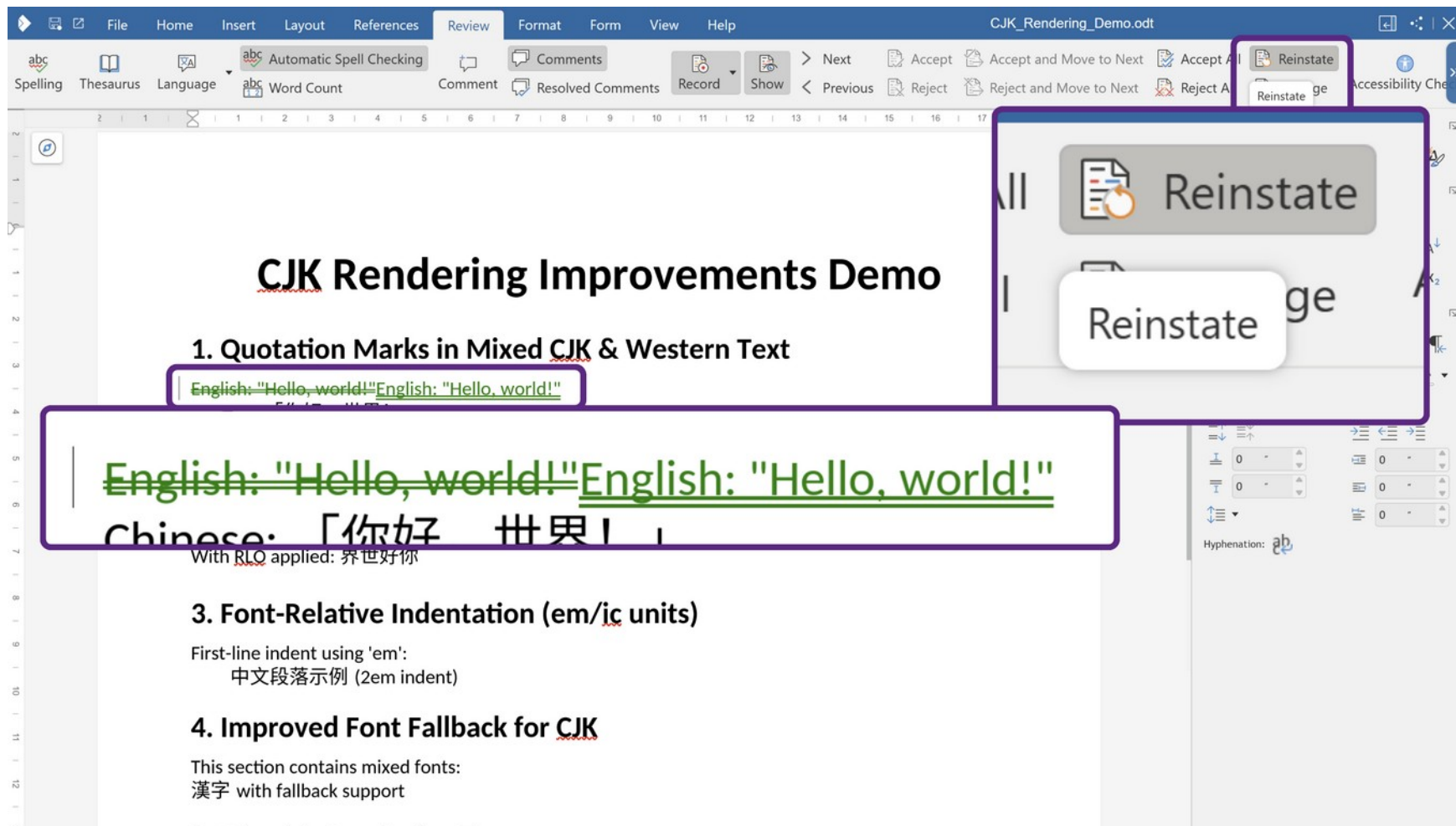
With RLO applied: 界世好你

3. Font-Relative Indentation (em/ic units)

First-line indent using 'em':

中文段落示例 (2em indent)

Änderungen wiederherstellen



CJK Rendering Improvements Demo

1. Quotation Marks in Mixed CJK & Western Text

English: "Hello, world!"English: "Hello, world!"

Chinese: 「你好 世界！」

With RLO applied: 界世好你

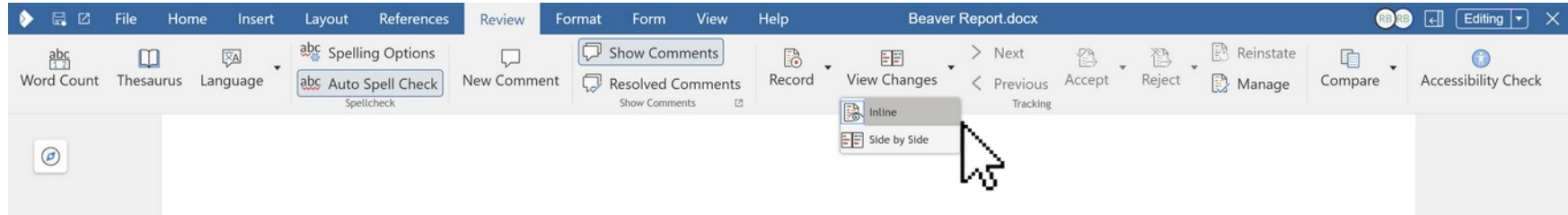
3. Font-Relative Indentation (em/ic units)

First-line indent using 'em':
中文段落示例 (2em indent)

4. Improved Font Fallback for CJK

This section contains mixed fonts:
漢字 with fallback support

Änderungen im Text prüfen



Intuitive
Dropdowns
und Layout

1 Introduction: Why Beavers and Editors?

1.1 Shared Habitats, Shared Documents

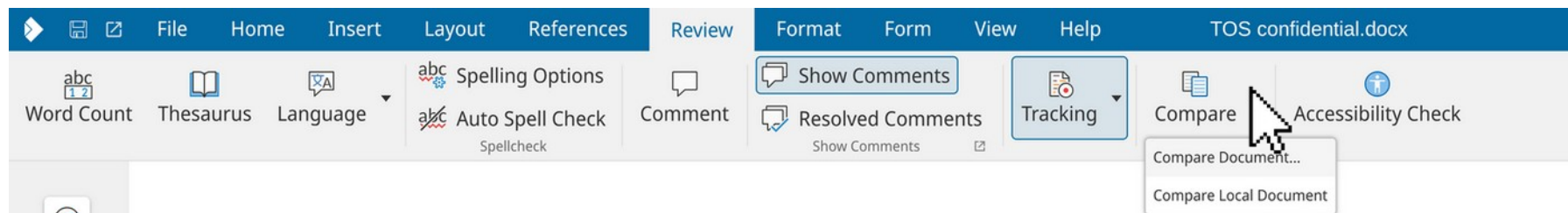
Beavers live communally, sharing rivers and lodges to achieve more than one individual ever could. Likewise, Collabora Online thrives where many users enter the same digital habitat — a browser window — to collaborate on a single document. Nulla labor solitaria: each keystroke ripples outward like concentric waves in a pond.

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A beaver lodge has multiple entrances — some visible, some hidden under water. Document editors mirror this with secure authentication, offering entry only to those with the right keys. Ubi sign-in est, ibi habitat. With thoughtful UI/UX design, the entrance is not only safe, but also welcoming: users glide in, just as beavers dive beneath the surface.



Dokumente vergleichen



NOTICE OF TERMS AND CONDITIONS OF SERVICE

February 5th

1.Introductory Provisions: By utilizing the Services, you (hereinafter referred to as "User") acknowledge that you hav ~~ehave~~ read, comprehend, and acquiesce to be bound by the Terms of Service (hereinafter referred to as "TOS"), as well as any supplementary guidelines, policies, or operational parameters that may be promulgated from time to time.

2.Definitions and Interpretations: For the purposes of these TOS, the following terminology shall be construed as follows: "Services" shall denote the entirety of functionalities, utilities, amenities provided by the Service Provider; "Service Provider" shall refer to the entity responsible for the administration, maintenance, and provision of the Services; "User Content" shall

Direkter Dokumentvergleich

Collabora Office

File Home Insert Layout References Review Format Form View Help TOS confidential.docx

Word Count Thesaurus Language Spelling Options Auto Spell Check Comment Show Comments Resolved Comments Record View Changes

Initial Version

Current Version

NOTICE OF TERMS AND CONDITIONS OF SERVICE February 5th 1st 2026

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- o Definitions and interpretations from 2026 – to be updated.
- o Prepare interpretations for 2027.
- o Definitions and interpretations from 2026 – to be updated.
- o Prepare interpretations for 2027.

2.1 Definitions and interpretations in 2026: to be updated.

3.Grant of License: Subject to the User's adherence to these TOS, the Service Provider hereby grants to the User a non-exclusive, non-transferable, and revocable license to access and utilize the Services, solely for the User's personal, non-commercial purposes.

4.[2.] User Obligations: The User agrees to:

- a. Maintain Confidentiality: Preserve the confidentiality of any passwords, usernames, or other authentication credentials associated with the User's account; Comply with Applicable Laws: Utilize the Services in conformity with all applicable laws, statutes, regulations, and ordinances;
- b. Comply with Applicable Laws: Utilize the Services in conformity with all applicable laws, statutes, regulations, and ordinances; Maintain Confidentiality: Preserve the confidentiality of any passwords, usernames, or other authentication credentials associated with the User's account;
- c. Provide Accurate Information: Furnish accurate, complete, and up-to-date information in conjunction with the registration process and ongoing utilization of the Services;
- d. Refrain from Prohibited Activities: Abstain from engaging in any activities that may be deemed detrimental to the Services, the Service Provider, or other Users, including but not limited to:

Moved (insertion): Christine - 01/30/2026 10:51:15

a. Maintain Confidentiality: Preserve the confidentiality of any passwords, usernames, or other authentication credentials associated with the User's account; Comply with Applicable Laws: Utilize the Services in conformity with all applicable laws, statutes, regulations, and ordinances;

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Page 1 of 2 | 647 words, 4,343 characters | English (USA) | 100%

Direkter Dokumentvergleich

The screenshot displays the Microsoft Word interface with the 'TOS confidential.docx' document open. The ribbon shows the 'Review' tab, with the 'Compare' group active. The 'Initial Version' and 'Current Version' panes are visible, showing the document content side-by-side. The 'Manage Changes' dialog box is open, showing a list of changes with columns for Action, Author, Date, and Comment. The changes include deletions and additions of text related to 'Definitions and interpretations' and 'User Obligations'.

Initial Version

NOTICE OF TERMS AND CONDITIONS OF SERVICE February 5th 1st 2026

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o Definitions and interpretations

o Prepare interpretations for 2027

o Definitions and interpretations

o Prepare interpretations for 2027

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Current Version

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o Deleted: Christine - 01/29/2026 17:01:14 in 2026 – to be updated.

o Prepare interpretations for 2027.

o Definitions and interpretations from 2026 – to be updated.

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Manage Changes

List Filter

Sort by: Document Position

Action	Author	Date	Comment
X	Christine	01/29/2026 15:50:00	
X	Christine	01/29/2026 17:01:14	
+	Christine	01/29/2026 12:18:01	
X	Christine	01/29/2026 17:01:14	
X	Christine	01/29/2026 15:50:00	
X	Christine	01/21/2026 17:21:54	
X	Christine	01/21/2026 17:15:14	
+	Christine	01/29/2026 12:18:01	
+	Christine	01/30/2026 10:51:15	
+	Christine	01/29/2026 10:51:08	

Accept Reject Accept All Reject All

Close

Page 1 of 2 | 2 words, 2 characters | English (USA) | 100%

Lückenloser Änderungsverlauf

Deleted: Commit Cat - 05/14/2026 14:05:25

th America as ~~heavy~~strong favourites to retain the trophy won s
onel Messi, now at 38 years of age, will captain the side for wha
l World Cup.

the world, ~~are~~represent themselves as the leading challengers, draw
ongside Cape Verde, Saudi Arabia and Uruguay.

Unterstützt beim Arbeiten



Hilfreiche Tooltips

- Formatierungs-Popups bei Auswahl
- Shortcuts zum Mitlernen
- Icons für sofortige Wiedererkennung



Ansicht frei wählbar

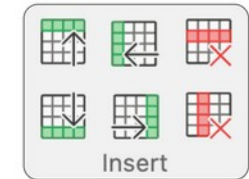
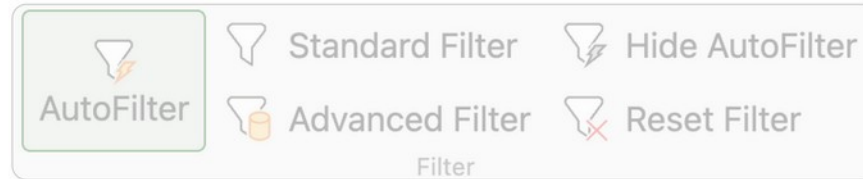
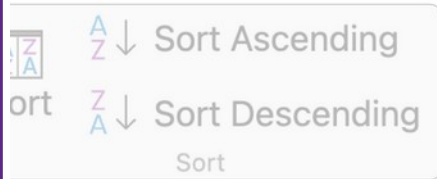
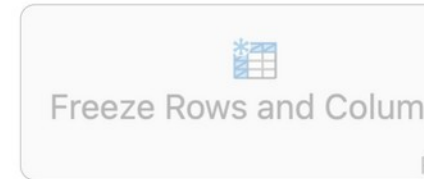
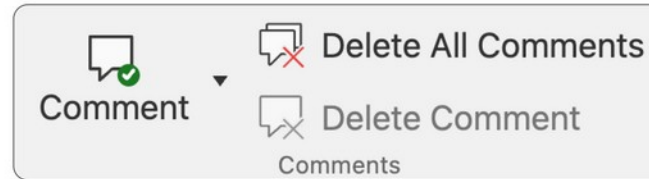
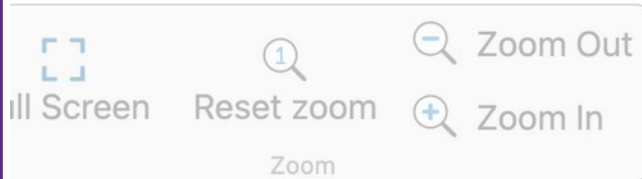
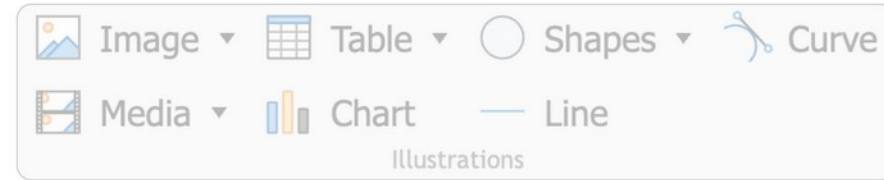
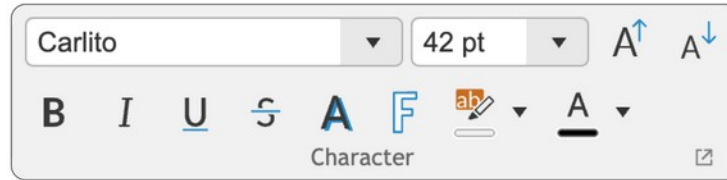
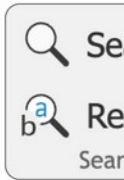
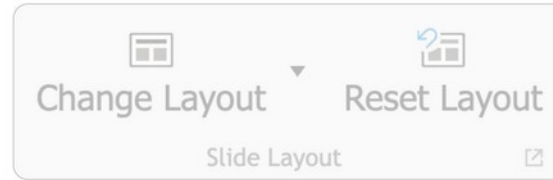
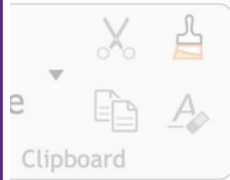
- Mehrere Symbolleisten- & Ansichtsoptionen
- Intelligente Tabs
- Mehrseitenansicht



Zeit sparen

- Suche in der Navigator-Leiste
- Intuitive Oberfläche – kein Umlernen von anderen Plattformen

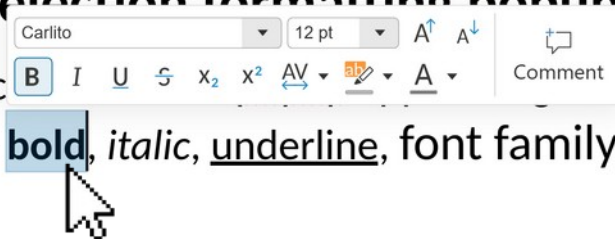
Klare Struktur, weniger zu merken



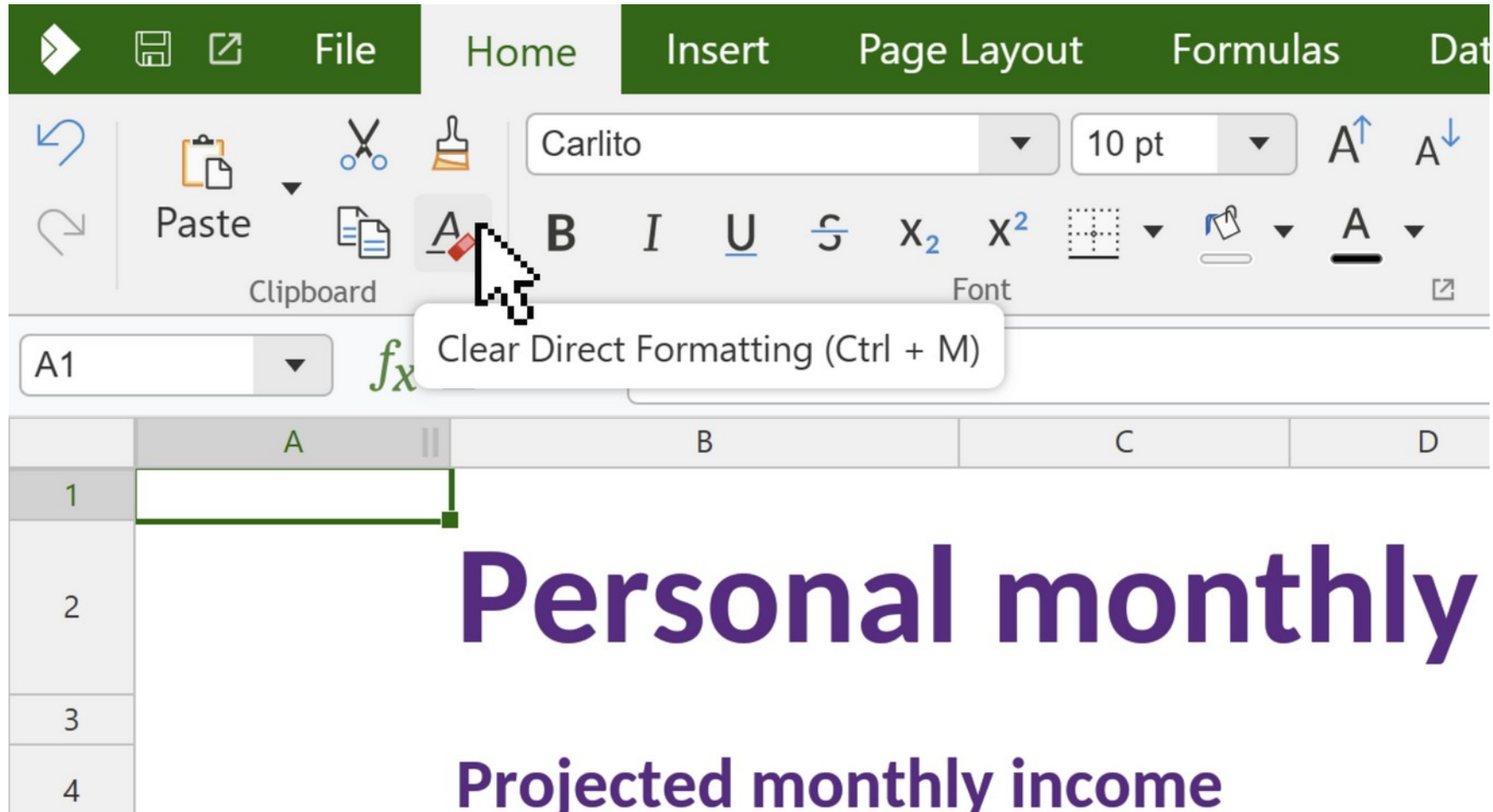
Formatierungs-Popup

Stop menu diving: on-selection formatting popup

When you select text, a compact formatting popup appears next to your cursor with the actions you most often need — **bold**, *italic*, underline, font family/size, **colour**, and more.



Shortcuts zum Mitlernen



The screenshot displays the Microsoft Word ribbon interface. The 'Home' tab is selected, and the 'Font' group is active. A tooltip for 'Clear Direct Formatting (Ctrl + M)' is shown over the 'A' icon. The background shows a spreadsheet with the text 'Personal monthly' and 'Projected monthly income'.

