

The FOSS Office space ... a cut out & keep guide

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Collabora
Office

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



Overview ...

Measuring activity

- Commits – what are they
- Every contribution has value!
- Price's law – what we would expect ...

**KOffice / Caligra / WebODF /
Scribus / Krita**

**GIMP / Gnumeric / AbiWord /
MagicPoint**

**Apache Open / Libre / Collabora
Office**

**Others: ONLYOFFICE / EuroOffice /
Grist / IronCalc
/ EtherPad / EtherCalc /
SuperDoc / La Suite ...**

Conclusions

Measuring by commits ...

Commit == “a unit of developer thought” ...

An imperfect measure - like head-count

- Russian Army → 1.32 million personnel
- Ukranian Army → 700-900k personnel

An imperfect measure - commit style / authoring

- Some people use private addresses
multiple E-mail accounts etc. Some are bots...

An easy measure

- No commit === no feature/function/fix, trends may be useful ?

Translations / help / documentation / etc. included or not ? ...

Measuring bugs instead (eg.) ... ? (duplicates, trailing user-base size etc.)



Prices' law ... (wikipedia)

Science / Research → probably FLOSS too

- “If n represents the total number of authors in a scientific domain, then $\sqrt{n}$ authors will be responsible for producing approximately 50% of the total publications in that field.”

LibreOffice → a quick check last year's core commits:

- ~300 committers → $\sqrt{300} \approx 18$
- ~10,000 commits (to core) last year
 - Top 6 → ~5,500 commits
 - top 18 → ~7,500 commits
- Significantly worse than Prices' law ... dirty data / duplication ?

Who are those top 18 ?

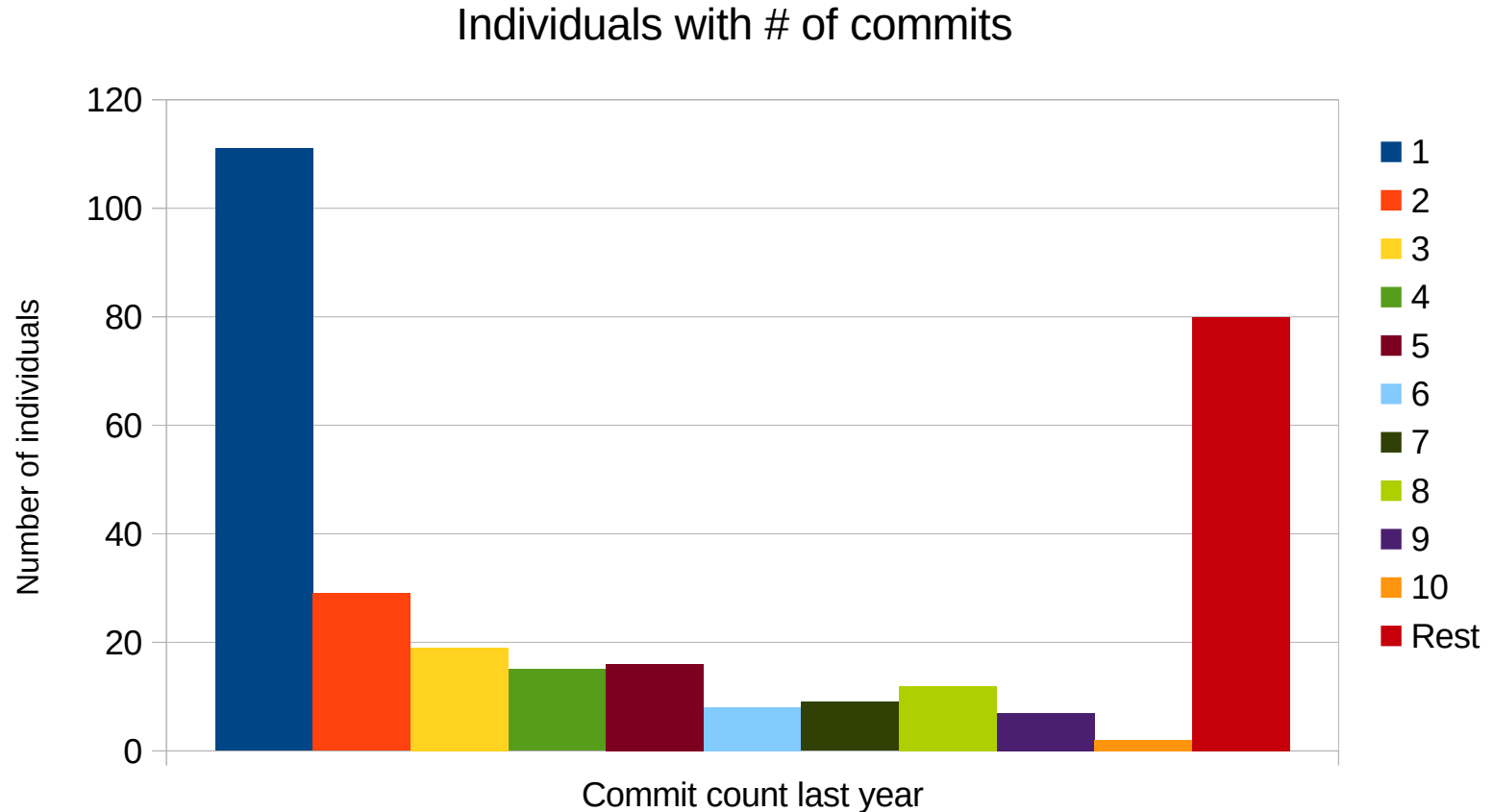
Commits Account

2524	Michael Weghorn <m.weghorn@posteo.de>
795	Caolán McNamara <caolan.mcnamara@collabora.com>
756	Xisco Fauli <xiscofauli@libreoffice.org>
576	Mike Kaganski <mike.kaganski@collabora.com>
486	Andrea Gelmini <andrea.gelmini@gelma.net>
382	Noel Grandin <noel.grandin@collabora.co.uk>
335	Tomaž Vajngerl <tomaz.vajngerl@collabora.co.uk>
201	Khaled Hosny <khaled@aliftype.com>
193	Olivier Hallot <olivier.hallot@libreoffice.org>
178	Stephan Bergmann <stephan.bergmann@collabora.com>
177	Miklos Vajna <vmiklos@collabora.com>
163	Justin Luth <justin.luth@collabora.com>
147	Noel Grandin <noelgrandin@gmail.com>
140	Gabor Kelemen <gabor.kelemen@collabora.com>
136	Neil Roberts <nroberts@libreoffice.org>
135	Julien Nabet <serval2412@yahoo.fr>
134	Justin Luth <jluth@mail.com>
122	Heiko Tietze <tietze.heiko@gmail.com>

Commit styles & interests

- **Michael W**
 - A11y etc.
- **Andrea:**
 - Lots of good cleanups: “fix typo” → ~280 commits.
- **Noel**
 - Lots of code cleanups ...

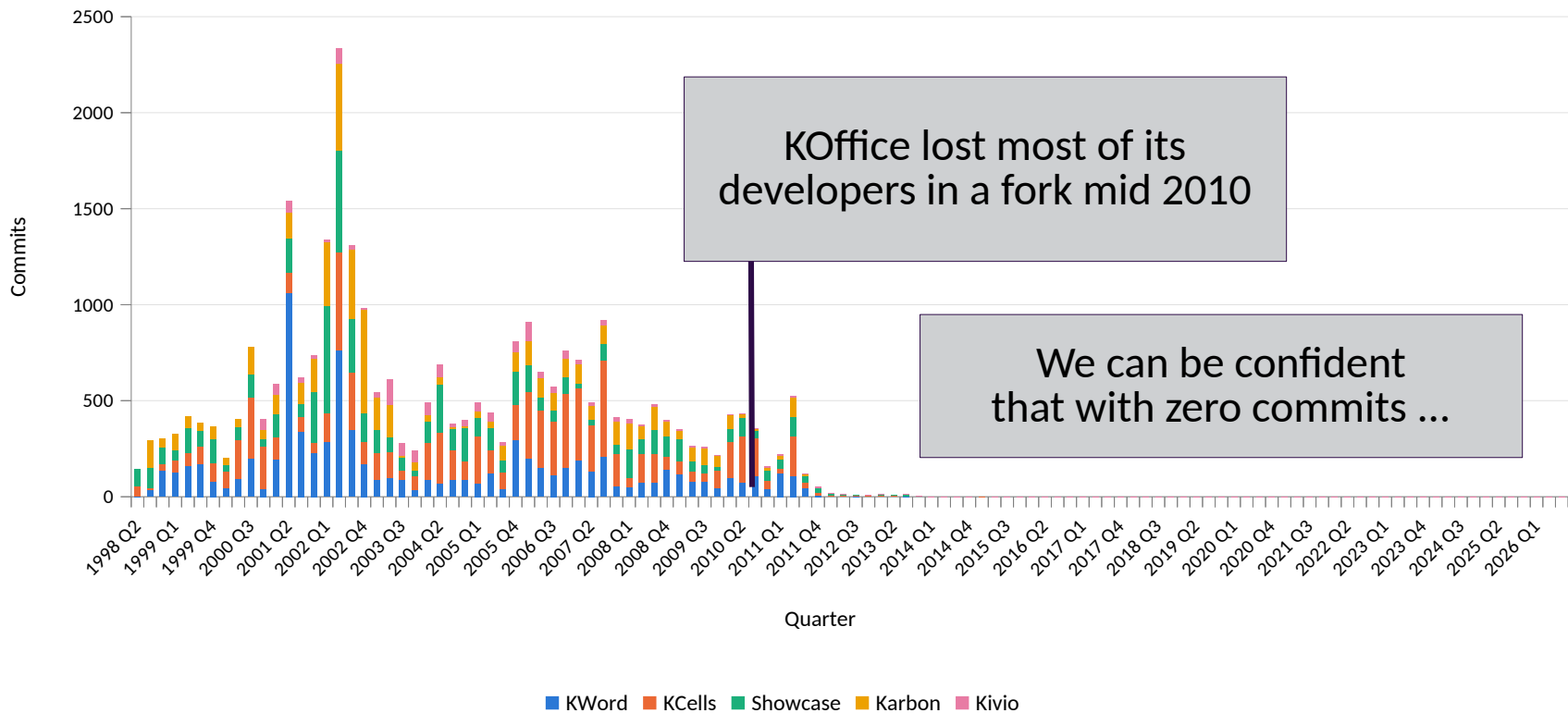
Distribution of commits



KOffice / Calligra Suite

Koffice commits by quarter ...

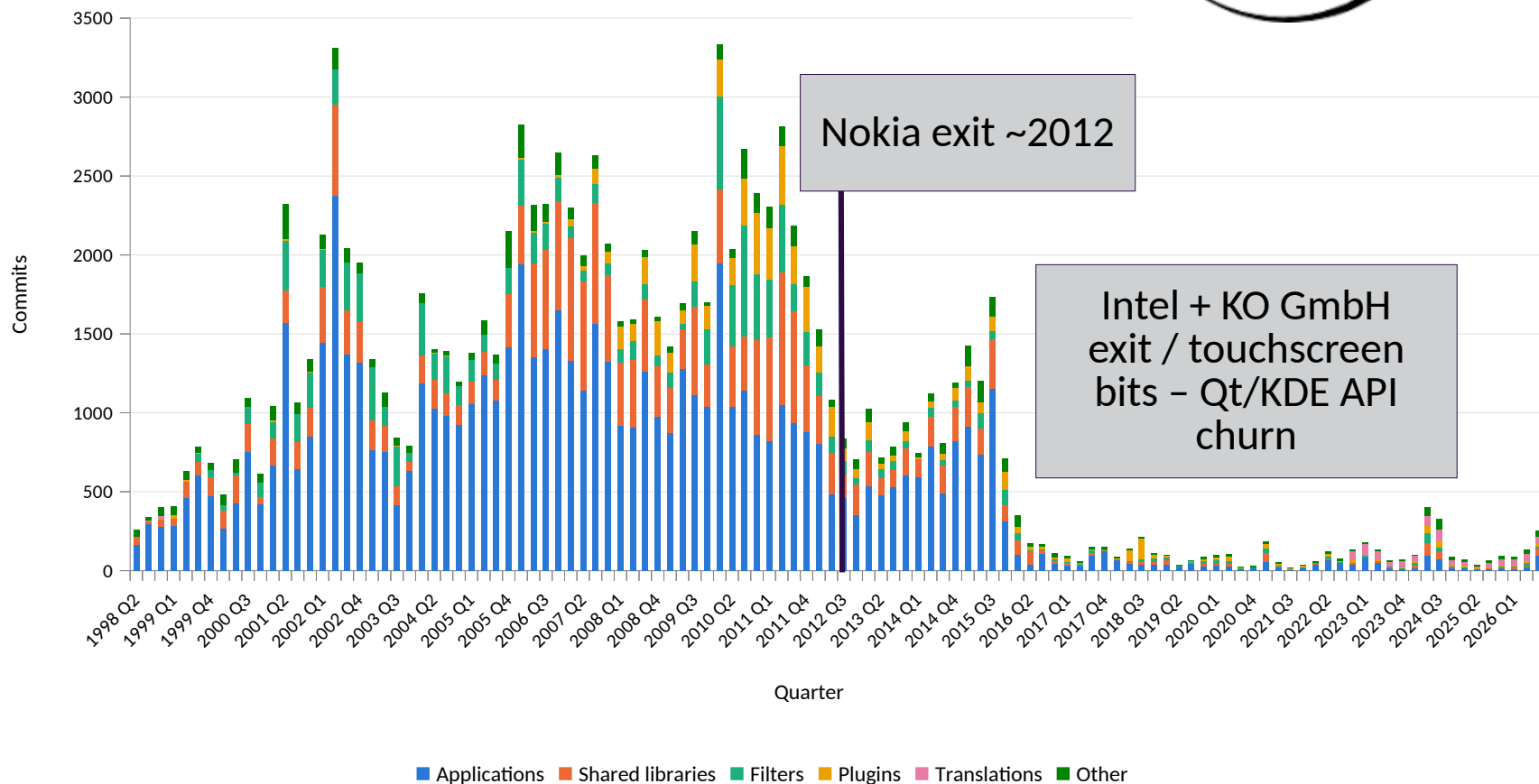
KOffice commits per quarter by application



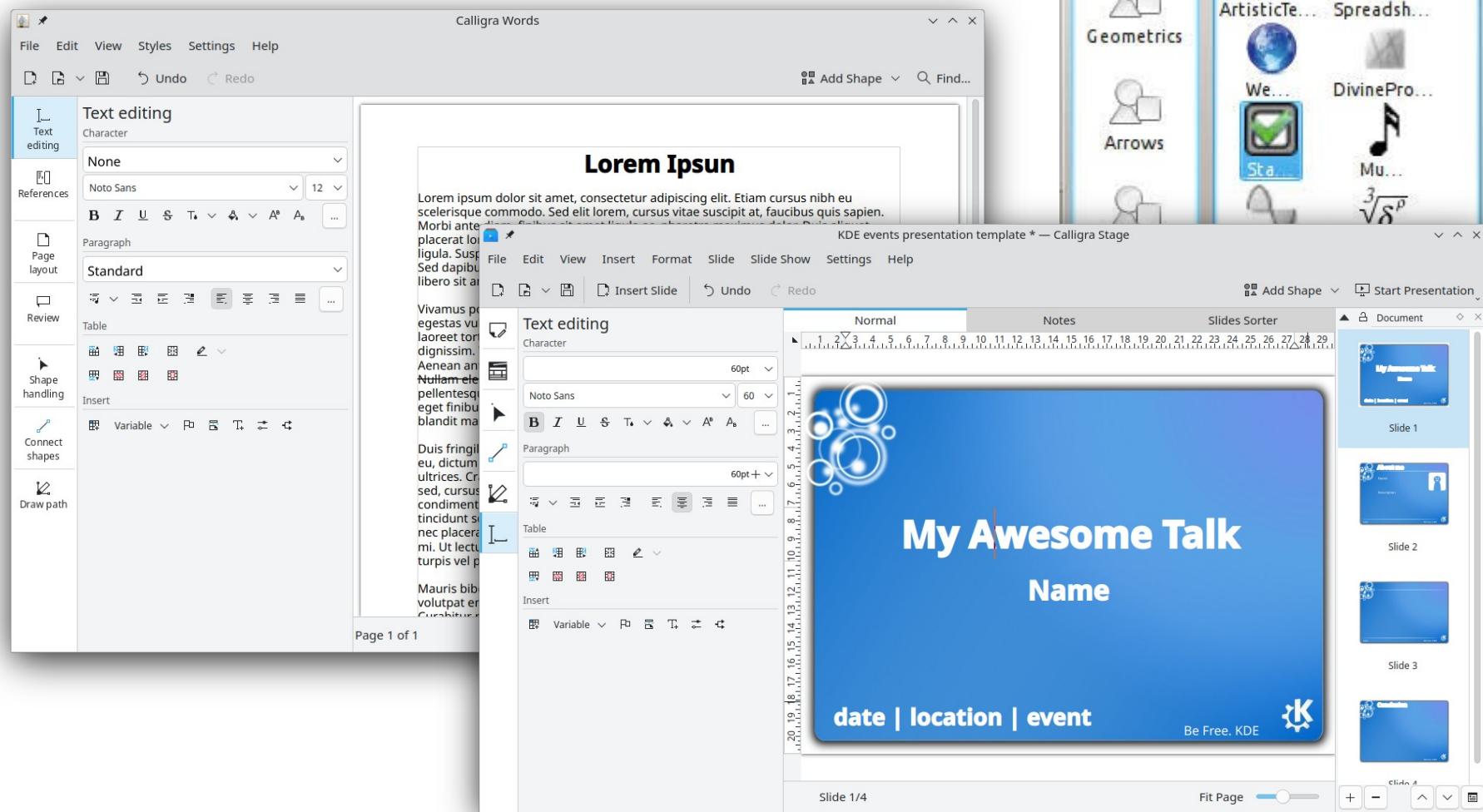
Koffice → Calligra (a fork?)



