Untangling the frictions and cohesions between (digital) democracy and open source

By Anne Lee Steele

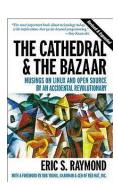
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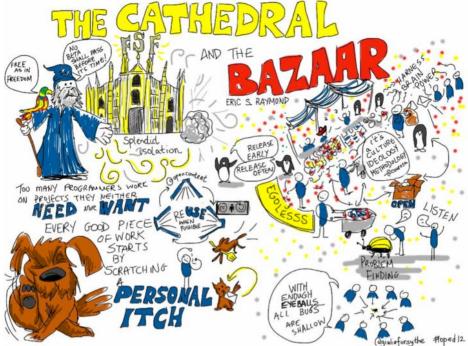
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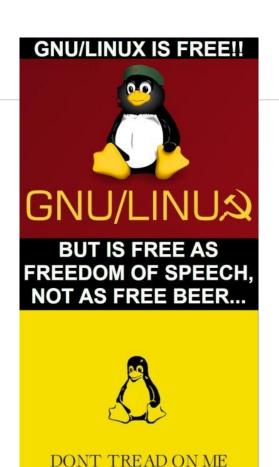




Free/Open Source (1970s-2000)









Open Movements: 2000s

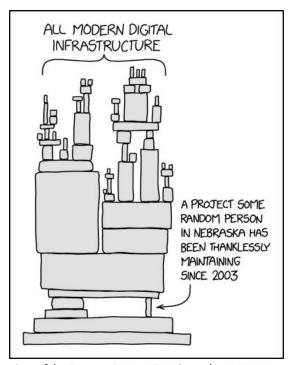


"Information is power. But like all power, there are those who want to keep it for themselves. The world's entire scientific and cultural heritage, published over centuries in books and journals, is increasingly being digitized and locked up by a handful of private corporations."

– Aaron Swartz, Guerilla Open Access Manifesto, 2008



Commercialising Open Source: 2010s





Joining forces with IBM gives Red Hat the opportunity to bring more open source innovation to an even broader range of organizations and will enable us to scale to meet the need for hybrid cloud solutions that deliver true choice and agility.

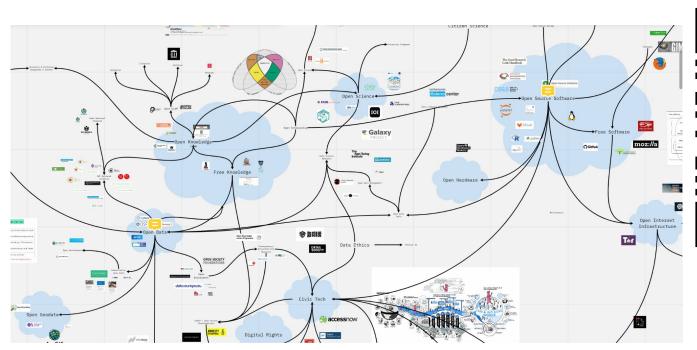
Jim Whitehurst

president and CEO, Red Hat



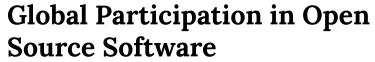


Open Source Today: 2020s - present





https://tinyurl.com/ open-ecosystem







Histories of open source: historical frictions

Free software vs open source

- Corporate vs Non-commercial
- Grounded in licensing frameworks (copyright, IP)
- "Free as in freedom, not as in beer"

Grassroots movement vs growing institutionalisation

- Managing maintenance vs 'innovation'
- Increasing commercialisation

Technical infrastructure vs wider social process

"Open for what, open for whom?"

Participation in & facilitation of global open source projects













BritishRedCross



Humanitarian OpenStreetMa Team



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Changing the culture of data science

The Turing Way is an online handbook – and global community – dedicated to fostering gold-standard reproducible research. It's a cultural movement with the potential to transform data science



"Global Village" (Digital) Democracy



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Science

- Historically funded by governments → Undergoing increasing privatisation
- Public-facing, (originally) non-for-profit
- Crisis of Reproducibility (Trust)

Technology

- Funded by Government, Private sector, NGOs, Philanthropy (or developed by volunteers)
- Application & implementation of research
- Many crises (Trust, Privacy, Access)

