Debian: a Geeky Quasi-Anarchy that Works

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28 June 2014 Hackmeeting 2014 Bologna, Italy

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Debian: a Quasy-Anarchy that Works

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Outline



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Debian: a Quasy-Anarchy that Works

Debian: once upon a time

Fellow Linuxers,

This is just to announce the imminent completion of a brand-new Linux release, which I'm calling the Debian Linux Release. [...]

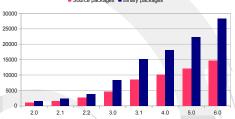
lan A Murdock, 16/08/1993
comp.os.linux.development

- make GNU/Linux competitive with commercial OS
- easy to install
- built collaboratively by software experts
- 1st major distro developed "*openly in the spirit of GNU*" FSF-supported for a while

of Debian: the operating system

flagship product: Debian stable

- binary distribution
- completely Free (DFSG)
- released every 24 months (\approx)
- a dozen architectures
 - with several kernels!
- archive-wide security support
 - Long Term Support, 5 years



Source packages Binary packages

one of the largest Free Software porting platforms

renowned for

ports, stability, packaging system, old hw support, documentation, smooth upgrades, i18n/l10n, the testing suite, runs anywhere, technical policy, package choice, ...

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Debian 7.0 "Wheezy" - highlithgs

• multiarch

- 3rd party software, easily
- cross-compilation
- private cloud deployment
 - OpenStack, Xen/XCP, ...
- public cloud support
 - EC2, Azure, GCE, ...
- multimedia codecs & frontends
 - 3rd party repositories
- new archs: armhf, s390x
- desktop: GNOME 3.x, KDE Plasma 4.x, XFCE, ...



 upgrades throughout the archive

released: May 4th, 2013

Most popular GNU/Linux on the Web (\approx 30%) overall, 1+ Web server out of 10 (\approx 11%) runs Debian — w3techs.com, June 2014

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$\frac{1}{3}$ of Debian: the Project

Common goal:

Create the best, Free operating system.

Debian Social Contract

- 100% Free Software don't hide problems
- give back priorities: users & Free Software

Debian Constitution

(1998)

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(1997)

Structures and rules of a Free-Software-compatible democracy

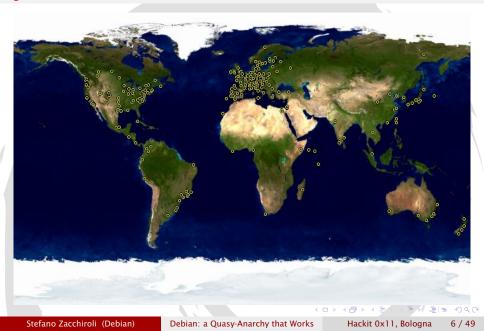
Strong motive to join: \approx 1'000 project members, world-wide

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$\frac{1}{3}$ of Debian: the Project (cont.)



Demography

Developer's per country

2013 statistics: http://www.perrier.eu.org/weblog/2013/07/27# devel-countries-201307

Take a guess: Italy's position?

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Demography

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Take a guess: Italy's position?

in terms of...

- total n. of devs: #5 (after: us, de, fr, uk)
- n. of devs pro capite: #20 (after: most EU countries, except east and .gr)

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↓ 1 wrt 2012

$\frac{1}{3}$ of Debian: the community

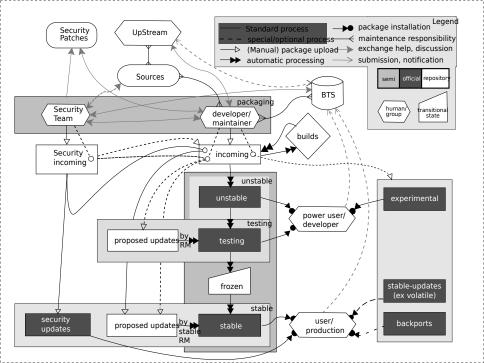


Open development

- we don't hide problem
- easy to have an impact (just "show me the code!")
- Large amounts of communication
 - mailing lists + IRC
 - social media: @debian on identi.ca/pump.io/
- Large number of tech-savvy users
 - users help each other, contribute patches, get involved

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Outline



Debian: one of a kind?

1993 — not many distros back then 20 years later — *lots* of other distros

$(\approx 250 - DistroWatch)$

openSUSE, Linux Mint, PCLinuxOS, Slackware, Gentoo Linux, CentOS, FreeBSD, Arch, Sabayon, Puppy, Lubuntu, MEPIS, Ultimate, NetBSD, Tiny Core, Zenwalk, CrunchBang, Dreamlinux, Vector, Kubuntu, Maemo, Red Hat, aptosid, Peppermint, PC-BSD, Chakra, Salix, ClearOS, KNOPPIX, Xubuntu, Super OS, BackTrack, gOS, TinyMe, Zentyal, EasyPeasy, Frugalware, Clonezilla, Pardus, Meego, OpenBSD, Quirky, PC/OS, Zorin, Debian, SystemRescue, Element, Unity, SliTaz, Macpup, wattOS, Scientific, Mythbuntu, Slax, DragonFLY, Elive, linux-gamers, 64 Studio, Ubuntu, mageia, Nexenta, Parisx, NuTyX, GhostBSD, Kongoni, moonOS, LFS, Lunar, Imagineos, Untangle, Fedora, Yellow Dog, aLinux, Yoper, IPFire, BlankOn, Mandriva, PureOS, FreeNAS, Moblin, Linpus, TurboLinux, blackPanther, ...

with many differences:

- technical choices
- release management
- release schedule
- target user
- community

- support
- packaging system
- user base
- Iook & feel

• . . .