KOffice / Calligra commits per quarter by area

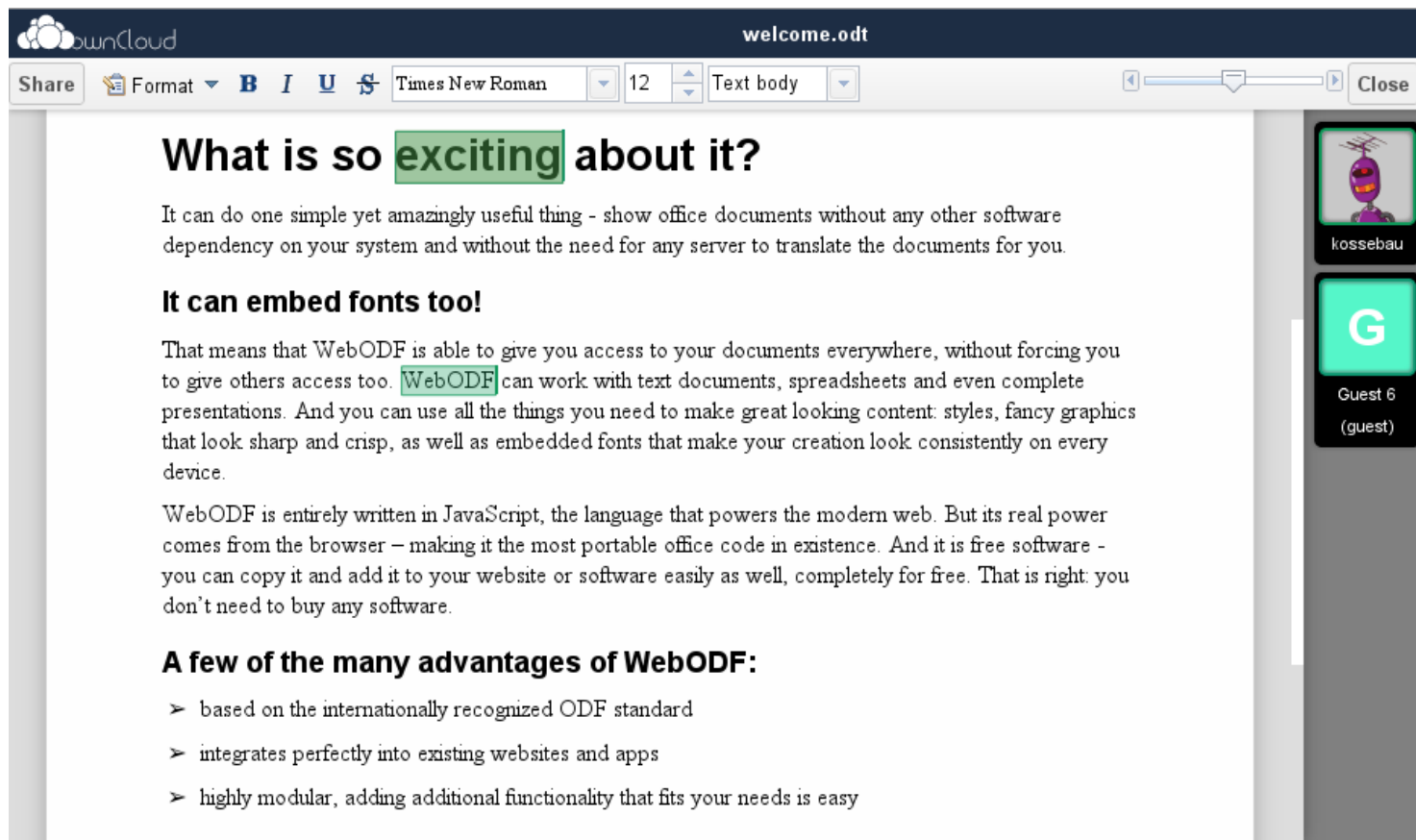


Caligra Suite ...



WebODF – in pixels ...

Embedded into ownCloud – the original ‘richdocuments’ ...



The screenshot displays the ownCloud WebODF interface. At the top, the ownCloud logo and the document title 'welcome.odt' are visible. Below this is a toolbar with options like 'Share', 'Format', and various text formatting tools (bold, italic, underline, strikethrough). The main content area shows a document with the following text:

What is so exciting about it?

It can do one simple yet amazingly useful thing - show office documents without any other software dependency on your system and without the need for any server to translate the documents for you.

It can embed fonts too!

That means that WebODF is able to give you access to your documents everywhere, without forcing you to give others access too. WebODF can work with text documents, spreadsheets and even complete presentations. And you can use all the things you need to make great looking content: styles, fancy graphics that look sharp and crisp, as well as embedded fonts that make your creation look consistently on every device.

WebODF is entirely written in JavaScript, the language that powers the modern web. But its real power comes from the browser – making it the most portable office code in existence. And it is free software - you can copy it and add it to your website or software easily as well, completely for free. That is right: you don't need to buy any software.

A few of the many advantages of WebODF:

- based on the internationally recognized ODF standard
- integrates perfectly into existing websites and apps
- highly modular, adding additional functionality that fits your needs is easy

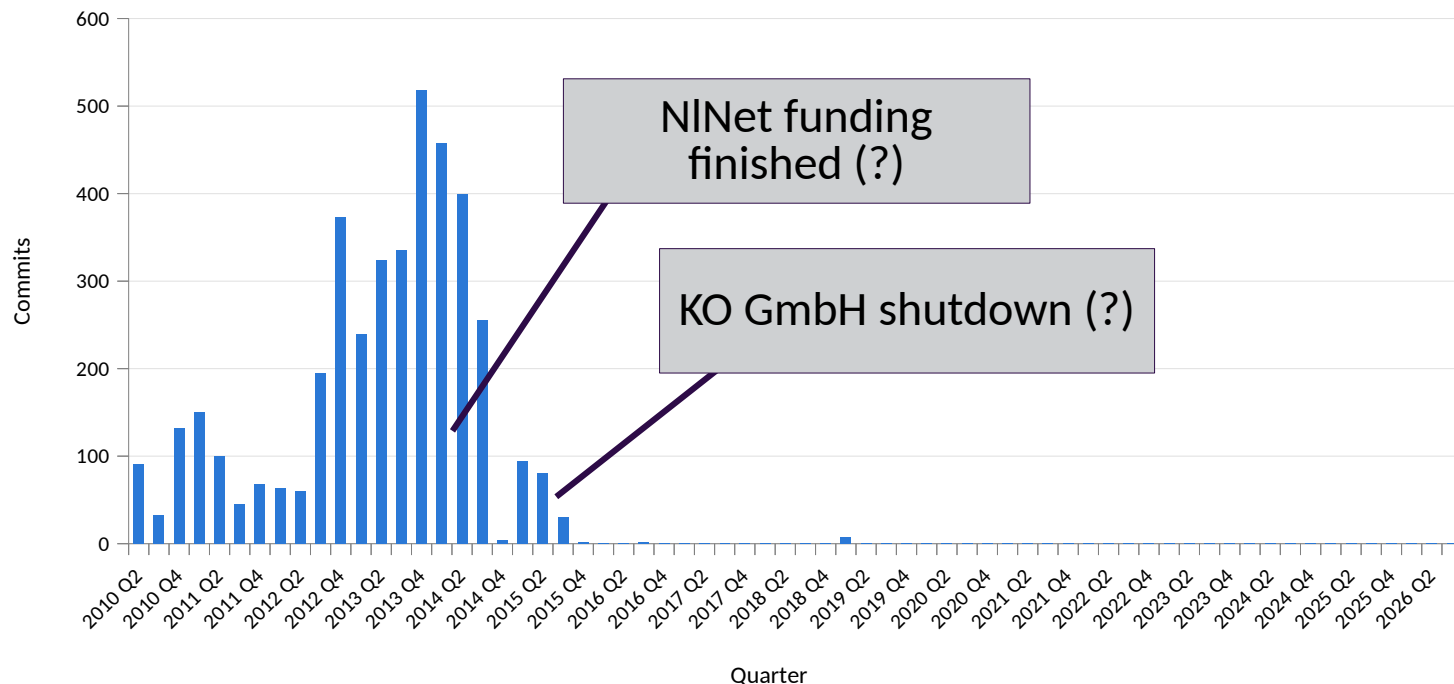
On the right side of the interface, there is a sidebar with user avatars. The top avatar is for 'kossebau' and the bottom one is for 'Guest 6 (guest)'.

WebODF – collaborative browser bits

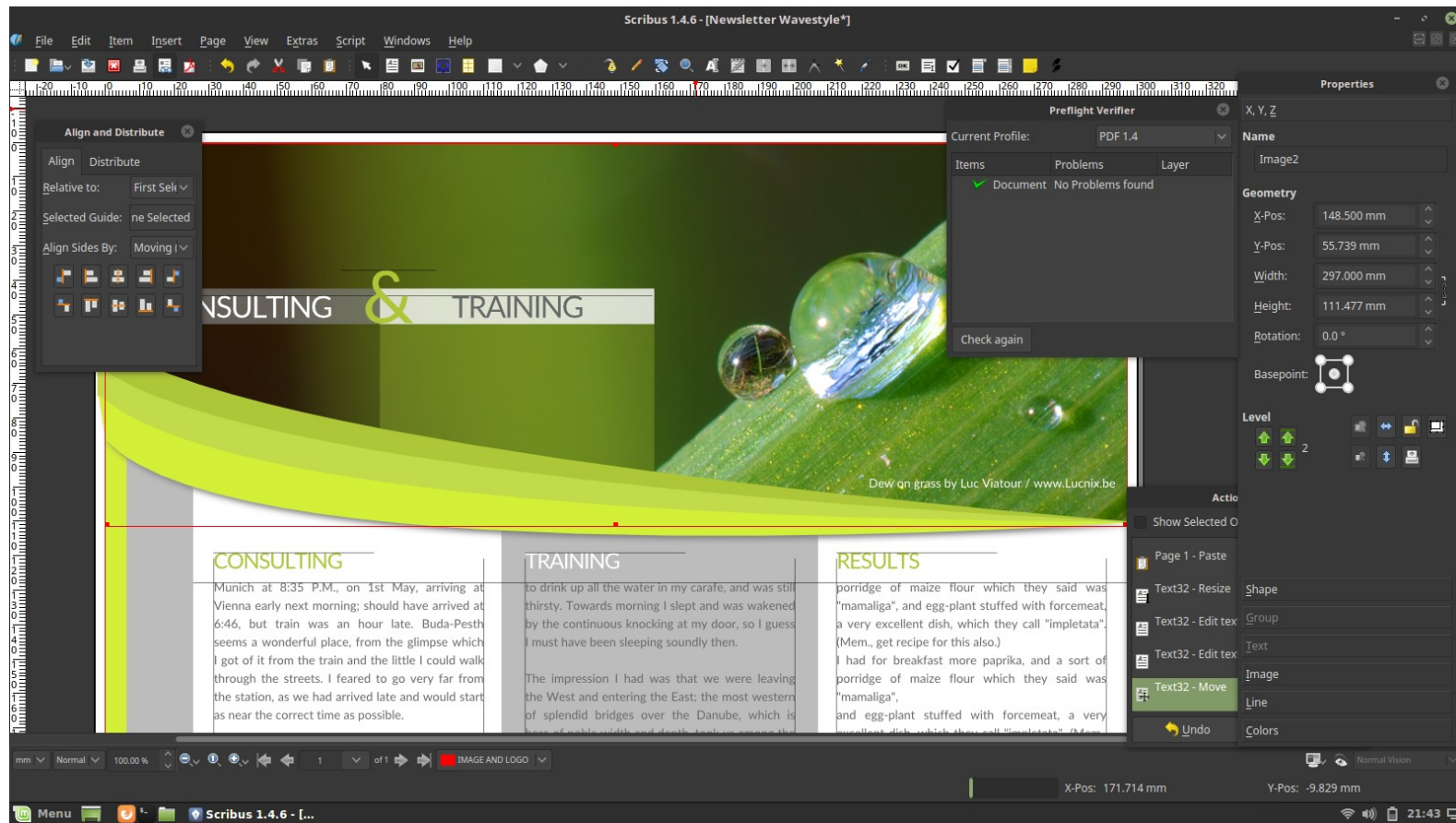
Jos van den Oever + KO GmbH



Commits per quarter: WebODF

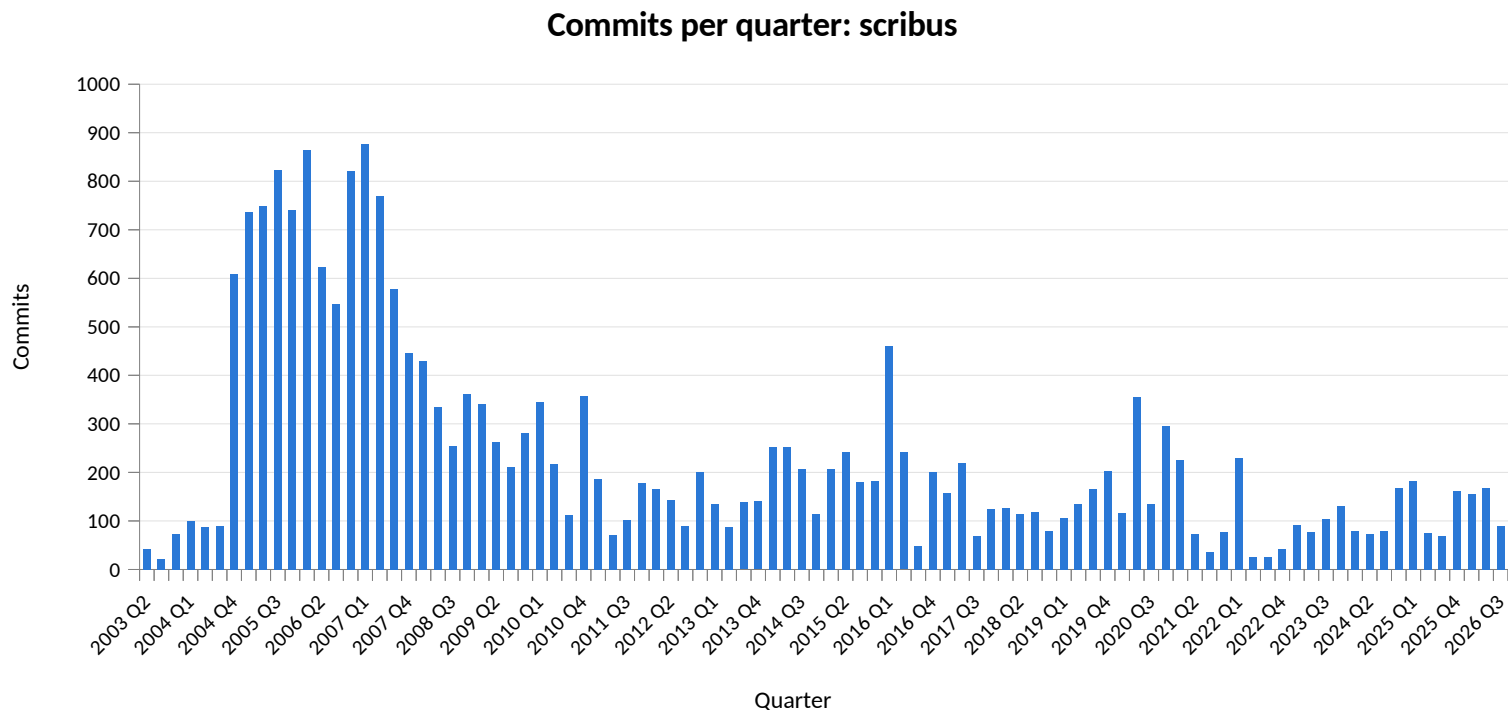


Scribus – FLOSS DTP ...