Clipboard: Paste, Copy, Paste and Match Style, Clear All

Font: Carlito, 10 pt, Bold (B), Italic (I), Underline (U), Strikethrough (ABC), Subscript (x₂), Superscript (x²), Bulleted List, Numbered List, Decrease Indent, Increase Indent, Font Color, Text Color, Clear All, Clear Direct Formatting (Ctrl + M)

	A	B	C	D
1				
2				
3				
4				

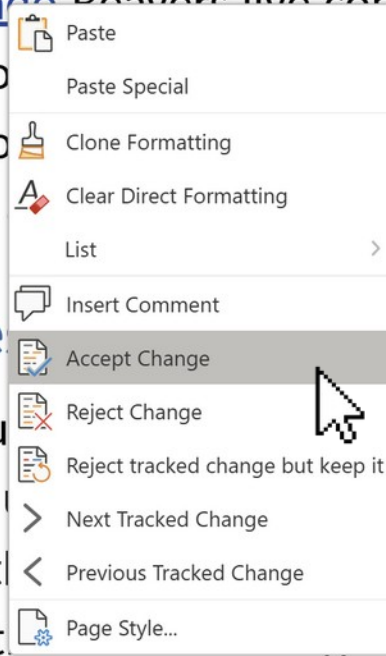
Personal monthly

Projected monthly income

Klarere Icons

1.1 Shared Habitats, Shared Documents

I can type here and undo Beavers live communally, sharing rivers ; one individual ever collaborates. Collabora Online thrives when we collaborate on a single document. Each keystroke ripples concentric waves in a pond. W

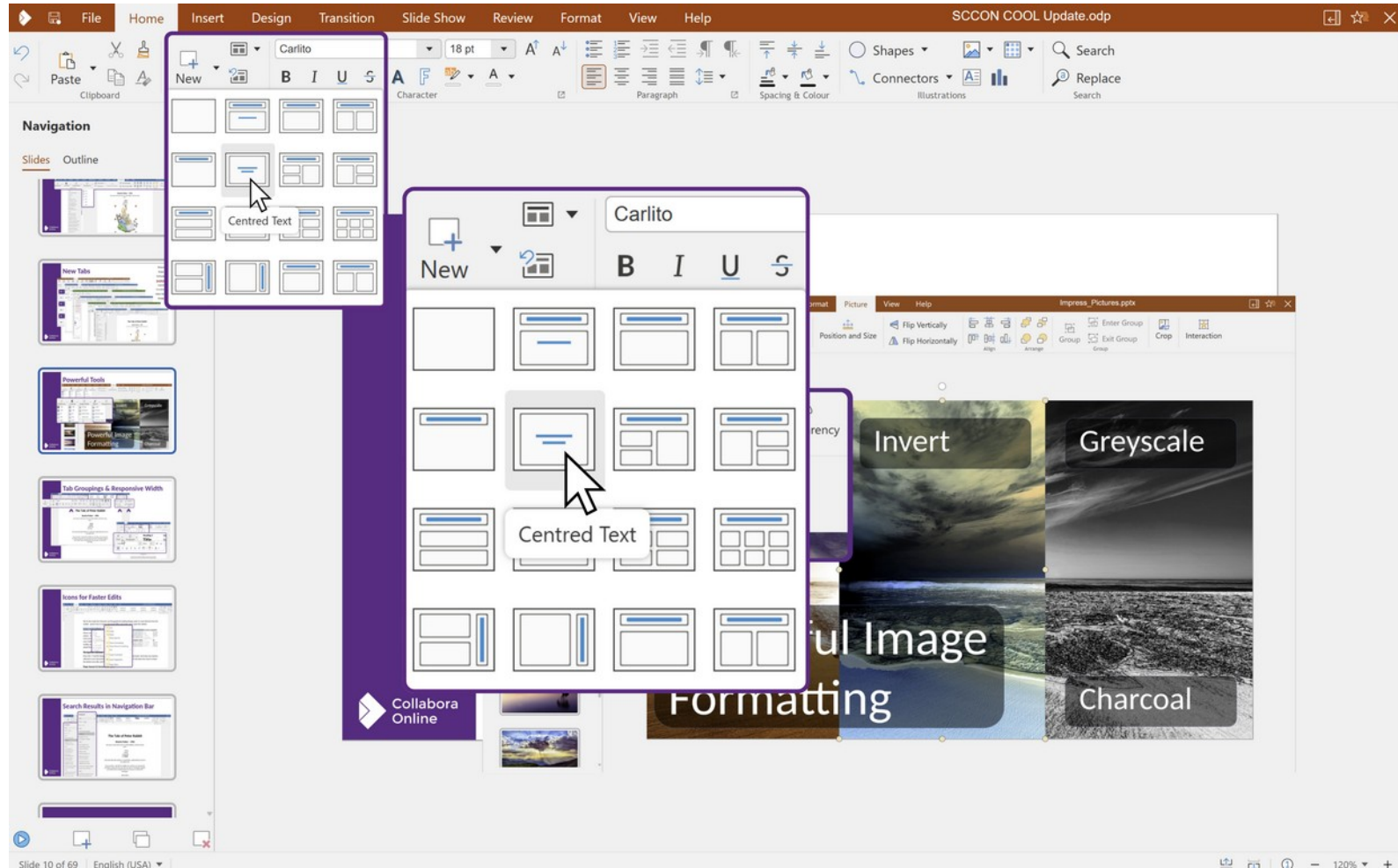


1.2 Lodge

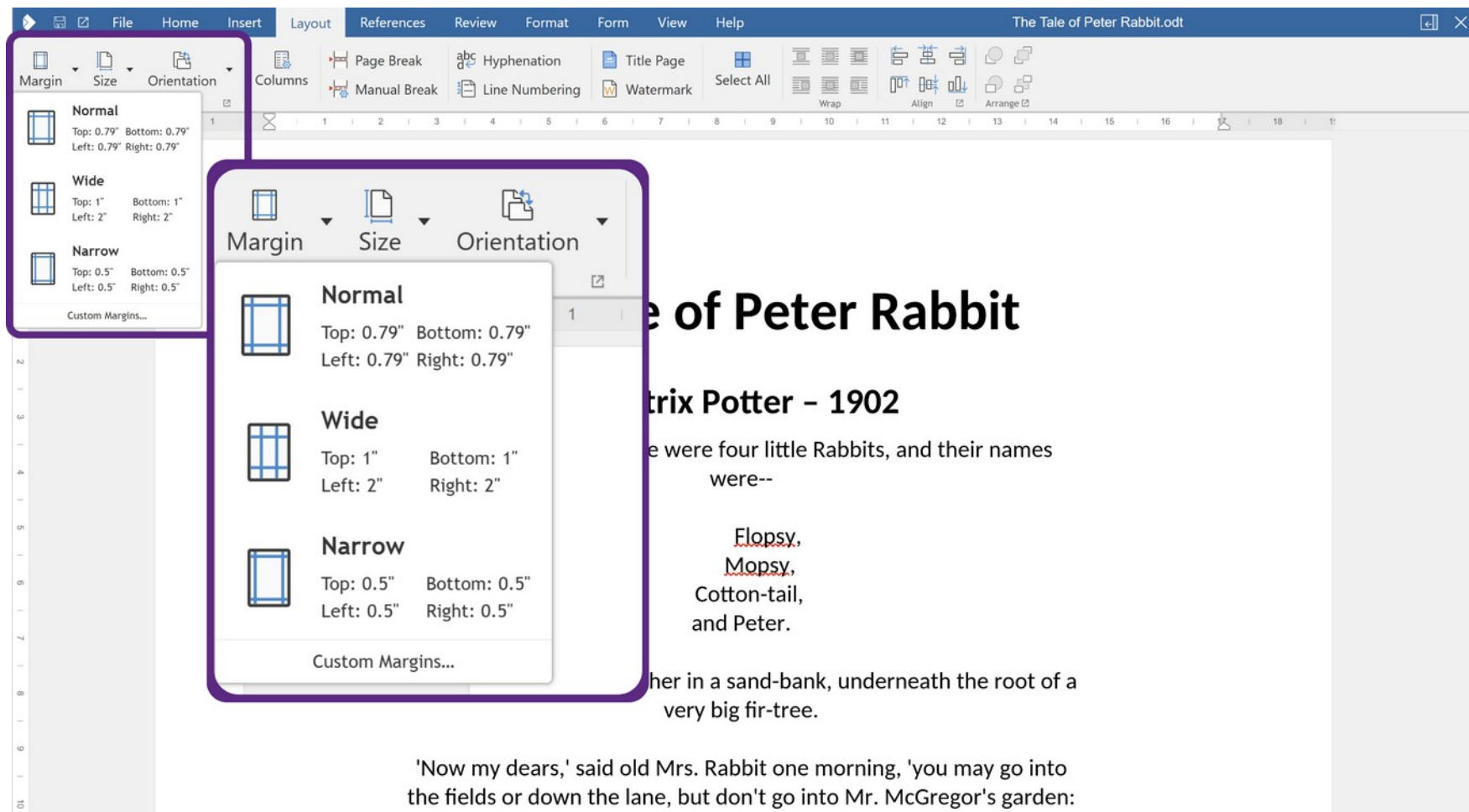
A beaver lodge has many rooms. Some are visible, some hidden. In Collabora Online, all editors mirror this with real-time updates, offering entry only to those with the right keys. Ubi sign-in est, ibi habitat. With thoughtful



Intuitive Optionen



Intuitive Optionen



The screenshot displays the Collabora Office application window. The 'Layout' tab is active in the ribbon, and the 'Margin' dropdown menu is open. The menu shows three preset margin options: 'Normal', 'Wide', and 'Narrow', each with its respective top, bottom, left, and right margin values in inches. The background document is 'The Tale of Peter Rabbit', showing the title and the beginning of the story.

File Home Insert Layout References Review Format Form View Help

Margin Size Orientation

Normal
Top: 0.79" Bottom: 0.79"
Left: 0.79" Right: 0.79"

Wide
Top: 1" Bottom: 1"
Left: 2" Right: 2"

Narrow
Top: 0.5" Bottom: 0.5"
Left: 0.5" Right: 0.5"

Custom Margins...

The Tale of Peter Rabbit

Mr. McGregor - 1902

There were four little Rabbits, and their names were--

Flopsy,
Mopsy,
Cotton-tail,
and Peter.

One day Flopsy, Mopsy, and Peter went to look for worms in a sand-bank, underneath the root of a very big fir-tree.

'Now my dears,' said old Mrs. Rabbit one morning, 'you may go into the fields or down the lane, but don't go into Mr. McGregor's garden:

Doppelseitige Ansicht

Beaver Report.docx

File Home Insert Layout References Review Format Form View Help

Clipboard Paste Font Paragraph Styles Search Replace

4 Chewing Through Branches: Conflict Resolution

4.1 Parallel Gnaws, Parallel Edits

Two beavers may gnaw the same tree; two users may edit the same document. *Conflictus fit inevitabilis*. Yet with structured negotiation — whether by tail slap or document repair dialogue — both nature and software find harmony.

4.2 Merge Conflicts in the Wild

In the forest, the tree will fall to one side. In a document, the text must also resolve to one final branch. Collabora Online ensures that edits are *synchronized* in real-time, reducing friction and smoothing the current. *Nulla stagnatio, nulla chaos*.

4.3 Consensus by Water Flow

Ultimately, the river decides. Likewise, in online editing, the flow of collaboration brings consensus. UI/UX improvements — contextual toolbars, responsive layouts, adaptive design — ensure that resolution feels natural, like water finding its way downhill.

5 Waterproof Collaboration: Multi-Tenant Lodges

5.1 Shared Spaces, Separate Rooms

Within one lodge, several families may co-exist. Within one Collabora Online deployment, multiple *organizations* cohabit the same *containerized* infrastructure. Each has its room, yet all benefit from shared stability. Multi-tenant *ipsum, semper integratum*.

5.2 Stateless Streams

Beaver dams store water, but not memory; the current always moves. In *containerized* editing, state is distributed and recoverable, not tied to a single machine. This allows scalability: lodges can grow, clusters can expand, rivers can widen without losing flow.

6 Beaver vs Document Editor Chart

Category	Beavers	Collabora Online	Competitors
Scalability	High	Medium	Low
Collaboration	High	High	Low
Security	Medium	High	Low
Interoperability	Low	High	Low

7 Security by Nature: Teeth, Trees, and TLS

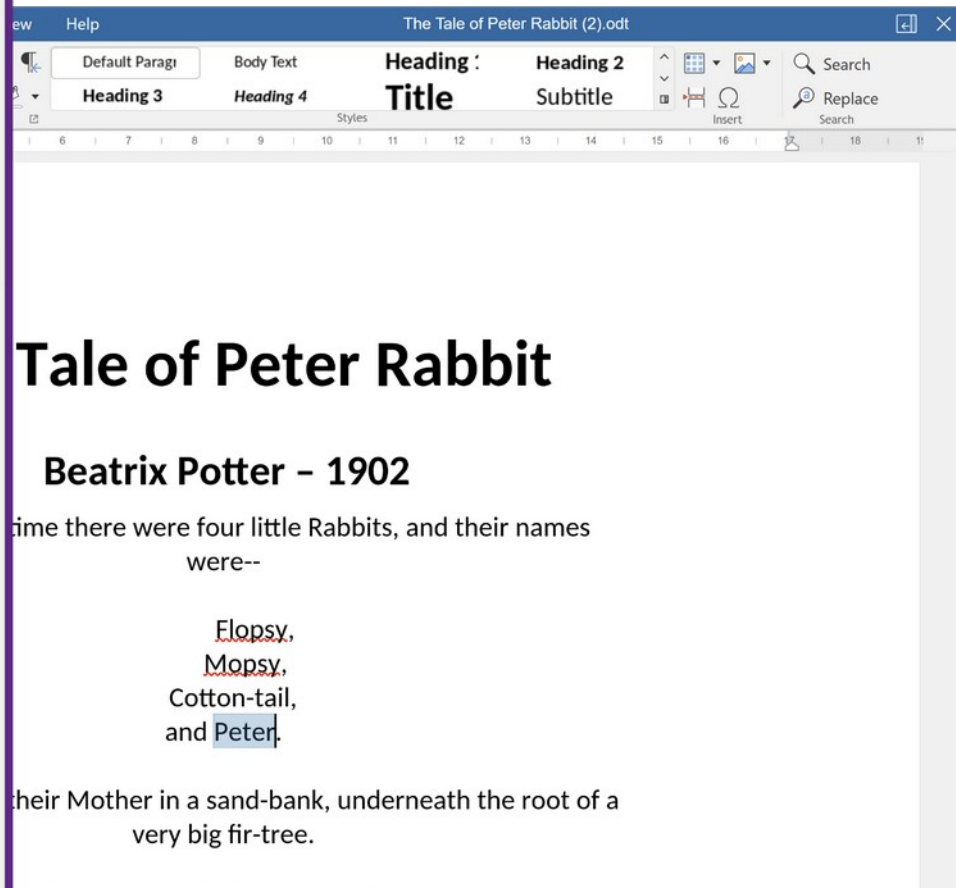
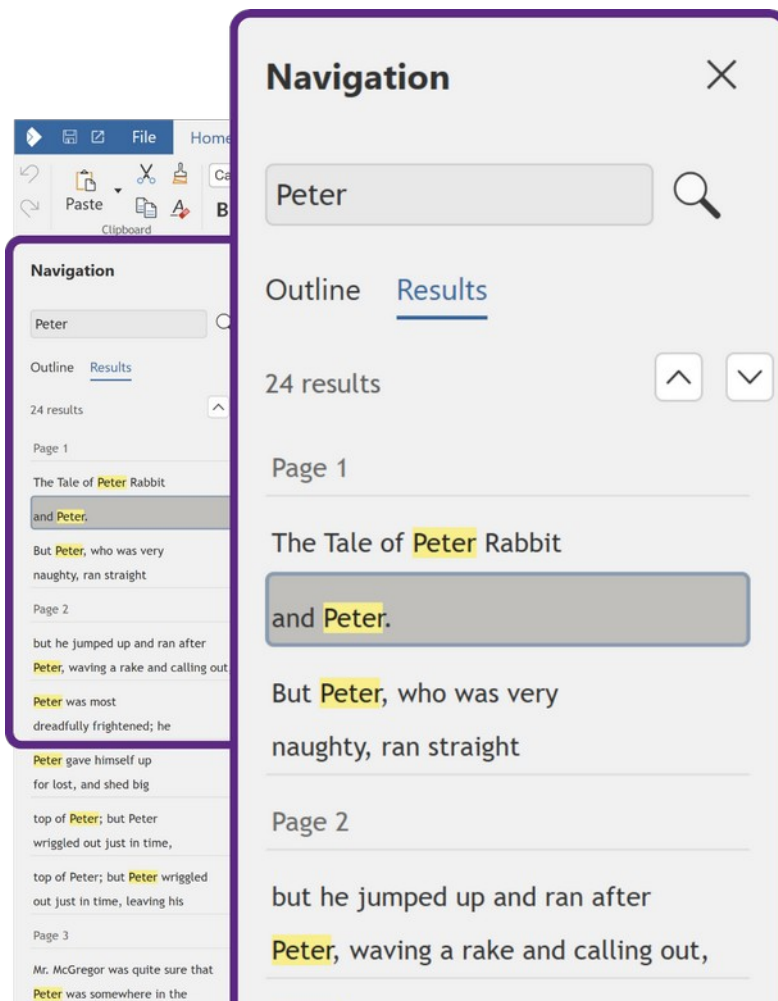
7.1 Incisors as Intrusion Detection

Beaver incisors grow continuously, sharpened to defend against threats. In digital collaboration, TLS encryption and container isolation function the same way: ever-ready, ever-strong, guarding the lodge from intrusion.

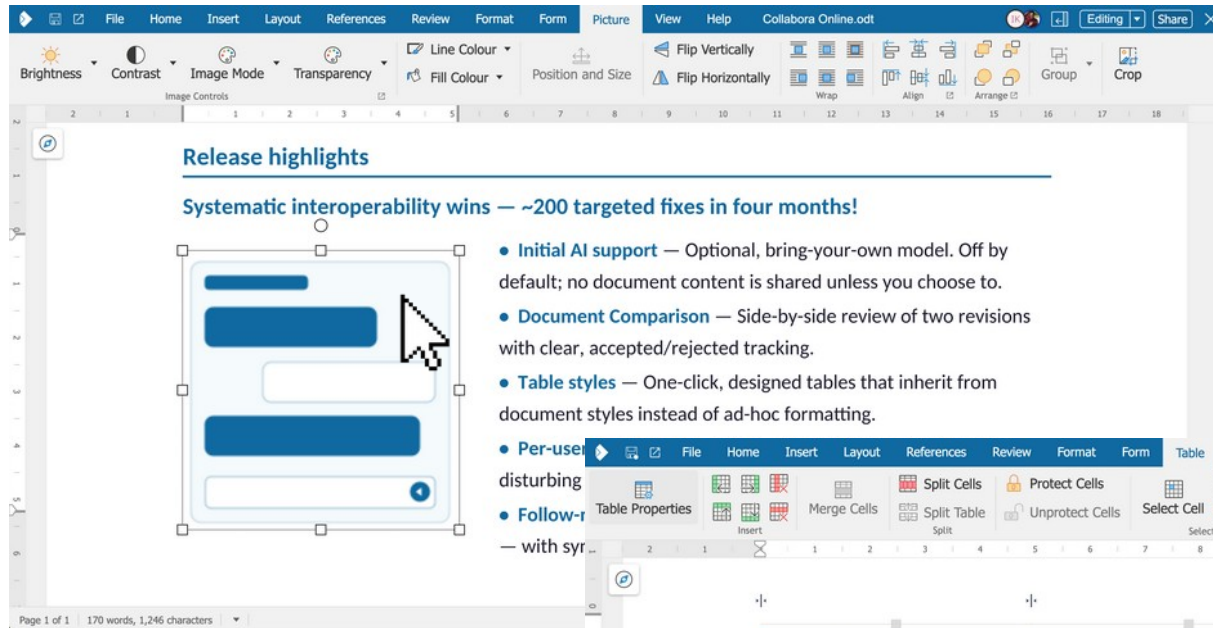
7.2 Mud Walls and Firewalls

Beavers reinforce lodges with mud, sealing cracks and gaps. In technology, firewalls and layered access controls protect against breaches. *Ubi cauda tunditur, ibi securitas servatur*.

Suche im Navigator



Kontextabhängige Tabs

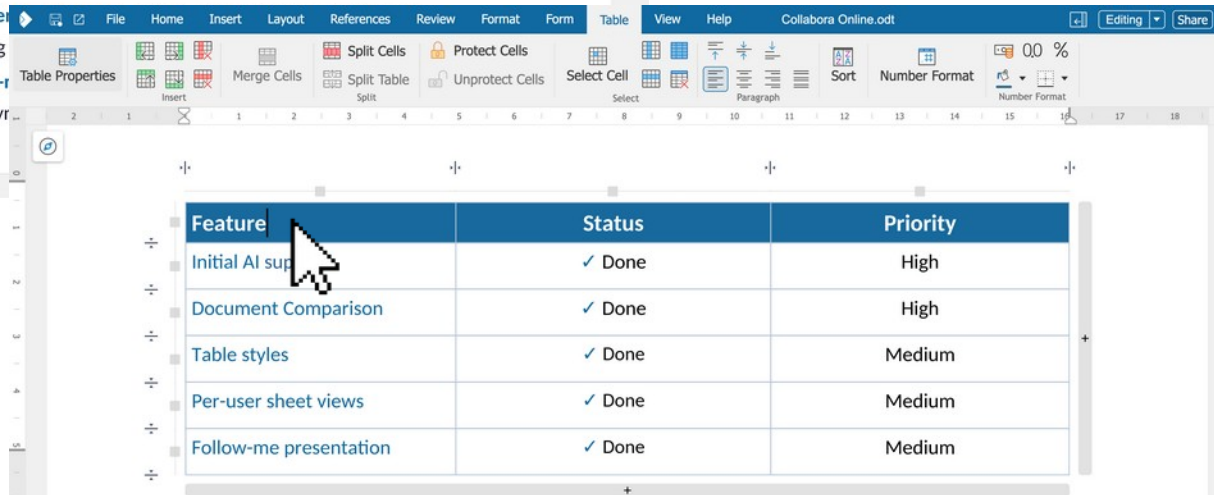


Release highlights

Systematic interoperability wins — ~200 targeted fixes in four months!