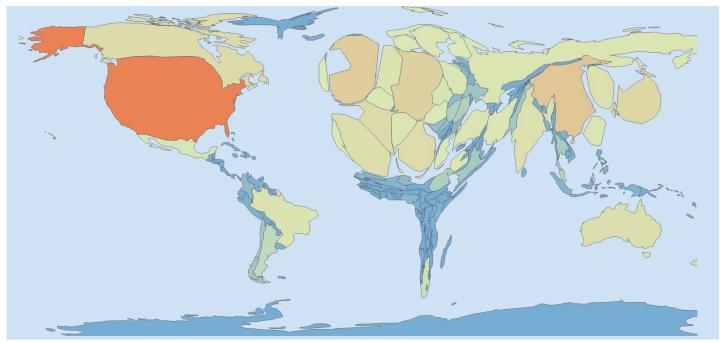






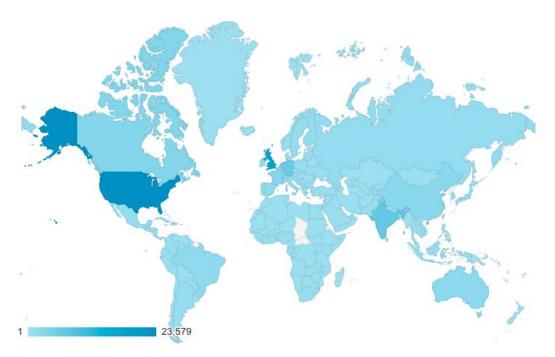


Global production of (scientific) knowledge

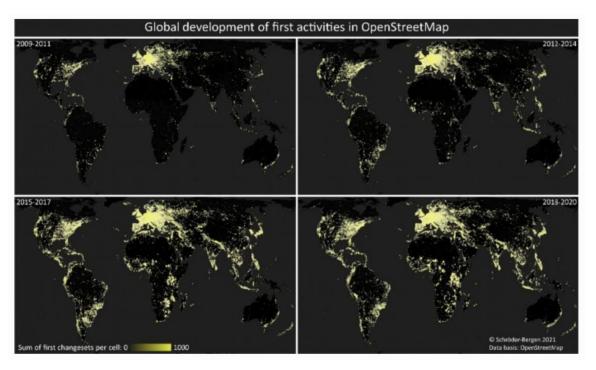


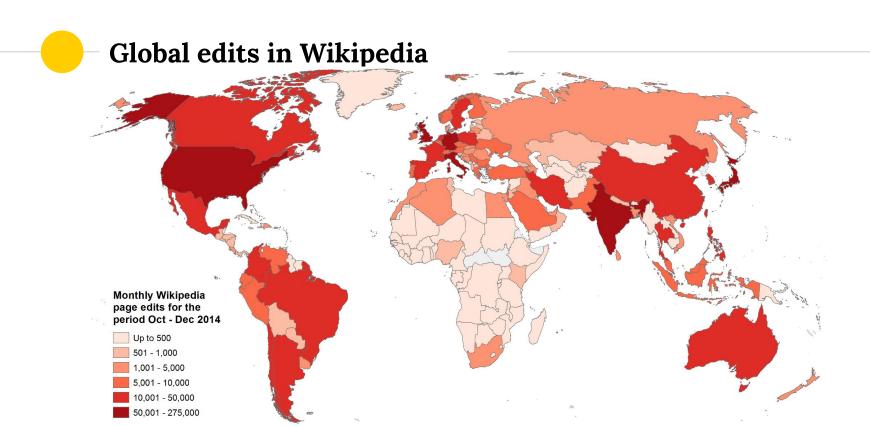
World scaled by number of documents in Web of Science by authors living there, 2011 (source: Juan Pablo Alperin).

Global Access to The Turing Way open access resource



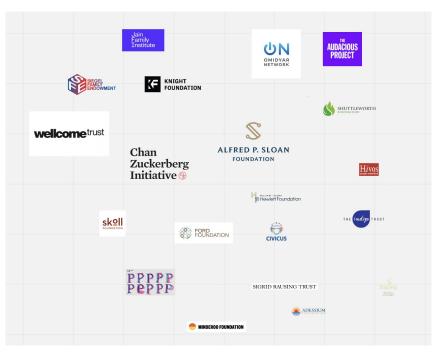








Funders of open source



Big names like Google dominate open-source **funding**

Companies can get plenty of bang for not many bucks via open-source sponsorship.











Network World's analysis of publicly listed sponsors of 36 prominent open-source non-profits and foundations reveals that the lion's share of financial support for open-source groups comes from a familiar set of names.

We found 673 companies on the donor rolls of our list of organizations - which was drawn heavily, though not entirely, from the Open Source Initiative's list of affiliates.

Google was the biggest supporter of open-source organizations by our count, appearing on the sponsor lists of eight of the 36 groups we analyzed. Four companies - Canonical, SUSE, HP and VMware - supported five groups each, and seven others supported four. (Nokia, Oracle, Cisco, IBM, Dell, Intel and NEC.) For its part, Red Hat supports three groups - the Linux Foundation, Creative Commons and the Open Virtualization Alliance.

Open source governance: bureaucratisation of contribution

Python's Benevolent Dictator For Life

"Python is an experiment in how much freedom programmers need. Too much freedom and nobody can read another's code"

- Guido van Rossum





Open source examples: current frictions

Global access vs Localised contributions

- Contributions & access remain skewed towards
 Western states
- "Open for what, open for whom?" → i.e. OpenAl

Funding Landcape

- Corporate vs Foundation
- Volunteer vs paid
- Widening implementation & definition of what open source means

Digital governance

 Developing and experimental processes of governance & bureaucracy (BDFL, meritocracy, etc)





Digital citizenry as both IRL & Online: places of contestation, labor, capital & community

Thank you

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