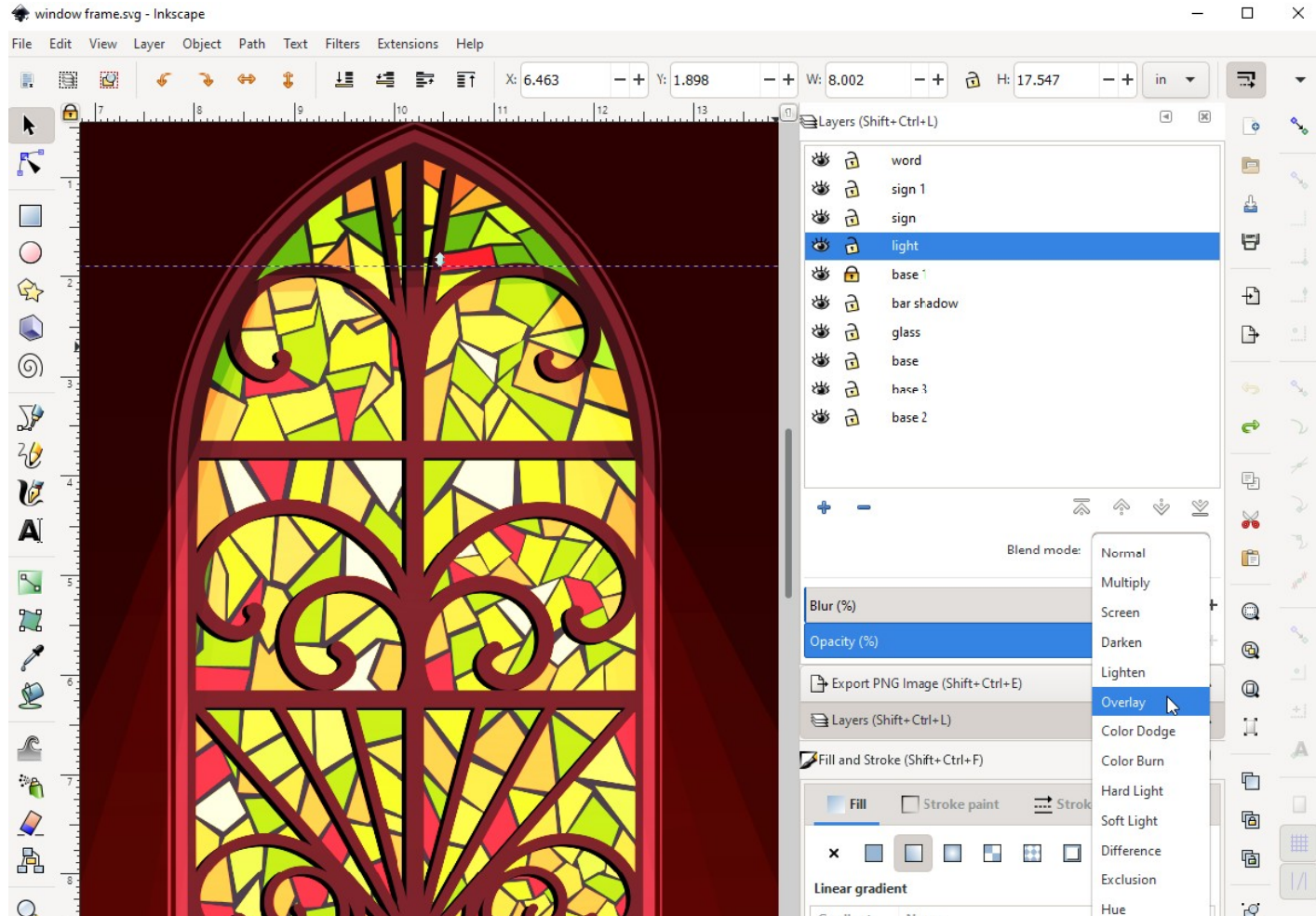


Scribus – commits ...

Qt – desktop publishing ...

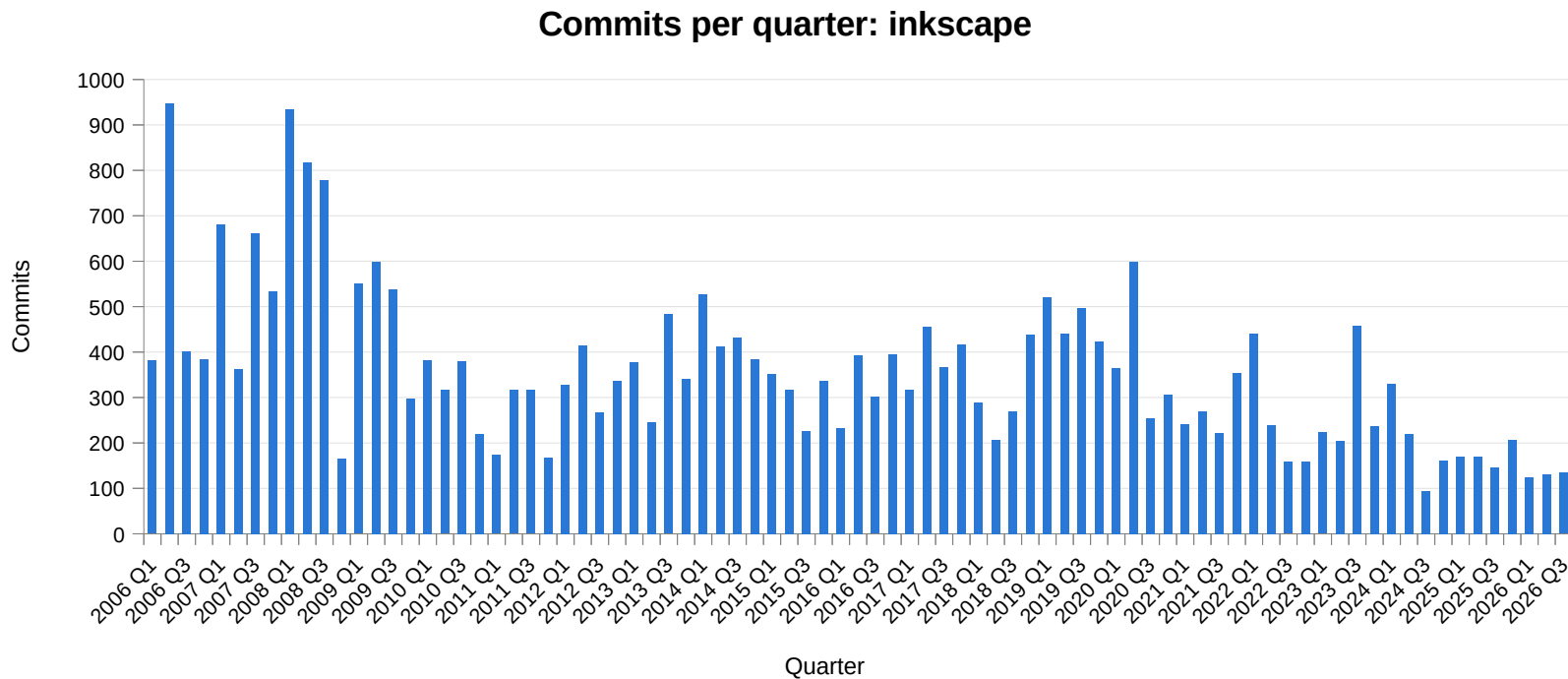


Sodipodi forked to → Inkscape ...

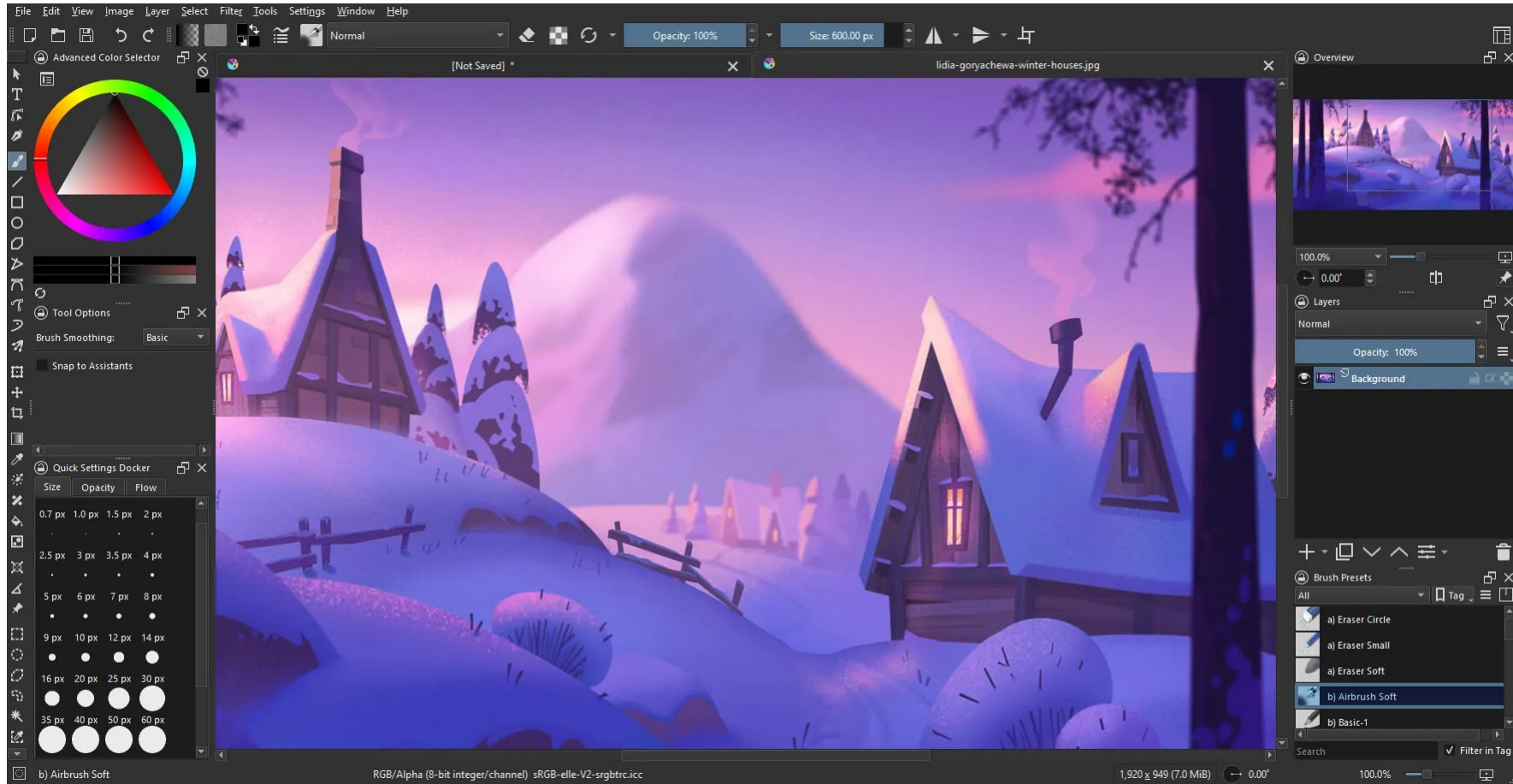


InkScape – commits ...

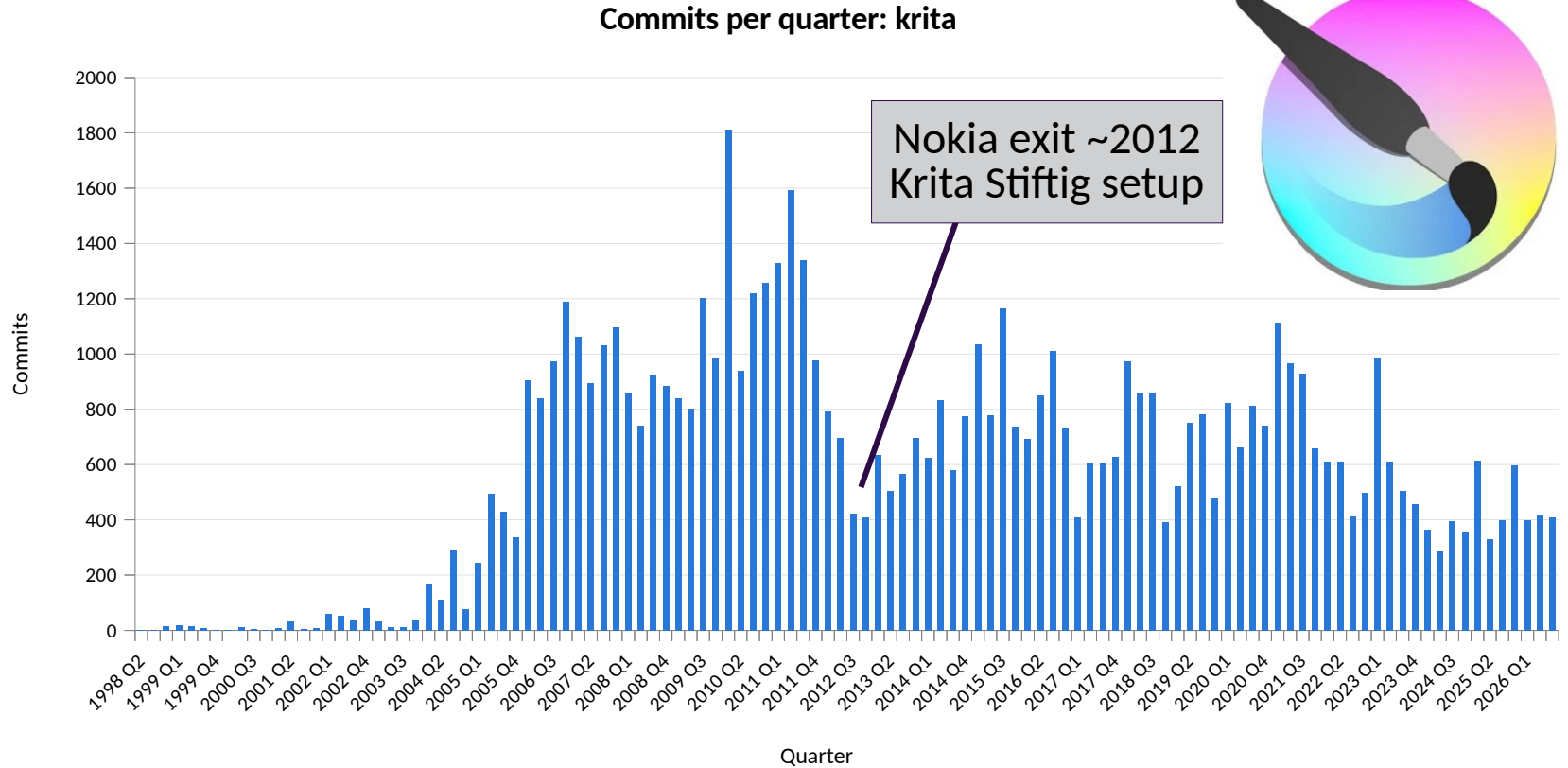
Beautiful SVG / vector-graphics editor



Krita – Qt pixel editing



Krita – an app-store success story



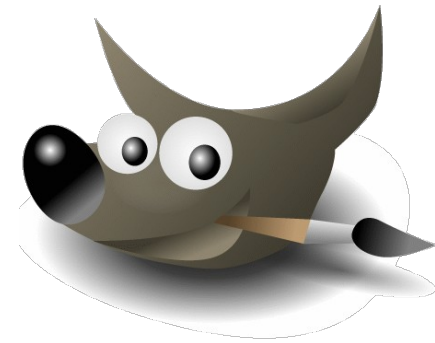
GNOME Office bits ...