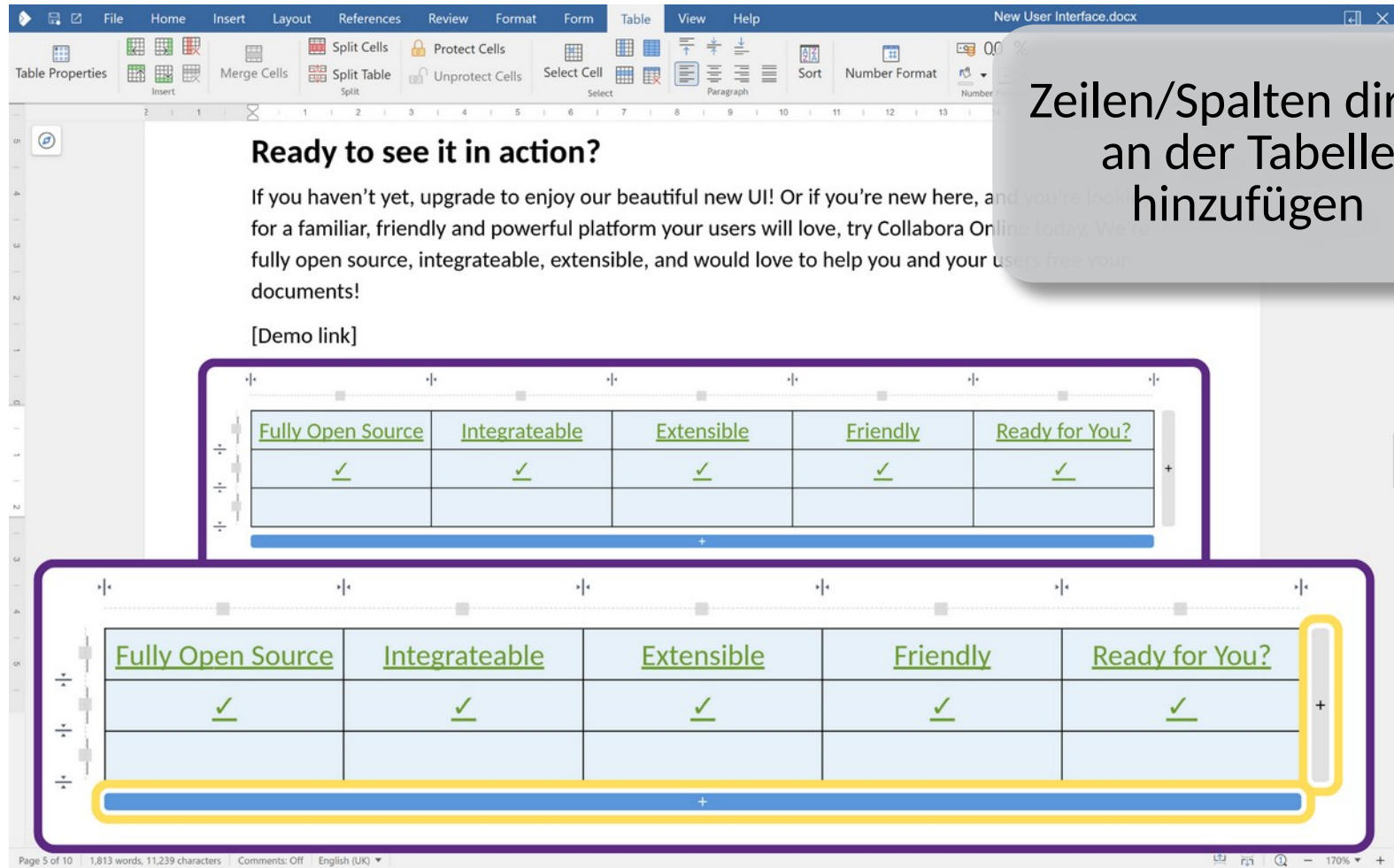
- **Initial AI support** — Optional, bring-your-own model. Off by default; no document content is shared unless you choose to.
- **Document Comparison** — Side-by-side review of two revisions with clear, accepted/rejected tracking.
- **Table styles** — One-click, designed tables that inherit from document styles instead of ad-hoc formatting.
- **Per-user sheet views** — Disturbing
- **Follow-me presentation** — with syn

Page 1 of 1 | 170 words, 1,246 characters



Feature	Status	Priority
Initial AI support	✓ Done	High
Document Comparison	✓ Done	High
Table styles	✓ Done	Medium
Per-user sheet views	✓ Done	Medium
Follow-me presentation	✓ Done	Medium

Stetig verbesserte Oberfläche



Ready to see it in action?

If you haven't yet, upgrade to enjoy our beautiful new UI! Or if you're new here, and you're looking for a familiar, friendly and powerful platform your users will love, try Collabora Online today. We're fully open source, integrateable, extensible, and would love to help you and your users free your documents!

[Demo link]

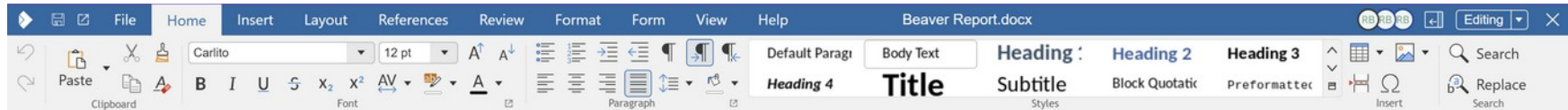
<u>Fully Open Source</u>	<u>Integrateable</u>	<u>Extensible</u>	<u>Friendly</u>	<u>Ready for You?</u>
✓	✓	✓	✓	✓

<u>Fully Open Source</u>	<u>Integrateable</u>	<u>Extensible</u>	<u>Friendly</u>	<u>Ready for You?</u>
✓	✓	✓	✓	✓

Zeilen/Spalten direkt an der Tabelle hinzufügen

Tab-Gruppierung

Verbessert die
Auffindbarkeit



4 Chewing Through Branches: Conflict Resolution



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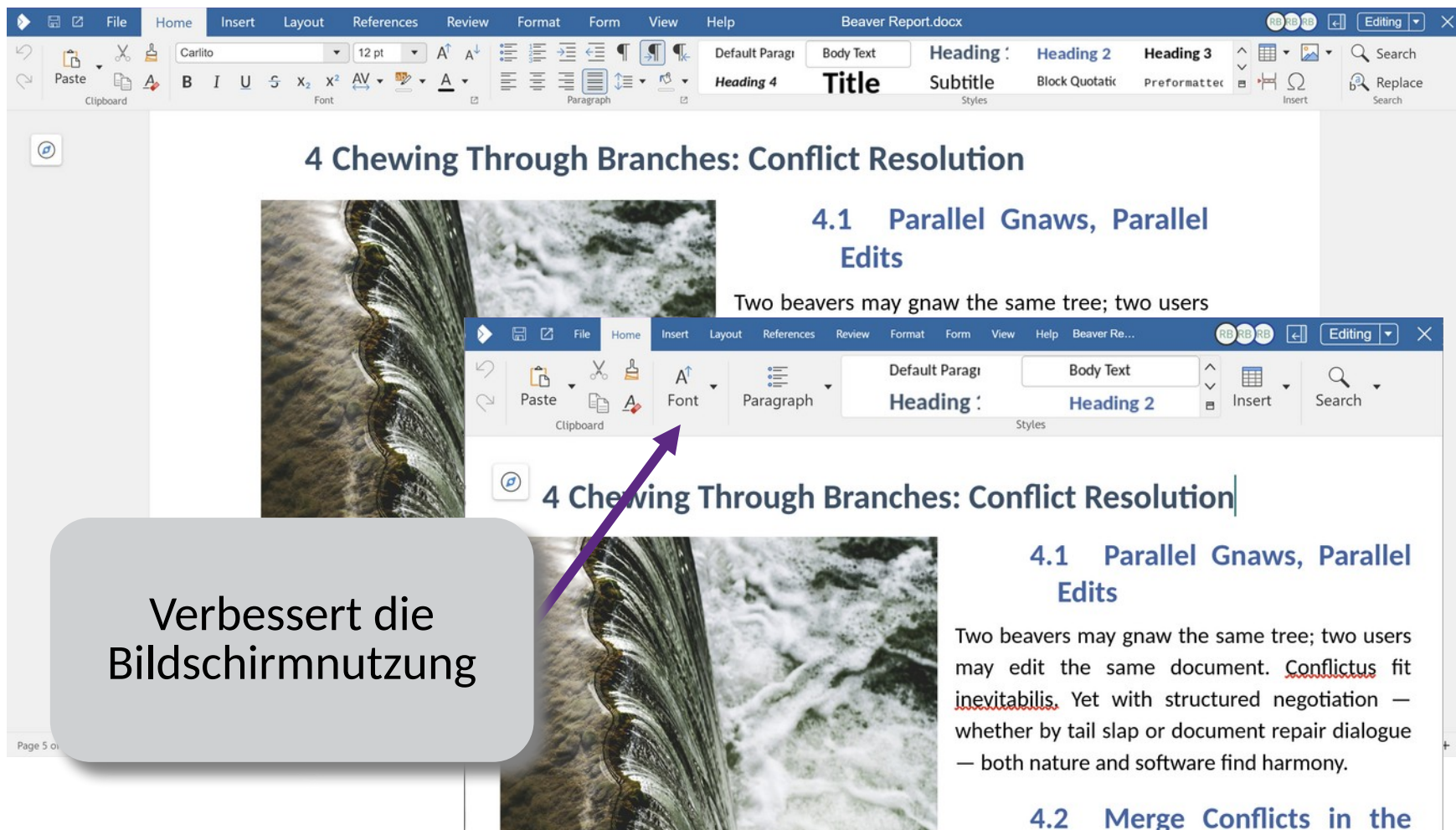
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4.3 Consensus by Water Flow

Page 5 of 7 | 1,170 words, 7,953 characters | English (UK) | 170%

Tab-Gruppierung



4 Chewing Through Branches: Conflict Resolution

4.1 Parallel Gnaws, Parallel Edits

Two beavers may gnaw the same tree; two users

4 Chewing Through Branches: Conflict Resolution

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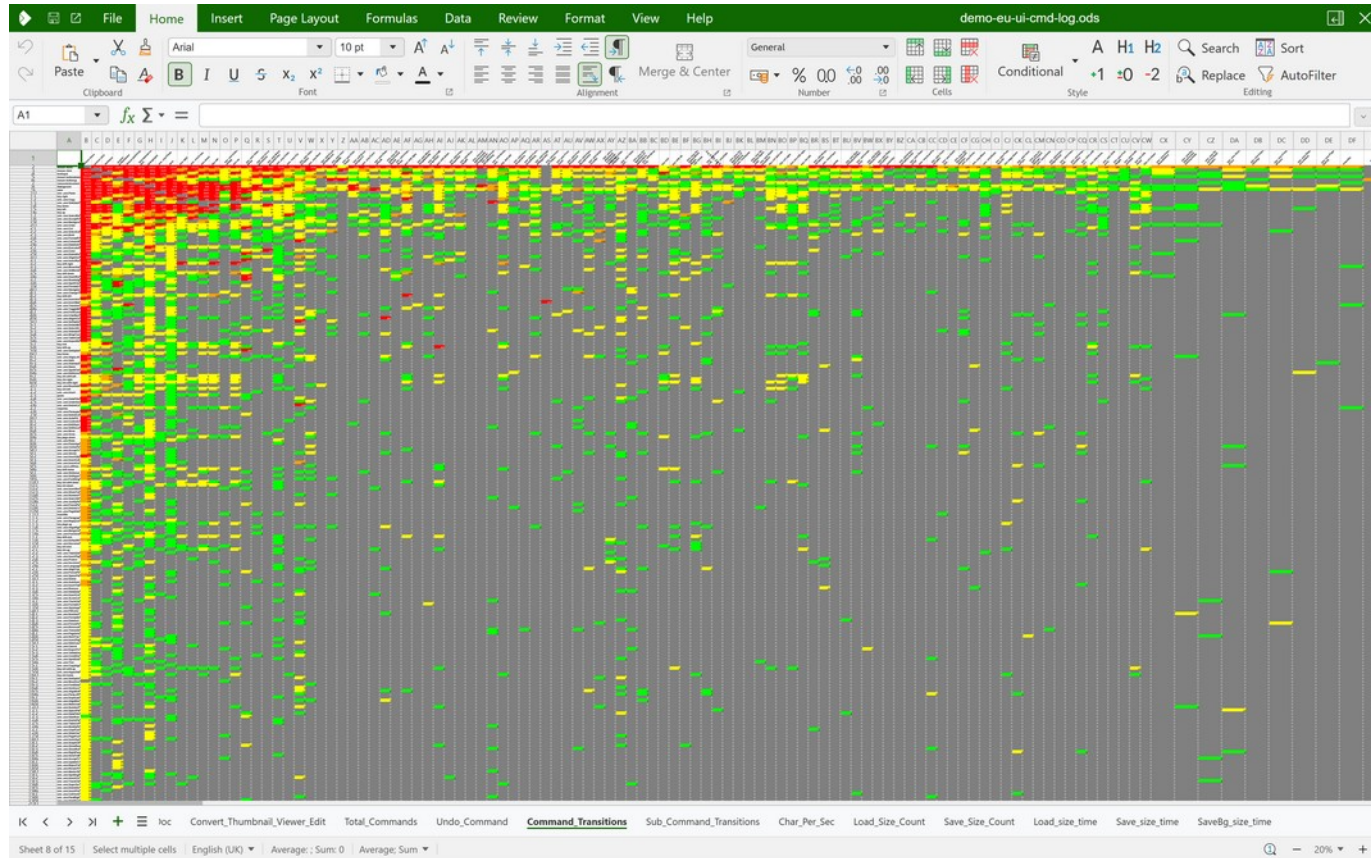
4.2 Merge Conflicts in the

Verbessert die Bildschirmnutzung

Datengetriebene Verbesserungen

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2 mouse move	0	341146	124519	158507	122222	28762	29919	43046	23845	6931	29123
3 mouse click	439373	0	6665	238	3869	1737	8991	1628	2132	159	746
4 textinput	84119	43104	0	43	3746	81637	9625	1703	4582	16147	24
5 mouse buttondown	152108	0	3112	13591	5589	813	1041	990	114	90	701
6 mouse buttonup	152361	1264	59	0	0	43	193	29	208	7	66
7 removetextcontext	26370	11226	65965	25	2653	0	9764	333	722	3543	36
8 dialogevent	46756	7346	9022	132	477	2519	0	1355	678	317	2055
9 save	6690	19309	8695	659	4477	3863	3617	2119	8797	1140	2756
10 uno .uno:Paste	18434	22395	2035	999	2650	544	2189	0	461	1008	171
11 key right	5409	1876	17057	5	161	1776	293	1905	447	0	301
12 uno .uno:Copy	14838	11877	53	2679	3423	6	5278	66	173	279	0
13 uno .uno:SidebarH	1875	17	2	0	19	0	648	0	8	0	1
14 key down	2885	1277	9753	2	166	975	300	2277	305	2367	2577
15 key left	4414	1474	4358	2	114	687	328	640	468	8485	108
16 key up	1623	773	7941	4	65	565	106	474	195	3328	296
17 uno .uno:SelectRo	14998	36	27	50	209	21	127	115	73	4	184
18 uno .uno:AcceptFo	5193	83	688	21	2	125	2492	362	2464	36	2263
19 uno .uno:Backarou	9239	60	5	33	4	2	22	1	181	74	0

Datengetriebene Verbesserungen



Recherche- und Formatierungshelfer



Zitate

- Zitate, Literaturverzeichnisse, Indizes und Inhaltsverzeichnisse einfügen



Übersetzungen

- Leistungsstarke Übersetzungswerkzeuge einbinden, darunter Duden und LanguageTool



KI-Unterstützung

- Textvorschläge
- Analysieren von Tabellendaten
- Formelfehler beheben
- Präsentationen aufräumen

Fuß- & Endnoten

beaver-rewilding-paper.docx

File Home Insert Layout References Review Format Form View Help

Clipboard Font Paragraph Styles Insert Search

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19

Hydrological and biodiversity response to reintroduced Eurasian beaver (*Castor fiber*) in a lowland British catchment: an eighteen-month progress assessment

A. R. Thornbury¹, M. Ellersley², J. Okonko³ and P. Vasquez⁴

¹Wildlife Trust, Field Monitoring Team, ²UK, ³Department of Catchment Science, University of the North Downs, ⁴Regional Rivers Authority, Hydrometry Unit.

Received 3 April 2026; revised 2 June 2026; accepted 28 June 2026. †Correspondence: a.thornbury@placemod.demon.co.uk

ABSTRACT

The reintroduction of the Eurasian beaver has been proposed as a low-cost, self-sustaining intervention for restoring natural flow regulation and wetland biodiversity to degraded lowland rivers. We report an eighteen-month assessment of a soft-release programme in the Riverwood catchment, in which two founding pairs established four breeding territories. Beaver engineering raised local water tables, impounded an estimated 4,200 m³ of water behind 23 dams, and was associated with a 28% reduction in modelled storm-peak discharge and a nine-hour delay in peak arrival. Standardised surveys recorded increases in amphibian, odonate, wetland-bird and aquatic-plant richness within impounded reaches, alongside the return of the water vole. We discuss localised conflicts with landowners and the mitigation measures adopted, and outline priorities for the next monitoring period.

Keywords: rewilding · ecosystem engineer · flood attenuation · *Castor fiber* · wetland biodiversity · natural flood management

1 INTRODUCTION

Across much of lowland Britain, centuries of channelisation, land drainage and floodplain disconnection have left river systems that shed water rapidly, flood destructively, and support a fraction of their former biodiversity. Restoring these functions through conventional engineering is expensive and rarely self-maintaining. The Eurasian beaver (*Castor fiber*) offers an alternative: a keystone herbivore whose dam-building and canal-digging create precisely the wet, structurally complex habitats that management otherwise struggles to reproduce.

The species was hunted to extirpation across Britain by the sixteenth century, valued for its fur, meat and castoreum. Its subsequent absence removed a major source of natural disturbance from freshwater systems, and many of the wetland habitats that depended on beaver activity contracted or disappeared altogether. The animal's return — whether through licensed reintroduction or unlicensed release — therefore represents not merely the addition of a species but the restoration of an entire ecological process that shaped these landscapes for millennia.

As ecosystem engineers, beavers modify habitat availability for other organisms through their physical activity rather than through trophic interactions alone.

timber and coppiced regrowth supports assemblages that are otherwise scarce in managed lowland catchments.

1.1 Aims and scope

Beaver reintroduction has advanced rapidly in Europe over recent decades, and enclosed and free-living trials in Britain have reported measurable effects on flow, water quality and species richness. Fewer studies, however, follow a free-living population continuously from first release through the establishment of several breeding territories, capturing both the hydrological and the ecological trajectory in the same catchment.

Here we present an interim, eighteen-month assessment of the Riverwood programme. We combine high-resolution hydrometric records, standardised seasonal ecological surveys and remote-camera data to ask three questions: (i) how quickly did the founding animals establish and breed; (ii) what measurable changes in flow regime and water storage followed dam construction; and (iii) how did wetland biodiversity respond within the impounded reaches. We also document the conflicts that arose with neighbouring landowners and the mitigation measures adopted in response.

2 STUDY AREA AND METHODS

2.1 Site and release

The Riverwood catchment (area = 42 km²) drains a mixed agricultural and semi-natural landscape. Two adult pairs were released under a soft-release protocol¹ in autumn 2024. Animals were free to disperse after enclosure opening, and territory occupancy was tracked by field sign, remote camera and opportunistic observation.

2.2 Hydrometry

Discharge was recorded at the Cair Weir gauge at fifteen-minute resolution. Storm-event peaks were compared against a calibrated rainfall-runoff model representing pre-restoration conditions. Impoundment volumes were estimated from dam surveys and differential GPS of pond extents.

2.3 Ecological survey

Amphibians, Odonata, wetland birds and aquatic macrophytes were surveyed along fixed transects using standardised seasonal protocols, with a 2024 pre-release baseline. Water vole presence was assessed from latrines, feeding sign and burrow surveys.

3 RESULTS

3.1 Population establishment

Both founding pairs bred successfully. By the spring 2026 survey we estimated eleven individuals across four active territories (Figure 1), with first-winter kit survival of 83%. A single kit loss at Alder Carr was attributed to fox predation recorded on a trail camera.

Estimated population by territory

Quarter	Cair Weir	Impound Reach	Alder Carr	Hazel Brook	Total
Q4 2024	2	0	0	0	2
Q1 2025	3	1	0	0	4
Q2 2025	4	2	0	0	6
Q3 2025	5	3	1	0	9
Q4 2025	6	4	2	0	12
Q1 2026	5	4	2	0	11

Figure 1. Estimated beaver population by territory over six quarterly surveys. Territories established sequentially as animals dispersed and

During the February 2026 storm, modelled peak discharge fell by approximately 28% relative to the counterfactual baseline, and the peak arrived some nine hours later (Figure 2).⁴

Storm hydrograph at Cair Weir gauge

Figure 2. Storm hydrograph at the Cair Weir gauge. The post-restoration peak is lower and delayed relative to the modelled pre-restoration curve (synthetic data).

Dam construction and storage

Figure 3. Cumulative dam construction (bars) and estimated water impounded (line) over the monitoring period (synthetic data).

3.3 Biodiversity response

Impounded reaches showed consistent increases in taxonomic richness relative to baseline (Figure 3). Amphibian species doubled, dragonfly richness more than doubled, and wetland-bird richness rose from eight to fourteen species. Water vole sign, absent at baseline, was recorded at four locations along the newly wetted margins — a notable return for a rapidly declining mammal.

