



LibreOffice 10th Anniversary

the untold story of a global FOSS community

Italo Vignoli



10 Years / 20 Years

July 19, 2000: Sun announces OpenOffice.org

Sept 28, 2010: OpenOffice.org community announces LibreOffice



LibreOffice
The Document Foundation



Timeline

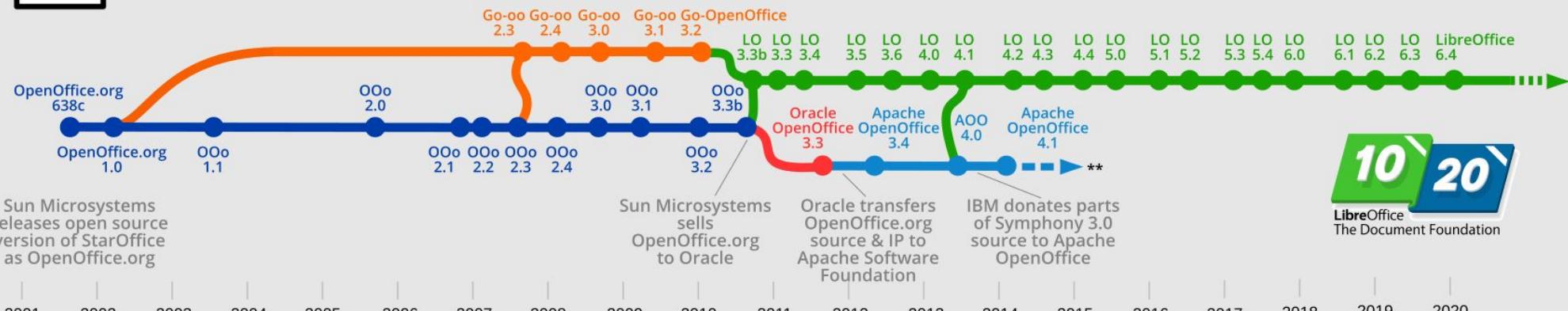
Timeline of Major Releases



Ximian sponsors ooo-build, a collection of community patches for OpenOffice.org

Novell sponsors Go-OpenOffice which releases builds of OpenOffice.org w/ ooo-build enhancements

The Document Foundation forms. Go-OpenOffice and OpenOffice.org source merged to create LibreOffice



35 years since Marco Börries releases the first version of StarWriter in 1985



SEPTEMBER 28, 2010

**OpenOffice.org Community announces
The Document Foundation**

The community of volunteers developing and promoting OpenOffice.org sets up an independent Foundation to drive the further growth of the project

The brand "LibreOffice" has been chosen for the software going forward



Relaunch the Innovation

Visual Representation of the Fork



*the community takes control
to relaunch the innovation and
develop a self sustaining project
backed by a solid ecosystem*

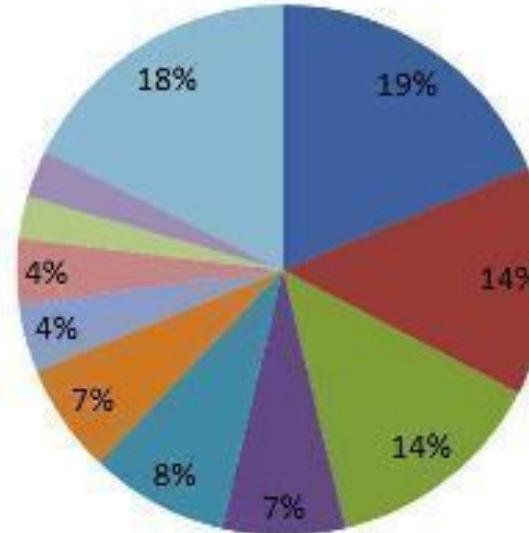
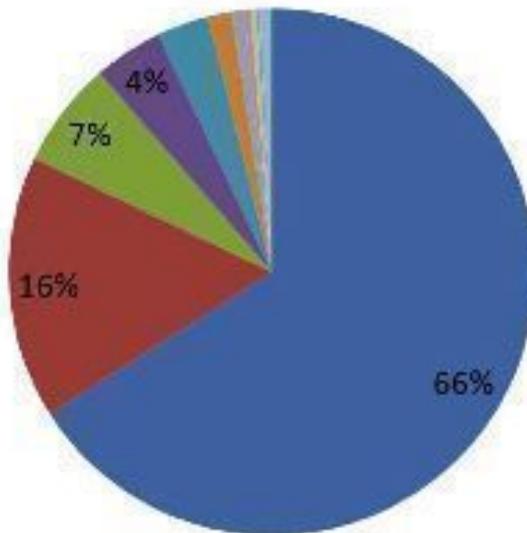
OpenOffice

*risk of abandon
by Oracle after 10
years of continuous
growth backed by
Sun and community*

LibreOffice

today

*The total affiliation commit influence for LibreOffice
10 months before (left) & after the fork on 28 Sept. 2010*



■ openoffice ■ sun
■ oracle ■ suse
■ debian ■ redhat
■ fsf ■ other

■ novell ■ bluewin
■ gmail ■ arnhold
■ openoffice ■ novell
■ suse ■ gmail
■ redhat ■ frugalware
■ oracle ■ cox
■ arnhold ■ other

Roadmap to the Future ...

- Time based, six-monthly release train ...
 - Synchronised with the Linux distributions cadence
 - i.e. a normal Free Software project
 - Rapid fire, (monthly) bug-fix release on stable branch



The Document Foundation

The Document Foundation

Welcome Foundation Develop Contribute Certification Supporters Contact

Welcome

- It is an independent self-governing meritocratic entity, created by former leading members of the OpenOffice.org Community, in the form of a charitable Foundation under German law (gemeinnützige rechtsfähige Stiftung des bürgerlichen Rechts).
- It continues to build on the foundation of ten years' dedicated work by the OpenOffice.org Community.
- It was created in the belief that the culture born of an independent Foundation brings out the best in contributors and will deliver the best software for users.
- It is open to any individual who agrees with our core values and contributes to our activities.
- It welcomes corporate participation, e.g. by sponsoring individuals to work as equals alongside other contributors in the community.

The Document Foundation is proud to be the home of LibreOffice, the next evolution of the world's leading free office suite.

The home of LibreOffice

Download LibreOffice

Understand the reasons for The Document Foundation

Get involved by subscribing, showing support or donating

Get press material or contact spokes people

Read what supporters of The Document Foundation say

The Document Foundation

Founding Principles

COPYLEFT LICENSE

NO CONTRIBUTOR AGREEMENT

MERITOCRACY

COMMUNITY GOVERNANCE

VENDOR INDEPENDENCE



LibreOffice Main Asset



Incredible Easy Hacks

The screenshot shows a Wikipedia-style page titled "LibreOffice Easy Hacks". The page content is organized into sections: "Preamble", "Completed easy hacks", "Looking for Easy Hacks", and "Easy Hacks". The "Easy Hacks" section lists 12 numbered items, each with a brief description. The sidebar on the left contains links to "Wiki", "Home", "Events", "Documentation", "Development", "Marketing", "Website", and "QA". The top navigation bar includes links for "Page", "Discussion", "Read", "View source", "View history", and a search bar.

The Document Foundation Wiki

Log in / create account

Page Discussion Read View source View history

Wiki

Home Events Documentation Development Marketing Website QA

Like to support us? [Donate now via PayPal or Flattr!](#)

LibreOffice Easy Hacks < Development

EN AR AST BE BG BN CA CA-VAL CS DA DE EL EO ES FI FR GD GL HE HI HU IS IT JA LO-LA LT NL NO PA PT PT-BR RO RU SK SL SV TE TH TR UK VI ZH-TW ZH-HANS

Contents [hide]