GIMP – GNU Image ManiPulation

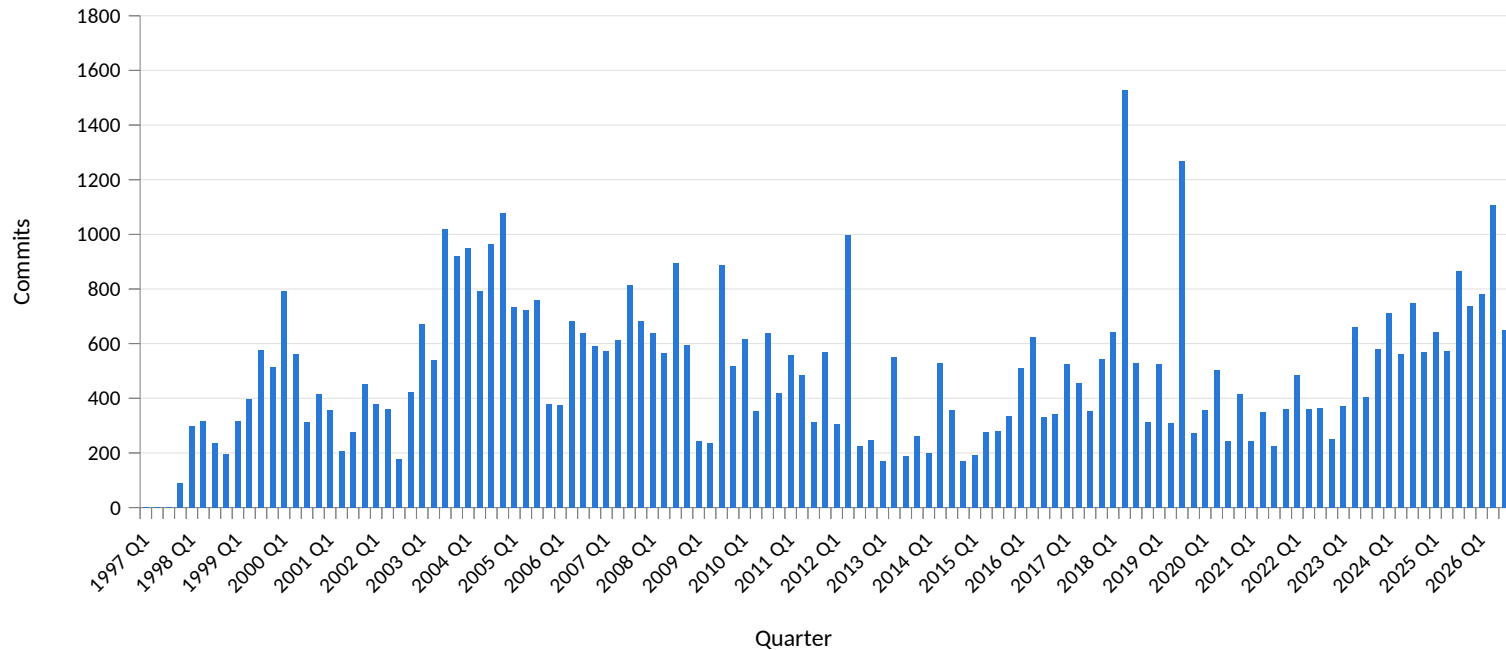


GIMP – Image manipulation

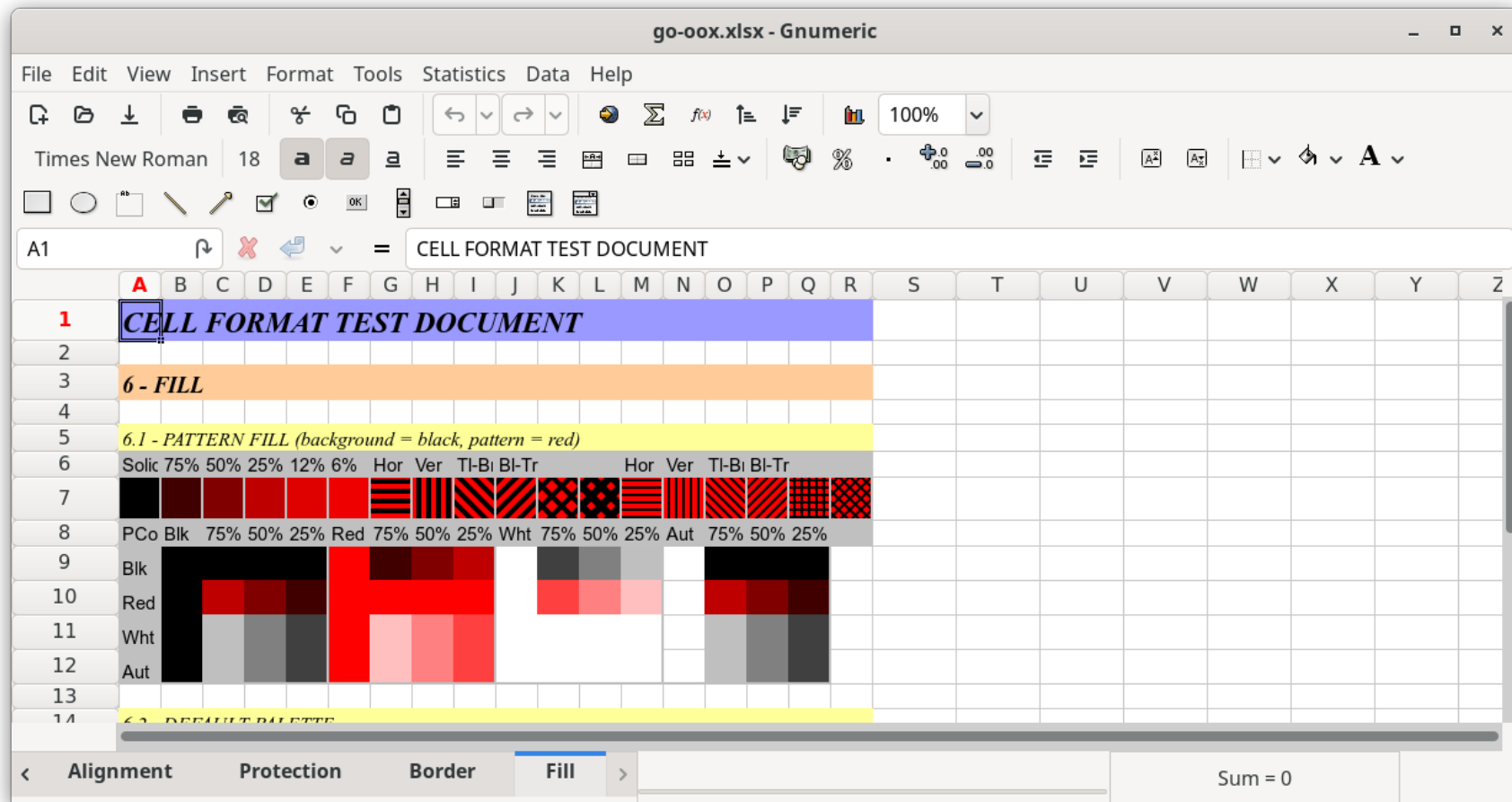
Steady ongoing work since 1997 ...



Commits per quarter: gimp

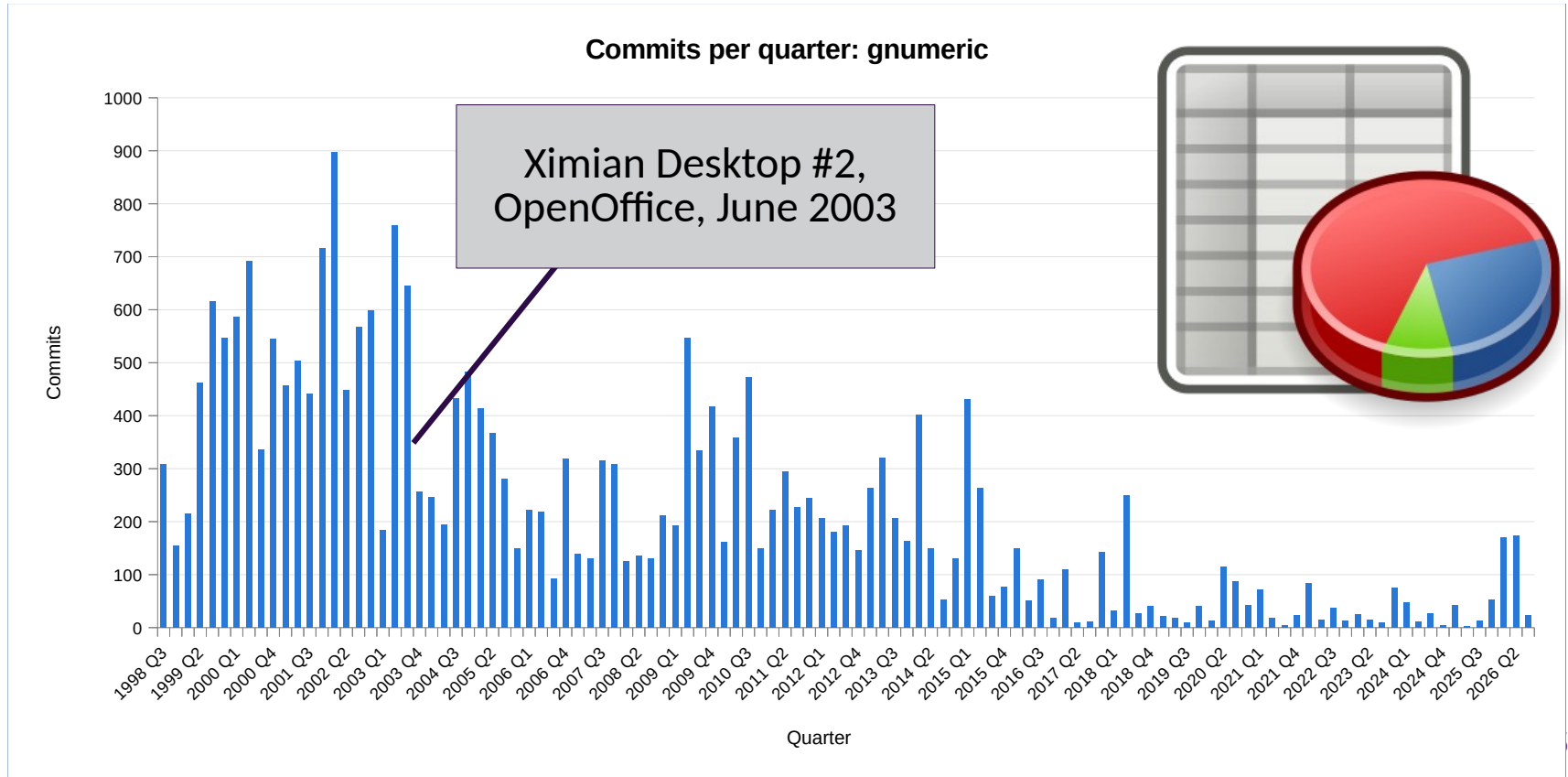


Gnumeric – an awesome spreadsheet

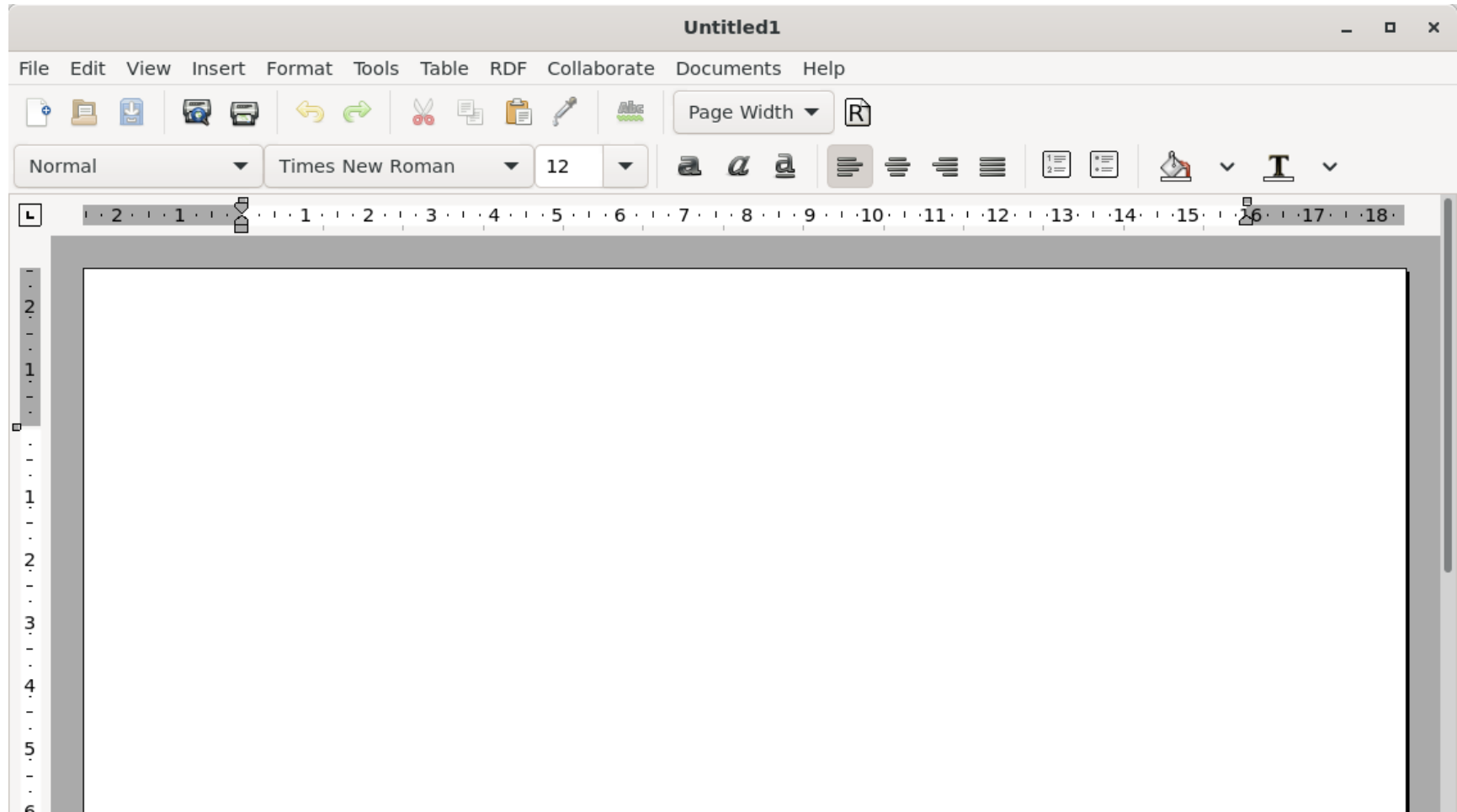


Gnumeric: an awesome spreadsheet

Morten Welinder & Anders Jonsson keep it going + translators:

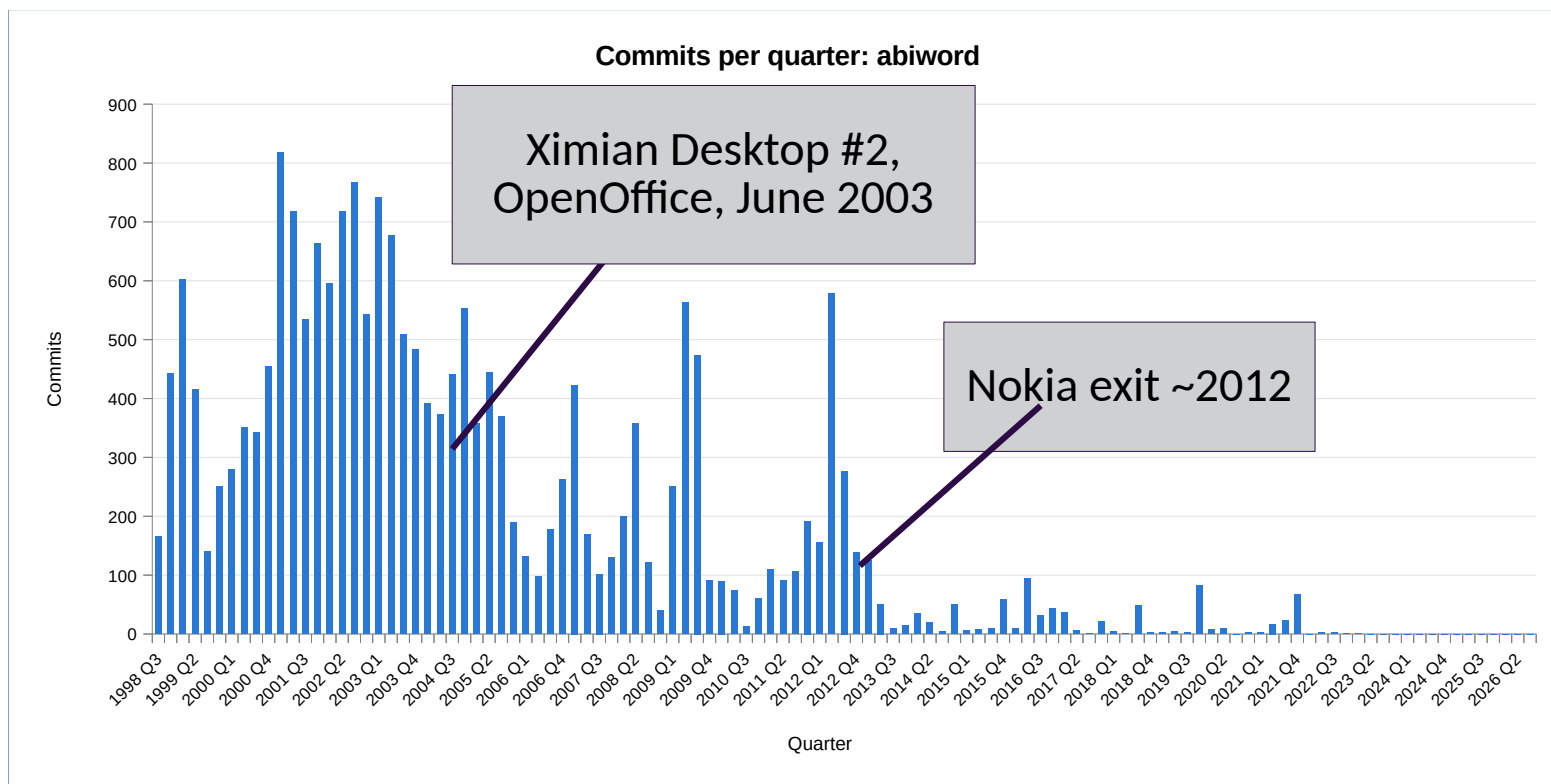


Abiword – P2P collaborative text docs



AbiWord ...

AbiCollab – Operation Transforms / [ChangeRecords](#) ...



MagicPoint – just kill the features !

My 2001-03-07
“Future of GNOME”

MagicPoint:

- Mark-down nothing ...
- Python-style tab indenting for bullets.