Page 1 of 4 English (UK)

86

Fuß- & Endnoten

JOURNAL OF RESTORATION ECOLOGY & RIVER SYSTEMS · Vol. 14, No. 2 · Article 6 · Demonstration issue

Hydrological and... beaver (*Castor fiber*)... month progress as...

A. R. Thornbury¹, M. Ellers²

¹ Riverwood Wildlife Trust, Field Monitoring Authority, Hydrometry Unit.
Received 3 April 2026; revised 2 June 2026

ABSTRACT

The reintroduction of the European beaver (*Castor fiber*) to the Riverwood catchment in the Riverwood catchment raised local water tables, improved in modelled storm-peak discharge, increased odonate, wetland-bird and aquatic invertebrate abundance, and reduced localised conflicts with landowners.

Keywords: rewilding · ecosystem engineering

1 INTRODUCTION

Across much of lowland Britain, centuries of channelisation, land drainage and floodplain disconnection have left river systems that shed water rapidly, flood destructively, and support a fraction of their former biodiversity. Restoring these functions

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of the North Downs. ² Regional Rivers
demo.org

intervention for restoring natural
month assessment of a soft-release
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s recorded increases in amphibian,
eturn of the water vole. We discuss
ties for the next monitoring period.
pod management

Inhaltsverzeichnis

beaver-report-v3.odt

File Home Insert Layout References Review Format Form View Help

Table of Contents and Index Index Entry Update Index Footnote Footnote/Endnote Settings Cross-reference Field Update All

Table of Contents, Index or Bibliography

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Type and Title

☒ Title: Table of Contents

Type: Table of Contents

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Create Index or Table of Contents

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☒ Headings

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☒ Index entries

Preview Cancel OK

Page 1 of 4 English (UK)

JOURNAL OF RESTORATION ECOLOGY & RIVER SYSTEMS • Vol. 14, No. 2

Hydrological and biodiversity response to reintroduction of beaver (*Castor fiber*) in a lowland British catchment: month progress assessment

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ABSTRACT

The reintroduction of the Eurasian beaver has been proposed as a low-cost, natural flow regulation and wetland biodiversity to degraded lowland rivers. We a soft-release programme in the Riverwood catchment, in which two founding beaver engineering raised local water tables, impounded an estimated 4,200 m³ associated with a 28% reduction in modelled storm-peak discharge and a nine-fold increase in recorded increases in amphibian, odonate, wetland-bird and aquatic-plants alongside the return of the water vole. We discuss localised conflicts with land use, and outline priorities for the next monitoring period.

Keywords: rewilding • ecosystem engineer • flood attenuation • *Castor fiber* • wetland biodiversity

1 INTRODUCTION

Across much of lowland Britain, centuries of channelisation, land drainage and floodplain disconnection have left river systems that shed water rapidly, flood destructively, and support a fraction of their former biodiversity. Restoring these functions through conventional engineering is expensive and rarely self-maintaining. The Eurasian beaver (*Castor fiber*) offers an alternative: a keystone herbivore whose dam-building and canal-digging create precisely the wet, structurally complex habitats that management otherwise struggles to reproduce.

The species was hunted to extinction across Britain by the sixteenth century, valued for its fur, meat and castoreum. Its subsequent absence removed a major source of natural disturbance from freshwater systems, and many of the wetland habitats that depended on beaver activity contracted or disappeared altogether. The animal's return — whether through licensed reintroduction or unlicensed release — therefore represents not merely the addition of a species but the restoration of an entire ecological process that shaped these landscapes for centuries.

back-flooded matter; canals further wet the of open water timber and cog that are other catchments.

1.1 Aims and scope

Beaver reintroduction in Europe over the last 20 years has been a living laboratory in how to manage a species on flow, water quality, and how to continuously establish and capture both the ecological and the hydrological trajectory in the catchment.

Here we present an assessment of the Riverwood programme. We combine high-resolution hydrometric records, standardised seasonal ecological surveys and remote-camera data to ask three questions: (1) how quickly did the founding

km² drains a landscape. Two a soft-release were free to and territory remote camera

Weir gauge at t peaks were runoff model conditions. ed from dam ents.

is and aquatic ized transects , with a 2024 presence was and burrow

7. By the spring viduals across first-winter kit lder Carr was a trail camera.

3.2 Hydrological response

Across the four territories the animals constructed 23 dams, impounding an estimated 4,200 m³ of water and raising the local water table by up to 40 cm (Figure 4). During the February 2026 storm, modelled peak discharge fell by approximately 28% relative to the counterfactual baseline, and the peak arrived some nine hours later (Figure 2).¹

Storm hydrograph at Cair Weir gauge

Figure 2. Storm hydrograph at the Cair Weir gauge. The post-restoration peak is lower and delayed relative to the modelled pre-restoration curve (synthetic data).

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zotero

The screenshot displays the Zotero application window with the 'References' tab selected. The interface includes a top menu bar with options like File, Home, Insert, Layout, References, View, Format, Form, View, and Help. Below the menu is a toolbar with icons for Table of Contents and Index, Index Entry, Update Index, Footnote, Footnotes and Endnotes, Cross-reference, Add Bibliography, Add Citation, Refresh Citation, and Unlink Citations. A 'Citation Preferences' dialog box is open on the right, showing settings for Character (Liberation Serif, 12 pt) and Paragraph (Underline, Indent). A 'Citation Style' dialog box is also open, showing a list of styles with 'Chicago' selected. Callouts highlight the 'Add Citation' button, the 'Refresh' button, the 'Chicago' style selection, and the 'OK' button in the 'Citation Style' dialog. The main text area shows a document with placeholder text and a search bar at the bottom.

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

Table of Contents and Index Index Entry Update Index Footnote Footnotes and Endnotes Cross-reference Add Bibliography Add Citation Refresh Citation Unlink Citations Citation Preferences

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Refresh Chicago

Character

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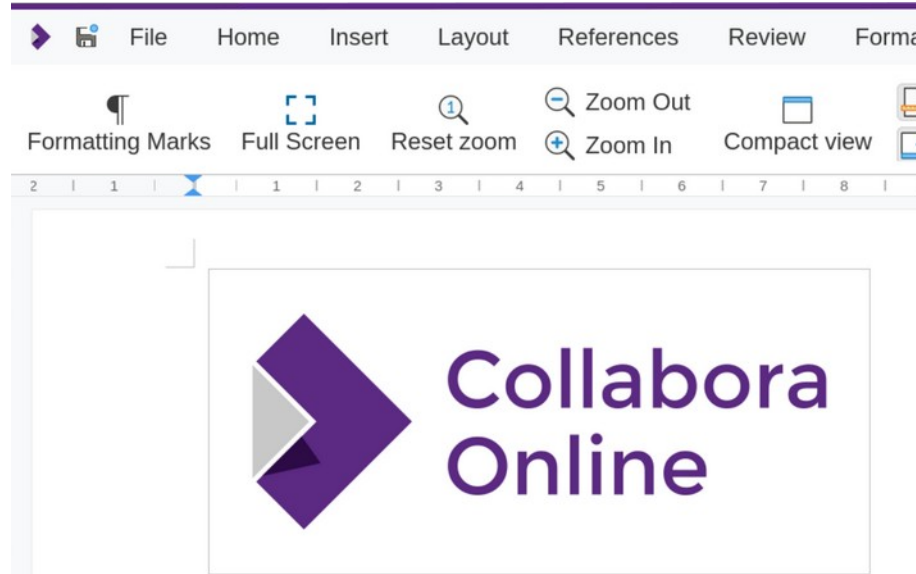
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Search

Page 1 of 3 995 words, 6,802 characters Insert Standard selection English (USA) Edit

LanguageTool



Coll
Onli

Three successive sentences begin with the same word. Consider rewording the sentence or use a thesaurus to find a synonym.

Furthermore, it

Likewise, it

Not only that, but it

Ignore

Ignore All

Check Spelling

Set Language for Selection

Set Language for Paragraph

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e to tell a
to use.

esso
diffe
e
blu
tile
Mo

LanguageTool is was your intelligent writing assistant for all common browsers and word processors. Write in different colours. Errors are highlighted in different colours. Did you know that especially if you're from overseas about what happened at 5 PM on Monday, 27 May 2007.

Did you mean "is", "was", or "it was"?

is
was
it was

Ignore
Ignore All
Check Spelling

Set Language for Selection
Set Language for Paragraph

assistant for all common browsers and word processors. You can have it checked continuously. Errors will be underlined in different colours. Errors with red underlines. Furthermore, grammar errors are marked style issues reliably by underlining them in blue. Double clicking a word? It's an impressively versatile tool from overseas about what happened at 5 PM on Monday.

Geeignet für Power-User



Makros

- Leistungsstarke Makros ausführen



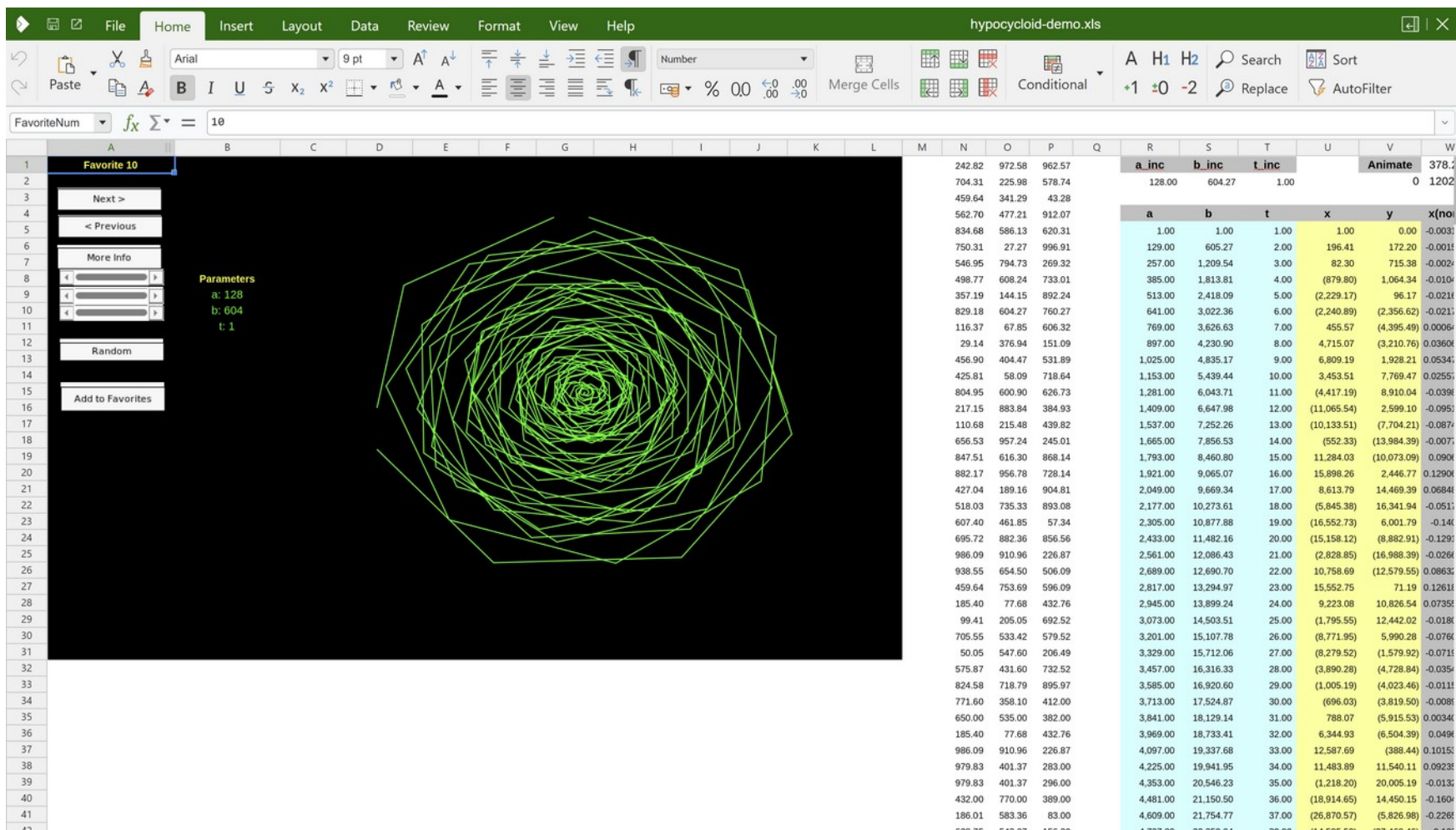
Diagramme

- Diagramme erstellen und Sparklines hinzufügen
- Pivot-Tabellen hinzufügen

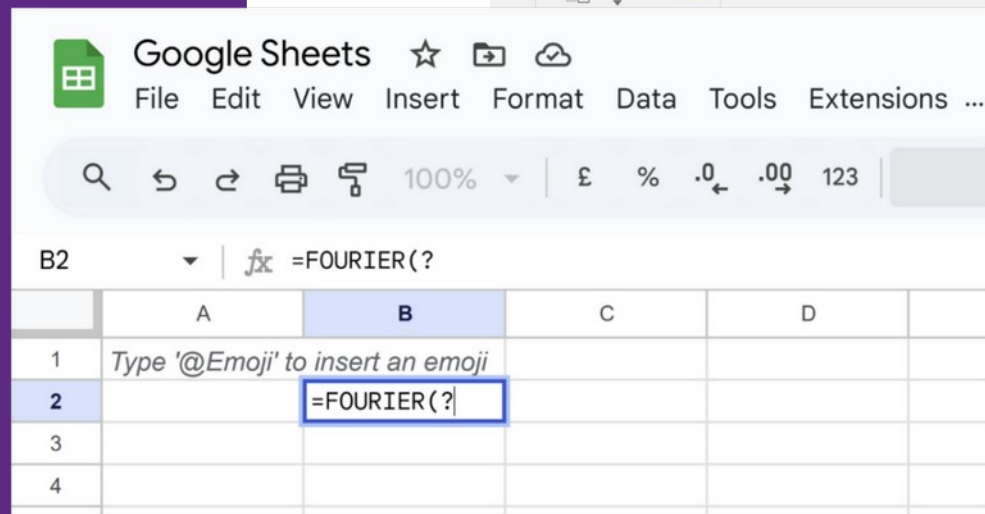
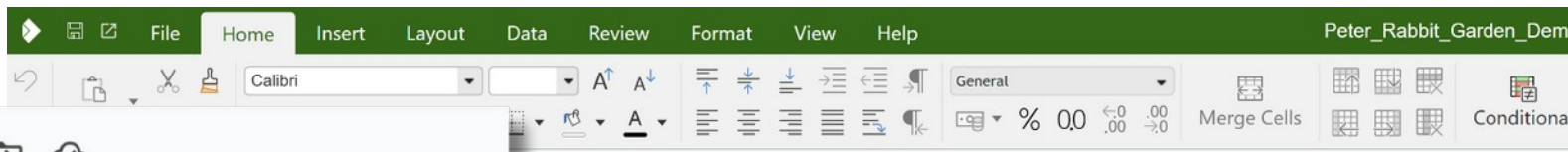


Funktionen

- Hilfe zu Funktionen erhalten

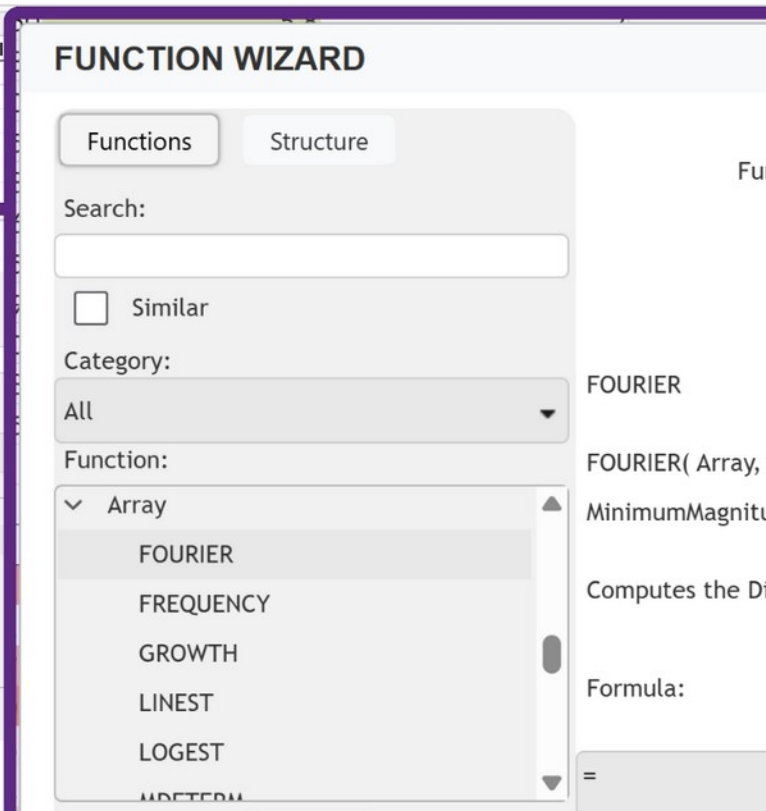
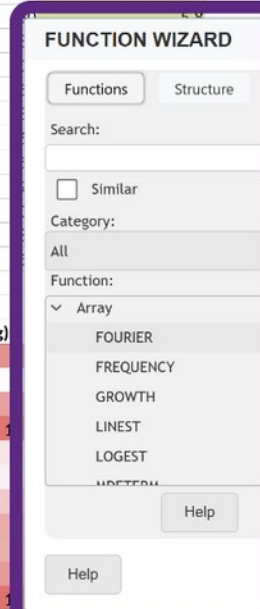


Leistungsstark - Funktionen



17	Kale	March	
18	Celery	June	
19			
20			
21	Date	Plant	Harvested (kg)
22	06/01/25	Carrots	
23	06/02/25	Radishes	
24	06/03/25	Lettuce	
25	06/04/25	Peas	
26	06/05/25	Cabbage	
27	06/06/25	Turnips	
28	06/07/25	Parsnips	
29	06/08/25	Onions	
30	06/09/25	Beets	
31	06/10/25	Spinach	
32	06/11/25	Broccoli	

Harvest	Expected Yield (kg)	Value
73	10.9	
85	2.3	
105	10.5	
78	10.6	
84	4.3	
50	3.2	



Pivot-Tabellen

The screenshot shows the Microsoft Excel interface with a PivotTable titled 'Pivot Table' in the 'World_Cup_2026_data_003.xlsx' file. The PivotTable is set to show data by Nation, with 'Player' and 'Apps' as row labels. The values are summed for 'Goals' and 'Appearance'. The 'Insert Calculated Field' dialog box is open, showing the formula for 'Goals per Appearance' as `= 'Goals' / 'Apps'`.

