Running the internet, **Second Second** and under-staffed?

How to achieve a sustainable open source ecosystem

Drupalcamp Belgium, May 10 2024 | Jutta Horstmann | CEO, Mailvelope-

100 FREEDOMS OF FREE SOFTWARE

001 USE 010 STUDY 011 SHARE 100 IMPROVE

fsfe.org

VS.



Luca Florio, CC BY-SA 2.0, via Wikimedia Commons

Economic Sustainability

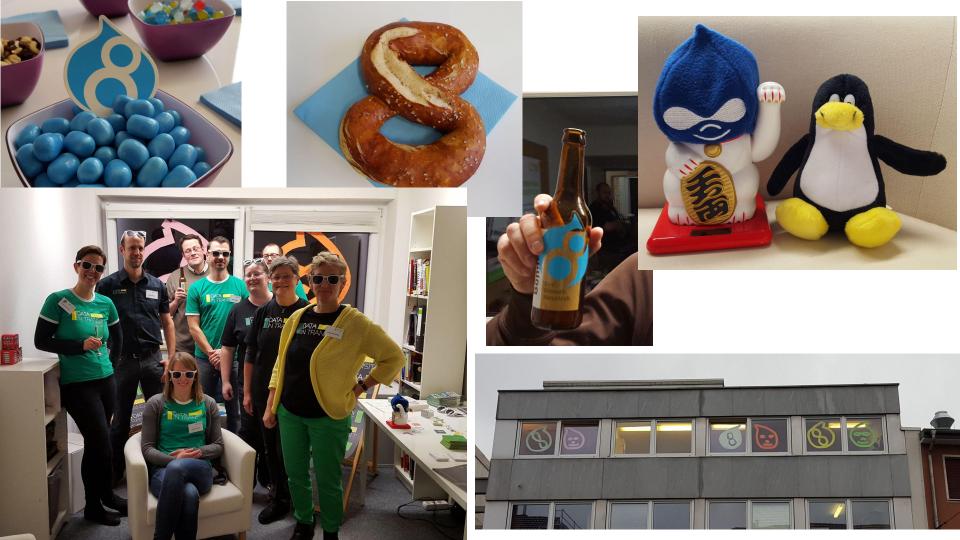
The project has funding to continue operations



Economic Sustainability

The project has funding to continue operations for years to come.







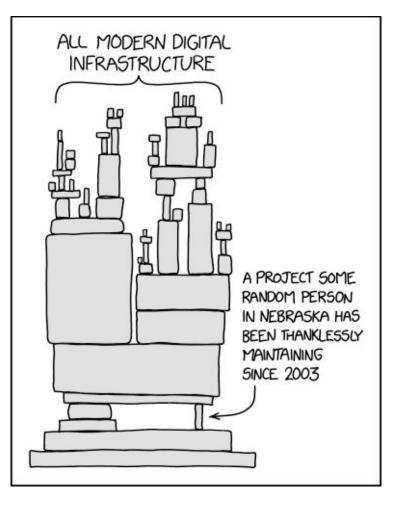
Communicating securely with Mailvelope

Your sensitive data is securely protected by us.

No unauthorized person can read your data on the way – not even your provider.

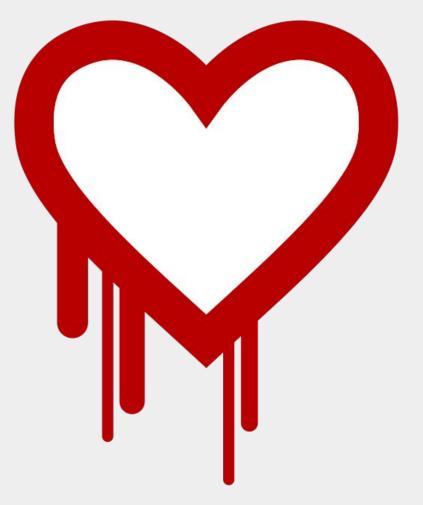
And best of all, it's so simple that anyone can join in.







OpenSSL



Credit: Leena Snidate / Codenomicon, CC0, via Wikimedia Commons

"So the mystery is not that a few overworked volunteers missed this bug; the mystery is why it hasn't happened more often."

- <u>Steve Marquess</u>, OpenSSL



GnuPG

The World's Email Encryption Software Relies on One Guy, Who is Going Broke

Werner Koch's code powers the email encryption programs around the world. If only somebody would pay him for the work.

by Julia Angwin, Feb. 5, 2015, 11:24 a.m. EST





Reactions



Sovereign Tech Fund





OPEN TECHNOLOGY FUND

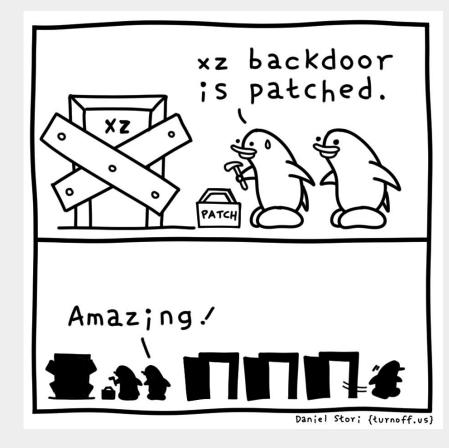
Free and Open-Source Software Sustainability Fund