1 Preamble

- 1.1 Getting a build - if necessary
- 1.2 Completed easy hacks

2 Looking for Easy Hacks

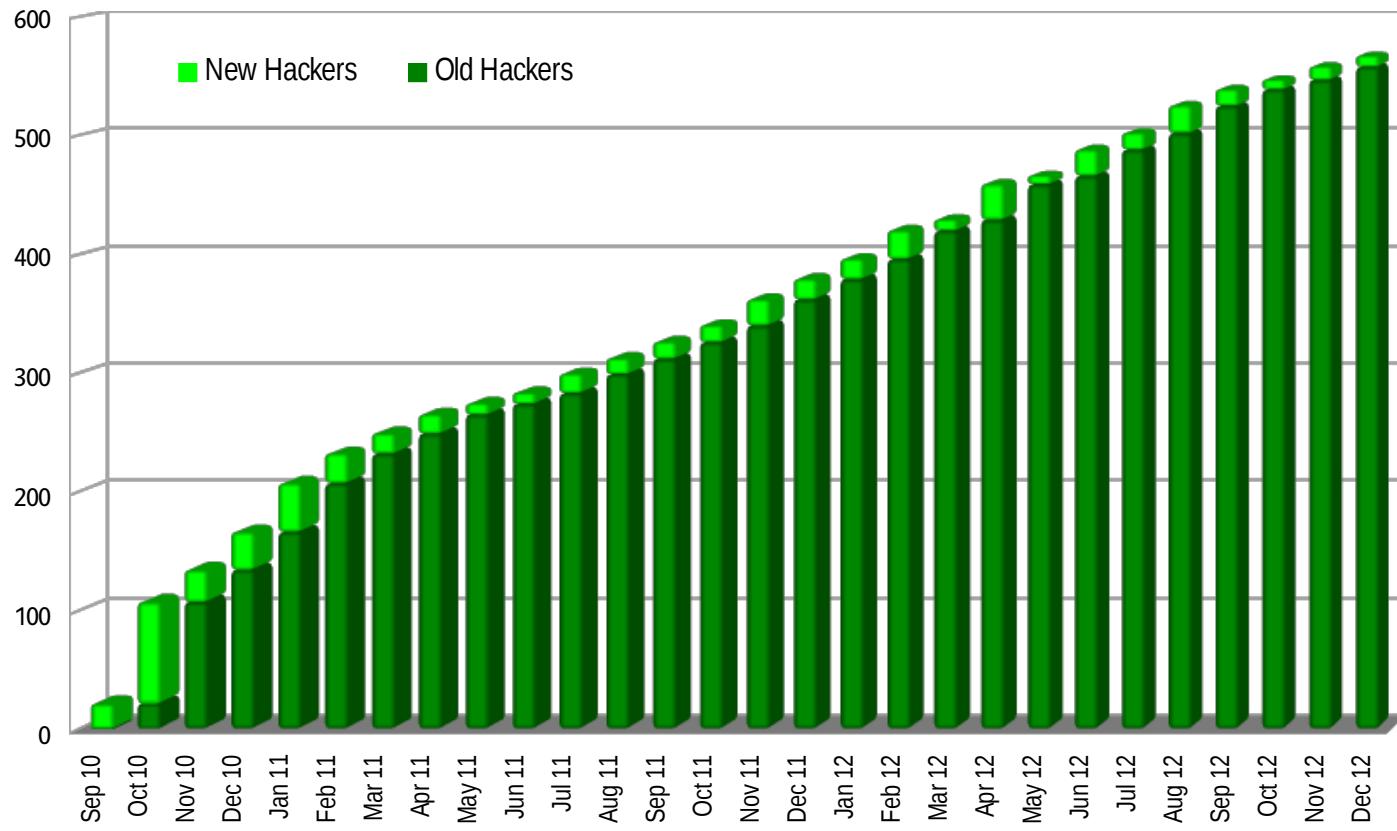
3 Easy Hacks

- 3.1 translate German comments, removing redundant ones
- 3.2 remove all the bogus comments lying around
 - 3.2.1 Progress
- 3.3 remove non-compiled / dead code
- 3.4 find / fix all German spellings in internal APIs
- 3.5 Remove obsolete product pieces
- 3.6 hunt and destroy obsolete macros
- 3.7 Improve build with/without symbols
- 3.8 Add README files to top-level module directories
- 3.9 Clean up document type association on Linux
- 3.10 expunge duplicate enumerations in vcl
- 3.11 Simplify the download of Windows dependencies
- 3.12 Fix duplicate longname IDs

Huge Mentoring Effort

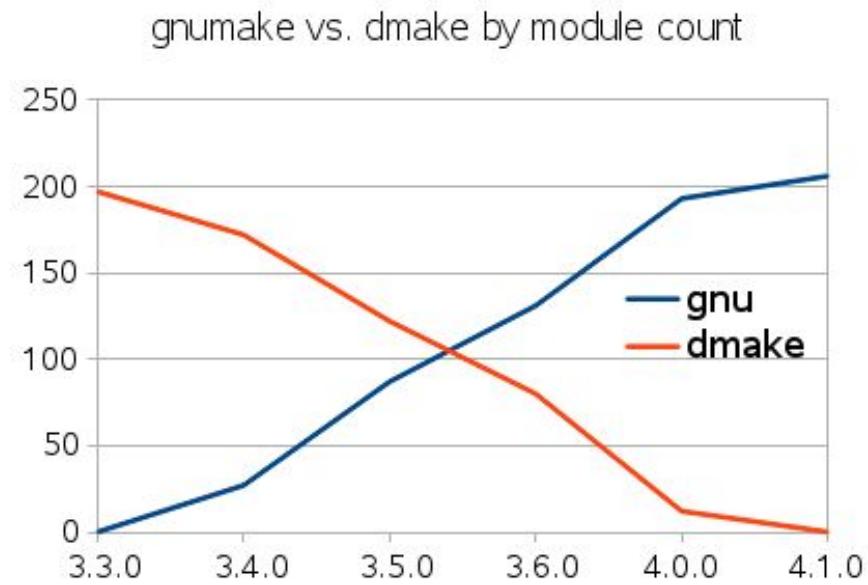


Cumulative Number of LibreOffice New Code Committers



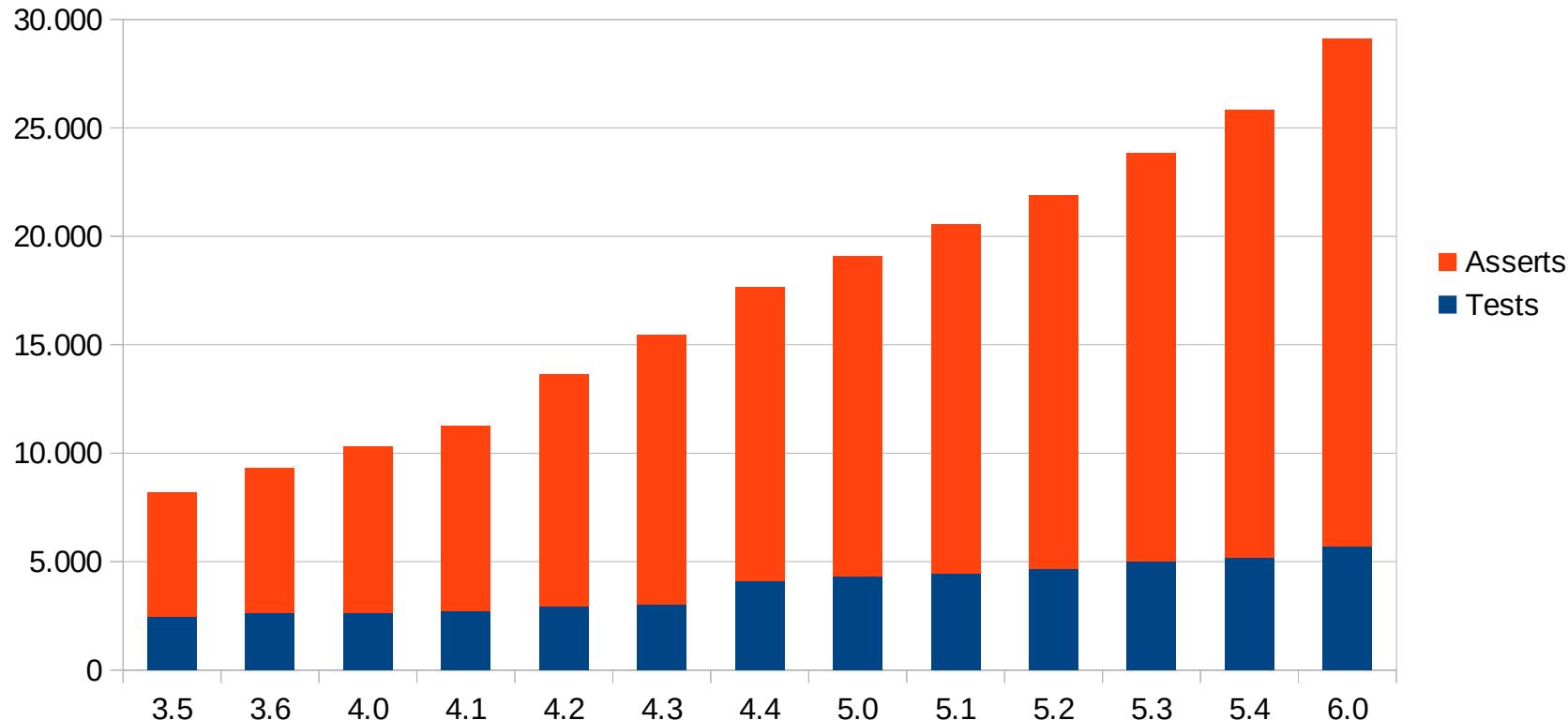
GNUmake: 1 make to build ~10k wide

- Completed re-write of legacy perl + dmake build system ...
- Carl Fogel: "LibreOffice is now ridiculously easy to build"