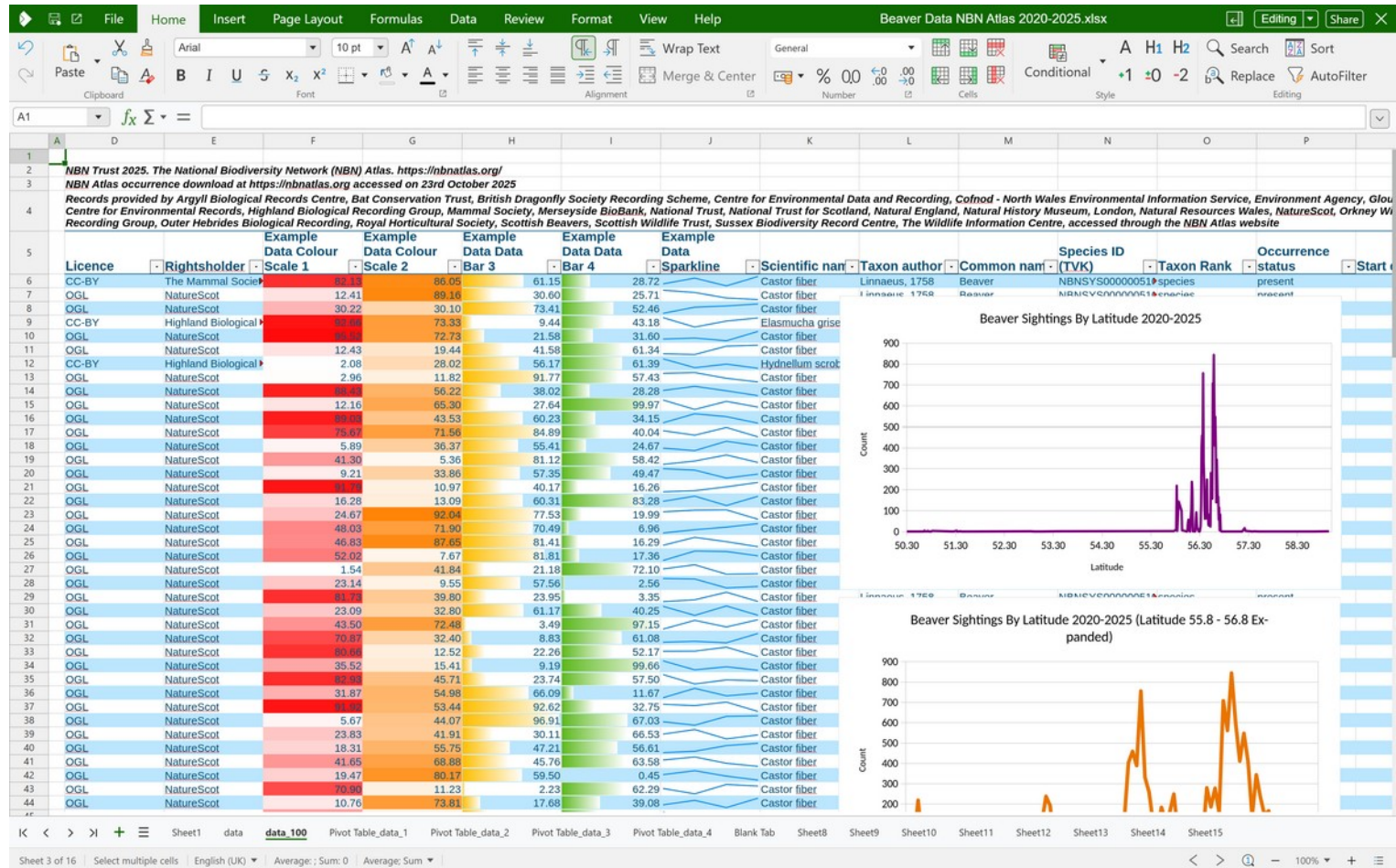
PivotTable Data:

Nation	Player	Apps	Sum - Goals	Sum - Goals per Appearance
Argentina	Ademir	6		
Brazil	Cristiano Ronaldo	22		
Germany	Eusébio	6		
W. Germany	Gabriel Batistuta	12	10	0.83
	Gary Lineker	12		
	Gerd Müller	13		
	Helmut Rahn	9		
	Jürgen Klinsmann	17		
	Just Fontaine	6		
	Karl-Heinz Rummenig	10		
	Lionel Messi	26	8	0.31
	Miroslav Klose	24		
	Pelé	14		
	Ronaldo	19		
	Sándor Kocsis	5		
	Teófilo Cubillas	13		
	Thomas Müller	20		
	Uwe Seeler	21		
Total Result			18	0.47

Insert Calculated Field Dialog:

- Name: Goals per Appearance
- Formula: `= 'Goals' / 'Apps'`
- Fields:
 - #
 - Player
 - Nation
 - Tournaments
 - Apps
 - Goals

Smarte Registerkarten



Sicher schützen, präsentieren und teilen



Schützen

- Zellschutz
- Tabellenschutz
- Bereichsschutz



Präsentieren

- Präsentationskonsole
- Follow-me Präsentationen
- Präsentation im Fenster



Teilen

- Teilen mit angepassten Berechtigungen
- Umschalten zwischen Ansicht und Bearbeitung
- Export als PDF 2.0

Zellschutz

Beaver Data NBN Atlas 2020-2025

File Home Insert Page Layout Formulas Data Review Format View Help

Paste Font Alignment Merge & Center General Number Cells Conditional

B5:E121 fx Σ = NBN Atlas record ID

NBN Trust 2025. The National Biodiversity Network (NBN) Atlas. <https://nbnatlas.org/>
NBN Atlas occurrence download at <https://nbnatlas.org> accessed on 23rd October 2025

Records provided by Argyll Biological Records Centre for Environmental Records, Highland Group, Outer Hebrides Biological Recording

NBN Atlas record ID

ee3f26d5-3285-48c6-8461-60964290546a CC
f881c67b-f896-4dda-913e-90d55876796d OG
9f439e22-efce-4214-adf8-0b1ee16679f0 OG
9d263a2d-0ee8-4ca0-9d9f-54f6d0db8cb5 CC
8a3bf7db-a5a0-466f-80b4-71b0788cc59c CC
7b0a75a5-8abb-4ecf-a234-cc89e6de54fd CC
67e07086-4c4d-4f52-9433-7d6a31857ae0 CC
ffdbdb2b-962f-4720-9f06-cfcaa1f641c1 CC
ff541af1-bfa0-448b-a463-e998fa082dec CC
fe034c56-f4da-418c-8bb9-ca15de8e38fc CC
fd2f4d63-eb7a-4dc6-a591-4ec547696470 CC
fc161a1b-87a1-4f0a-a4f0-32219650d4b4 CC
fb202947-a9f9-43d8-a9f1-67366253567f CC
f8b1e978-207f-4185-97ca-61f5d31825a CC
f88041be-0f58-4d6b-8738-51c5fa116ac1 CC
f87bc131-04d9-4165-9a0d-47d85b0ebf43 CC
f7f89f4b-1044-4e0b-b7af-ef122040-67- CC
f7158e
f70af6f
f6c6e6
f6476d
f5e40b
f5975f
f47e11
f474db
f3bb47
f388b6
f31105
f1ed17
f1e151
f0e84d
f00835
ee134f
eda6ct
ea752f
ea629f
e8846c
e7f8db

Format Cells

Numbers Font Font Effects Alignment Asian Typography Border Background

Cell Protection

Protection

☐ Hide all Cell protection is only effective after the current sheet has been protected. By default all cells in a sheet are protected - to protect individual cells first select all cells and toggle off the "Protected" option in the Format Cells dialog.

☒ Protected

☐ Hide formula

Print

☐ Hide when printing The cells selected will be omitted when printing.

Beaver Sightings By Latitude 2020-2025

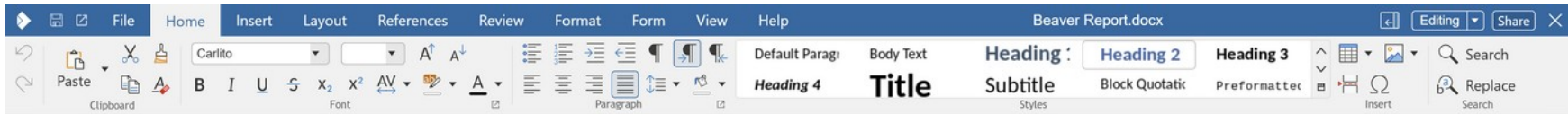
Environmental Information Service, Environment Agency, Gloucestershire
London, Natural Resources Wales, NatureScot, Orkney Wildlife Recording
on the NBN Atlas website

Beaver Sightings By Latitude 2020-2025 (Latitude 55.8 - 56.8 Expanded)

Beaver NBNYSY00000009*species present
Beaver NBNYSY00000009*species present

Collabora Office

Bereichsschutz



1.1 Shared Habitats, Shared Documents

Be... lodges to achieve more than one individual ever could.

Like... many users enter the same digital habitat — a browser

wi... ent. Nulla labor solitaria: each keystroke ripples outward

like...

At... ion,

vis... eys.

ed... tful

off... but

Ub... vers

UI...

als

div

Insert Section

Section Columns Indents Background Footnotes/Endnotes

New Section

Section1

Search...

Write Protection

☒ Protect

☐ With password Password

Hide

☐ Hide

With Condition

Properties

☐ Editable in read-only document

Help Cancel Insert

Enter Password

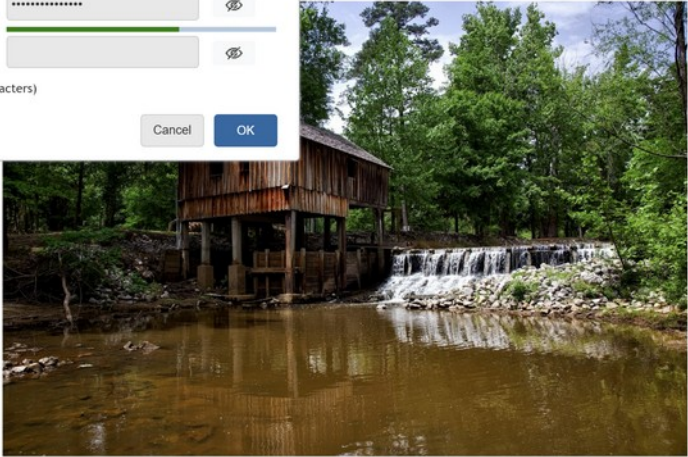
Password

Password:

Confirm:

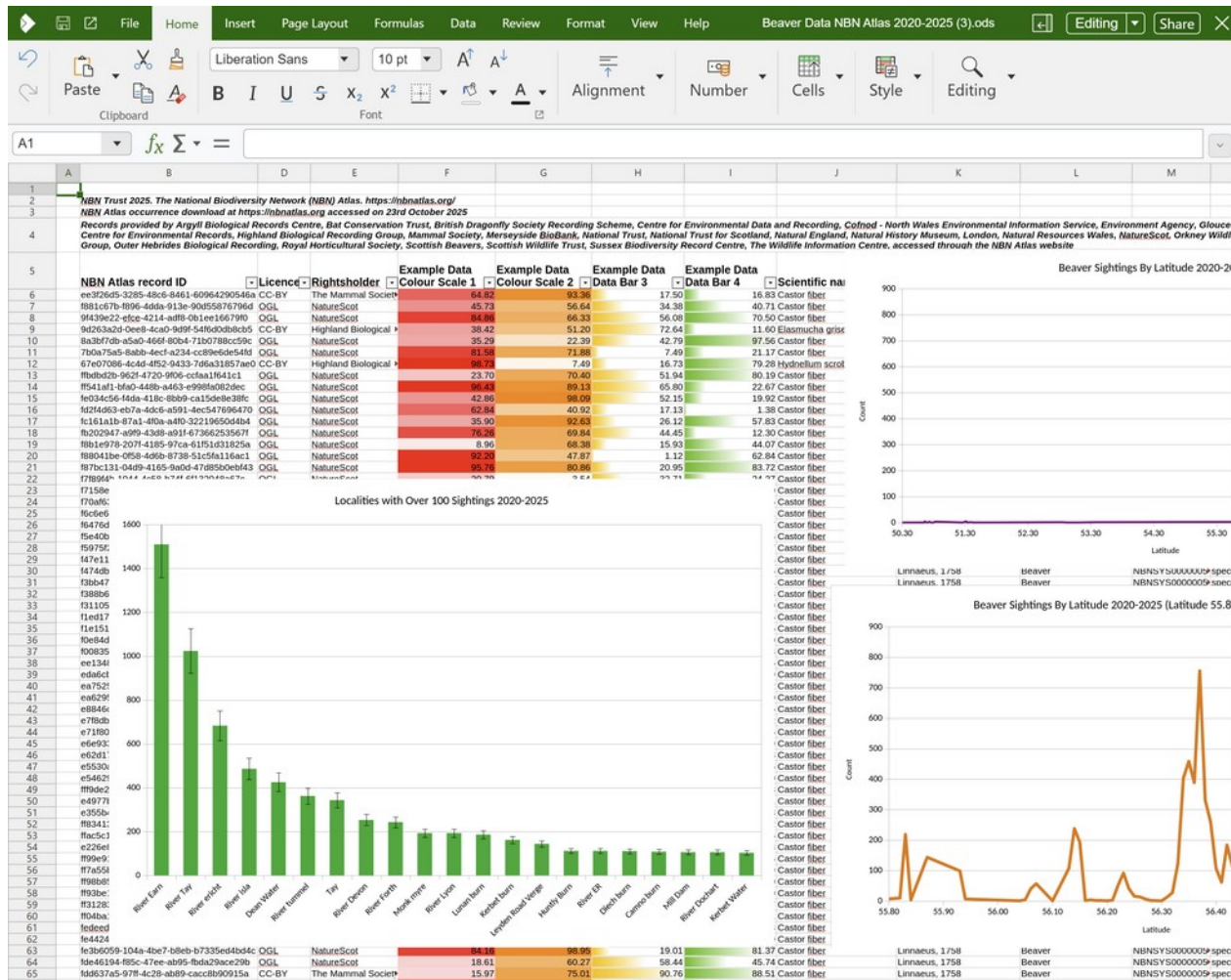
(Minimum 5 characters)

Help Cancel OK



1.3 Rivers of Data

Angepasste Freigabe-Berechtigungen



Beaver Data NBN Atlas 2020-2025 (3).ods

272 KB • 2 hours ago • Richard Brock

Sharing

View only

Allow editing

Custom permissions

Read

Advanced settings

Share label

Set password

Set expiration date

Hide download

Note to recipient

Limit downloads

Custom permissions

Read

Edit

Delete

Einfaches Umschalten

The screenshot displays the top toolbar of the Collabora Office application. The 'Editing' button, which includes a dropdown arrow, is highlighted. A context menu is open, showing 'Viewing Mode' and 'Editing Mode'. A mouse cursor is positioned over 'Editing Mode'. The toolbar also features a 'Share' button and a close icon (X). Below the toolbar, the 'Style' section shows 'Conditional' with a grid icon, and the 'Editing' section shows 'Search' and 'Replace' with magnifying glass icons. The main workspace shows a spreadsheet with columns labeled I, J, and K. A green selection box is visible in column J.

Editing Mode

Viewing Mode

Editing

Share

Conditional

Style

Search

Replace

Editing

Environmental Data and Recording, Cofnod - North Wales Environment

PDF 2.0

The screenshot displays the Collabora Office application window. The title bar shows the document name 'Recipe (no comments).odt'. The 'File' menu is open, showing options like 'Download', 'Repair', and 'Properties'. The 'PDF Options' dialog is open, showing the 'General' tab. The 'PDF Version' is set to 'PDF 2.0'. The 'Range' section has 'All' selected. The 'Images' section has 'JPEG compression' selected with a quality of 90% and 'Change image resolution to' set to 300 DPI. The 'Watermark' section has 'Sign with watermark' checked. The 'Structure' section has 'Tagged PDF (add document structure)' and 'Export outlines' checked. The 'Export' button is visible at the bottom right.

File Menu Options:

- Download
- Repair
- Properties
- Download
- Repair
- Properties
- Rename

PDF Options Dialog (General Tab):

- Range:**
 - ☒ All
 - ☐ Pages:
 - ☐ Selection
- Images:**
 - ☐ Lossless compression
 - ☒ JPEG compression Quality: 90 %
 - ☒ Change image resolution to: 300 DPI
- Watermark:**
 - ☒ Sign with watermark
- General:**
 - PDF Version: PDF 2.0
 - ☐ Universal Accessibility (PDF/UA)
 - ☐ Hybrid PDF (embed ODF file)
- Forms:**
 - ☐ Create PDF form
 - Submit format: FDF
 - ☐ Allow duplicate field names
- Structure:**
 - ☒ Tagged PDF (add document structure)
 - ☒ Export outlines
 - ☐ Export placeholders
 - ☐ Comments as PDF annotations
 - ☐ Comments in margin
 - ☐ Export automatically inserted blank pages
 - ☐ Use reference XObjects

Buttons: Help, Cancel, Export

Neue Präsentationsoptionen



Allen präsentieren

Die Option „Allen präsentieren“ in der Oberfläche startet die Präsentation automatisch für alle, mit der Möglichkeit, dem Vortragenden zu folgen



Präsentationskonsole

Sehen Sie Ihre Notizen und behalten Sie die Zeit im Blick, während Sie Ihre Präsentation in der Videokonferenz-App teilen

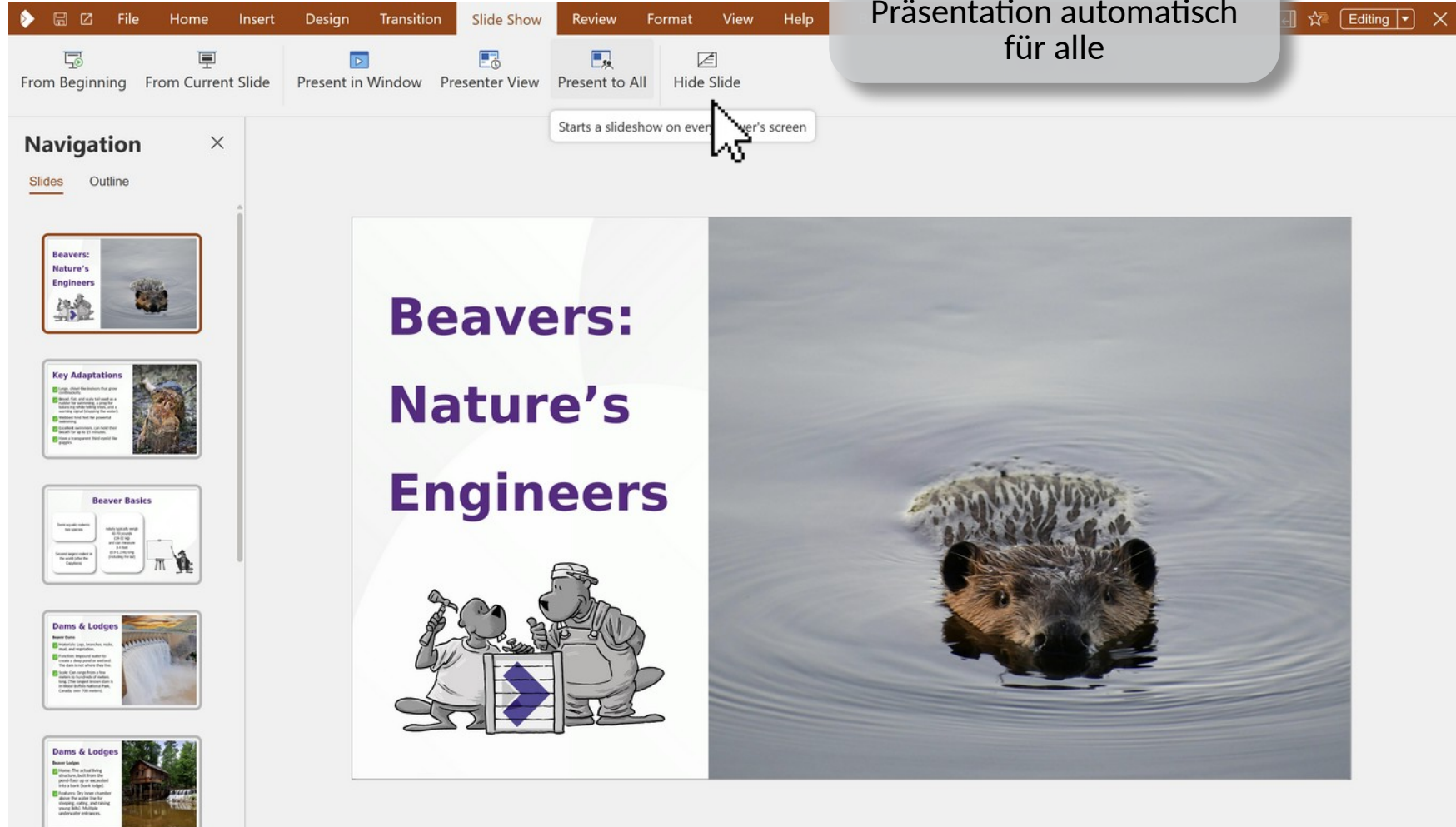


Präsentation im Fenster

Ihre Präsentation erscheint in einem neuen Browserfenster, für ablenkungsfreies Teilen

Allen präsentieren

Die neue Option „Allen
präsentieren“ in der
Oberfläche startet die
Präsentation automatisch
für alle



Allen präsentieren

Wer die Präsentation verlässt, kann mit „Dem Vortragenden folgen“ jederzeit wieder einsteigen



The screenshot shows the Microsoft PowerPoint interface with the 'Slide Show' tab selected. The ribbon includes options like 'From Beginning', 'From Current Slide', 'Present in Window', 'Presenter View', 'Follow Presenter', and 'Hide Slide'. A mouse cursor is hovering over the 'Follow Presenter' button, which has a tooltip that reads 'View slides as the presenter sees them'. The 'Navigation' pane on the left shows a list of slides titled 'Beavers: Nature's Engineers', 'Key Adaptations', 'Beaver Basics', 'Dams & Lodges', and 'Dams & Lodges'. The main slide area displays the title 'Beavers: Nature's Engineers' and an illustration of two beavers working on a dam. The background of the slide is a photograph of a beaver swimming in water.

File Home Insert Design Transition Slide Show Review Format View Help

From Beginning From Current Slide Present in Window Presenter View Follow Presenter Hide Slide

Navigation ×

Slides Outline

Beavers: Nature's Engineers

Key Adaptations

Beaver Basics

Dams & Lodges

Dams & Lodges

Beavers: Nature's Engineers

Beavers: Nature's Engineers

Follow-me Präsentation

Beaver Facts Presentation.odp

File Home Insert Design Transition Slide Show Review Format View Help

From Beginning From Current Slide Present in Window Presenter Console Start Follow-me Presentation Hide Slide

Navigation

Slides Outline

Beavers: Nature's Engineers

Key Adaptations

- Beavers have the longest front teeth of any animal.
- Beavers have a special adaptation called a "beaver tooth" that allows them to chew through wood.
- Beavers have a special adaptation called a "beaver tail" that allows them to store fat and keep warm.
- Beavers have a special adaptation called a "beaver dam" that allows them to create a safe home.
- Beavers have a special adaptation called a "beaver lodge" that allows them to live in water.

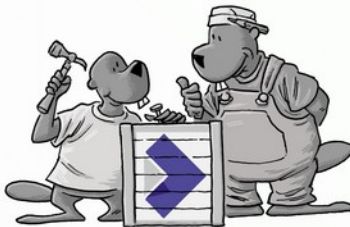
Beaver Basics

Dams & Lodges

Dams & Lodges

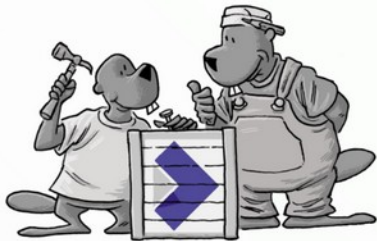
Ecological Importance

Beavers: Nature's Engineers

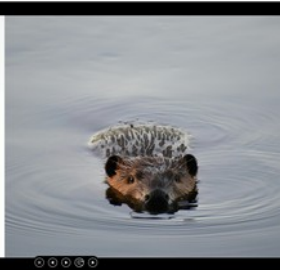


Follow-me Präsentation

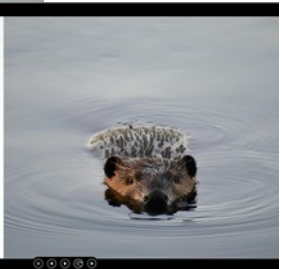
Beavers: Nature's Engineers



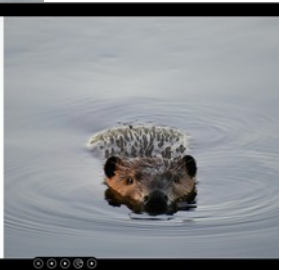
Beavers: Nature's Engineers



Beavers: Nature's Engineers



Beavers: Nature's Engineers



Follow-me Präsentation

Dams & Lodges

Beaver Lodges

- ✓ Home: The actual living structure, built from the pond-floor up or excavated into a bank (bank lodge).
- ✓ Features: Dry inner chamber above the water line for sleeping, eating, and raising young (kits). Multiple underwater entrances.



