LibreOffice
the many different faces of a global community

Italo Vignoli
Countries by Surface
Countries by Population
Export of Software Licenses
Import of Software Licenses
Ten Years of Heritage

OpenOffice.org
OpenOffice History

- 1984: Marco Börries, age 16, releases StarWriter for the Zilog Z80, the Amstrad CPC and the Commodore 64, then ported to the 8086-based Amstrad PC-1512
- Later, the development of other two programs - Base and Draw - turned StarWriter into StarOffice 1.0, for DOS, IBM OS/2 and MS Windows
- StarOffice 3.0 offered StarWriter, StarCalc, StarDraw, StarImage and StarChart
- 1999: Sun Microsystems acquired the company, copyright and trademark of StarOffice
OpenOffice History

- July 19, 2000: Sun releases StarOffice source code with the objective of creating an OSS development community and providing a free and open alternative to MS Office
- May 1st, 2002: OpenOffice.org 1.0 released with dual license GNU LGPL and SISSL (Sun Industry Standard SW License)
- October 20, 2005: OpenOffice 2.0 released with single LGPL license
- October 2008: OpenOffice 3.0 released
OOo Lean in 2000

Build dependencies SO 5.2 (2000)
Community building

- Build environment improvements (Kai Backman from Google, Volker Quetschke and Novell involved)
- Reduction of Code Complexity
- Mentoring in the Google Summer of Code
- Further improvement of patch handling
- More transparency
  > Updating current project sites
  > Wiki
  > Group blog
- Online trainings, hands-ons for different skill levels
- Mentoring newbies

THIS WILL BE ACHIEVED BY LIBREOFFICE
2009: Oracle acquires Sun

Oracle Buys Sun

Redwood Shores, CA - April 20, 2009

Oracle Corporation (NASDAQ: ORCL) and Sun Microsystems (NASDAQ: JAVA) announced today they have entered into a definitive agreement under which Oracle will acquire Sun common stock for $9.50 per share in cash. The transaction is valued at approximately $7.4 billion, or $5.6 billion net of Sun's cash and debt. "We expect this acquisition to be accretive to Oracle's earnings by at least 15 cents on a non-GAAP basis in the first full year after closing. We estimate that the acquired business will contribute over $1.5 billion to Oracle's non-GAAP operating profit in the first year, increasing to over $2 billion in the second year. This would make the Sun acquisition more profitable in per share contribution in the first year than we had planned for the acquisitions of BEA, PeopleSoft and Siebel combined," said Oracle President Safra Catz.

"The acquisition of Sun transforms the IT industry, combining best-in-class enterprise software and mission-critical computing systems," said Oracle CEO Larry Ellison. "Oracle will be the only company that can engineer an integrated system – applications to disk – where all the pieces fit and work together so customers do not have to do it themselves. Our customers benefit as their systems integration costs go down while system performance, reliability and security go up."

There are substantial long-term strategic customer advantages to Oracle owning two key Sun software assets: Java and Solaris. Java is one of the computer industry's best-known brands and most widely deployed technologies, and it is the most important software Oracle has ever acquired. Oracle Fusion Middleware, Oracle's fastest growing business, is built on top of Sun's Java language and software. Oracle can now ensure continued innovation and investment in Java technology for the benefit of customers and the Java community.

The Sun Solaris operating system is the leading platform for the Oracle database, Oracle's largest business, and has been for a long time. With the acquisition of Sun, Oracle can optimize the Oracle database for some of the unique, high-end features of Solaris. Oracle is as committed as ever to Linux and other open platforms and will continue to support and enhance our strong industry partnerships."
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

 LibreOffice

today

OpenOffice

risk of abandon by Oracle after 10 years of continuous growth backed by Sun and community
The First Supper

Budapest, Sep 2, 2010
September 28, 2010

IS THIS A DUD?

OF COURSE NOT!!!!

IT'S A FORK

THE SMALL GEEK DICTIONARY - PART 1
A FORK
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
LibreOffice 2020

THE JOURNEY HAS JUST BEGUN
OpenOffice Forks

Fonte: Jonas Gamalielsson and Bjoern Lundell - Sustainability of Open Source Software Communities Beyond a Fork: how and why has the LibreOffice project evolved?
Reverting the Paradigm

Umbrella Culture

Mixing Bowl Culture

© David // Armano  darmano.typepad.com
The Document Foundation

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 Document Foundation

Founding Principles

COPYLEFT LICENSE
NO CONTRIBUTOR AGREEMENT
MERITOCRACY
COMMUNITY GOVERNANCE
VENDOR INDEPENDENCE
The Document Foundation was born to promote free software, to promote SW user freedom, to promote document freedom, to promote open standards, and to develop LibreOffice.
The Document Foundation
TDIF IS BASED ON THE PRINCIPLE OF MERITOCRACY

<table>
<thead>
<tr>
<th>Board of Directors</th>
<th>Advisory Board</th>
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<tbody>
<tr>
<td><strong>Foundation’s legal representation</strong></td>
<td>16 entities (as of now)</td>
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<tr>
<td>7 members + 3 deputies</td>
<td>NOT a formal body</td>
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<tr>
<td>2 years term</td>
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<td>Members from around the globe, e.g. Czech Republic, Germany, Italy, UK, USA</td>
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<td>Maximum 10% of members</td>
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LibreOffice Main Asset
Serial Growth of LibreOffice Developers

New Developers
Old Developers
LibreOffice Code Contributors

Occasional
(200 volunteers)

- Code Cleaning
- Easy Hacks
- Patches

Regular
(90 volunteers)

- Easy Hacks
- Patches
- Features

Core
(40 paid/unpaid)

- Patches
- Features
- Packaging
Git Commits in 2019 YTD

Source: TDF Dashboard
Contributions by Orgs 2019 YTD
Source: TDF Dashboard
Development Cycles