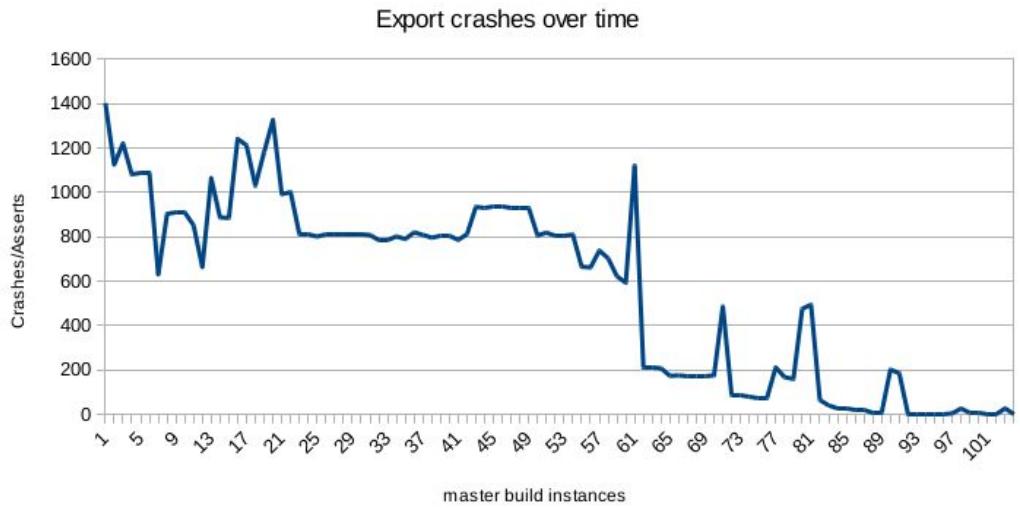
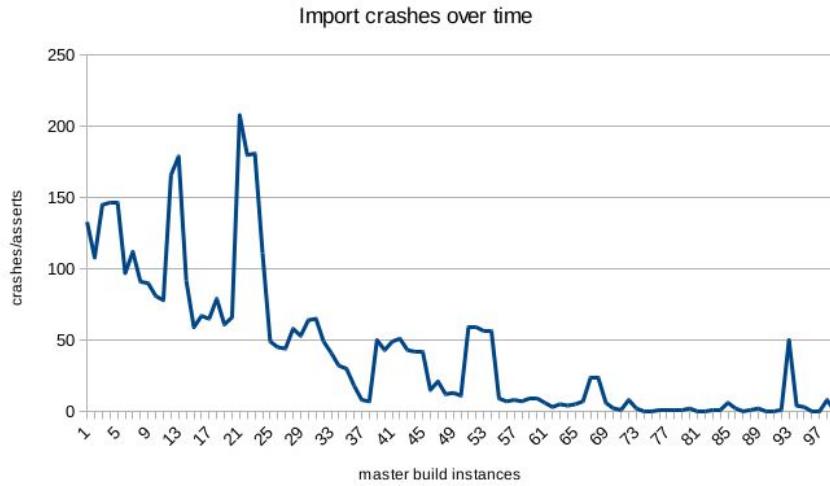