Dams & Lodges

Beaver Lodges

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Dams & Lodges

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Follow-me Präsentation

Dams & Lodges

Beaver Lodges

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Dams & Lodges

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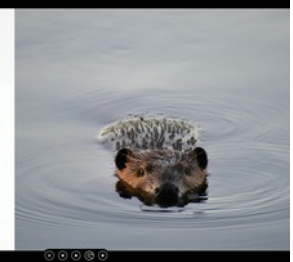
Dams & Lodges

Beaver Lodges

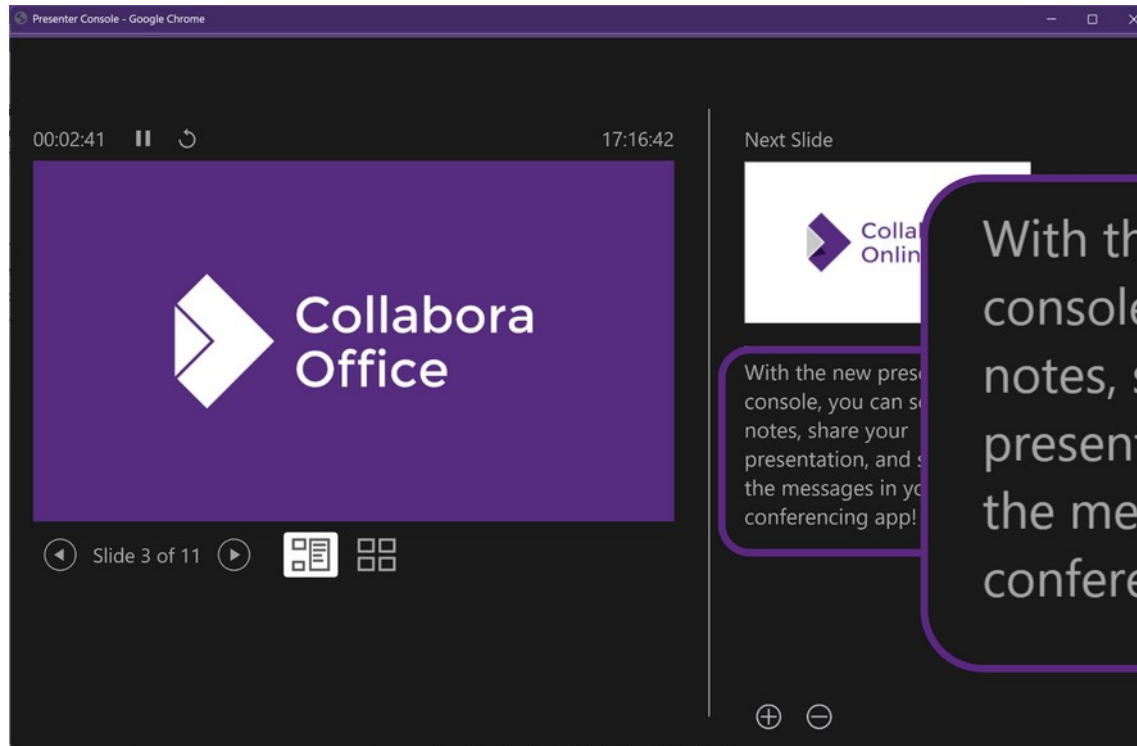
- ✓ Home: The actual living structure, built from the pond-floor up or excavated into a bank (bank lodge).
- ✓ Features: Dry inner chamber above the water line for sleeping, eating, and raising young (kits). Multiple underwater entrances.



Beavers: Nature's Engineers

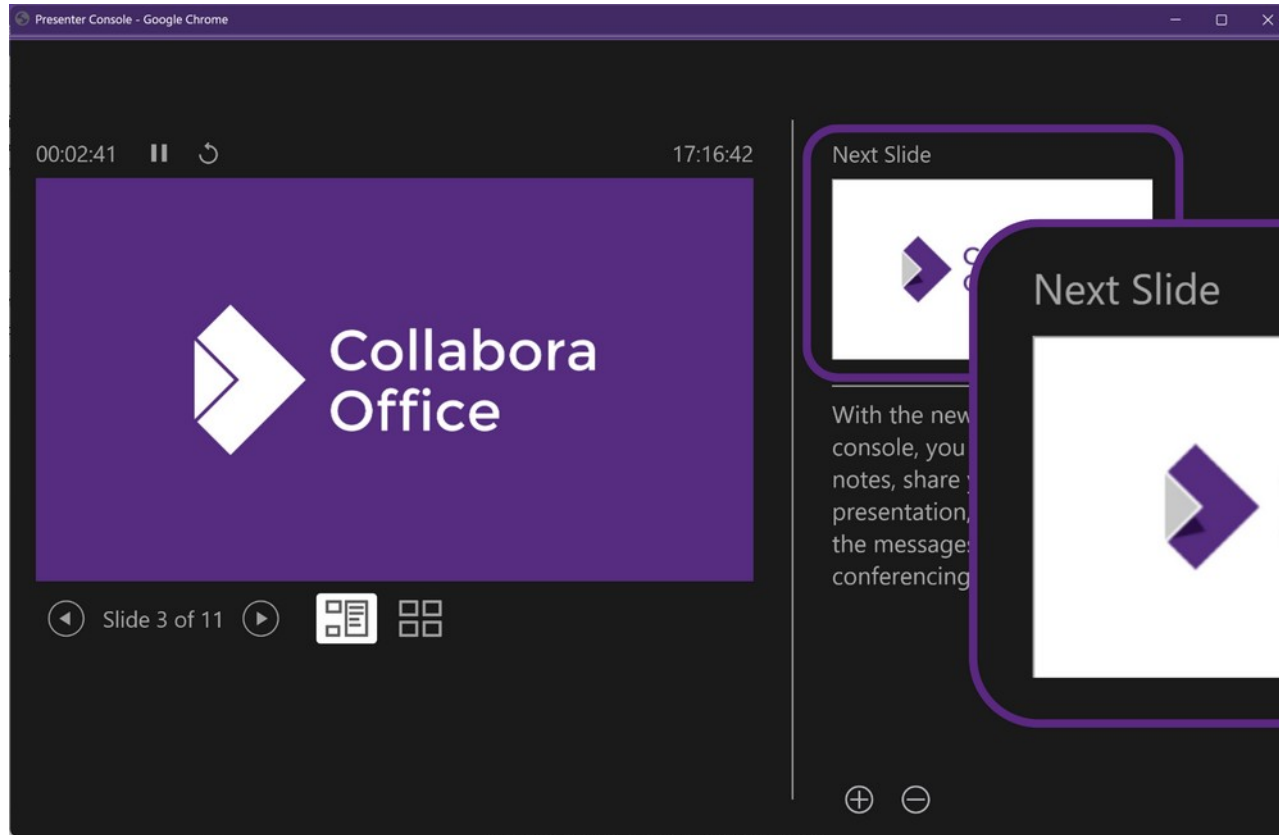


Präsentationskonsole

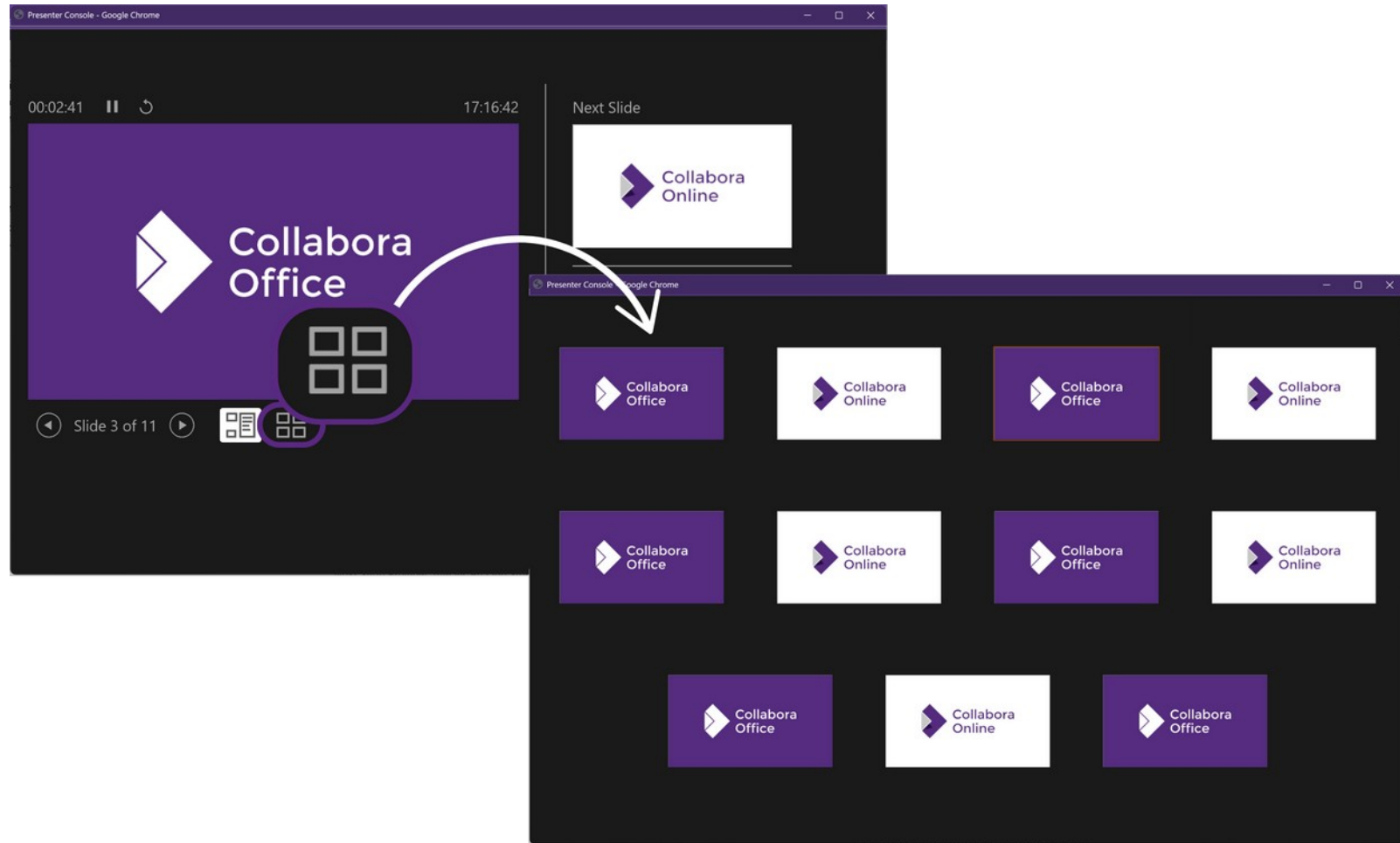


With the new presenter console, you can see your notes, share your presentation, and still follow the messages in your video conferencing app!

Präsentationskonsole



Präsentationskonsole



Was ist neu in 26.04?

So funktionieren Releases

- CODE 26.04
 - Entwickler-Edition, instabil, ideal für kleine Teams und den Heimgebrauch
- COOL 26.04
 - Mit Support, bereit für den Unternehmens Einsatz



Folienabschnitte

The screenshot displays a presentation software interface with a dark green theme. The main slide area shows a slide titled "The Host Nations" with a large "01" in the background. The slide content includes a globe icon, the text "SECTION 1 OF 3", and the title "The Host Nations". At the bottom, it says "2026 Men's World Cup".

The left sidebar shows a navigation pane with the following structure:

- Navigation
 - Slides
 - The Host Nations (selected)
 - Three Nations, One Vision
 - 11
 - 2
 - 11
 - Stadium Capacities – Top 8 Venues
 - 11
 - 2
 - 11
 - Outline
 - Tournament Structure
 - Stars to Watch

The top ribbon includes tabs for File, Home, Insert, Design, Transition, Slide Show, Review, Format, View, and Help. The Home tab is active, showing options for Clipboard, Slide Layout, Character, Paragraph, Spacing & Colour, Shapes, Connectors, and Illustrations. The status bar at the bottom indicates "Slide 1 of 9" and "English (USA)".

Folienabschnitte

The screenshot displays a presentation software interface with a dark blue theme. The top ribbon includes tabs for File, Home, Insert, Design, Transition, Slide Show, Review, Format, View, and Help. The 'Home' tab is active, showing options for Paste, New, Clipboard, Slide Layout, Character, Paragraph, Spacing & Colour, Illustrations, and Search. The 'Navigation' pane on the left shows a list of slides: 'The Host Nations', 'Tournament Structure' (selected), 'An Expanded 48-Team Format', 'Path to Glory - Knockout Rounds', and 'Stars to Watch'. The main slide area shows a dark blue background with a large white number '02' and the text 'SECTION 2 OF 3' and 'Tournament Structure'. A soccer ball icon is visible in the top left corner of the slide content. The status bar at the bottom indicates 'Slide 4 of 9' and 'English (USA)'.

Navigation

- Slides
- Outline
- > The Host Nations
- > **Tournament Structure**
- > An Expanded 48-Team Format
- > Path to Glory - Knockout Rounds
- > Stars to Watch

Slide Content:

SECTION 2 OF 3

Tournament Structure

2026 Men's World Cup

Folienabschnitte

The screenshot displays a presentation software interface with a dark red theme. The main slide area shows a slide titled "Stars to Watch" with a large "03" in the background. The slide content includes a white star icon, the text "SECTION 3 OF 3", and the title "Stars to Watch". At the bottom, it says "2026 Men's World Cup".

The left sidebar shows a "Navigation" pane with a "Slides" tab. The "Stars to Watch" slide is highlighted, and a mouse cursor is pointing at it. Below it, two other slides are visible: "The Great Storylines of 2026" and "All-Time Top Scorers at the Tournament".

The top ribbon includes tabs for File, Home, Insert, Design, Transition, Slide Show, Review, Format, View, and Help. The "Home" tab is active, showing options for Paste, New, Clipboard, Slide Layout, Character, Paragraph, Spacing & Colour, Shapes, Connectors, and Illustrations. The status bar at the bottom indicates "Slide 7 of 9" and "English (USA)".

Tabellenvorlagen

Screenshot of Microsoft Excel showing a table of 2026 Men's World Cup host venues. The table is titled "2026 Men's World Cup — Host Venues" and lists 20 venues across the United States, Canada, and Mexico. The table is displayed in the "Table Design" tab, showing various formatting options like Header Row, Banded Rows, First Column, Last Column, Filter Buttons, and Table Options. The table is currently formatted with a green header and alternating green and white rows.

Table Options:

- ☒ Header Row
- ☒ Banded Rows
- ☐ First Column
- ☒ Filter Buttons
- ☐ Total Row
- ☐ Banded Columns
- ☐ Last Column

Table Data:

City	Country	Stadium	Capacity	Matches	Surface
New York/NJ	USA	MetLife Stadium	82,500	8	Natural grass
Dallas	USA	AT&T Stadium	80,000	9	Natural grass
Kansas City	USA	Arrowhead Stadium	76,416	7	Natural grass
Houston	USA	NRG Stadium	72,220	8	Natural grass
Seattle	USA	Lumen Field	72,000	8	Artificial turf
Los Angeles	USA	SoFi Stadium	70,240	8	Natural grass
San Francisco	USA	Levi's Stadium	68,500	8	Natural grass
Miami	USA	Hard Rock Stadium	65,326	8	Natural grass
Philadelphia	USA	Lincoln Financial Field	69,796	7	Natural grass
Boston	USA	Gillette Stadium	65,878	7	Natural grass
Atlanta	USA	Mercedes-Benz Stadium	71,000	7	Artificial turf
Toronto	Canada	BMO Field	30,000	7	Artificial turf
Vancouver	Canada	BC Place	54,500	7	Artificial turf
Mexico City	Mexico	Estadio Azteca	87,523	7	Natural grass
Guadalajara	Mexico	Estadio Akron	49,850	6	Natural grass
Monterrey	Mexico	Estadio BBVA	51,350	7	Natural grass

Table Design Options:

The "Table Design" tab shows various formatting options for the table, including "Light", "Medium", and "Dark" themes. The "Light" theme is currently selected, showing a grid of color options for the table's background and text colors.

Pivot-Tabellen

Jetzt mit
„Berechneten Feldern“

Microsoft Excel Ribbon: File, Home, Insert, Page Layout, Formulas, Data, Review, Format, View, Help

Pivot Table Tools: Pivot Table, Pivot Calculated Field, Delete, Table, Illustrations, Hyperlink, Smart Picker, Time, Manage, Text, Headers and Footers

Formula Bar: A1, $\sum$, $=$

	A	B	C	D	E	F	G	H	I
1			Nation	Data					
2			Argentina		Brazil		Germany		W. Germany
3	Player	Apps	Sum - Goals	Sum - Goals per Appearance	Sum - Goals	Sum - Goals per Appearance	Sum - Goals	Sum - Goals per Appearance	Sum - Goals
4	Ademir	6			9	1.50			
5	Cristiano Ronaldo	22							
6	Eusébio	6							
7	Gabriel Batistuta	12	10	0.83					
8	Gary Lineker	12							
9	Gerd Müller	13							
10	Helmut Rahn	9							
11	Jürgen Klinsmann	17							
12	Just Fontaine	6							
13	Karl-Heinz Rummenig	10							
14	Lionel Messi	26	8	0.31					
15	Miroslav Klose	24							
16	Pelé	14							
17	Ronaldo	19							
18	Sándor Kocsis	5							
19	Teófilo Cubillas	13							
20	Thomas Müller	20							
21	Uwe Seeler	21							
22	Total Result		18	0.47					
23									

Insert Calculated Field

Name: Goals per Appearance

Formula: `= 'Goals' / 'Apps'`

Fields:

- #
- Player
- Nation
- Tournaments
- Apps
- Goals

Buttons: Insert Field, Cancel, OK

Nutzerabhängige Tabellenansichten

Temporary View 1

Freeze Rows and Columns Freeze First Column Freeze First Row Focus Cell Zoom Compact view Collapse Tabs Status Bar

New Sheet View

A1:H 2026 Men's World Cup – Host Venues

	A	B	C	D	E	F
1	2026 Men's World Cup – Host Venues					
2	16 venues across the United States, Canada & Mexico					
3						
4	City	Country	Stadium	Capacity	Matches	Surface
5	New York/NJ	USA	MetLife Stadium	82,500	8	Natural grass
6	Dallas	USA	AT&T Stadium	80,000	9	Natural grass
7	Kansas City	USA	Arrowhead Stadium	76,416	7	Natural grass
8	Houston	USA	NRG Stadium	72,220	8	Natural grass
9	Seattle	USA	Lumen Field	72,000	8	Artificial turf
10	Los Angeles	USA	SoFi Stadium	70,240	8	Natural grass
11	San Francisco	USA	Levi's Stadium	68,500	8	Natural grass

Daten mischen



The screenshot shows the Microsoft Excel interface with the 'Data' tab selected. The ribbon includes options for Sort, Filter, and Group. The 'Sort' button is highlighted, and a dropdown menu is open, showing 'Shuffle' as an option. The spreadsheet displays a table titled '2026 Men's World Cup — Players of Note' with the subtitle 'All-time top scorers at the tournament · Active 2026 contenders marked ★'. The table lists the top 10 scorers, including their rank, name, nation, tournaments, apps, goals, assists, goals per app, and era.