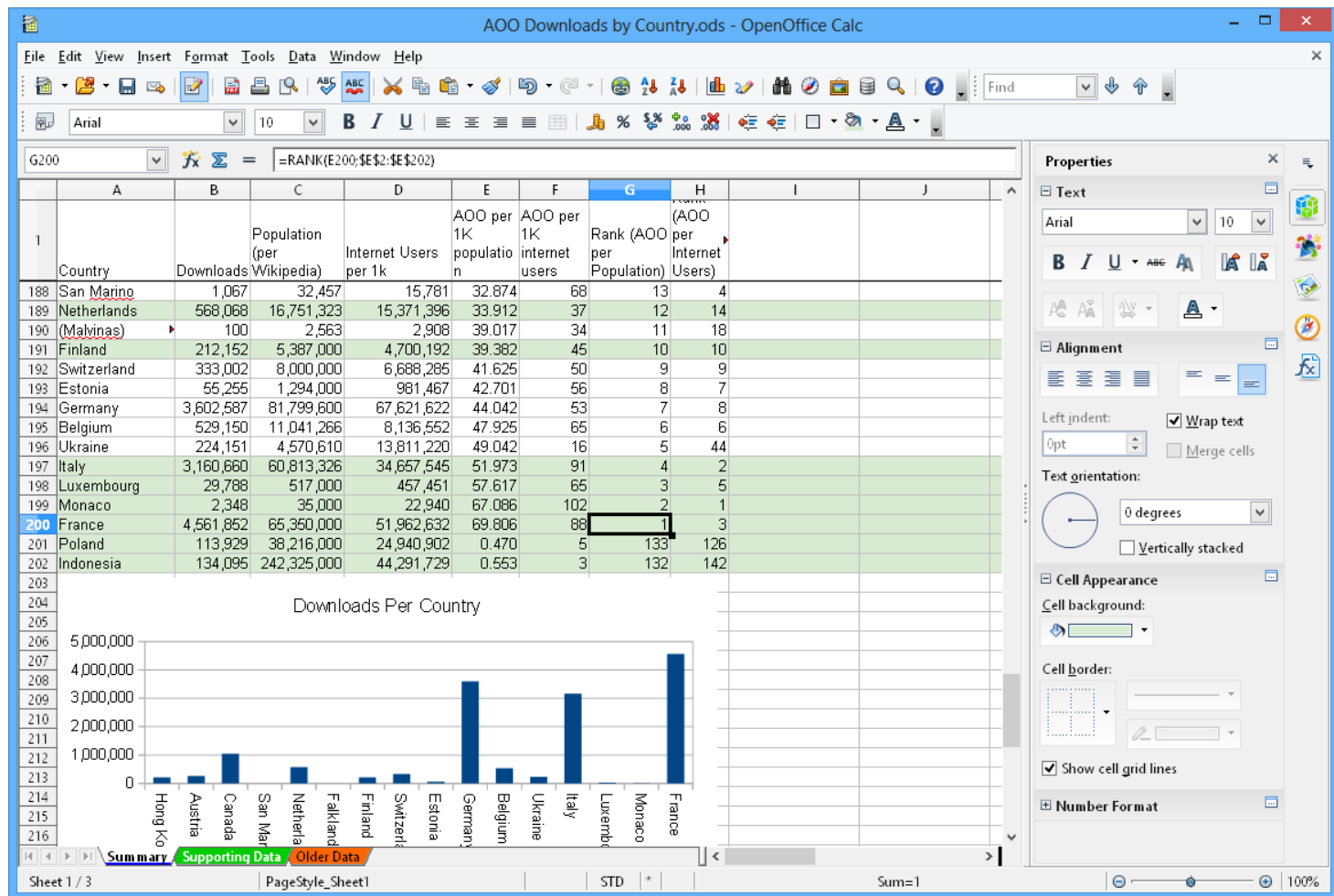
Abandoned when we got
charts, and objects & ...

No git repo for stats ...

```
# Helix Code magicpoint template.
#
# Feverishly created by Nat Friedman in the airport
...
# Copyright 2000, Helix Code, Inc.
...
%page
The GNOME project
the GNU Network Object Model Environment
...
        started      : August 1997
        version 1.0    : March 1999
        version 1.4    : March 2001
%size 3
%size 6
Manifesto promises
        free software
        pick any window manager (hints)
        vendor neutral
        any programming language
```

Open / Libre / Collabora Office

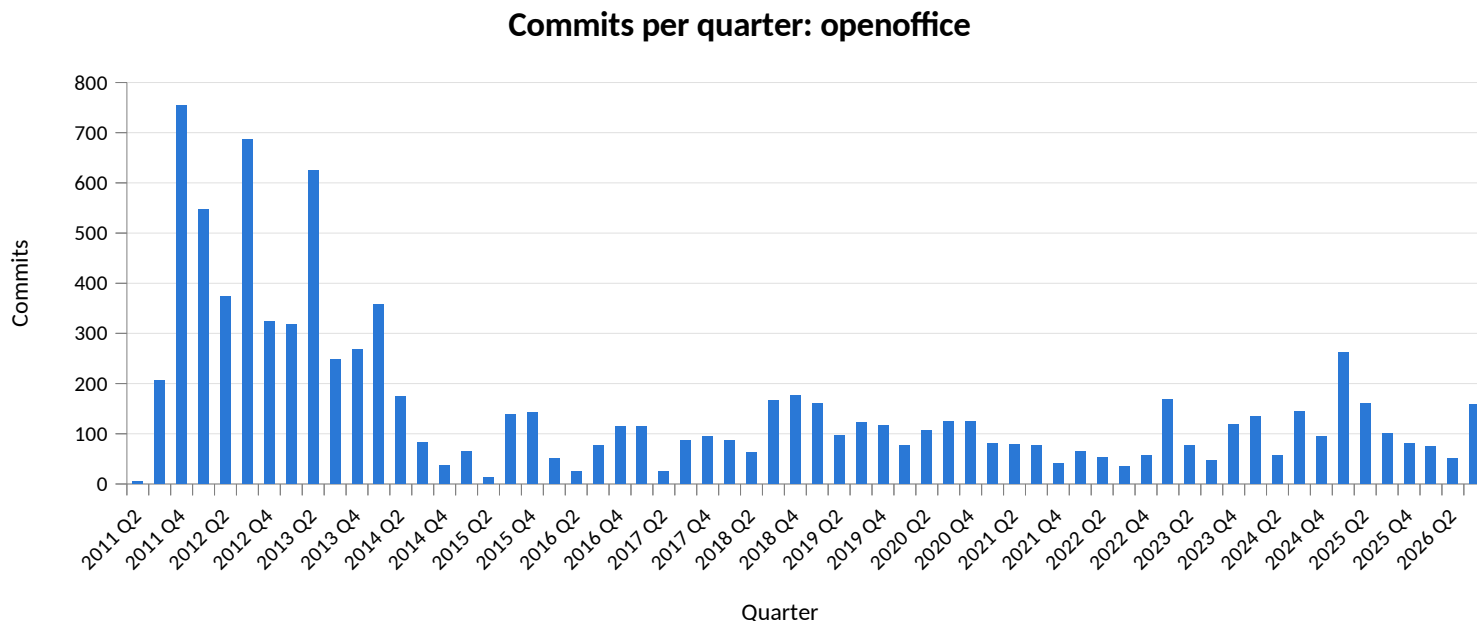
Apache OpenOffice



Apache OpenOffice

~10 committers continue to work

- <400 commits in the last year vs. ~10k for LibreOffice



LibreOffice – quite familiar here

WG262-WriterGuide.odt — LibreOffice Writer

File Home Insert Layout References Review View Extension Tools

Home Find

What are styles?

Most people are used to writing documents according to physical attributes. For example, you might specify the font family, font size, and weight (for example: Helvetica 12pt, bold). In contrast, styles are *logical* attributes. For example, you can define a set of font characteristics and call it *Title* or *Heading 1*. In other words, styles mean that you shift the emphasis from what the text *looks like* to what the text *is*.

Direct formatting	Styles
Bold	→ Heading 1
Liberation Sans	
18 pt	
4 mm above	
2 mm below	
Single line spacing	

Figure 197: Direct formatting vs Styles

Why use styles?

There are a number of advantages to using Styles instead of direct formatting:

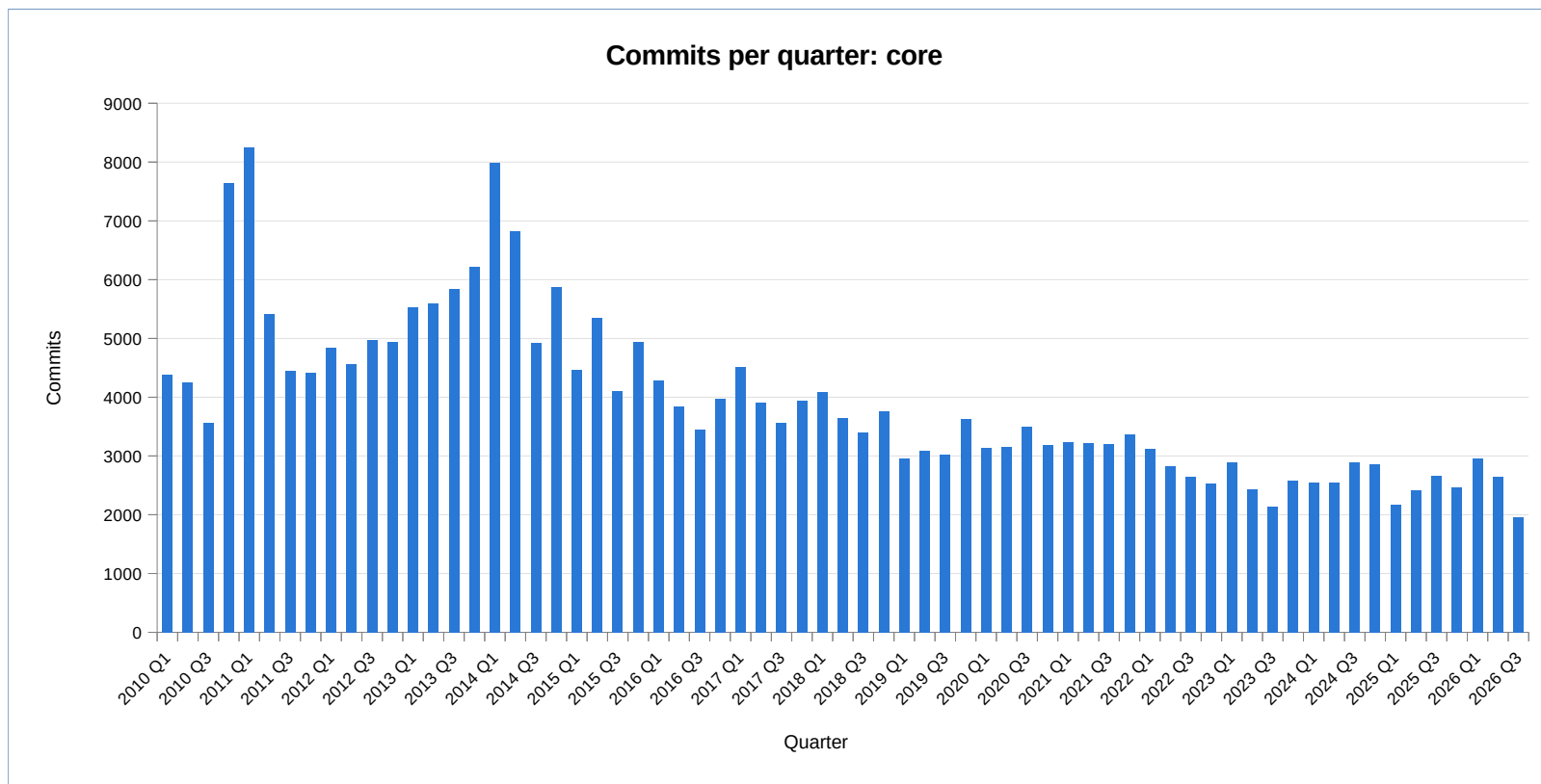
- Styles help improve consistency in a document.
- Styles can apply complex formatting changes in a single action. For example, Figure

WG262-WriterGuide (active)

Page 196 of 526 141,037 words, 809,749 characters Default Page Style Section38, Outline 2 100%

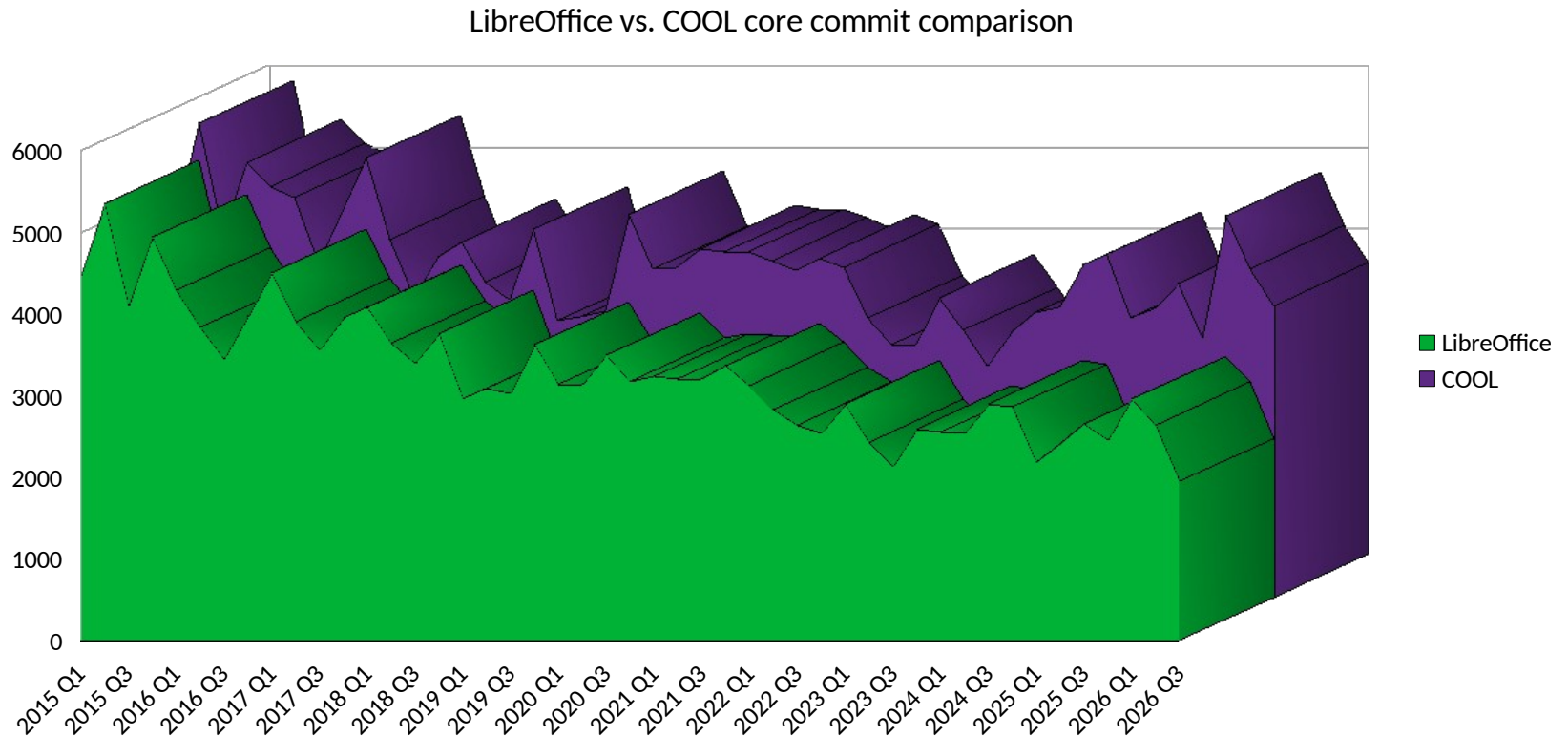
LibreOffice:

Just the 'core' module ...