Growth in unit tests over time

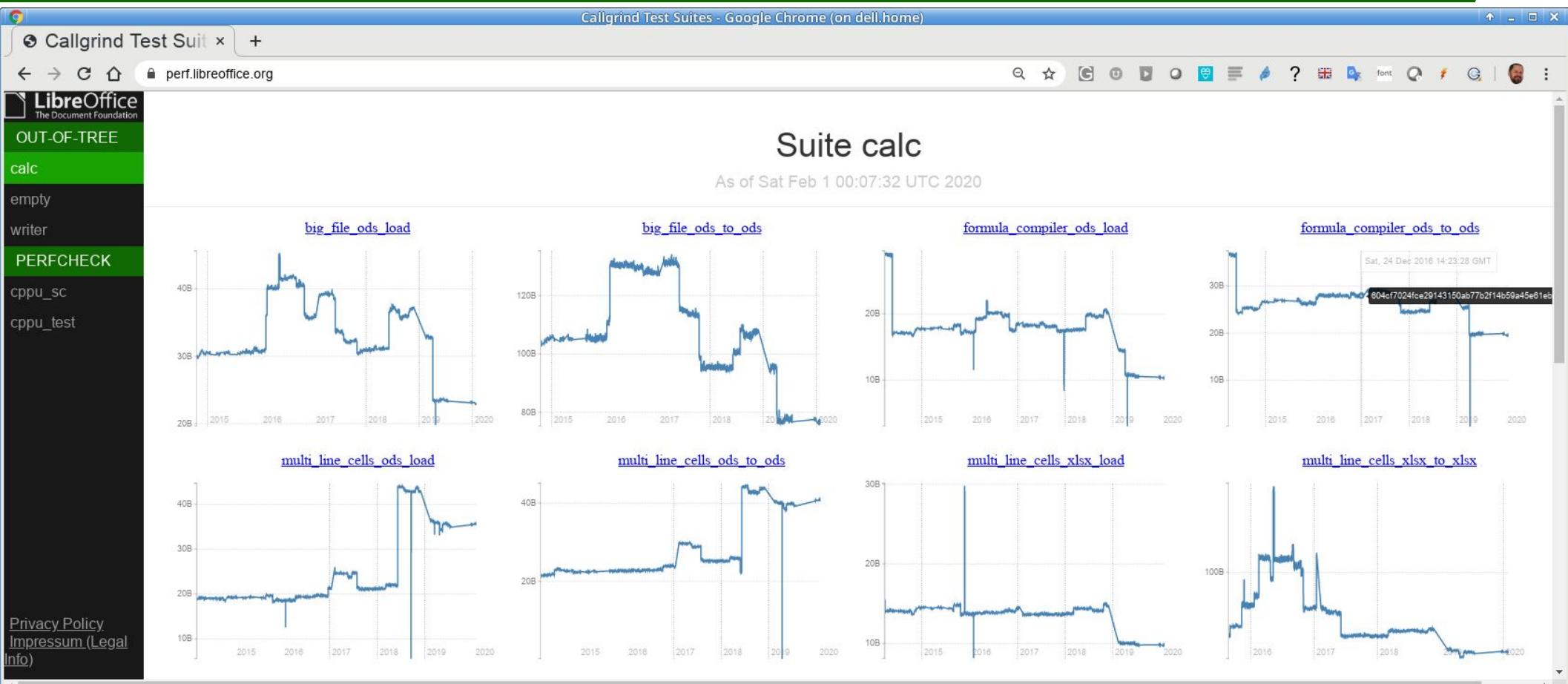
count of various CPPUNIT macros



Systematic Load Crash Testing

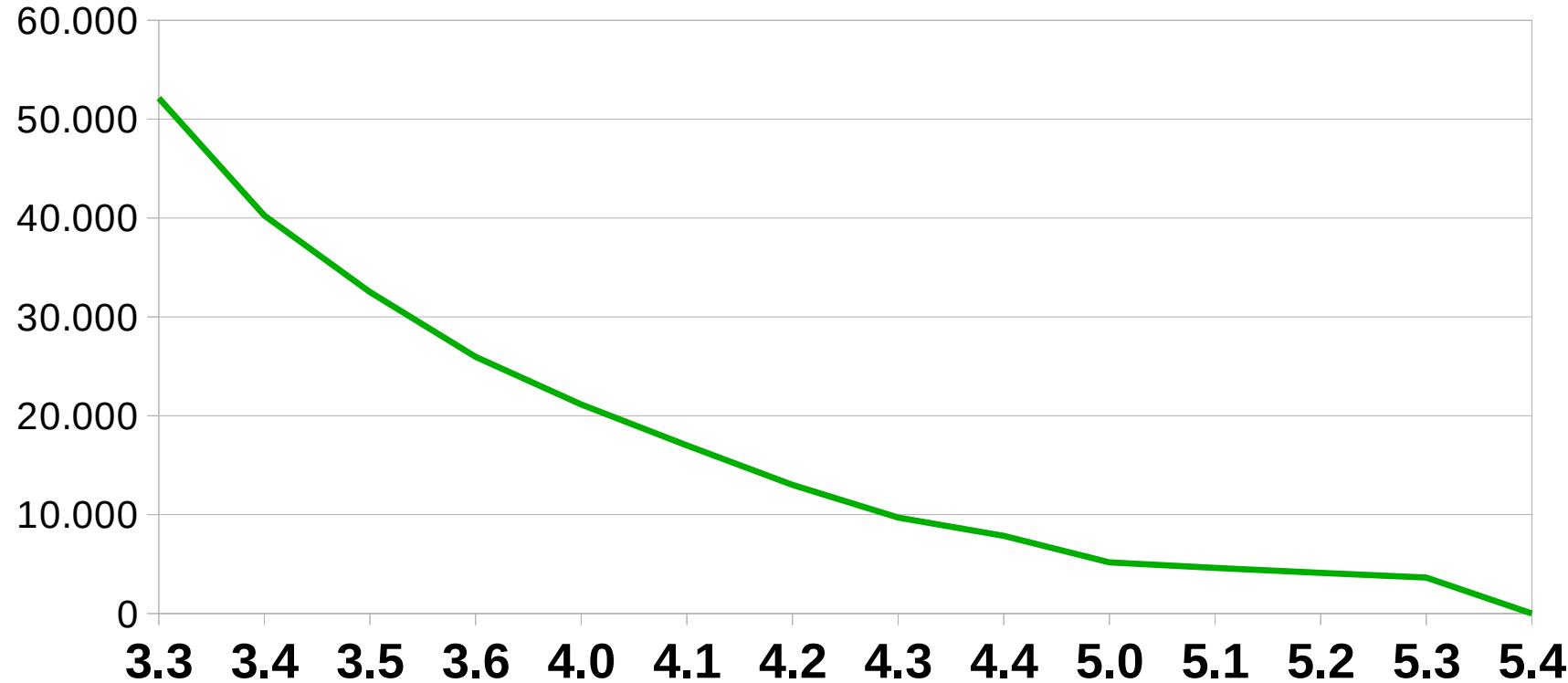


Callgrind Based Automated Testing



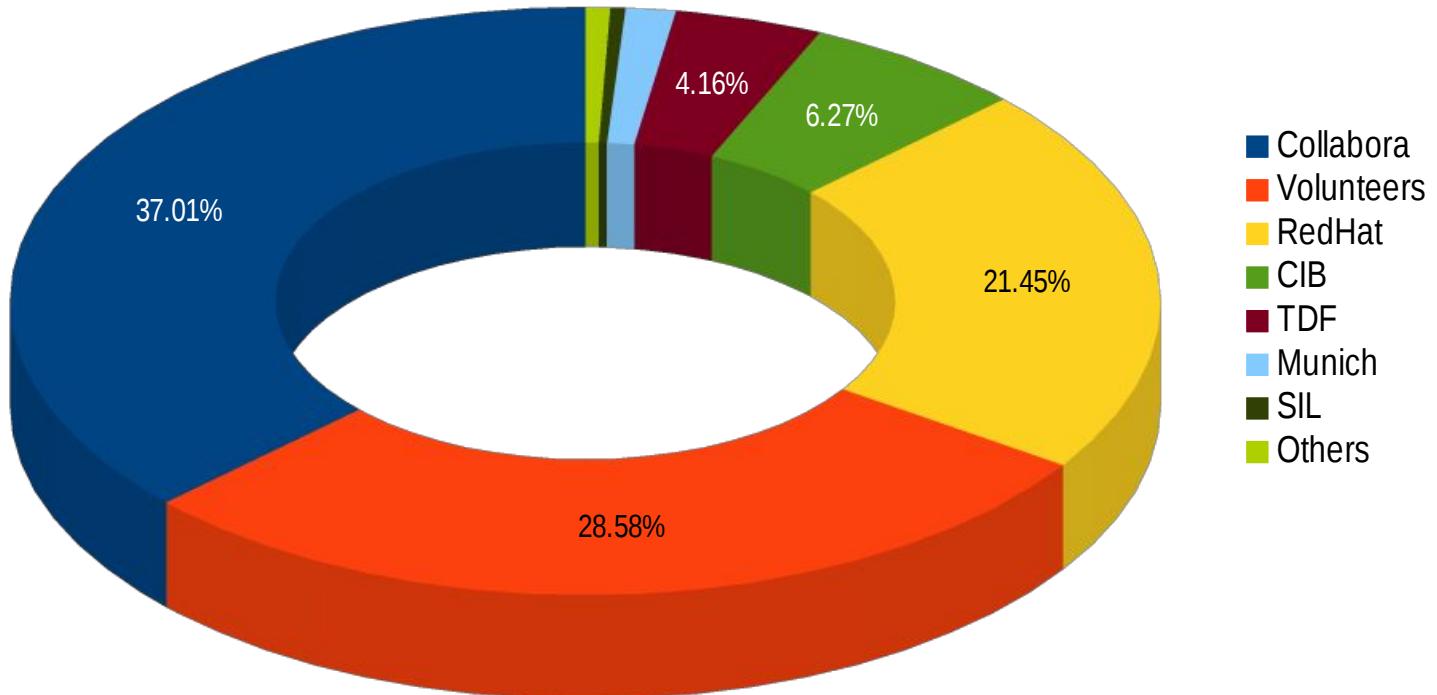
German Comment Translation

Detected lines of German comment



Git Commits by Organization

LibreOffice Git Commits (Last Two Years)