Log4J

Your next task is to figure out which applications in your org use log4j



xz Utils



The situation today

- 96% of the surveyed codebases included OSS
- 77% of the code in the codebases was OSS
- 49% of code bases included OSS that had had no developer activity in the past two years

- Synopsys '24 Open Source Security Report (audited > 1,700 codebases across 17 industries, <u>source</u>)

- 60% of open source maintainers describe themselves as "unpaid hobbyists."
- 44% of all maintainers said they are **the only person maintaining a project**.

- Tidelift study 2023,

https://thenewstack.io/open-source-needs-maintainers-b ut-how-can-they-get-paid



How to make a living from building Open Source software?



The Economics of Open Source



Voluntary, unpaid work



Voluntary, unpaid work

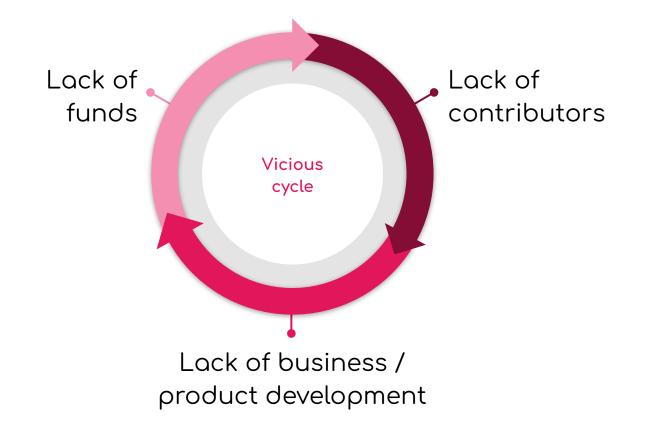
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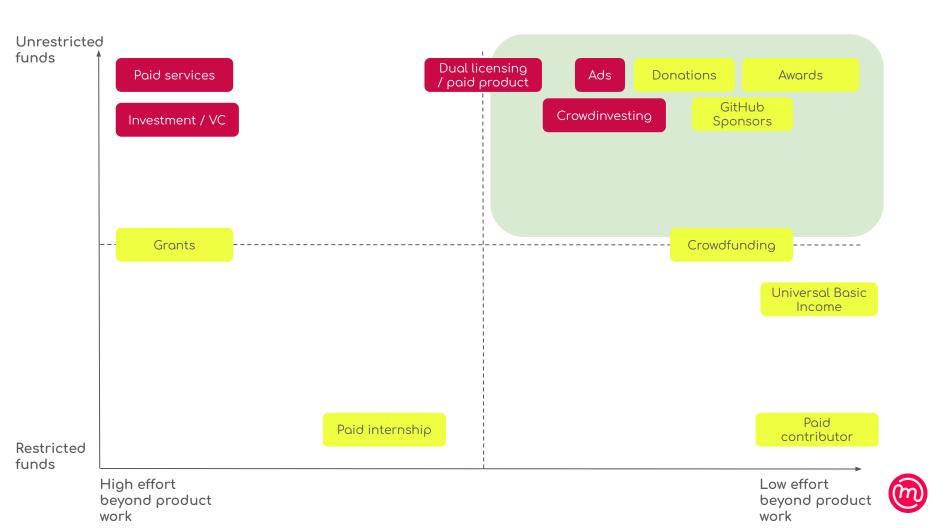


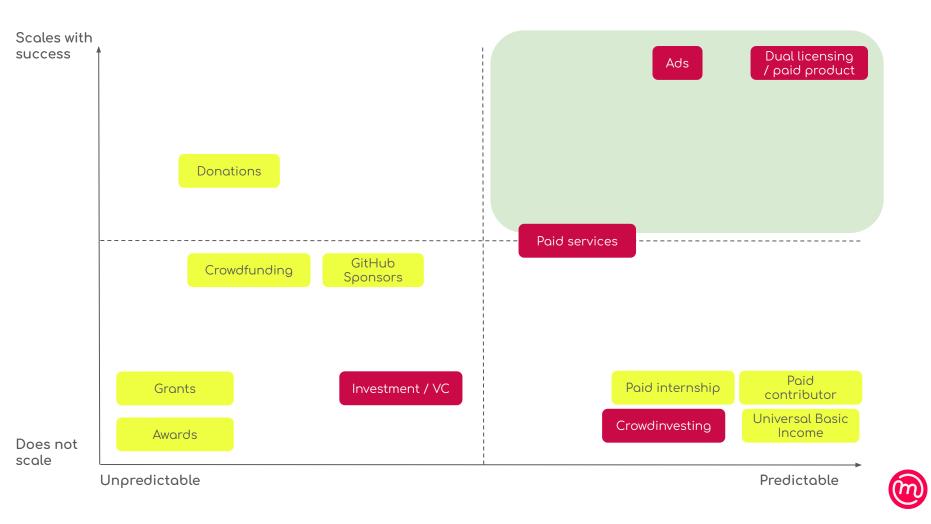




Sustaining F/OSS: Business and Funding Models







Examples



Adblock Plus

Browser extension

What does it do? Block ads, tracking, malware

License:

What is it?