LibreOffice 3.x → LibreOffice 4.x → LibreOffice 5.x → LibreOffice 6.x

- Code Cleaning
- User Interface
- Code Refactoring
- Ubiquitous Productivity
Coverity Scan

DEFECTS WE FIND INCLUDE

Crashes
Security Vulnerabilities
Concurrency
Memory Corruption
Uninitialized memory
Error handling
Resource leaks
Google’s OSS-Fuzz

1. Write fuzzers
2. Commit build configs
3. Sync and build from
4. Upload
5. Download and fuzz
6. File bugs, Verify fixes
7. Notify
8. Fix bugs

Upstream project

google/oss-fuzz

Builder (jenkins.io)

GCS bucket

ClusterFuzz

Issue tracker (monorail)

Developer

Sheriffbot

Track deadlines
LibreOffice
Open Source Software

78% OF COMPANIES RUN ON OPEN SOURCE

LESS THAN 3%
DON’T USE OSS IN ANY WAY
LibreOffice Position

MOST VALUABLE OPEN SOURCE PROJECT?
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 (90% Windows, 8% macOS, 2% Linux):

- 100% of desktop Linux users (between 40 and 60 million)
- 10% of desktop Windows users (between 180 and 270 million)
- 10% of desktop macOS users (between 16 and 24 million)

So, we pick the lower figure of 236 million users worldwide, and we further reduce it to 200 million users worldwide to account for some duplications.
LibreOffice Fresh vs Still

- The Document Foundation provides two concurrent LibreOffice branches:
  - **LibreOffice Fresh**
    - Targeted to early adopters and power users
  - **LibreOffice Still**
    - Targeted to enterprises and conservative users
  - They are both concurrently maintained to serve different users with best-in-class software
LibreOffice Fresh vs Still

**Target Users and Deployments**

LibreOffice Fresh
- **individual deployment**
- mostly unsupported

LibreOffice Still (LTS option available)
- enterprise deployment
  - based on professional support
  - provided by certified individuals
  - (development, migration, training)

Early Adopters
- **Individuals**

Deployment for Production
- **Professionals, SMBs and Enterprises**
Providers of LTS Versions

CIB

Collabora Productivity
For instance, let’s take the world famous sentence from Hamlet: “To be, or not to be, that is the question”.

LibreOffice would write the underlying XML as:

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

Microsoft Office would write it adding a large number of redundant XML tags, as follows:

```xml
<w:p>
  <w:Pr>
    <w:Fonts w:ascii="Calibri" w:ansi="Calibri"/>
    <w:sz w:val="72"/>
    <w:szCs w:val="72"/>
    <w:lang w:val="en-US"/>
  </w:Pr>
  <w:t>To be, or not to be,</w:t>
</w:p>
```

|   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| A | B | C | D | E | F | G | H | I | J | K | L | M | N | O | P | Q | R | S | T | U | V | W | X | Y | Z | AA | AB |   |
| 1 | 2014 | 9826 | 6836 | 8365 | 5489 | 3287 | 1447 | 5256 | 9823 | 6836 | 8365 | 5489 | 3287 | 1447 | 5256 | 9823 | 6836 | 8365 | 5489 | 3287 | 1447 | 5256 | 9823 | 6836 | 8365 | 5489 | 3287 | 1447 | 5256 |
| 2 | 2015 | 5999 | 5696 | 4136 | 3807 | 1526 | 1590 | 3065 | 7531 | 8562 | 8365 | 5489 | 3287 | 1447 | 5256 | 9823 | 6836 | 8365 | 5489 | 3287 | 1447 | 5256 | 9823 | 6836 | 8365 | 5489 | 3287 | 1447 | 5256 |
| 3 | 2016 | 6858 | 7924 | 7974 | 9184 | 5630 | 6523 | 7218 | 6355 | 5966 | 7668 | 7434 | 6996 | 6845 | 6996 | 7434 | 6996 | 6845 | 6996 | 7434 | 6996 | 6845 | 6996 | 7434 | 6996 | 6845 |
| 4 | 2017 | 7018 | 8558 | 7487 | 6564 | 6052 | 5718 | 8032 | 7218 | 6346 | 4900 | 5742 | 6666 | 6996 | 7434 | 6996 | 6845 | 6996 | 7434 | 6996 | 6845 | 6996 | 7434 | 6996 | 6845 |

**Sales Trends**

- **2014**
- **2015**
- **2016**
- **2017**

The graph shows the sales trends for the years 2014 to 2017. The data is presented in a table format with columns for each month.
Google Trends

- OpenOffice (blue)
- OnlyOffice (red)
- WPS Office (yellow)
- LibreOffice (green)
Visits to Download Page by Continent (01/01/2019 - 30/06/2019)

Europe: 61%
North America: 15%
South America: 11%
Asia: 10%
Africa: 11%
Oceania: 15%
Central America: 61%
Unknown: 10%
Antarctica: 10%
Visits to Download Page from LATAM (01/01/2019 - 30/06/2019)

- Brazil: 74%
- Argentina: 10%
- Colombia: 4%
- Chile: 3%
- Venezuela: 3%
- Uruguay: 2%
- Ecuador: 4%
- Peru: 10%
- Paraguay: 2%
- Bolivia: 2%
- Others: 2%
The Future

- Together, we can all help to build a global ecosystem using OpenSource software
- Contributing means sharing our knowledge to improve the global community
- Without boundaries to what we are good at doing: FOSS needs all kind of skills
YOU ARE NEVER TOO OLD TO SET ANOTHER GOAL OR TO DREAM A NEW DREAM (CS Lewis)
FOSS Tomorrow (Dream)

Know | Use | Refuse