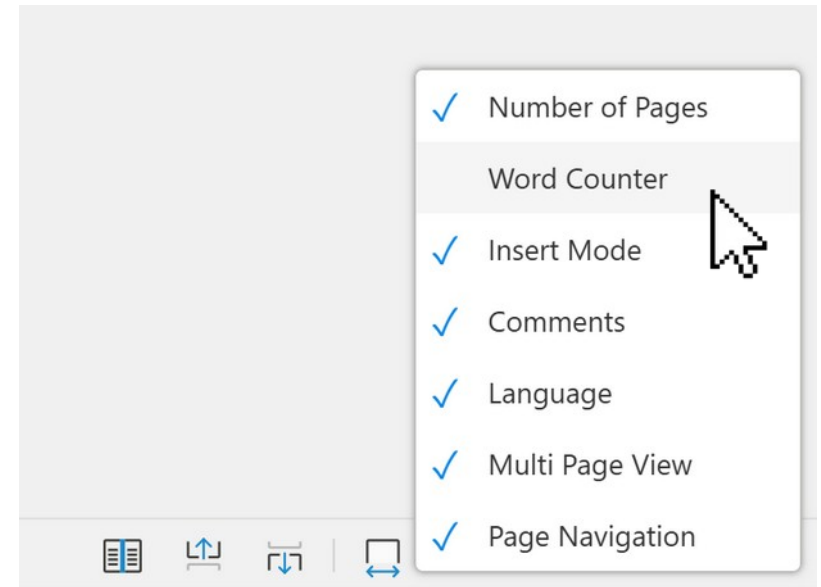
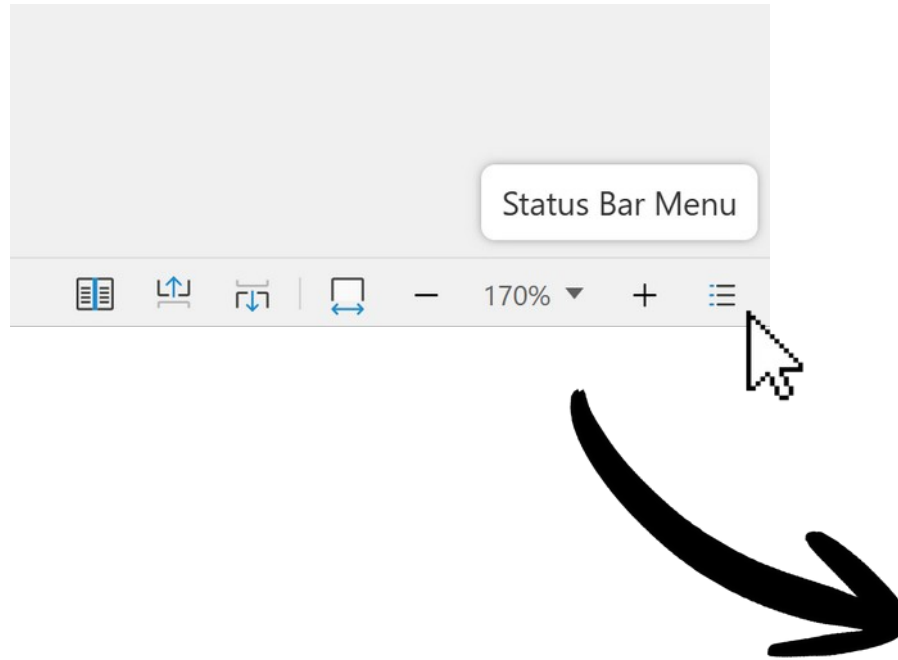
#	Player	Nation	Tournaments	Apps	Goals	Assists	G/App	Era
1	Miroslav Klose	Germany	4	24	16	4	0.67	1998-2014
2	Ronaldo	Brazil	4	19	15	4	0.79	1994-2006
3	Gerd Müller	W. Germany	2	13	14	4	1.08	1970-1974
4	Just Fontaine	France	1	6	13	1	2.17	1958
5	Pelé	Brazil	4	14	12	8	0.86	1958-1970
6	Sándor Kocsis	Hungary	1	5	11	2	2.20	1954
7	Jürgen Klinsmann	W. Germany	3	17	11	2	0.65	1990-1998
8	Helmut Rahn	W. Germany	2	9	10	2	1.11	1954-1958
9	Teófilo Cubillas	Peru	3	13	10	3	0.77	1970-1982
10	Gabriel Batistuta	Argentina	3	12	10	1	0.83	1994-2002

Nutzerabhängige Calc-Filter

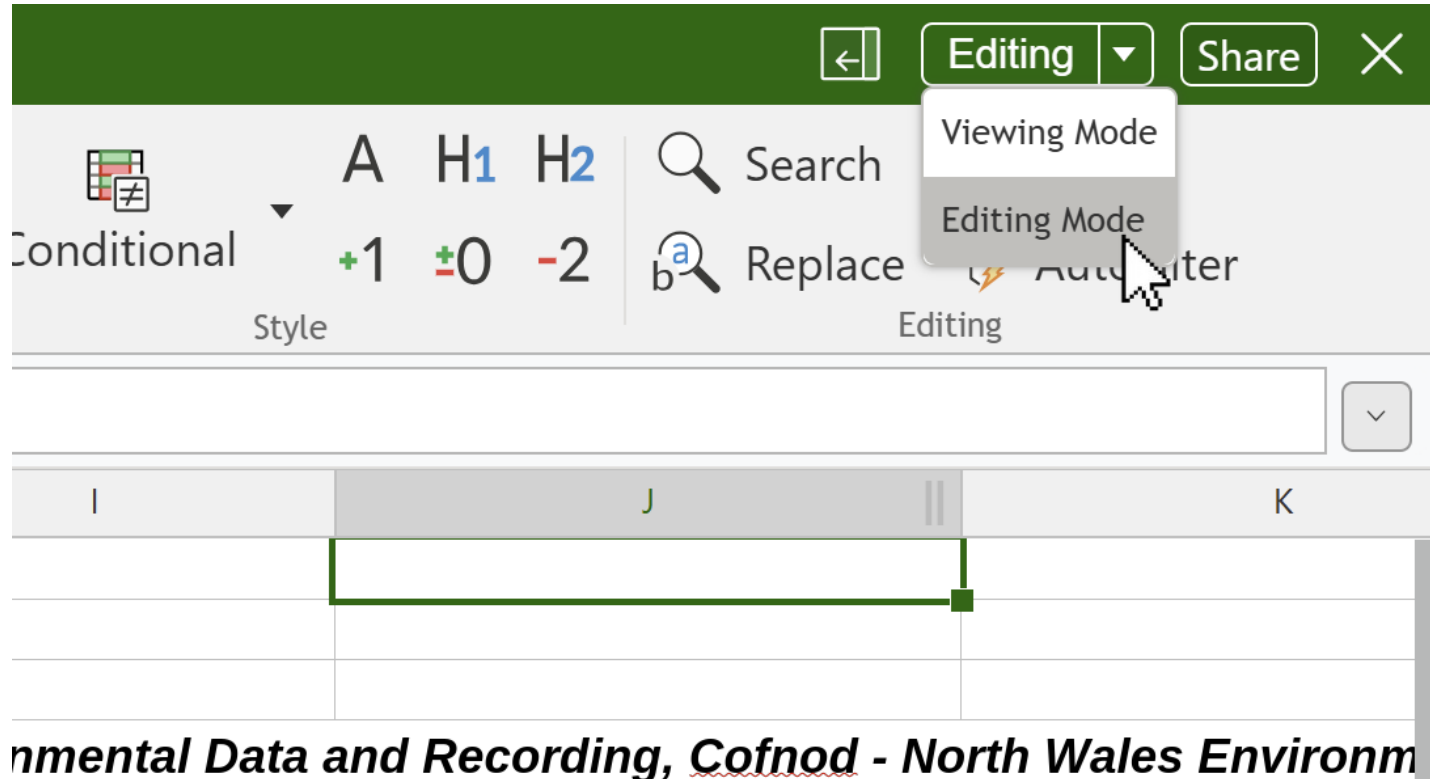
The screenshot displays the Collabora Office Calc interface with a spreadsheet titled "World Press Freedom Day feedback.xlsx". The spreadsheet has columns A through H. Columns A-C contain user feedback data, and columns D-H contain event details. A filter menu is open over column D, showing options to sort or filter by color and condition. The "Filter by Condition" option is selected, and a list of conditions is shown: "1 - Good", "2 - Good", "3 - Average", "3 - Good", and "4 - Good". The "4 - Good" condition is selected, and the filter is applied to the entire spreadsheet. The filtered data is highlighted in green. The spreadsheet shows a total of 19 rows, with the last row (row 19) being the "Total" row. The filter menu also includes options for "Sort Ascending", "Sort Descending", "Sort by Color", "Filter by Color", and "Filter by Condition". The "Filter by Condition" option is selected, and a list of conditions is shown: "1 - Good", "2 - Good", "3 - Average", "3 - Good", and "4 - Good". The "4 - Good" condition is selected, and the filter is applied to the entire spreadsheet. The filtered data is highlighted in green. The spreadsheet shows a total of 19 rows, with the last row (row 19) being the "Total" row.

User ID	User display name	Timestamp	Overall Experience	What aspects of the event d	Interaction and Engag	Content and Presenta	Additional Comme
Anonymous user	Anonymous user	2026-01-08T19:07:4		The atmosphere of the event	Q&A Sessions	very informative and interesting!	The event was well organized and infor
Anonymous user	Anonymous user	2026-01-08T19:07:4		Networking with other attendi	Q&A Sessions	Great variety of topics c	Wish there were m networking opport
Anonymous user	Anonymous user	2026-01-08T19:07:4		Keynote speaker	Breakout Sessions	Informative but lacked d	Loved the practical approach of the workshops.
Anonymous user	Anonymous user	2026-01-08T19:07:4		Hands-on workshops	Interactive Workshops	Engaging and interactive	Disappointed with quality.
Anonymous user	Anonymous user	2026-01-08T19:07:4		Catering	Q&A Sessions	Some presentations wer	Enjoyed the panel discussions.
Anonymous user	Anonymous user	2026-01-08T19:07:4		Panel discussions	Live demos	Insightful content	
Anonymous user	Anonymous user	2026-01-08T19:07:4		The atmosphere of the event	Q&A Sessions	very informative and interesting!	The event was well organized and infor
Anonymous user	Anonymous user	2026-01-08T19:07:4		Networking with other attendi	Q&A Sessions	Great variety of topics c	Wish there were m networking opport
Anonymous user	Anonymous user	2026-01-08T19:07:4		Keynote speaker	Breakout Sessions	Informative but lacked d	The event was well organized and infor
Anonymous user	Anonymous user	2026-01-08T19:07:44+02:09	2 - Good	Networking with other attendi	Q&A Sessions	Great variety of topics c	Wish there were m networking opport
Anonymous user	Anonymous user	2026-01-08T19:07:44+02:10	1 - Good	Keynote speaker	Breakout Sessions	Informative but lacked d	Wish there were m networking opport
Total							

Schnelle Anpassungen

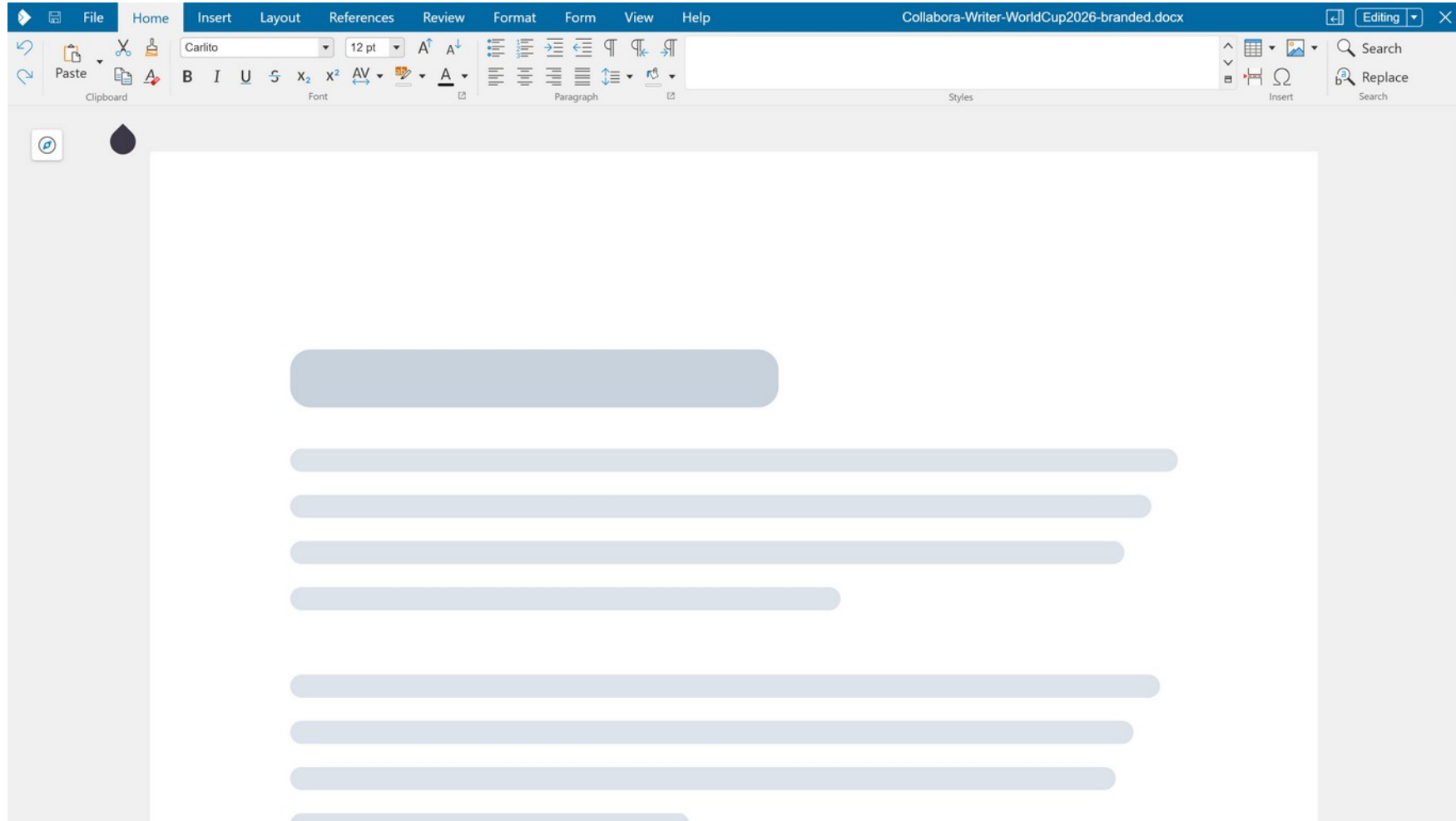


Einfaches Umschalten

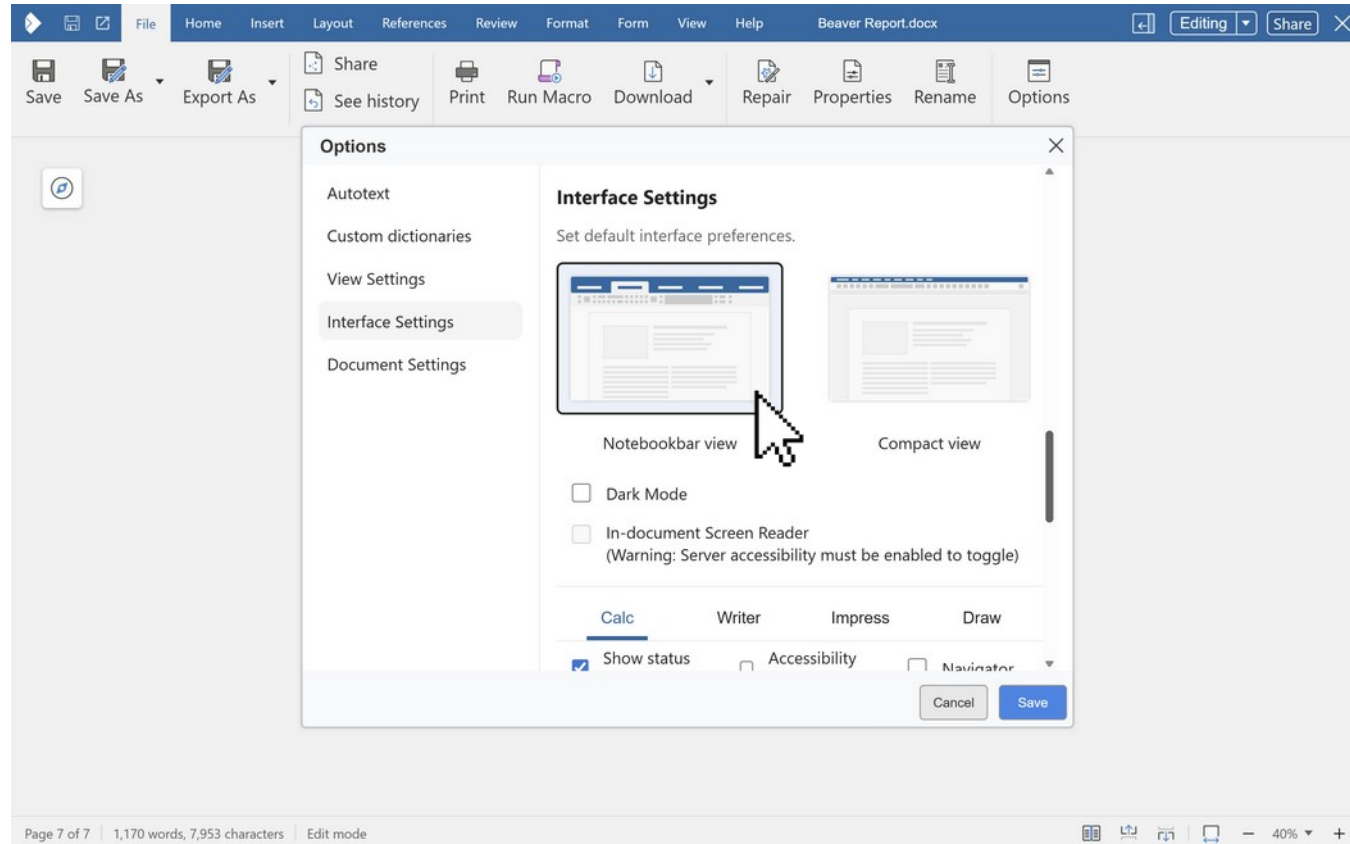


The screenshot displays the Collabora Office interface. At the top, a green header bar contains a back icon, a dropdown menu currently set to 'Editing', a 'Share' button, and a close 'X' icon. Below this, a toolbar includes a 'Conditional' style icon, text formatting options (A, H1, H2), a search icon, and a 'Replace' icon. A dropdown menu is open from the 'Editing' button, showing 'Viewing Mode' and 'Editing Mode', with a mouse cursor pointing at 'Editing Mode'. The main area shows a spreadsheet with columns labeled I, J, and K. A green selection bar is visible in column J. At the bottom, a text label reads: *Environmental Data and Recording, Cofnod - North Wales Environment*.

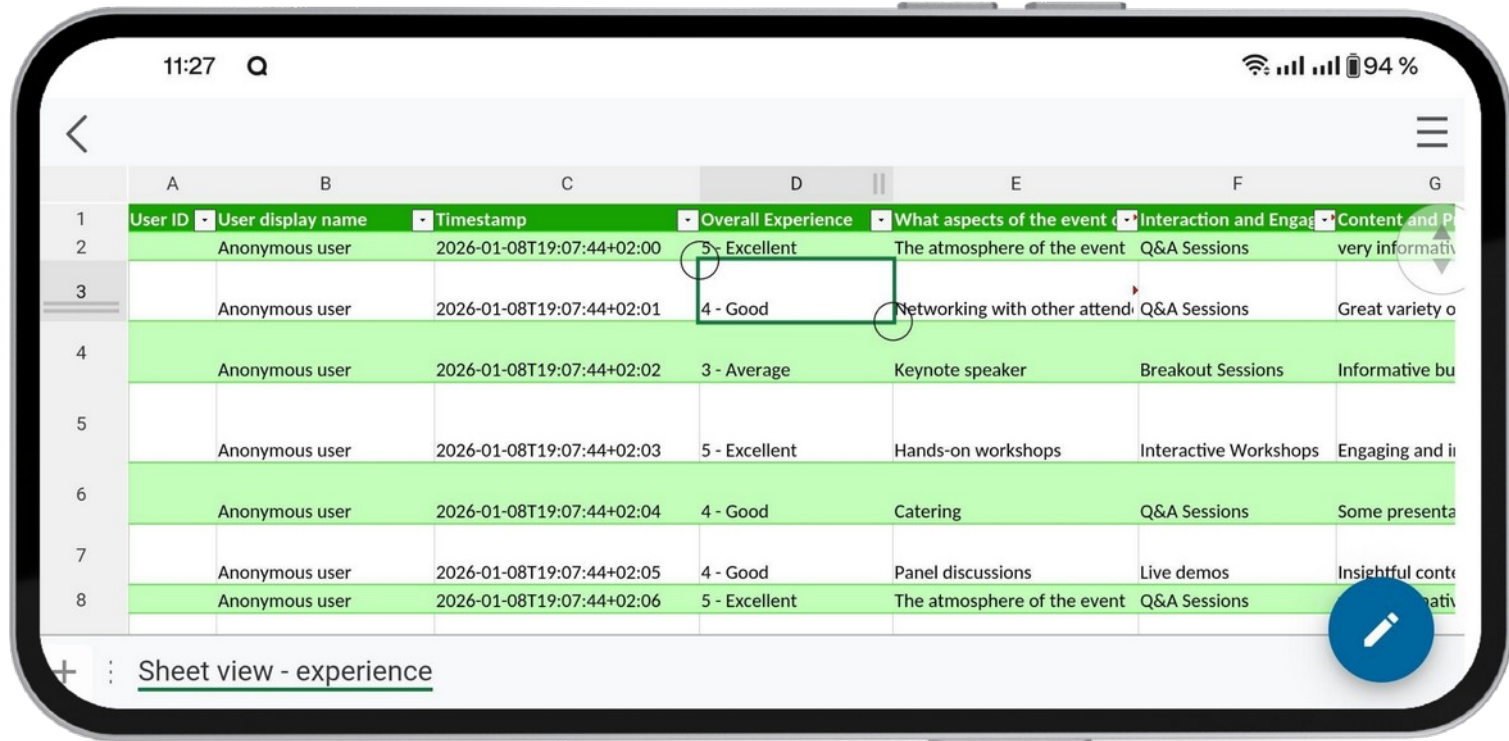
Ladeanzeigen



Schnelles Konfigurieren



Verbesserte Zugänglichkeit

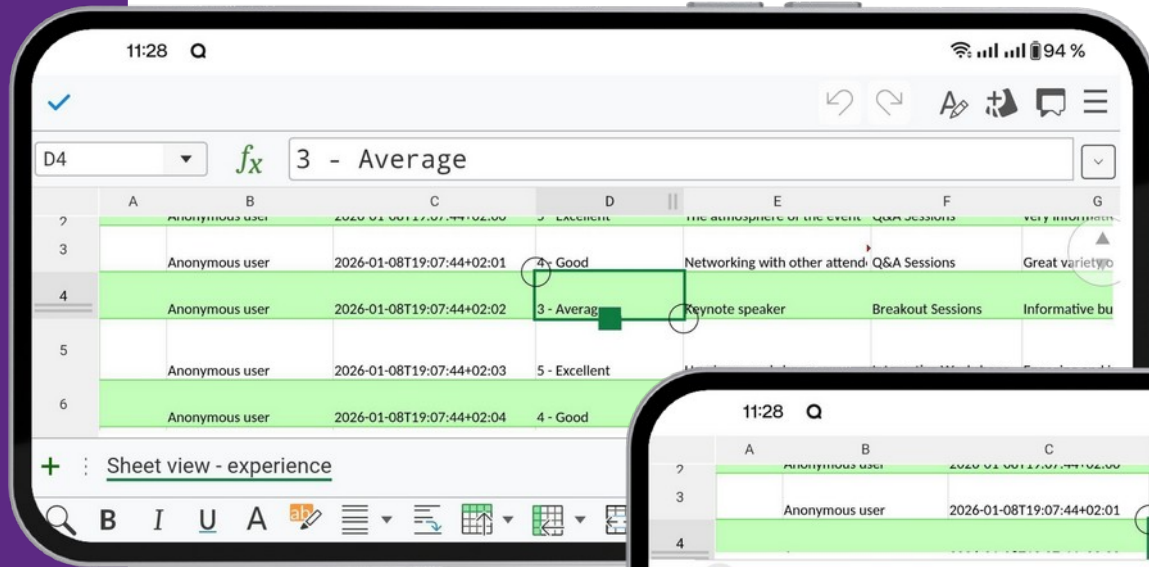


11:27 94 %

	A	B	C	D	E	F	G
	User ID	User display name	Timestamp	Overall Experience	What aspects of the event	Interaction and Engag	Content and P
1		Anonymous user	2026-01-08T19:07:44+02:00	5 - Excellent	The atmosphere of the event	Q&A Sessions	very informativ
2		Anonymous user	2026-01-08T19:07:44+02:01	4 - Good	Networking with other attendi	Q&A Sessions	Great variety o
3		Anonymous user	2026-01-08T19:07:44+02:02	3 - Average	Keynote speaker	Breakout Sessions	Informative bu
4		Anonymous user	2026-01-08T19:07:44+02:03	5 - Excellent	Hands-on workshops	Interactive Workshops	Engaging and i
5		Anonymous user	2026-01-08T19:07:44+02:04	4 - Good	Catering	Q&A Sessions	Some presenta
6		Anonymous user	2026-01-08T19:07:44+02:05	4 - Good	Panel discussions	Live demos	Insightful contr
7		Anonymous user	2026-01-08T19:07:44+02:06	5 - Excellent	The atmosphere of the event	Q&A Sessions	Q&A Sessions
8		Anonymous user	2026-01-08T19:07:44+02:06	5 - Excellent	The atmosphere of the event	Q&A Sessions	Q&A Sessions