GPL Developed by Adblock Inc (subsidiary of eyeo GmbH)

Available since

2006

- Ads / paid services: Acceptable Ads revenue
- Freemium
- Donations





Drupal

What is it?CMS / DXPWhat does it do?Framework for web content publishingLicense:GPLDeveloped byCommunityAvailable since2001

- Donations
- Grants (Drupal association)
- Sponsorships
- Paid contributors
- Paid services





GnuPG

What is it?

Crypto engine implementing PGP standard

What does it do?Encrypt & signs data and communications; key management systemLicense:GPL

Developed by: Werner Koch / g10 Code GmbH

Available since 1997



- Public contract (Germany, for GPG4Win and VS-Desktop)
- Crowdfunding
- Donations (by larger companies like Stripe, Facebook)
- Paid services (g10 Code GmbH)



Mailvelope

What is it? Browser extension What does it do? Encrypt webmail communications AGPL Developed by Thomas Oberndörfer, Mailvelope GmbH Available since 2012

Funded by

License:

- Grants
- Paid subscriptions (Mailvelope Business)





Mozilla Firefox

What is it?BrowserWhat does it do?Encrypt webmail communicationsLicense:Mozilla Public License (MPL)Developed byMozilla Foundation & Mozilla CorporationAvailable since2004



- Donations (Mozilla Foundation)
- Paid services / Ads (Mozilla Corporation, 81% (2022) from Google paying for making it the default search engine)



MySQL

What is it?Database Management SystemWhat does it do?Stores and manages information in databasesLicense:GPL and proprietaryDeveloped byMySQL AB

Available since 1995

- Donations (Mozilla Foundation)
- Paid product via dual licensing





Learnings

Longevity built on

- keeping the organization small
- finding a profitable paid services business model
- building a profitable paid services ecosystem
- dual licensing
- securing (unrestricted) grants
- securing (large) donations



Economic Sustainability

The project has funding to continue operations for years to come.



Beware!

- Tip jars / Gig economy
- Restricted funds
- Short-term grants
- Grant writing overhead
- Donation taxation



How about...

funding Open Source maintainers with public money from (corporate) taxes?

applying licensing that requires you to pay money when you build commercial offerings on top of OSS?



Licensing

"I want everyone to be able to use my code only for non-commercial purposes."

- Commons Clause: https://commonsclause.com
- Sustainable License:
 <u>https://manishrjain.com/sustainable-license-faq</u>
- Heather Meeker: <u>https://heathermeeker.com/about-me/</u>



What Open Source sustainability means for US





female contributors to Open Source repositories

Sources: <u>https://www.toptal.com/open-source/is-open-source-open-to-women</u>, <u>https://community.sap.com/t5/open-source-blogs/women-in-open-source/ba-p/13508760</u>, <u>https://www.computer.org/csdl/magazine/co/2022/12/09963732/11z0RZM9Wbm</u>





Gender pay gap: In Germany, women earn 18% less than men.

(2022, DESTATIS)

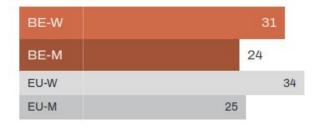




Gender care gap: Per week, women work 9h more unpaid than men do. (2022, DESTATIS, Germany)

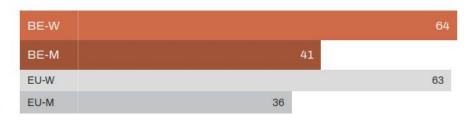


People caring for and educating their children or grandchildren, elderly or people with disabilities, every day (%, 18-74 population) (i)



Source: EIGE' survey on unpaid care, 2022. EIGE's calculations.

People doing cooking and/or housework, every day (%, 18-74 population) (i)



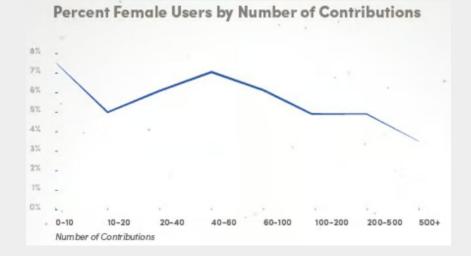
Source: EIGE' survey on unpaid care, 2022. EIGE's calculations.

Workers involved in voluntary or charitable activities, at least once a month (%, 16-74 workers) (i)





How can one expect women to contribute to Open Source when that means spending spare time we don't have, on another topic we are not going to be paid for?



https://www.toptal.com/open-source/is-open-source-open-to-women

Open Source sustainability enables diversity.





Thank you!

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PGP: 89D1 69A3 ECAD CA3D A4E6 F3A7 DFA4 EE0F 9113 4859



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