Coverity Scan Score 2020

Sep 12, 2020

Last Analyzed

6,133,797

Lines of Code Analyzed

0.00

Defect Density

Defect changes since previous build dated Sep 09, 2020

1

Newly detected

2

Eliminated

Defects by status for current build

25,968

Total defects

1

Outstanding

328

Dismissed

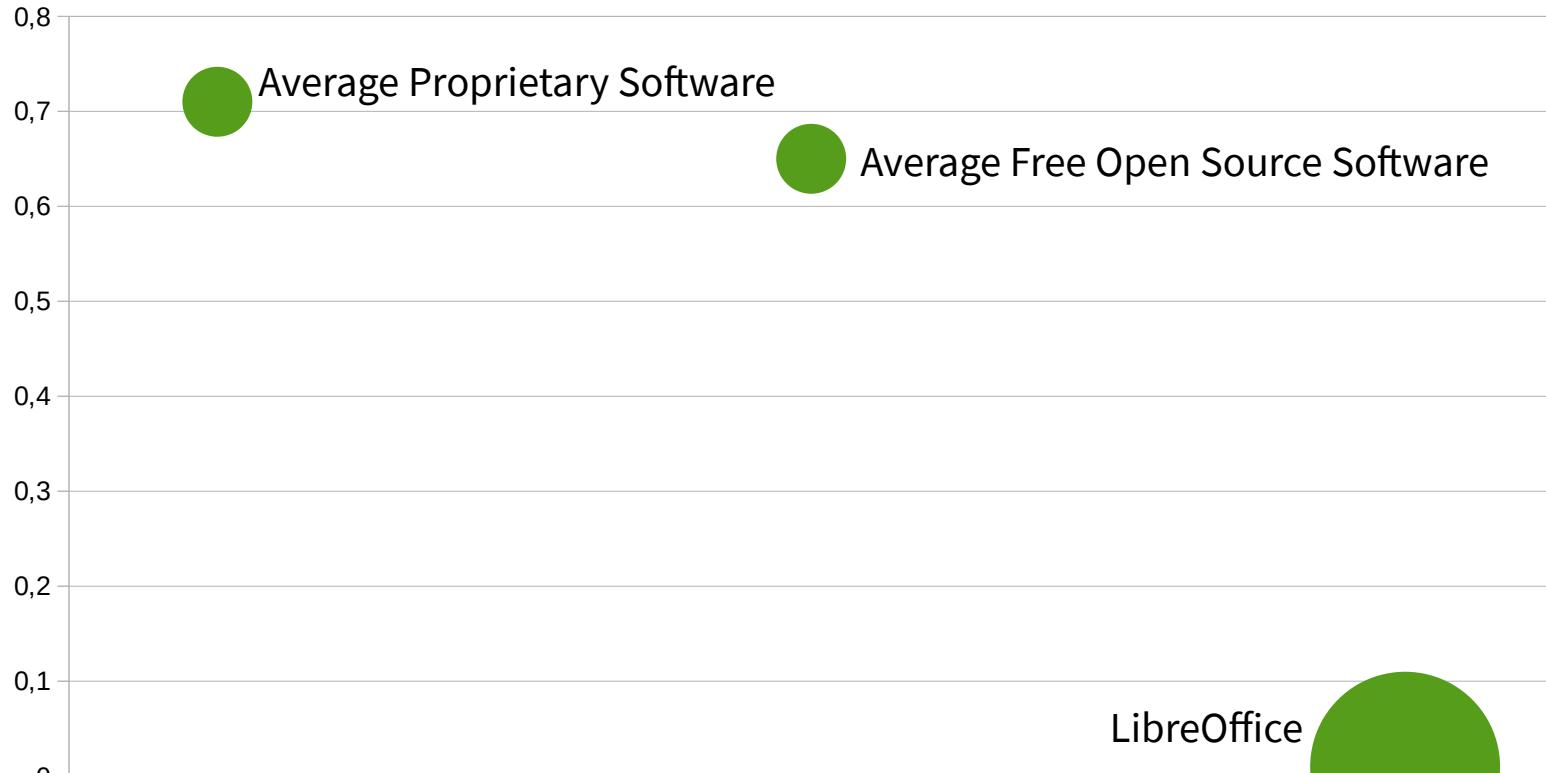
25,639

Fixed

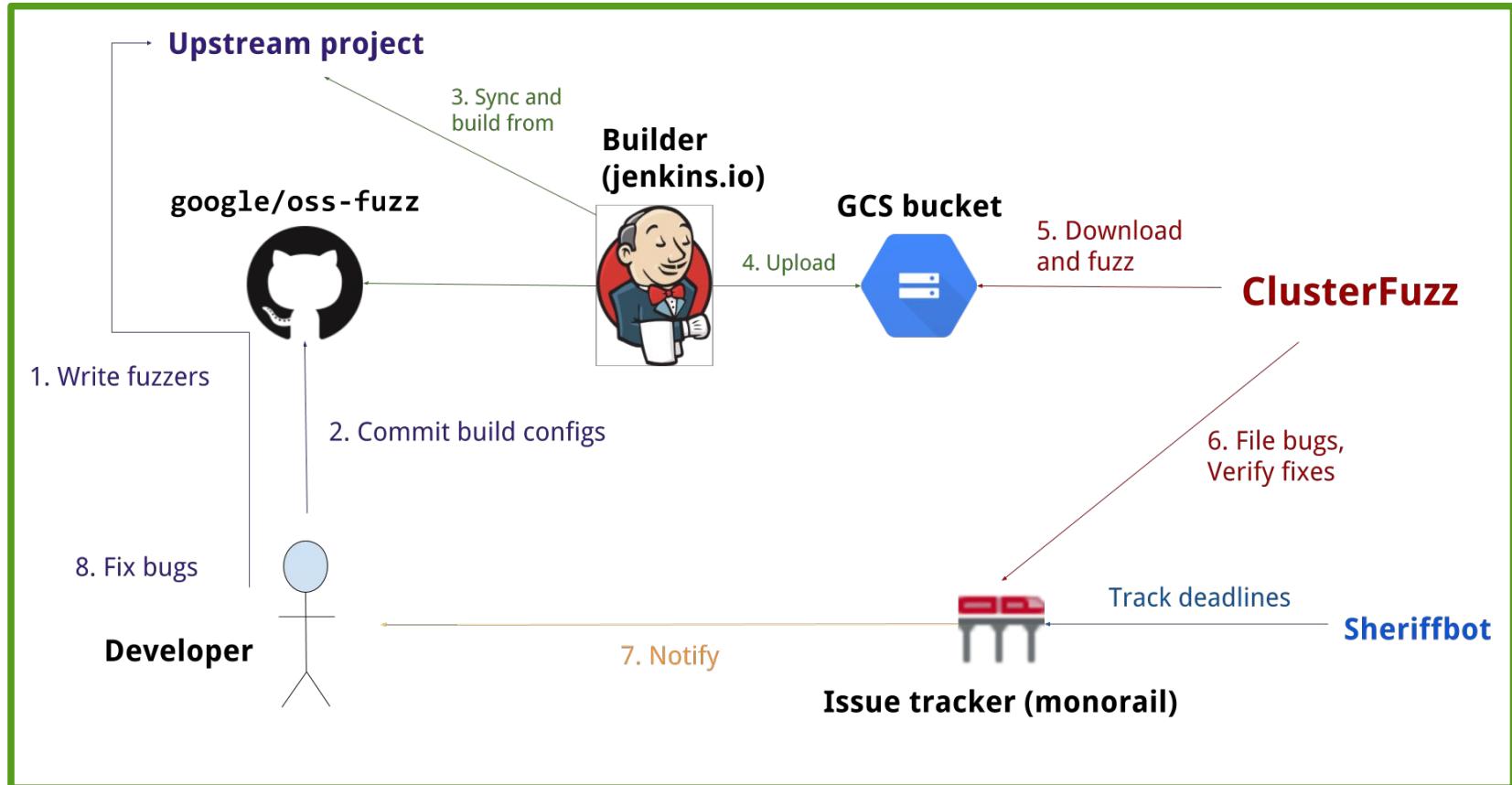


Issues x 1000 Lines of Source Code

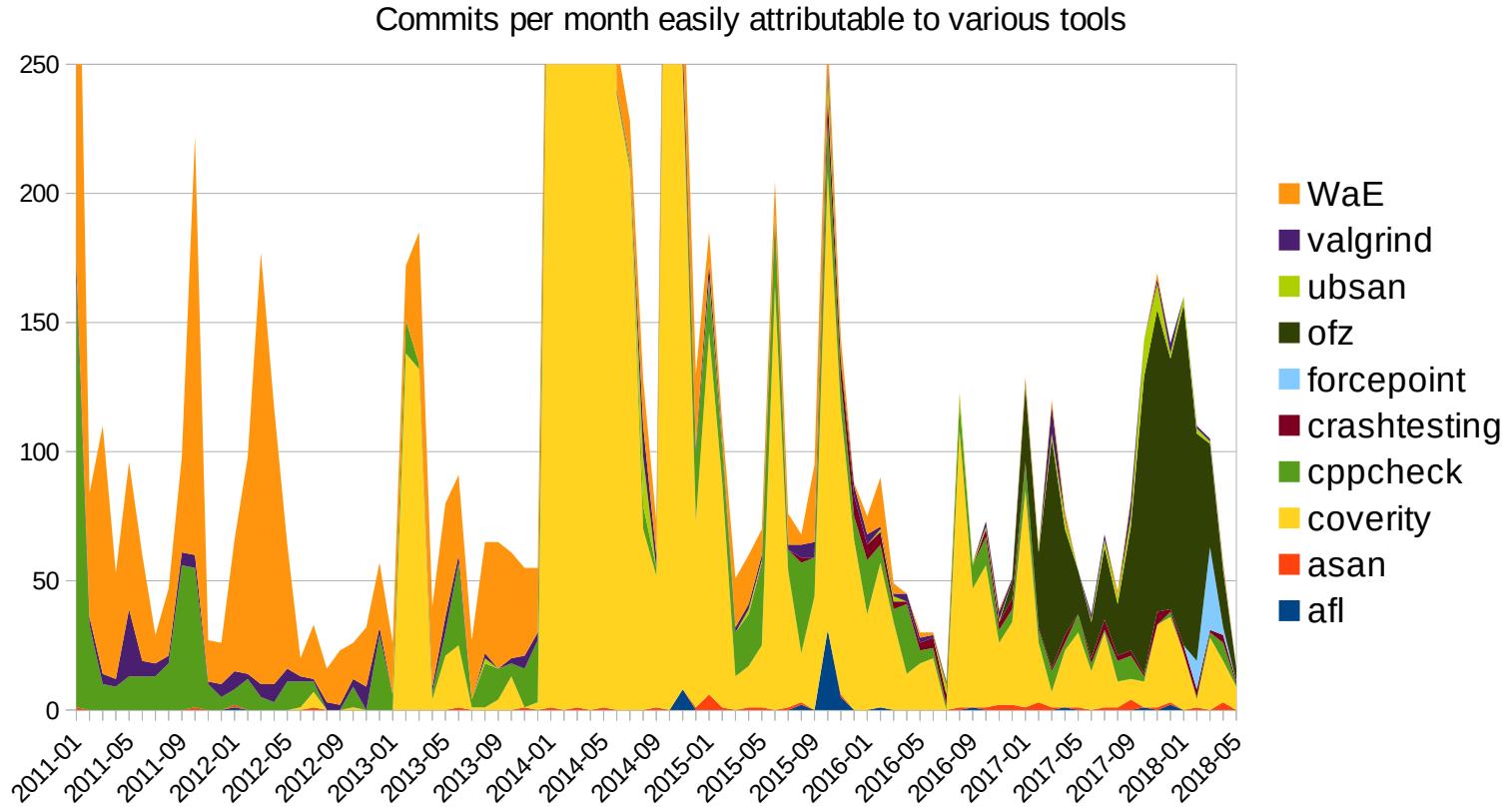
Source Code Scan by Coverity Scan (since 2015)