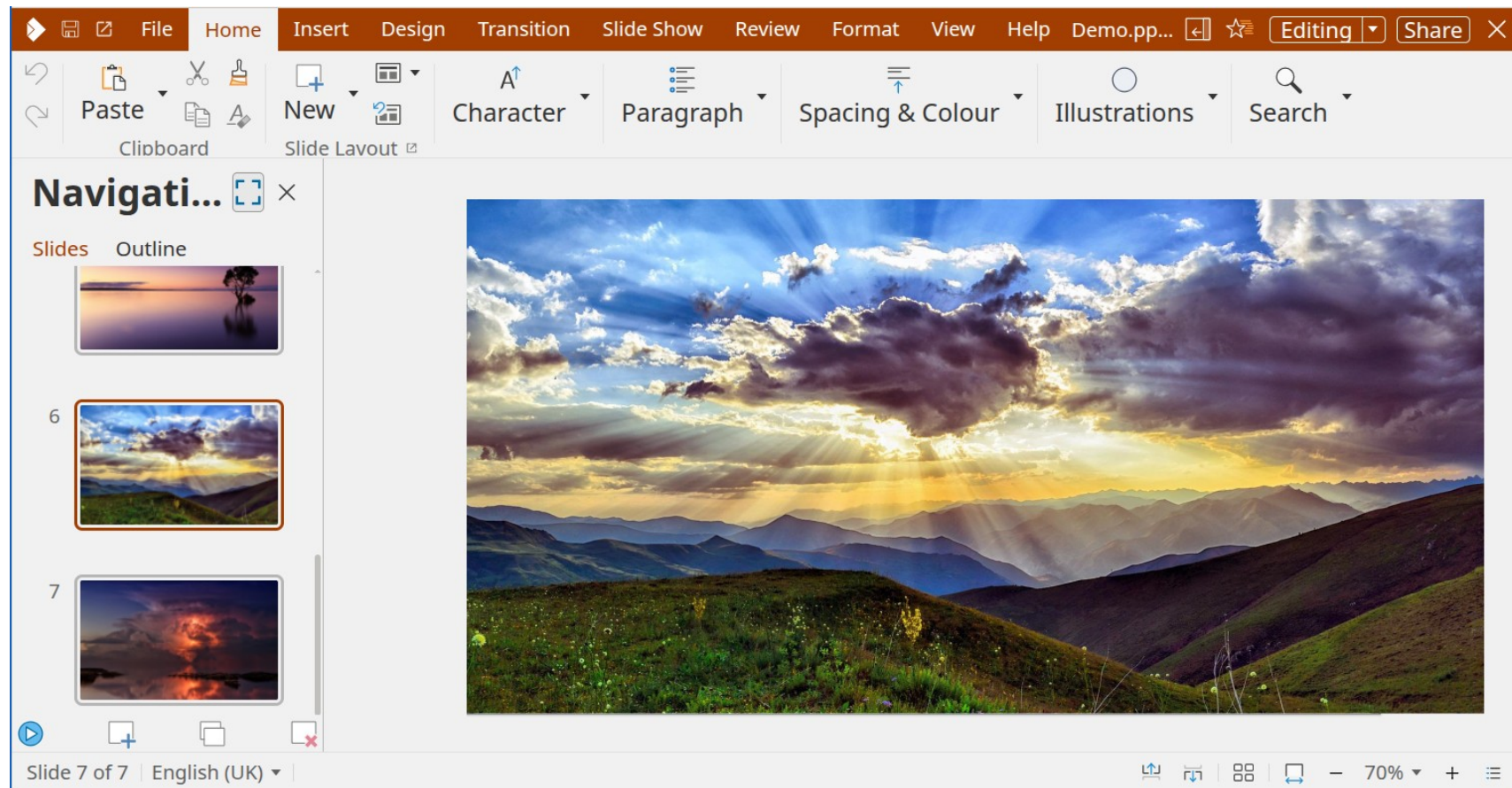


A comparison ? ...

LibreOffice core commits (~35% come from Collabora anyway ...)



Collabora Office



Other Office bits ...

OnlyOffice – with love from Russia

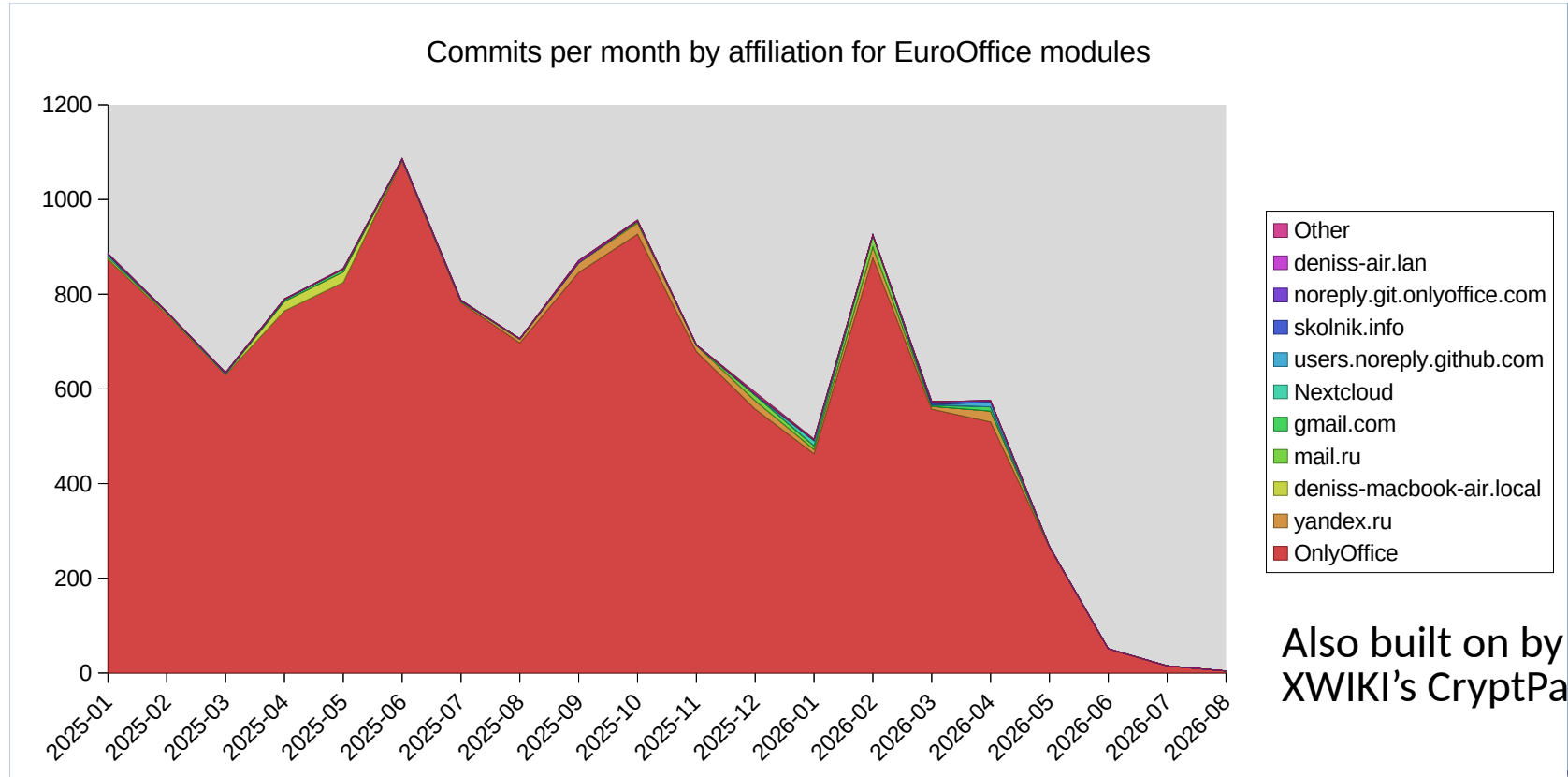
Open-Source washing? – a somewhat ‘cute’ license ...

The screenshot displays the OnlyOffice web interface for a spreadsheet application. The title bar shows 'ONLYOFFICE' and the file name 'go-oox.xlsx (R... X)'. The menu bar includes File, Home, Insert, Draw, Layout, Formula, Data, Collaboration, Protection, View, Plugins, and AI. The ribbon is currently set to 'Home', showing font settings (Times New Roman, size 18) and various formatting options like bold, italic, underline, and fill. The spreadsheet itself is titled 'CELL FORMAT TEST DOCUMENT' and contains a series of rows demonstrating different fill and pattern options. Row 1 is blue, row 2 is orange, row 3 is yellow, and row 4 is black. Row 5 is labeled '6.1 - PATTERN FILL (background = black, pattern = red)'. Row 6 shows a grid of fill options: Solid 75%, 50%, 25%, 12%, 6%, Hor, Ver, TL-Br, BL-Tr, Hor, Ver, TL-Br, BL-Tr. Row 7 shows a grid of fill options: PCol, Blk, 75%, 50%, 25%, Red, 75%, 50%, 25%, Wht, 75%, 50%, 25%, Aut, 75%, 50%, 25%. Row 8 shows a grid of fill options: Blk, 75%, 50%, 25%, Red, 75%, 50%, 25%, Wht, 75%, 50%, 25%. Row 9 shows a grid of fill options: Red, 75%, 50%, 25%, Wht, 75%, 50%, 25%. Row 10 shows a grid of fill options: Wht, 75%, 50%, 25%. Row 11 shows a grid of fill options: Wht, 75%, 50%, 25%. The bottom status bar shows 'Zoom 100%' and a page number '35/54'.

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	
1	CELL FORMAT TEST DOCUMENT																				
2																					
3	6 - FILL																				
4																					
5	6.1 - PATTERN FILL (background = black, pattern = red)																				
6	Solid	75%	50%	25%	12%	6%	Hor	Ver	TL-Br	BL-Tr											
7																					
8	PCol	Blk	75%	50%	25%	Red	75%	50%	25%	Wht	75%	50%	25%	Aut	75%	50%	25%				
9	Blk																				
10	Red																				
11	Wht																				

OnlyOffice – with love from Russia

Open-Source washing? – a somewhat ‘cute’ license ...



Euro-Office – based on OnlyOffice

The screenshot displays the Collabora Office application window. The title bar shows 'Letter.docx'. The interface includes a menu bar (File, Home, Insert, Draw, Layout, References, Collaboration, Protection, View) and a ribbon with various formatting options. The main editing area contains a letter template with the following text:

Your company name or logo

Your name · Street name 123 · 12345 City name

Recipient name
Street name 123
12345 City name
Country

5. Feb 2021

Dear Recipient,

Lorem ipsum dolor sit amet, consectetur adipiscing elit. Nullam malesuada sapien vel turpis ullamcorper, eu blandit lacus auctor. Praesent non pharetra libero. Nullam scelerisque turpis et tellus ultrices auctor. Integer eget lacus quis metus sagittis cursus. Ut interdum pharetra ligula, et posuere mi dictum a.

Curabitur eget eros nec orci volutpat sollicitudin quis sed lorem. Vestibulum interdum fermentum odio sit amet semper. Etiam consectetur eros eu eros aliquam elementum. Nulla auctor, est quis vestibulum cursus, velit mauris euismod leo, nec consequat mauris tortor eget mauris.

Sed vel mauris nulla. Pellentesque porta odio in nulla sollicitudin venenatis. Morbi ullamcorper varius consequat. Ut accumsan urna in egestas placerat.

Best regards,

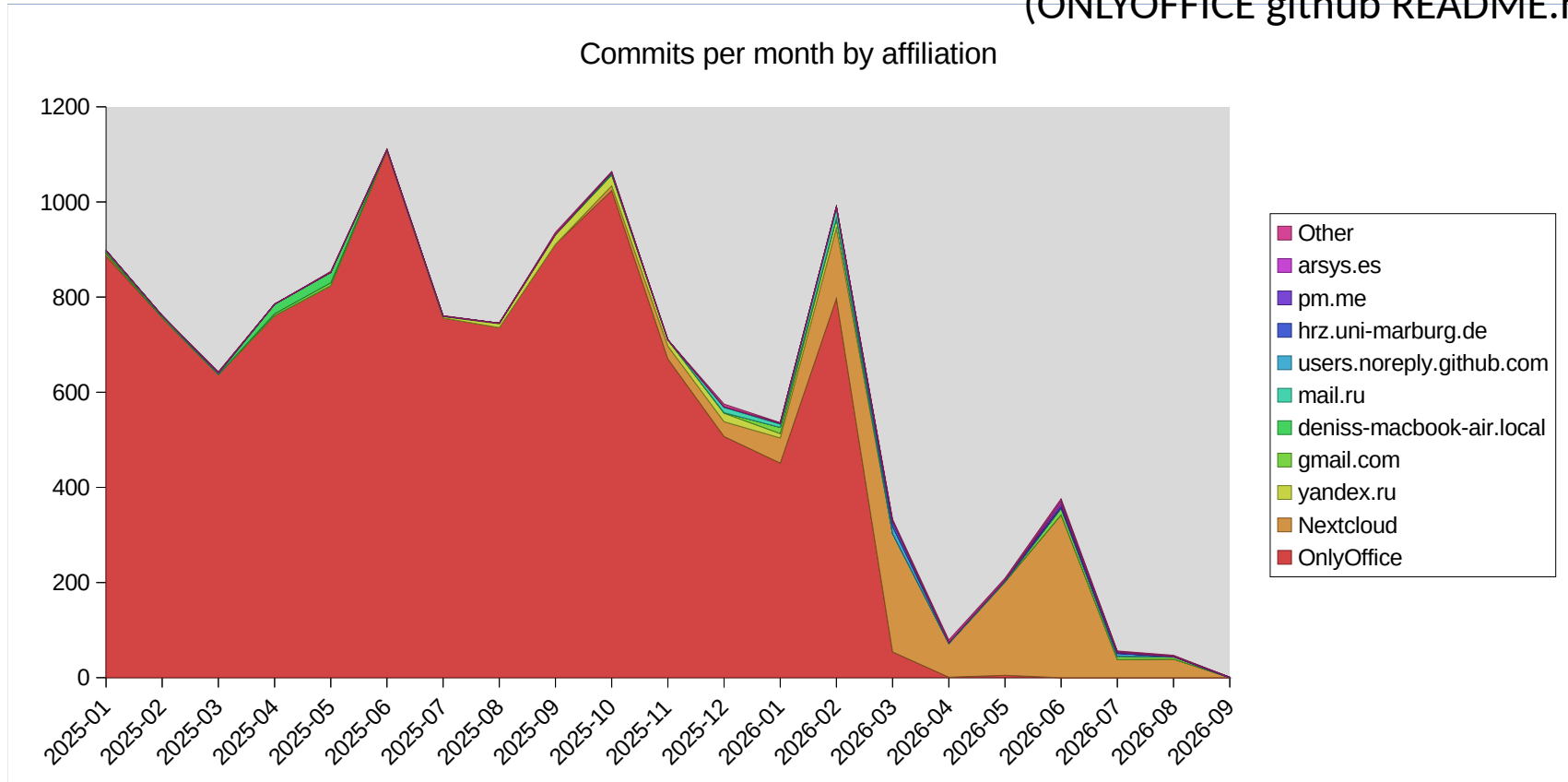
Your name
Job title

Page 1 of 1 | Word count | Deutsch – Deutschland | Zoom 100%

EuroOffice: Nextcloud + some

“The “Euro-Office” initiative constitutes ... a breach of the applicable license.”

(ONLYOFFICE github README.md)



Grist – a spreadsheet/database

ACME HUMAN RESOURCES

Add New

Employee View

Department View

TOOLS

Access Rules

Raw Data

Document History

Code View

Settings

Help Center

All Employees

Department

	Employee Name	Department
1	Adinolfi, Wilson K	Production
2	Ait Sidi, Karthikeyan	IT/IS
3	Akinkuolie, Sarah	Production
4	Alagbe, Trina	Production
5	Albert, Michael	Sales
6	Anderson, Carol	Sales
7	Anderson, Linda	Production
8	Andreola, Colby	Engineering
9	Athwal, Sam	Production
10	Bachiochi, Linda	IT/IS
11	Bacong, Alejandro	IT/IS
12	Baczinski, Rachael	Sales
13	Barbara, Thomas	Production
14	Barone, Francesco	Production
15	Barton, Nader	Production
16	Beak, Kimberly	Production
17	Beatrice, Courtney	Production
18	Becker, Renee	IT/IS
19	Becker, Scott	Production
20	Bernstein, Sean	Production

Employee Card

Employee Name
Ait Sidi, Karthikeyan

EmplID
1307060199

Photo


Department
IT/IS

Position
Sr. DBA

PayRate
\$62.00

ManagerName
Simon Roup

PerformanceScore
Fully Meets

State
MA

Zip
02148

Date of Hire
1975-05-05

Married
M

US Citizen
US Citizen

Termd
Date of Termination

EmploymentStatus
Active

TermReason
N/A - still employed

RecruitmentSource
Company Intranet - Partner

Agreements
PDF

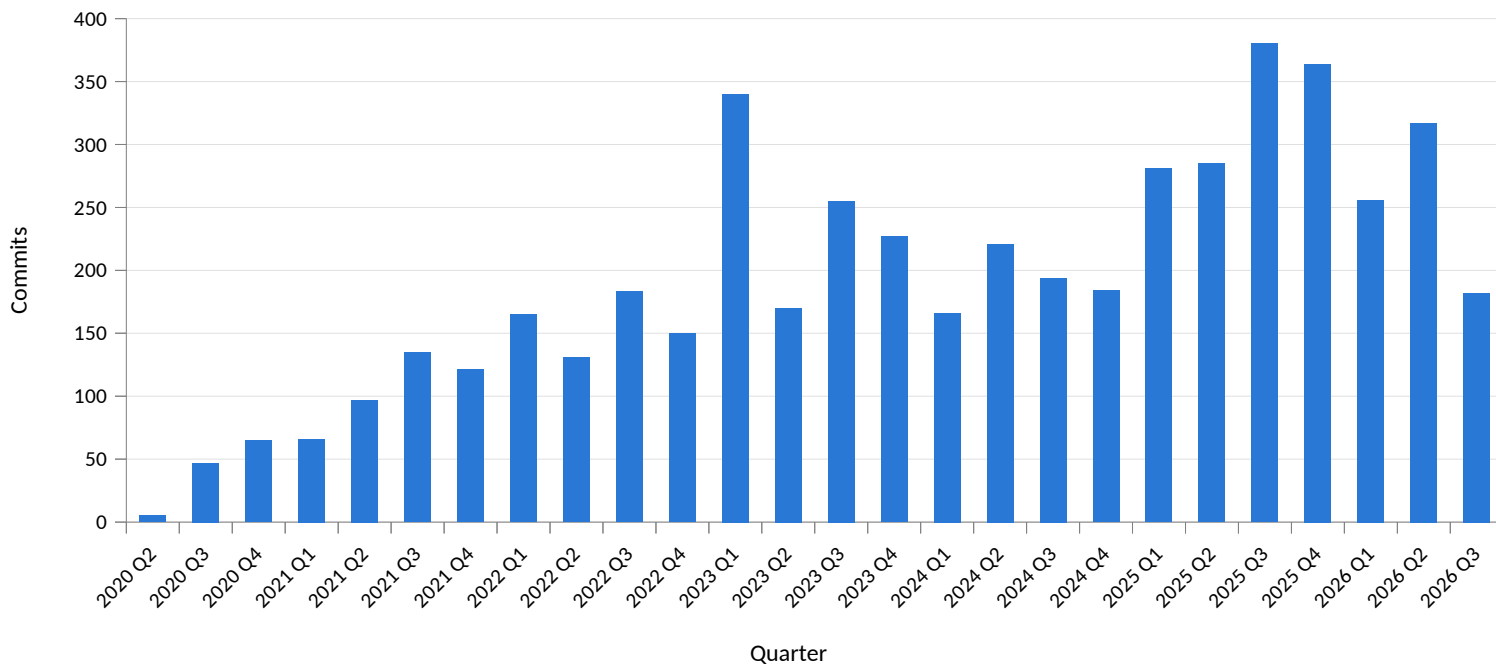
See records as cards

Grist – a ‘table’ thing ...