+ Sheet view - experience

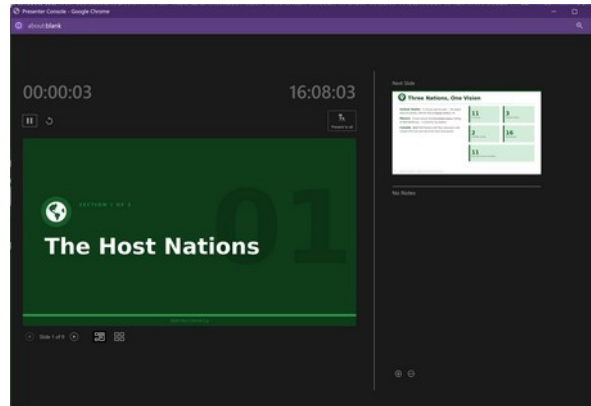
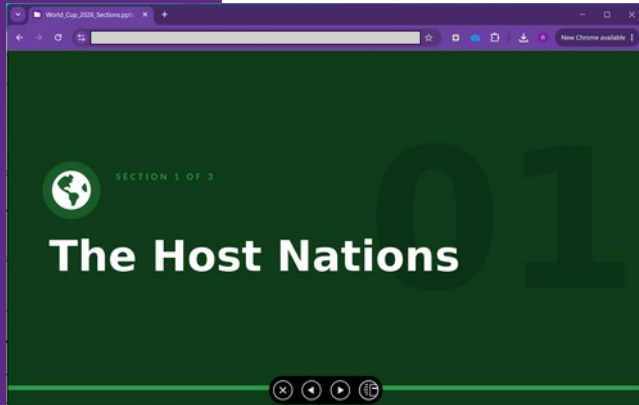
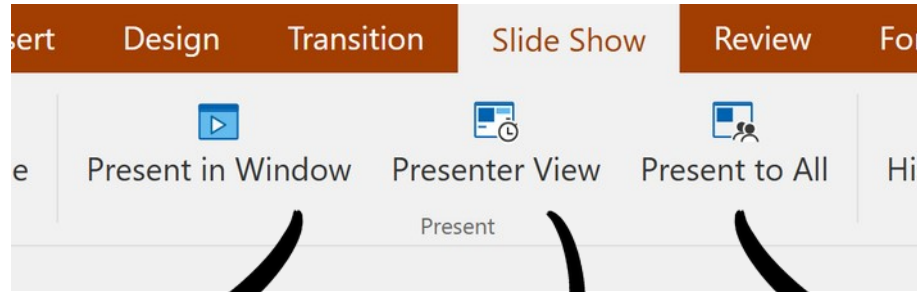
Verbesserte Zugänglichkeit



Toolbars blenden bei Tastaturnutzung aus

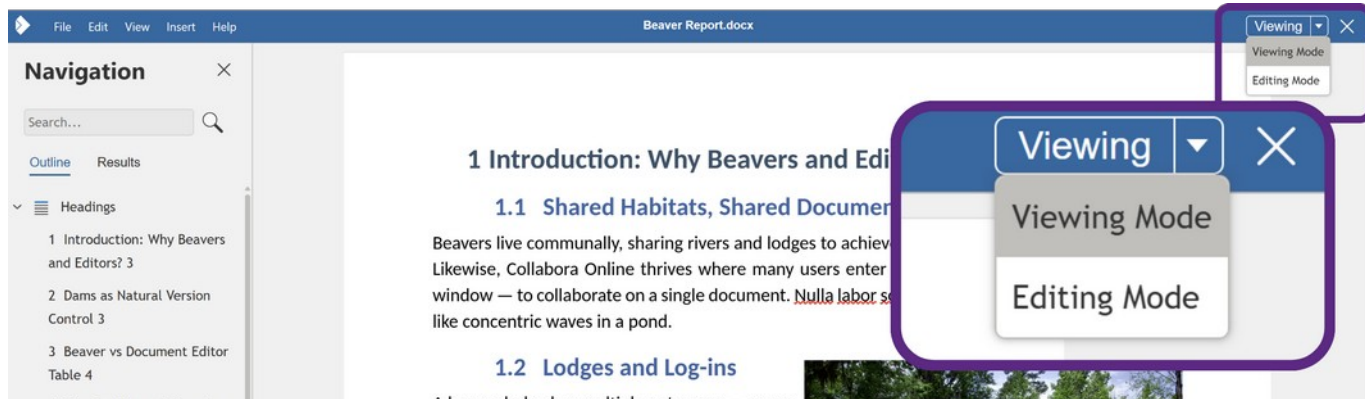


Präsentationsoptionen



Mehr in Writer

- **Markdown** importieren und exportieren
- **Markdown-zu-PDF** Templating
- Export von **PDFs mit Kommentaren**
- „Überprüfen“-Modus (UserCanOnlyManageRedlines)
- Bessere Bildschirmnutzung durch Dokumentposition und Zoomstufen



Mehr in Calc

- **Neue Calc-Funktionen** unter anderem:
 - CHOOSECOLS, CHOOSEROWS, DROP, EXPAND, HSTACK, TAKE, TEXTAFTER, TEXTBEFORE, TEXTSPLIT, TOCOL, TOROW, VSTACK, WRAPCOLS, WRAPROWS.
- JSON-basierte **CSV-Konvertierungs-API**
- **Verbessertes Kopieren und Einfügen** von Matrixformel-Ergebnissen
- Unterstützung für Kommentar-Threads

9	Just Fontaine	 France	1	6	13
10	Pelé	 Brazil	4	14	12
11	Sándor Kocsis				
12	Jürgen Klinsmann				
13	Helmut Rahn				
14	Teófilo Cubillas				
15	Gabriel Batistuta	 Argentina	3	12	10
16	Thomas Müller	 Germany	4	20	10

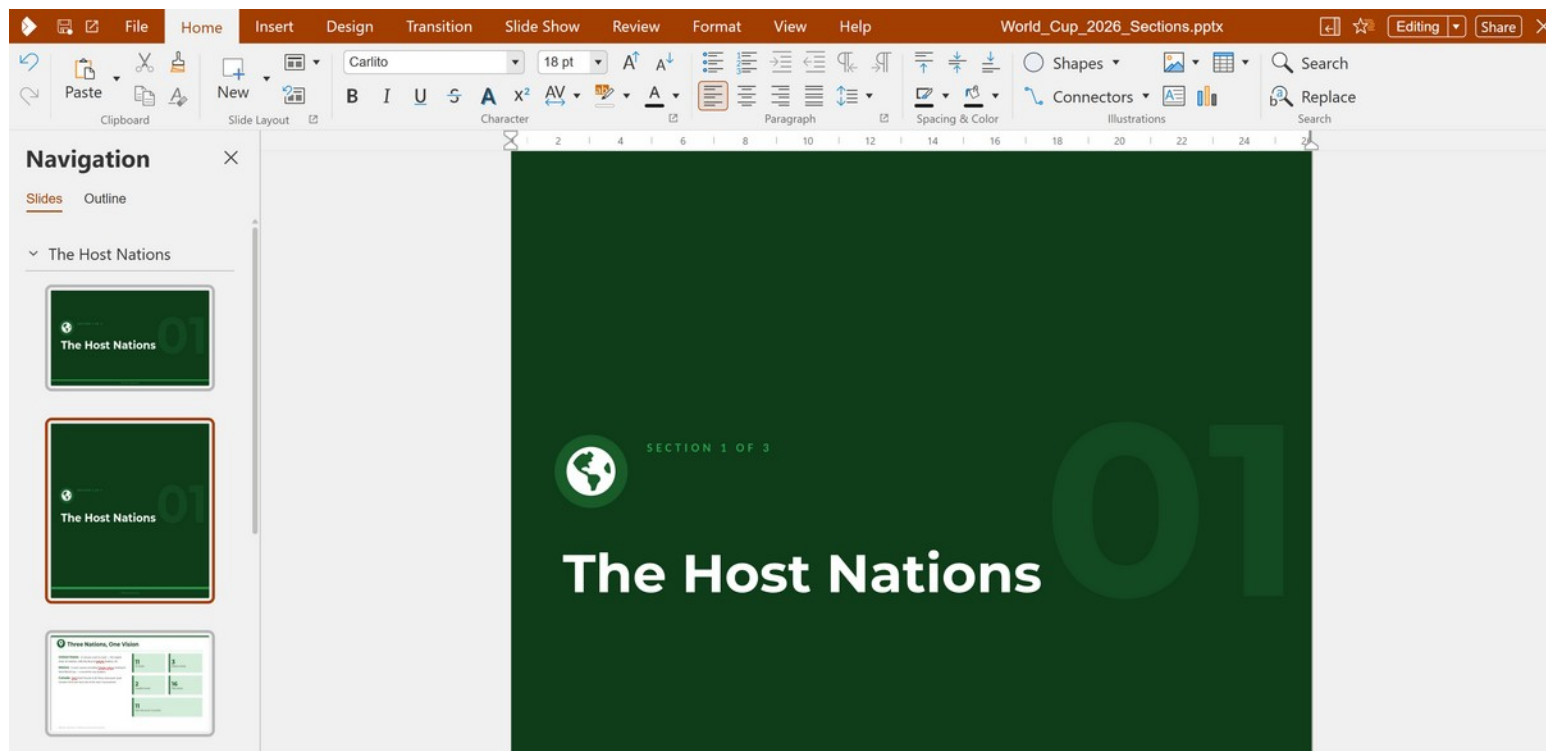
TEXTBEFORE
Returns the text that occurs before a given substring or delimiter.

TEXTJOIN
Combines several text items into one, accepts cell ranges as arguments. Use a delimiter between items.

TEXTSPLIT
Splits text by a given delimiter to an array of multiple cells.

Mehr in Impress

- PPTX Schrifteinbettung
- Mehrere Foliengrößen in einer Präsentation



Barrierefreiheit



Screenreader

Screenreader kündigen Farbwähler, Linienstil-Auswahlen, Nummerierungsoptionen, Sonderzeichen-Dialoge und Formularsteuerelemente an



Tastenkombinationen

Reine Tastaturnutzer können Symbolleisten, Seitenleisten, Raster, Baumansichten, Optionsfeldgruppen und Registerkarten ohne Maus bedienen



Automatisierte Tests

Automatisierte Tests prüfen jeden Dialog, jede Seitenleiste und jede Symbolleiste auf korrekte Beschriftungen, Rollen und Tastaturverhalten

Zertifizierte Barrierefreiheit



BIK BITV 2.0 getestet

Folgt den Kernprinzipien der WCAG 2.1 (globaler Standard), mit deutlichen Verbesserungen bei zentralen UI-Komponenten und der Tastaturnavigation.



Tastaturnavigation

Reine Tastaturnutzer können jetzt Symbolleisten, Seitenleisten, Raster, Baumansichten, Optionsfeldgruppen und Registerkarten ohne Maus bedienen.



Sinnvolle Screenreader-Interaktion

Farbwähler, Linienstil-Auswahlen, Nummerierungsoptionen, Aufzählungszeichen-Auswahlen und Sonderzeichen-Dialoge. Formularsteuerelemente wie Drehfelder, Dropdowns und Kontrollkästchen.

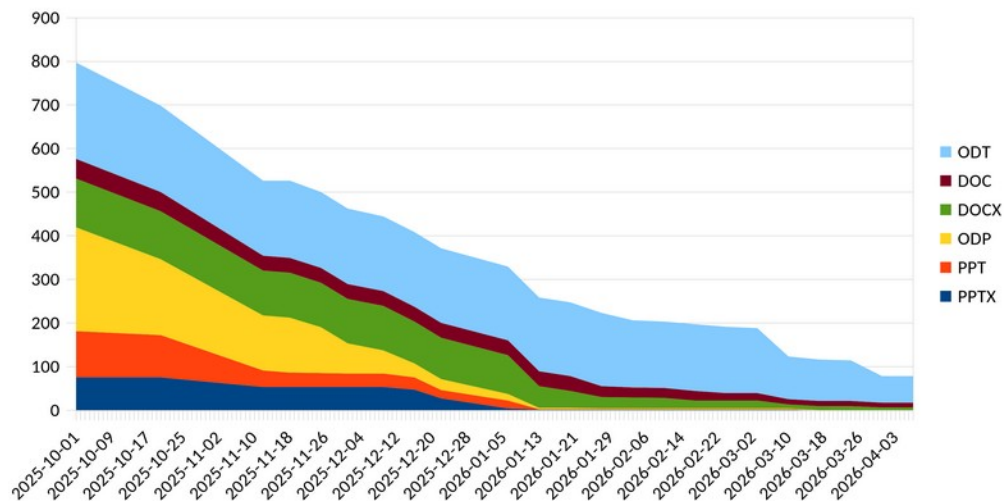


Automatisierte Tests machen Barrierefreiheit jetzt systematischer

Prüft jeden Dialog, jede Seitenleiste und jede Symbolleiste auf korrekte Beschriftungen, Rollen und Tastaturverhalten.

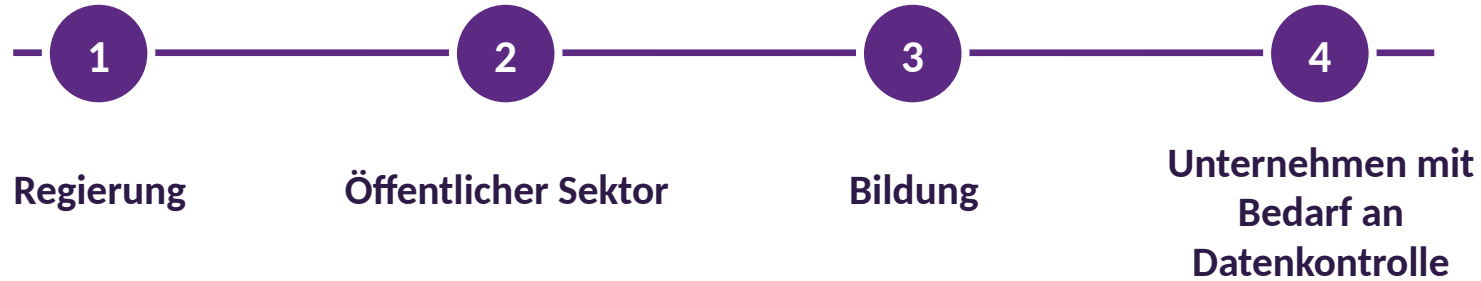
Systematische Interoperabilitätsarbeit

- Interop.-Commits in Collabora Online 25.04 & 26.04 ...
- Letzten vier Monate: ~200 spezifische Interop Fixes
- Bugs & OOXML Interop-Verbesserungen aus den ~250k herausfordernden Dokumenteworst-docs ever.
 - Verbessertes Microsoft XML
 - Systematische Code-Verbesserungen
 - Automatisierte Tests und Analyse



Fallstudien

Typische Anwendungsfälle?



Schleswig-Holstein

30.000+

Arbeitsplätze der Landesverwaltung von Microsoft Office migriert

25.000+

Nutzer arbeiten jetzt mit Nextcloud und Collaboras integrierter Echtzeit-Dokumentbearbeitung und Zusammenarbeit

70%

der Landes-Arbeitsplätze laufen bis Ende Oktober 2025 mit Open-Source-Software



1%

prognostizierte Nutzung von Microsoft-Office-Lizenzen bis 2029

ODF verpflichtend

ODF wurde dank der Arbeit von Collabora zum verpflichtenden landesweiten Standard-Dokumentformat (September 2024).

1,5 Entwicklungsjahre

Von Schleswig-Holstein und Collabora in die Codebasis investiert, mit Verbesserungen, von denen die gesamte Open-Source-Community profitiert

Migrationsprojekte

Österreichisches Bundesheer

5-Jahres-Migration

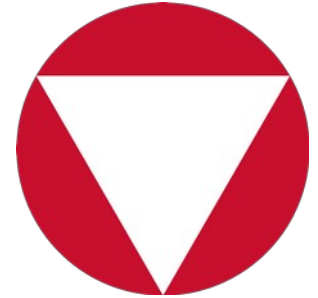
Beauftragt mit Softwareentwicklung, Support und mobiler Zusammenarbeit für die fünfjährige Migration des ÖBH

16.000+

16.000 Nutzer von Microsoft Office migriert, einschließlich außerhalb Österreichs stationierter Mitarbeiter

Digitale Souveränität

Getrieben von digitaler Souveränität und Zielen für die interne Zusammenarbeit, nicht von Kosten



Abhängigkeit beenden

Microsoft Office 2016 wurde 2025 als Standardsoftware des ÖBH abgelöst

ODF verpflichtend

ODF als internes Dateiformat in der gesamten Organisation eingeführt, mit LibreOffice verbindlich selbst zum Ausfüllen externer OOXML-Formulare

4,3 Personenjahre

866 Entwicklungstage, 123 Tickets/Abnahmen an Collabora-Entwicklungsarbeit investiert, in den gemeinsamen Code eingebracht und dem breiteren LibreOffice-Ökosystem zugutekommend

Schleswig-Holstein



Schleswig-Holstein

- Migration zu open-Xchange & Thunderbird
- Einsatz von LibreOffice auf Desktop
- Migration Telefonie-System
- Migration hin zu web-basierten Lösungen (Nextcloud, open-Xchange, Collabora)
- +1 Linux auf dem Desktop
- Fachanwendungen...



Österreichisches Bundesheer

- Projektstart 2022
- Migration von MSO 2016 zu LibreOffice
- Migration von Vorlagen- und internen Fachanwendungen
- Ertüchtigungen & Verbesserungen direkt im Upstream
- weitere Integrationen geplant



Frankreich: Bildungsministerium

- Produkte:
 - Nextcloud + AddOns & weitere Komponenten
- ca. 400.000 Nutzer derzeit, geplant final 1,2M
- zusätzlich: 500.000 Schüler & Studenten aus dem Großraum Paris

Übersicht openDesk-Migrationen

- Eval:
 - Dänemark
 - EDIC
- Pilot/Testphase
 - BMDS
 - BWI
 - ICC
- Produktiv:
 - RKI (Robert Koch Institut)
 - Schule@BW
 - ZenDiS
 - MPK

Weitere Initiativen

- Schweiz:
 - Digitale Schweiz / SGC
 - unklare FOSS-Strategie
- Europäische Kommission
 - Matrix/Element-Pilot
- Nextcloud u.Ä.:
 - Parallel-Deployments
 - Notfall/Fallback-Systeme

Zusammenfassung

Zusammenfassung

- Politisches & gesellschaftliches Momentum
- von Ankündigungen zu konkreten Maßnahmen:
 - EuroStack, EDIC, openDesk
 - ausgerollte & produktive Projekte
- Europa führend bei OpenSource:
 - Projekte, Firmen & strukturelle Fördermaßnahmen



 Connect on LinkedIn

Thorsten Behrens



Thank you!



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hello@collaboraoffice.com
www.collaboraoffice.com