Google's OSS-Fuzz



Commits Based on Fuzzing



Achievements

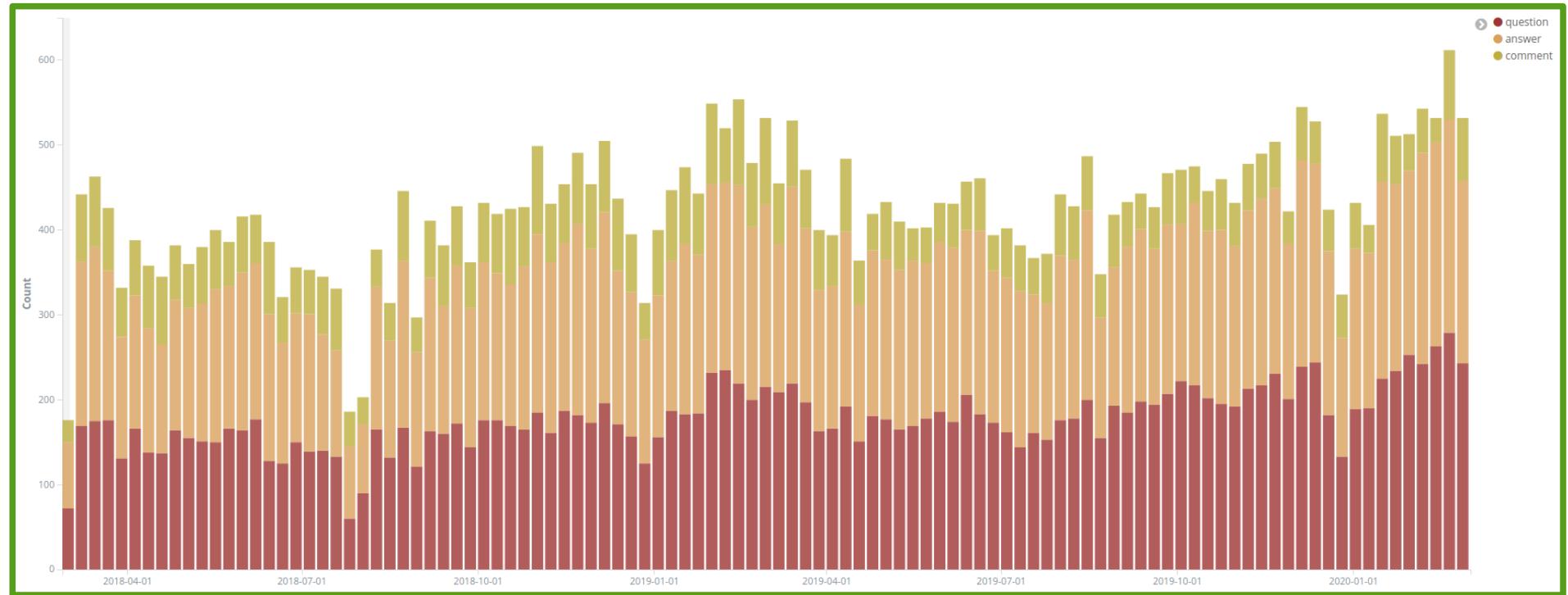
- Reduced footprint of the software
- Undertaken long awaited code renovation
- Removed tens of thousands lines of dead code
- Removed deprecated libraries
- Translated majority of German comments to English
- Many other code renovation actions
- Modernization/improvement of the user interface
- **ALL:** paying down substantial technical debt