VC funded “relational spreadsheet-database” between Excel & Access

Commits per quarter: grist-core



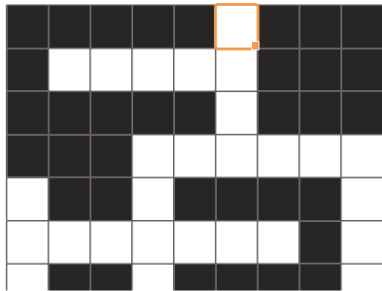
IronCalc – RUST + WASM spreadsheet

app.ironcalc.com

File Help crossword Share

123 12 B I U S T

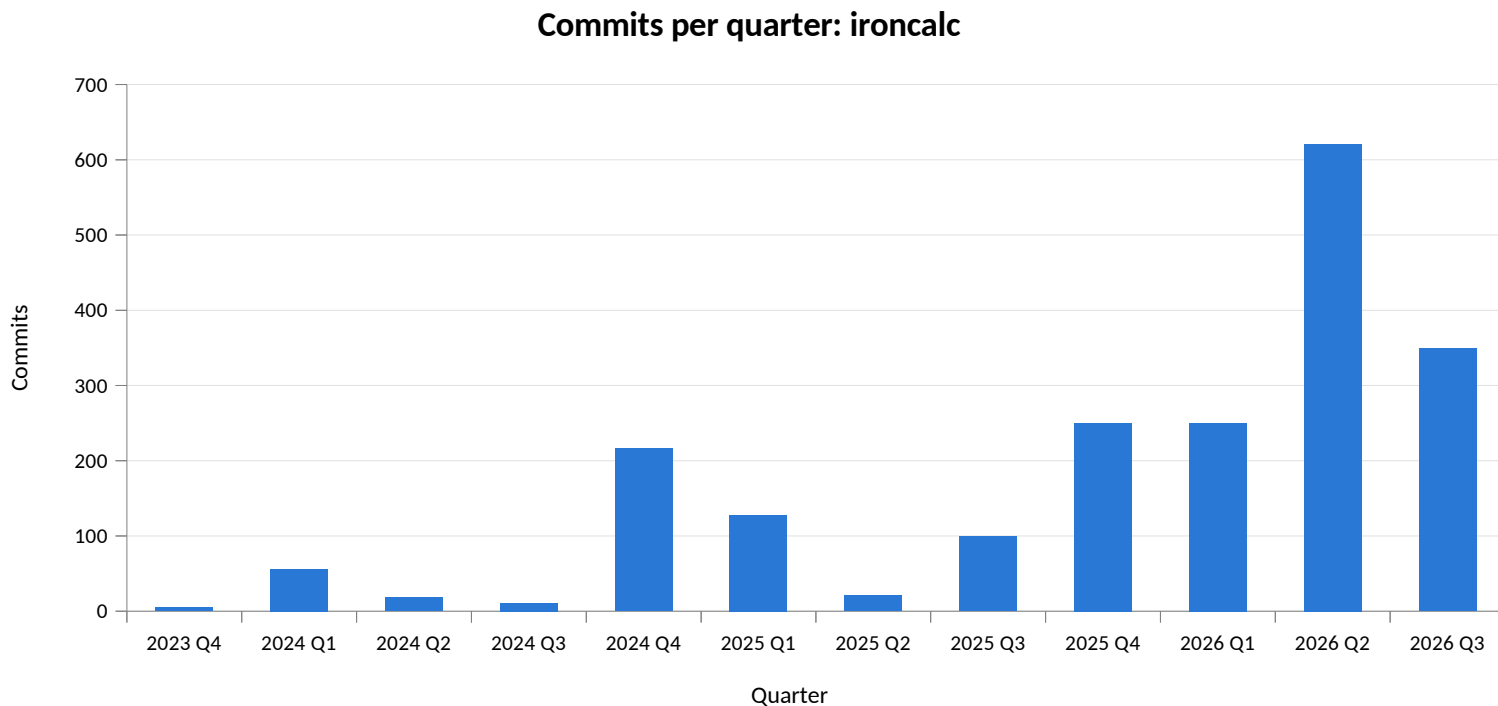
G8 fx

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U
1																					
2	HOW THIS CROSSWORD WORKS																				
3	Type ONE letter per white square in the grid below. Clues are on the right side.																				
4	Correct letters turn GREEN automatically; wrong letters turn RED.																				
5	Track your progress on the right. The answer key lives on the hidden 'Key' sheet.																				
6																					
7	CROSSWORD ☐ Spreadsheet Edition												CLUES								
8													Across								
9													C9. The data a cell holds (5)								
10													E11. Show only rows that meet a condition (6)								
11													B13. The arithmetic mean (7)								
12													B15. A vertical line of cells, A or B (6)								
13													D17. Structured range with headers (5)								
14																					

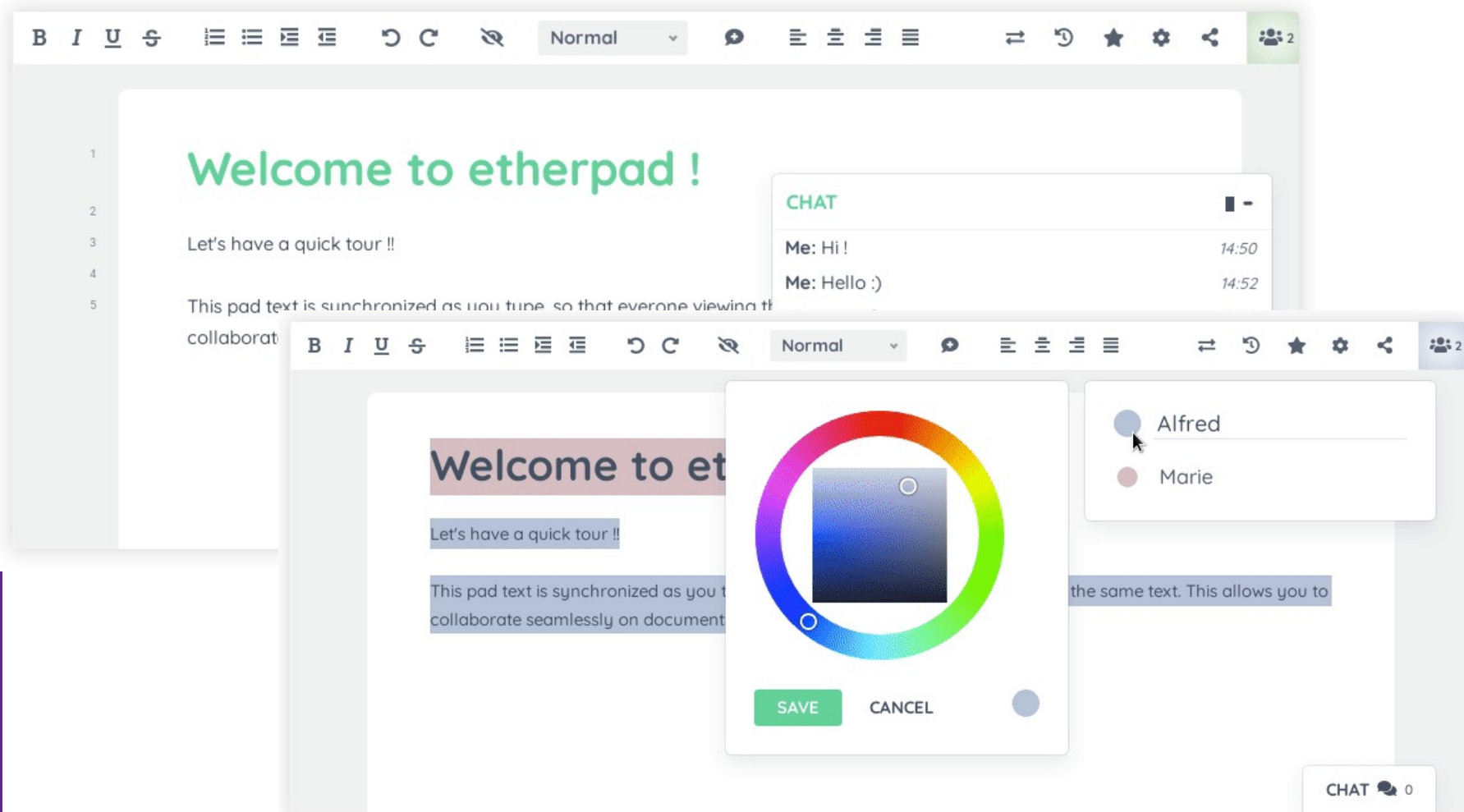
+ Crossword

IronCalc: Rust + WASM spreadsheet

Funded by an NGI / NINet grant currently ...

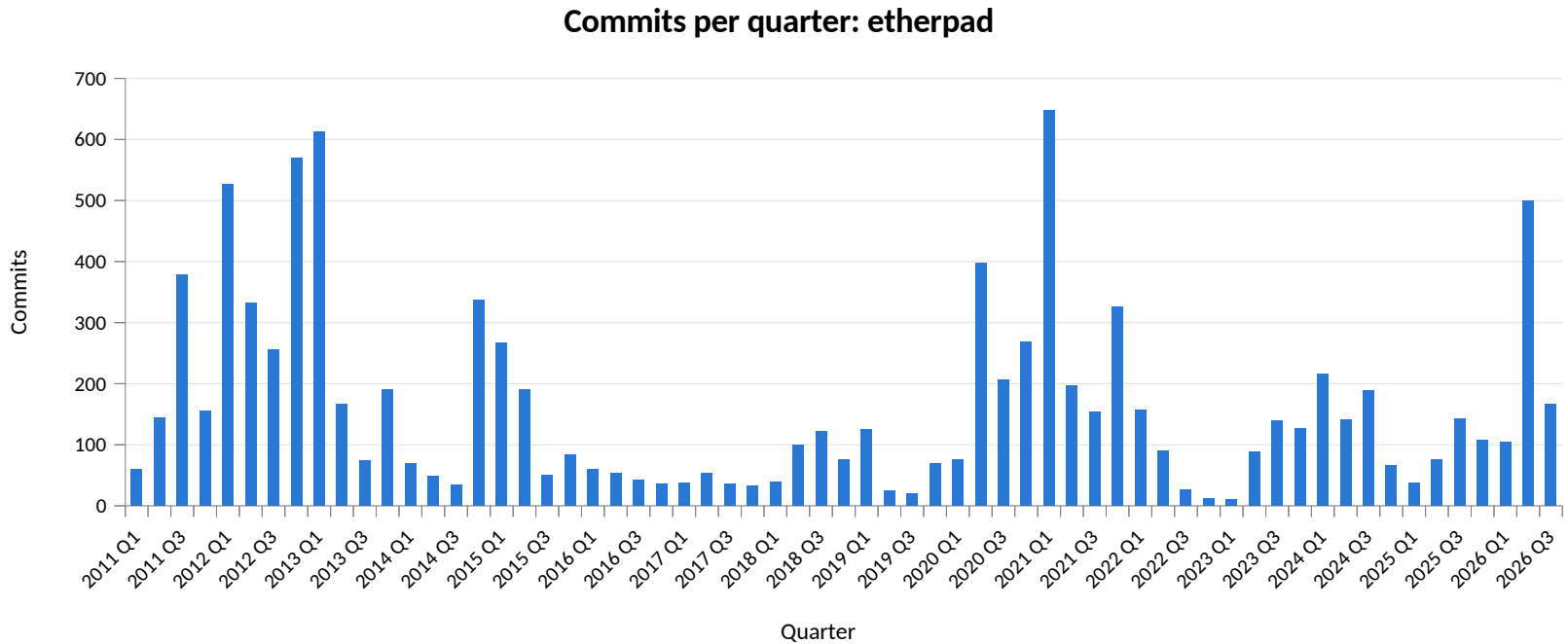


Etherpad pictures



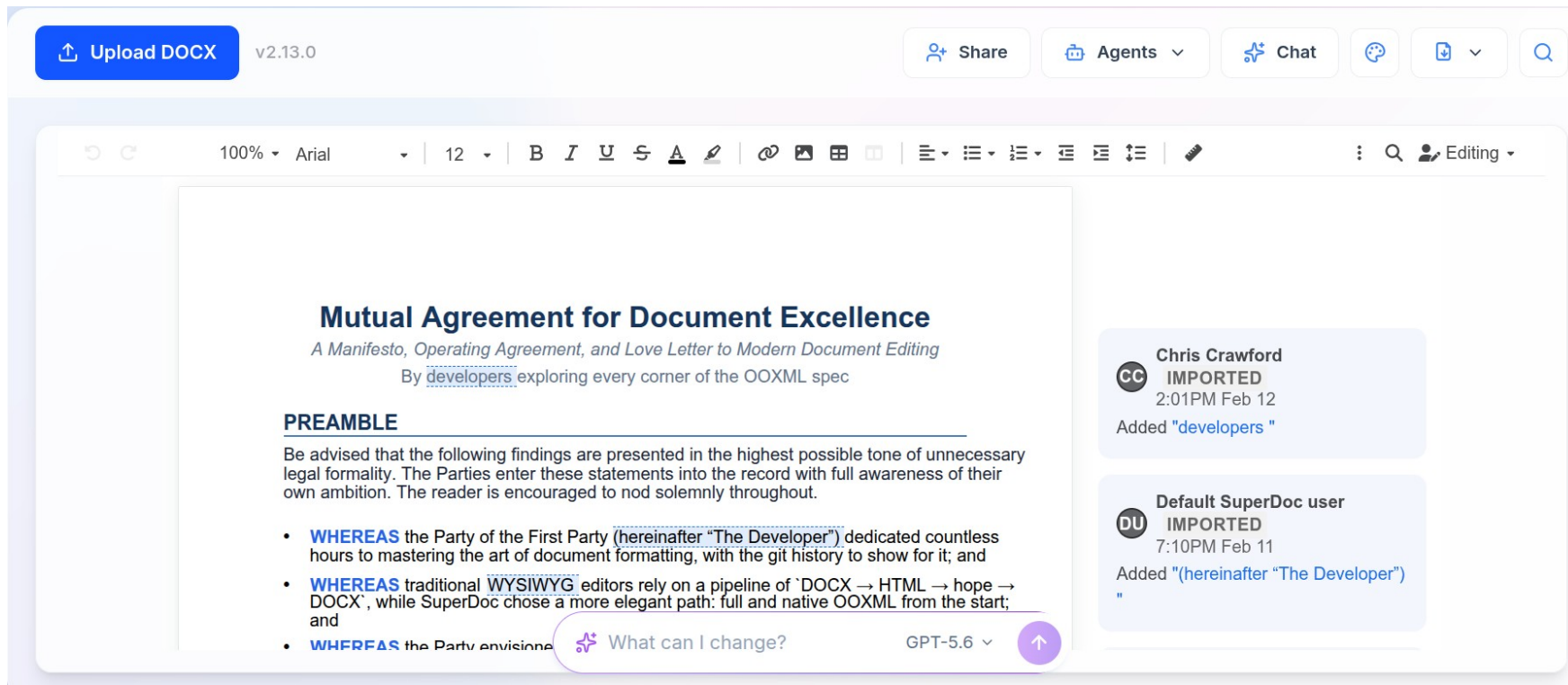
Etherpad – Operational Transforms

Simple text collaborative editing & history / timeline



SuperDoc – AGPL / web collaborative

VC funded Javascript + CRDT magic : DOCX editor & AI APIs



The screenshot displays the SuperDoc web interface. At the top, there is a blue button labeled "Upload DOCX" and a version indicator "v2.13.0". To the right are buttons for "Share", "Agents", "Chat", and a search icon. Below this is a rich text editor toolbar with various formatting options like bold, italic, underline, and link. The main editing area contains a document titled "Mutual Agreement for Document Excellence" with a subtitle "A Manifesto, Operating Agreement, and Love Letter to Modern Document Editing" and a byline "By developers exploring every corner of the OOXML spec". The document starts with a "PREAMBLE" section followed by a list of bullet points. The first bullet point mentions "WHEREAS the Party of the First Party (hereinafter 'The Developer') dedicated countless hours to mastering the art of document formatting, with the git history to show for it; and". The second bullet point mentions "WHEREAS traditional WYSIWYG editors rely on a pipeline of 'DOCX → HTML → hope → DOCX', while SuperDoc chose a more elegant path: full and native OOXML from the start; and". The third bullet point is partially visible and starts with "WHEREAS the Party envisione". To the right of the editor is a sidebar with two chat messages. The first message is from "Chris Crawford" with a "CC" icon, stating "IMPORTED 2:01PM Feb 12" and "Added 'developers '". The second message is from "Default SuperDoc user" with a "DU" icon, stating "IMPORTED 7:10PM Feb 11" and "Added '(hereinafter 'The Developer') '". At the bottom of the editor, there is a search bar with the text "What can I change?" and a dropdown menu showing "GPT-5.6".