COMMUNITY

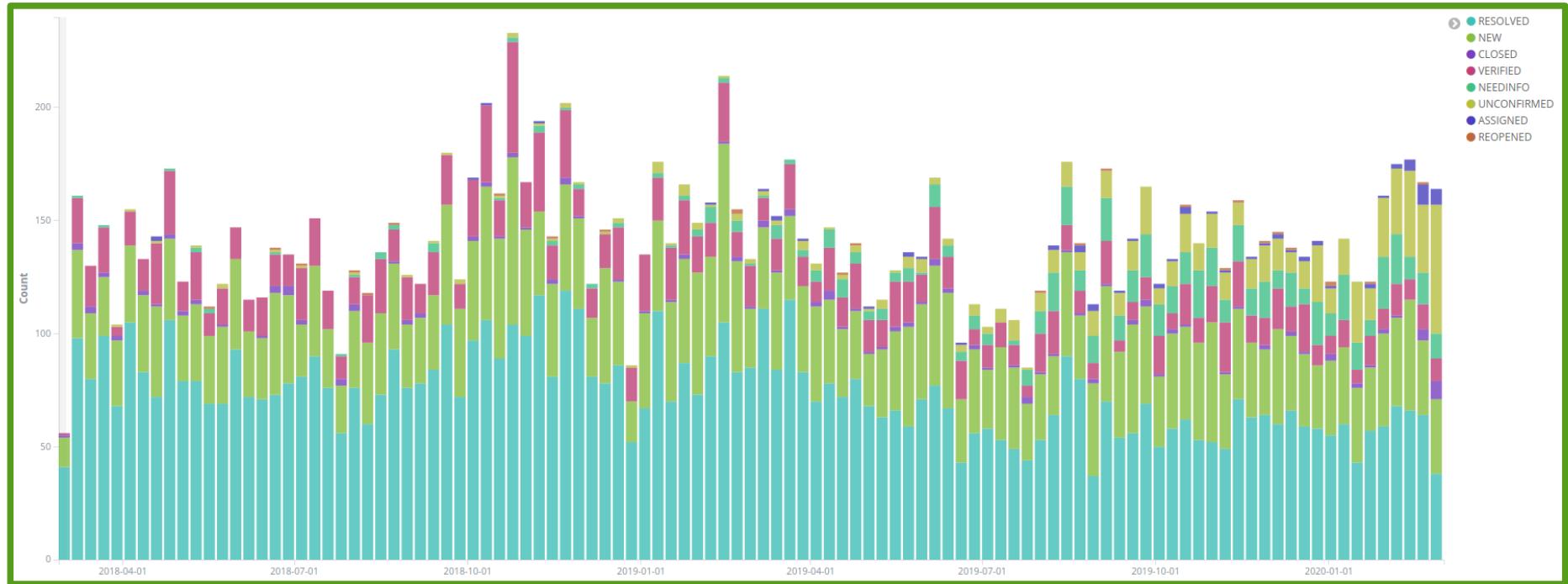
Ask Q&A and Comments



March 2018 – February 2020



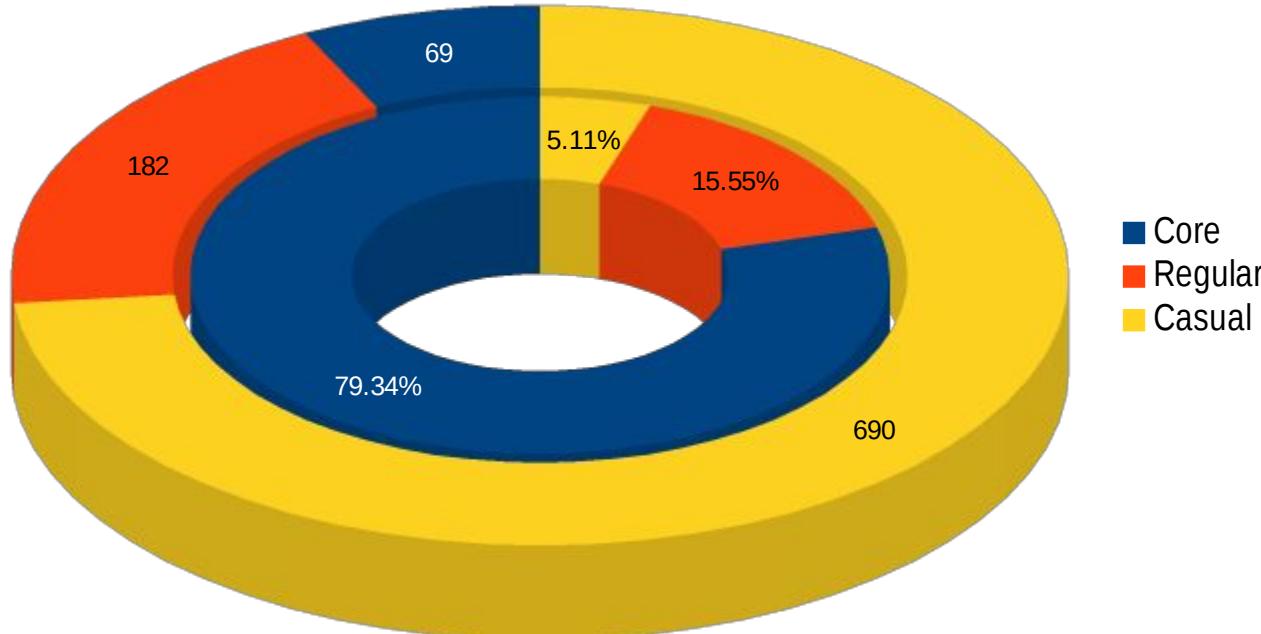
Bugzilla Issues by Status



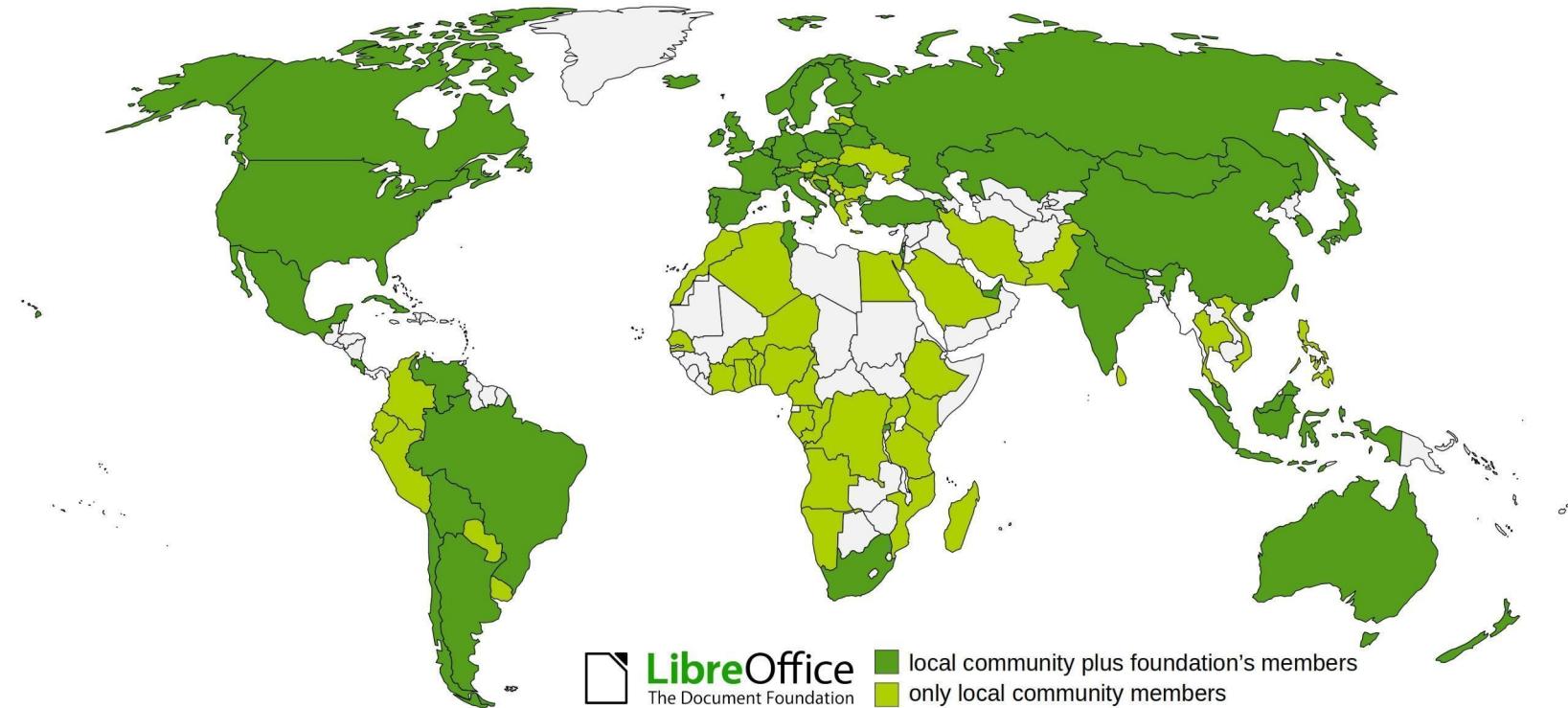
March 2018 – February 2020

Community by Numbers

Community by Numbers
People Outside - Contributions Inside



LibreOffice Community



PUBLIC DOMAIN



LibreOffice
The Document Foundation

local community plus foundation's members
only local community members

Native-Language Communities

- **Localization teams are growing** (Weblate stats)
 - 145 active languages
 - ~119 shipping languages
 - **4605 users**
 - 404532 translations made
- **Thanks to so many for their hard work translating !**



LibOCon Paris 2011



LibOCon Berlin 2012



LibOCon Milan 2013



LibOCon Bern 2014



LibOCon Aarhus 2015



LibOCon Brno 2016



LibOCon Rome 2017



LibOCon Tirana 2018



LibOCon Almería 2019



LibreOffice User Base Estimate

In term of number of users worldwide, we provide the following estimate based on a global number of PC users between 2 and 3 billion (88% Windows, 9% macOS, 3% Linux):

- 100% of desktop Linux users (between 60 and 90 million)
- 10% of desktop Windows users (between 176 and 264 million)
- 10% of desktop macOS users (between 18 and 27 million)

So, we pick the lower figure of 254 million users worldwide, and we further reduce it by 20% to 200 million users worldwide to account for some duplications.



LibreOffice Versions

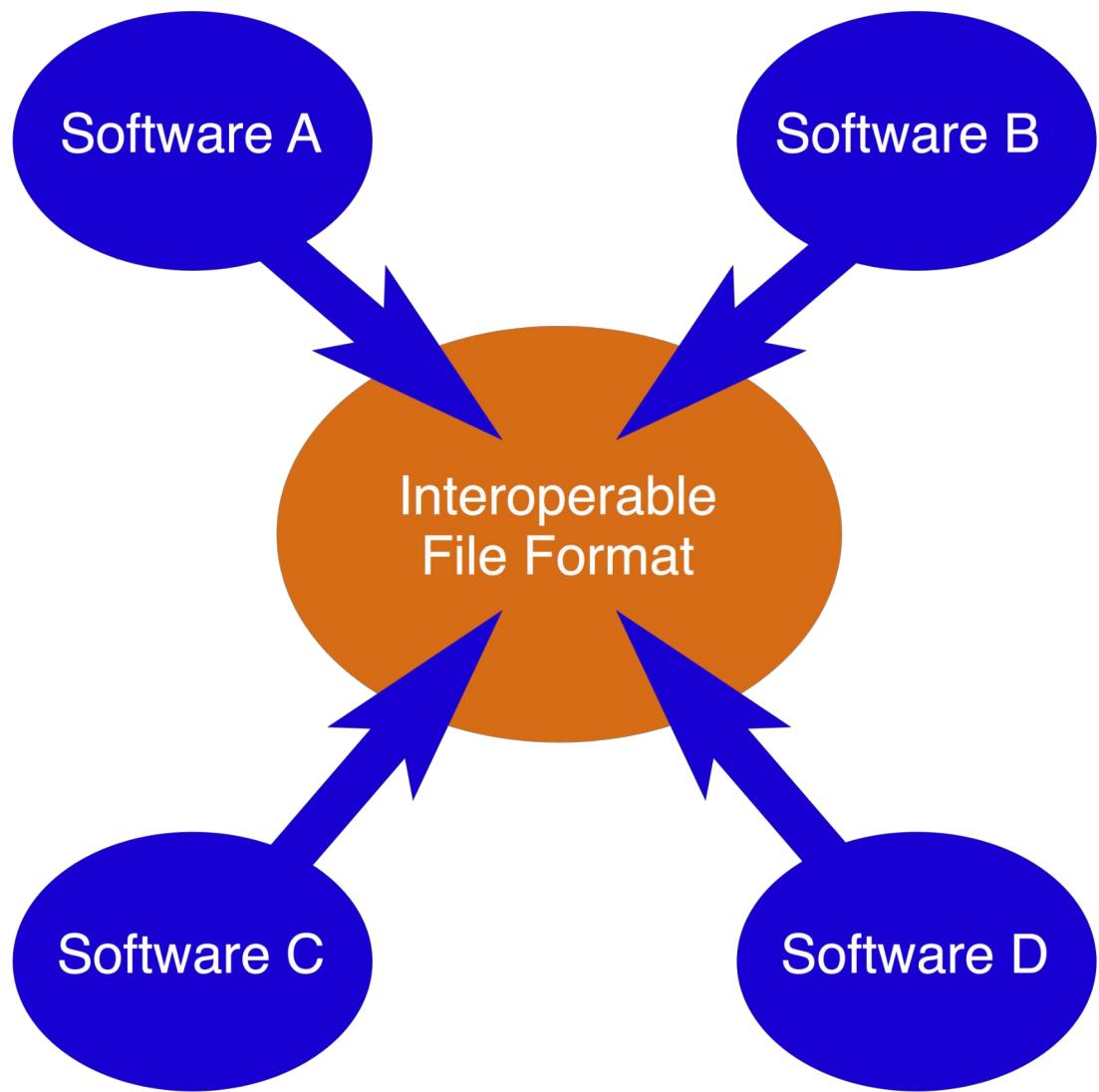
- Desktop (TDF)
- LTS (Collabora & CIB)
- Online (TDF, Collabora & CIB)
- Android (Collabora)
- iOS & Apple Store (Collabora)
- Windows Store (CIB)





Open Document Format

the true document standard
which offers freedom of choice



Document Formats

- **Pseudo standard for document formats**
 - Microsoft Office document format (OOXML)
 - DOC, DOCX, XLS, XLSX, PPT, PPTX
- **True standard for document formats**
 - Open Document Format, native document format of LibreOffice and many other software (including Microsoft Office)
 - ODT (text), ODS (spreadsheet), ODP (presentation)



LibreOffice as Shakespeare

2017 to 2020

<text:p text:style-name="P1">To be, or not to be,
that is the question</text:p>



MS Office as Shakespeare (2017)

<w:t>To be</w:t>

<w:t>, </w:t>

<w:t xml:space="preserve"> or not to be</w:t>

<w:t>, </w:t>

<w:t xml:space="preserve"> that </w:t>

<w:t>is the question</w:t>



MS Office as Shakespeare (2018)

<w:t>To be</w:t>

<w:t>, or</w:t>

<w:t xml:space="preserve"> not to be</w:t>

<w:t>,</w:t>

<w:t xml:space="preserve"> that is the</w:t>

<w:t xml:space="preserve"> question</w:t>



MS Office as Shakespeare (2019)

<w:t>To be</w:t>

<w:t>, </w:t>

<w:t xml:space="preserve"> or not to be, that </w:t>

<w:t>is the question</w:t>



MS Office as Shakespeare (2020)

<w:t xml:space="preserve">To be, or </w:t>

<w:t>not</w:t>

<w:t xml:space="preserve"> to be, </w:t>

<w:t>that</w:t>

<w:t xml:space="preserve"> </w:t>

<w:t>is</w:t>

<w:t xml:space="preserve"> the question.</w:t>



Brain & Computer

Brain
Red



Computer
#FF0000

Brain & Computer

ODF (LibreOffice)

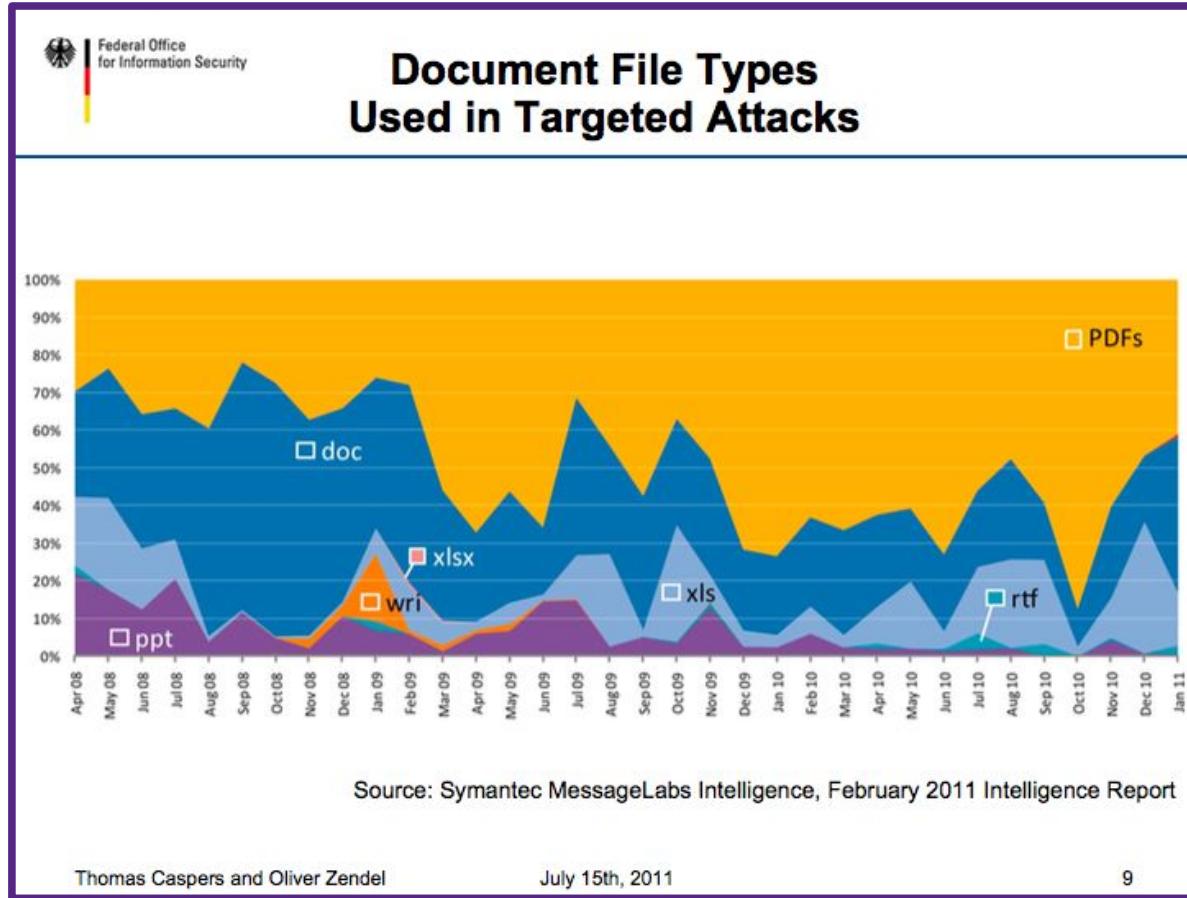
- Writer
fo:color="#FF0000"
- Calc
fo:color="#FF0000"
- Impress
fo:color="#FF0000"

OOXML (MS Office)

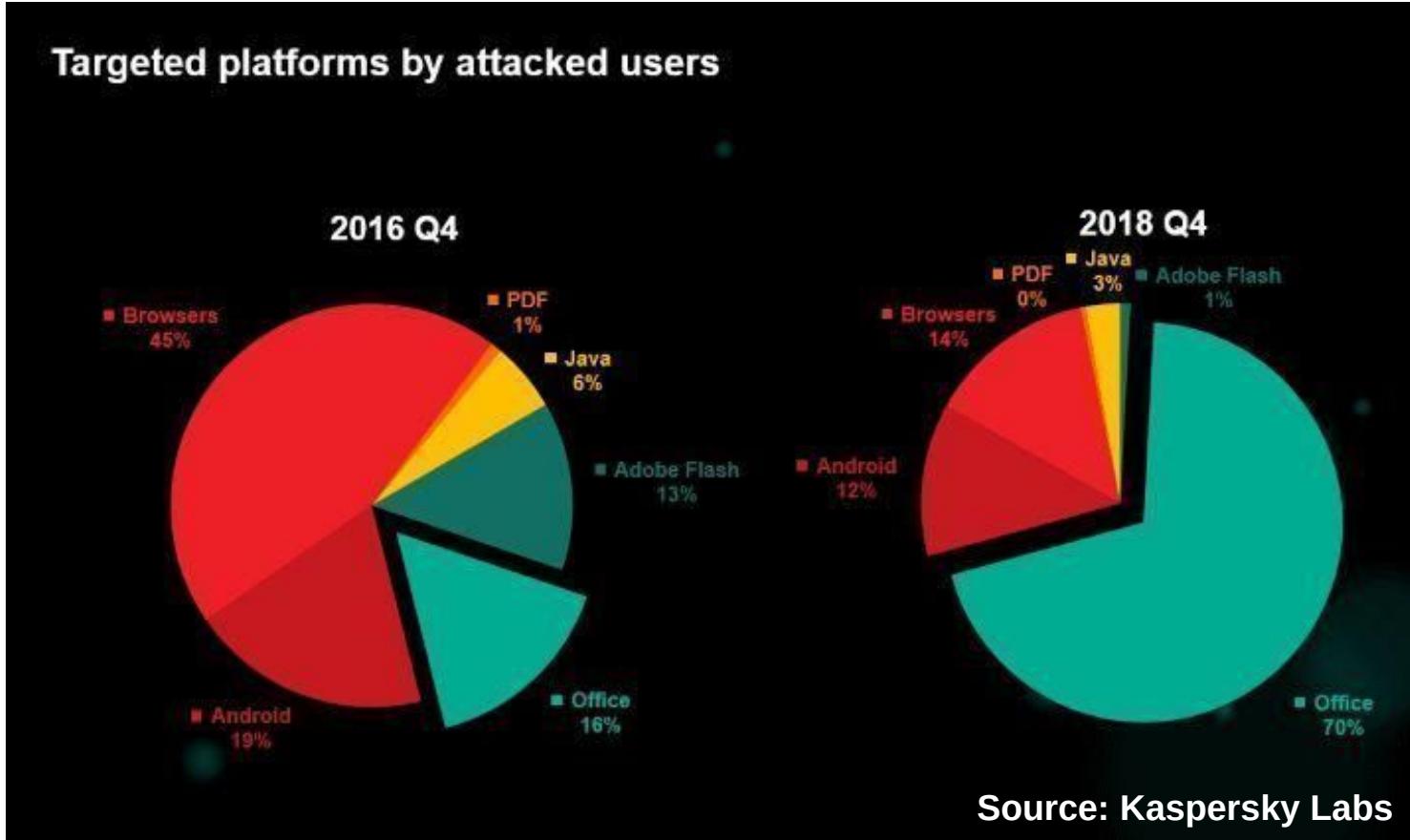
- Word
w:color w:val="FF0000"
- Excel
color rgb="FFFF0000"
- PowerPoint
a:srgbClr val="FF0000"



Document Vulnerabilities in 2011



Document Vulnerabilities in 2018



Thanks

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