Upload DOCX v2.13.0

Share Agents Chat

100% Arial 12 B I U S A [Link] [Image] [Table] [List] [Indent] [Outdent] [Undo] [Redo] [Editing]

Mutual Agreement for Document Excellence

A Manifesto, Operating Agreement, and Love Letter to Modern Document Editing

By developers exploring every corner of the OOXML spec

PREAMBLE

Be advised that the following findings are presented in the highest possible tone of unnecessary legal formality. The Parties enter these statements into the record with full awareness of their own ambition. The reader is encouraged to nod solemnly throughout.

- **WHEREAS** the Party of the First Party (hereinafter "The Developer") dedicated countless hours to mastering the art of document formatting, with the git history to show for it; and
- **WHEREAS** traditional WYSIWYG editors rely on a pipeline of 'DOCX → HTML → hope → DOCX', while SuperDoc chose a more elegant path: full and native OOXML from the start; and
- **WHEREAS** the Party envisione

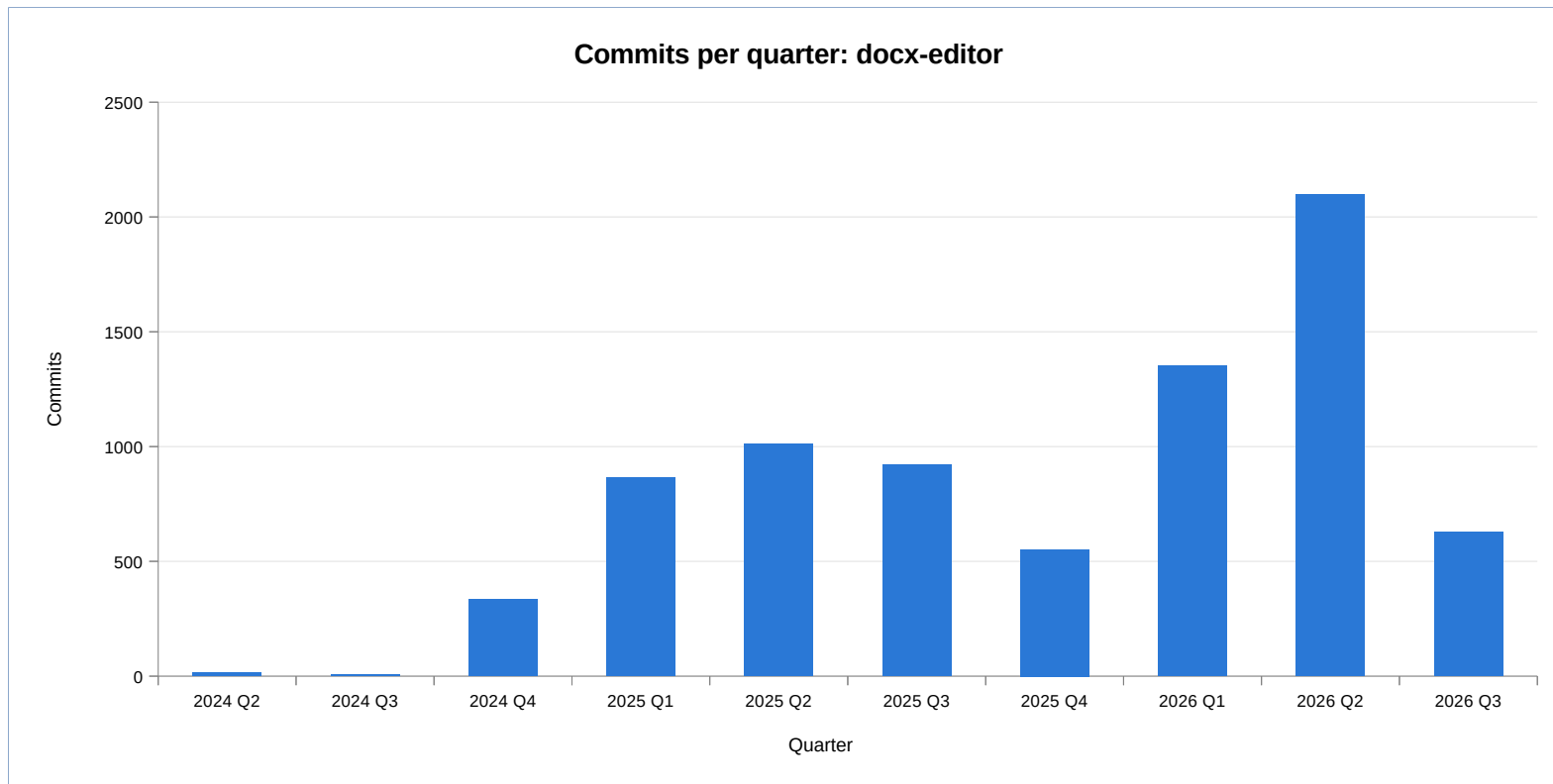
What can I change? GPT-5.6

Chris Crawford
CC IMPORTED
2:01PM Feb 12
Added "developers "

Default SuperDoc user
DU IMPORTED
7:10PM Feb 11
Added "(hereinafter 'The Developer') "

SuperDoc - commits

Docx-editor pieces ...



La Suite Docs ... DINUM/ French Gov't



Share



The Declaration of the Rights of Man and of the Citizen

Public · Owner · Last update: 44 seconds ago



La Liberté guidant le peuple, Eugène Delacroix 1830

+ :: Preamble

The representatives of the French people, organized in order to lay the foundations of a constitution, aware of the sacred rights of man, have determined to set forth, in the name of the Most High, the corruption of governments, have determined to set forth the unalienable, and sacred rights of man, in order that they

Docs

New

Docs Slides
6 minutes ago

Docs Slides

Owner · Last update: 6 minutes ago

Presentation Title

Subtitle

DD/MM/YYYY

Organization Name

Title

Context sentence

- Point 1
- Point 2
- Point 3

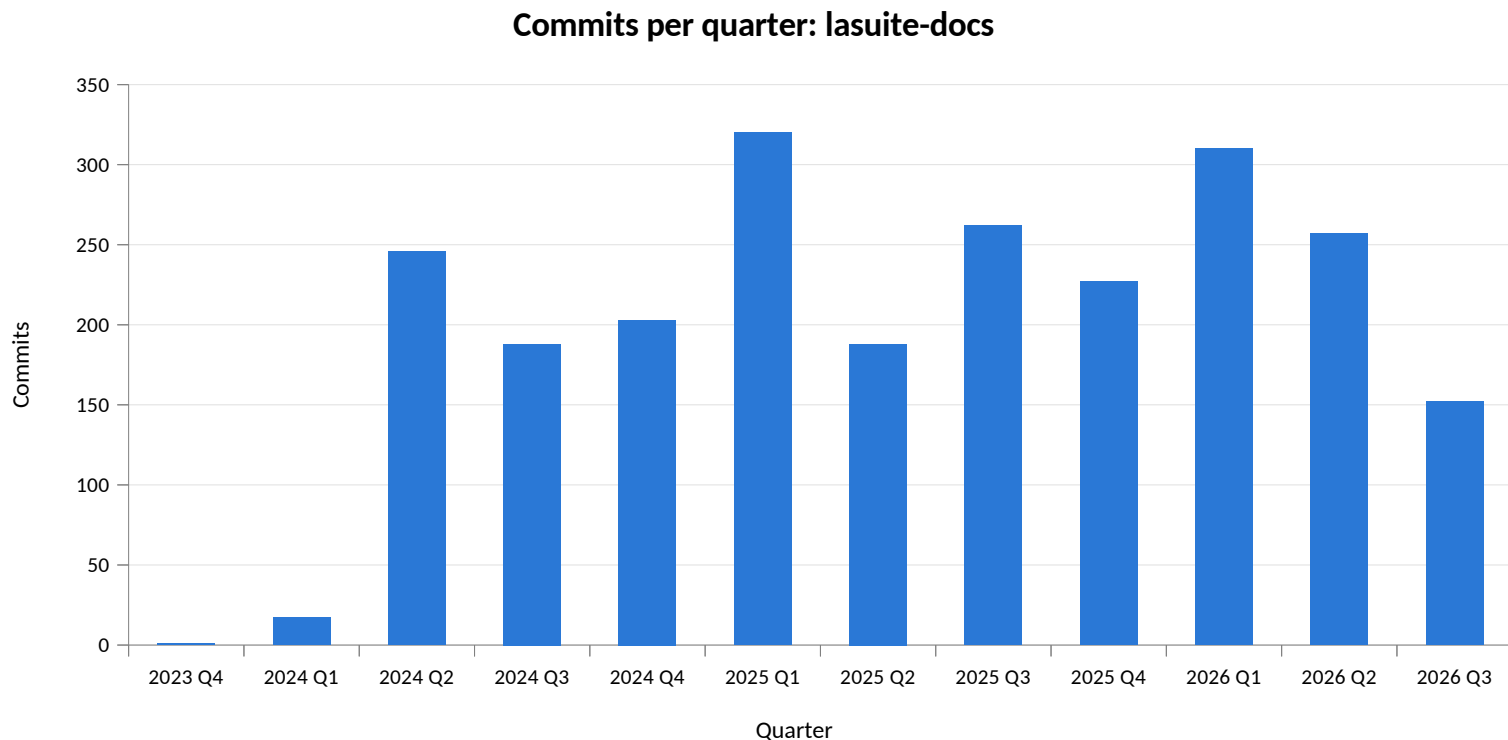
Slide with Table

Here is a summary table of **10 Norman cheeses** with their main characteristics:

Cheese	Weight (approx.)	Texture	Taste
Camembert de	250 g / 350 g	Creamy, soft	Mild, slightly salty,

La Suite – Docs ...

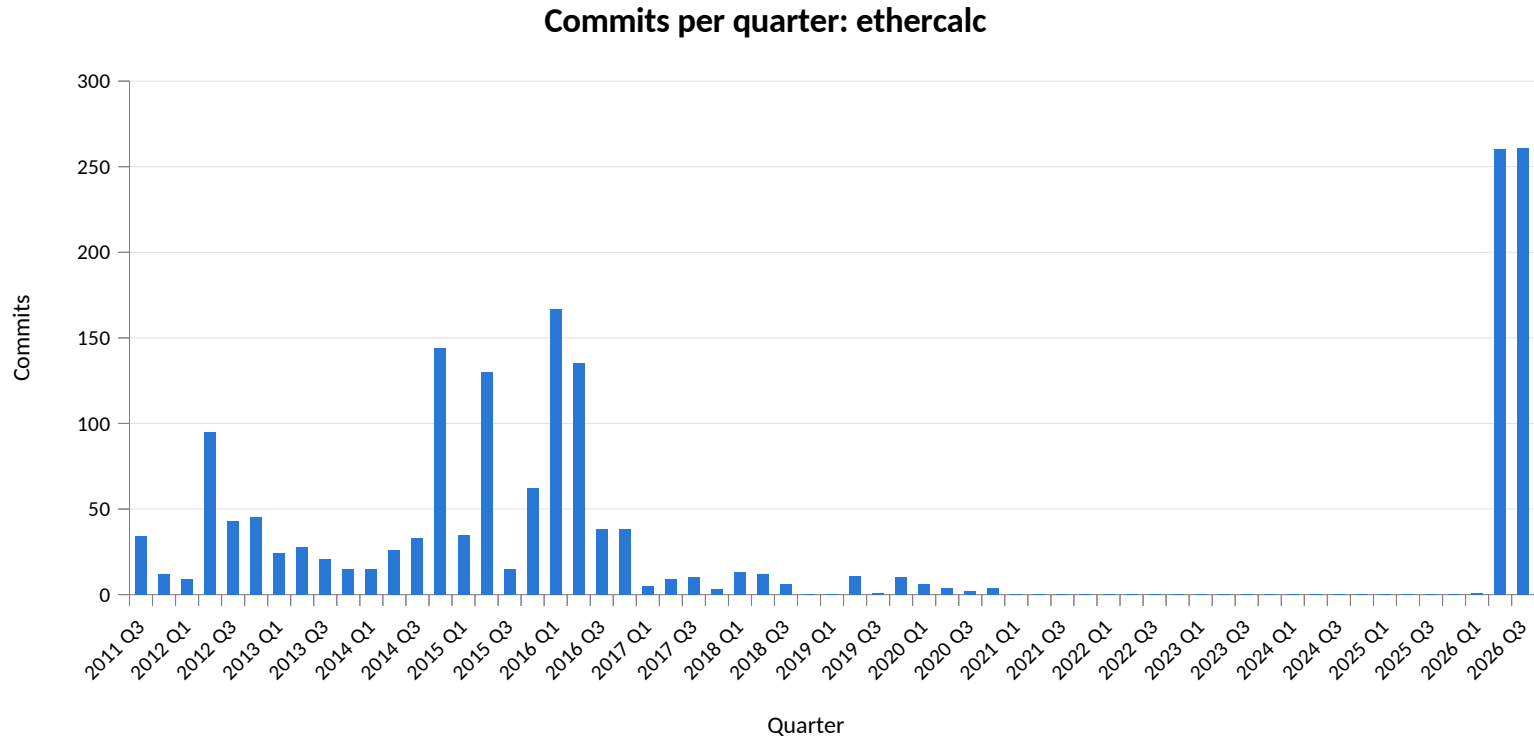
Wiki level live, collaborative editor, a prettier etherpad





Ethercalc

Audrey Tang's pet project: mostly one developer



Conclusions ...

*with apologies for missing your favourite
new, re-written office suite ...*

Commit are only a rough guide:

More caveats

- cf. the top ... >0 projects
- Missing dependencies:
 - eg. mdds, orcus
- A random selection of tools – missing yours
- Some projects are more mature and need less work ...
- Missing LaTeX family

Name	3 months	12 months
COOL	4498	16253
LibreOffice core	2633	10531
gimp	903	3420
<u>superdoc</u>	807	4748
<u>EuroOffice</u>	692	7400
<u>krita</u>	521	1892
<u>ironcalc</u>	478	1498
<u>ethercalc</u>	331	522
grist-core	258	1163
<u>etherpad</u>	229	894
<u>calligra</u>	218	436
<u>blocknote</u>	208	575
<u>lasuite-docs</u>	197	997
<u>inkscape</u>	172	651
<u>scribus</u>	136	585
<u>OnlyOffice – Eurocore</u>	98	7619
<u>gnumeric</u>	35	420

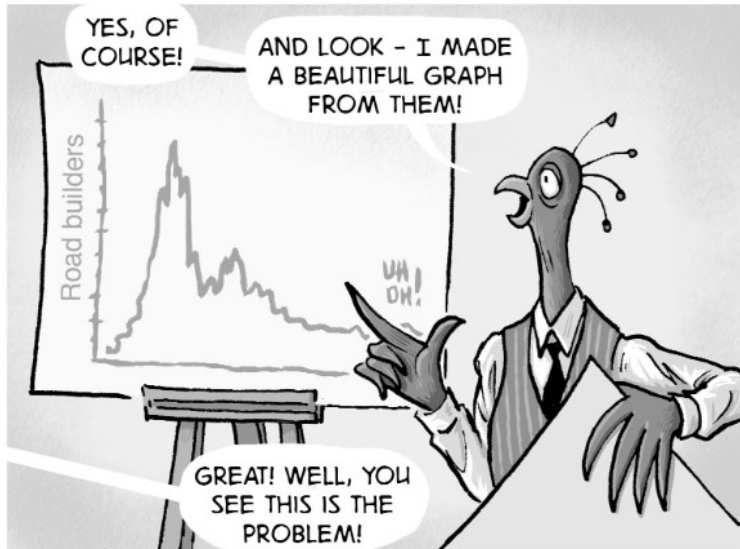
Intersection of community & business

Collabora's mascot:

- Emphasis on hard work & contribution:

The Open Road to Freedom - a comic ...

<https://www.collaboraonline.com/torf>



Conclusions & Questions

Sustaining FLOSS is hard

- amazing developers out there
- outstanding software projects
- getting it funded is **by far** the hardest task – hug your local FLOSS customer

Caveats → my numbers are rough

- Lots of data-cleaning skipped ...

Thank you to all who help fund & sustain FLOSS ...

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