How is Debian different?

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Debian's special #1: package quality

" Culture of technical excellence "

- package design: Policy i.e. "how a package should look like"
- package testing: lintian, piuparts, archive rebuilds (FTBFS), ...
- package maintainers are software experts
- no 2nd class packages, all are equal

Debian release mantra

we release when it's ready

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Debian's special #2: freedom

Firm principles: developers and users bound by the Social Contract

promoting the "culture of Free Software" since 1993
 Free the bottom up

- in its <u>software</u> firmware included !
- in its <u>infrastructure</u> no non-free web services (for users) no non-free infrastructure (for developers)

Community awareness

- users know
- users trust Debian not to betray Free Software principles
- high bar for software freedom advocates

Debian's special #3: independence

Debian is an independent project

- no (single) company babysitting us
- Iiving up on:
 - donations (money & hardware)
 - gift-economy
- ... truly remarkable in today "big" distro world

people trust Debian choices not to be "profit-driven"

Debian's special #4: decision making

do-ocracy

An individual Developer may make any technical or nontechnical decision with regard to their own work; — Debian Constitution, §3.3.1.1

2 democracy

Each decision in the Project is made by one or more of the following:

1. The Developers, by way of General Resolution [...]

- Debian Constitution, §2

that means:

- reputation follows work
- no benevolent dictator, no oligarchy
- no imposed decisions

by who has money, infrastructure, people, ...

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Debian's special #5: derivatives

Definition (Derivative distribution)

Apply software freedoms 2 (redistribute) and 3 (improve) to an entire distro.

Debian: a base for \approx 140 <u>active</u> distros, 50% of total (DistroWatch)

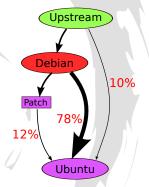
 Tucunare, LinEx, Inquisitor, Grml, UniventionCorporateServer, Vanillux, Emdebian, Crunchbang, PureOS, StormOS, Ubuntu, GNUSTEP, gNewSense, Debathena, Maemo, LMDE, SPACEflight, BCCD, Bayanihan, semplice,
 ArchivistaBox, Knoppix, Tails, BlankOn, AlienVault-OSSIM, DoudouLinux, Vyatta,
 Symbiosis, VoyageLinux, Lihuen, LinuxAdvanced, Aptosid, Canaima, siduction, ZevenOS-Neptune, BOSSlinux, Parsix, AstraLinux, ProgressLinux, Finnix,
 SprezzOS, CoreBiz, Epidemic-Linux, MetamorphoseLinux, Debian, Xubuntu,
 Linux, Kubuntu, Caixa Mágica, Lubuntu 1...

Why?

- quality & licensing assurances
- solid base system
- huge package base
- the "*universal* OS", perfect for customizations

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Data for Raring Ringtail, Jan 2013,

16/49

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Outline



Day-to-day organization

• completely informal: spontaneous teams form around common interests and adopt their own rules/tools/processes

http://wiki.debian.org/Teams/

- e.g.: packaging teams for related packages, archive team, release team, security team, kernel team, installer team, etc.
- teams grow as the job gets bigger

• common forge (non-mandatory)

https://alioth.debian.org/

- VCS, mailing lists, BTS, etc.
- FusionForge, de facto maintained by Debian (Roland Mas)
- per-team ACL, with the possibility of opening them up

Constitution (1998)

structure and rules for decision making in a Free Software-compatible democracy

- volunteers
- minimal "people management"
- "do-ocracy"
 - anybody can decide how to do their job
 - nobody can impose to others what to do
- relationships with the real "fiscal" world

http://www.debian.org/devel/constitution

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Constitution — bodies

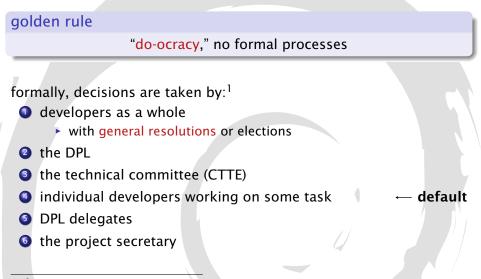
- individual "developers" (AKA project members)
- Debian Project Leader (DPL) elected each year
- technical committee (tech-ctte)
- secretary
- trusted organizations

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Constitution — decision making



¹overruling from top to bottom, sort of

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Project members

- akin to Debian Project citizens
- everybody can work on Debian without being a project member...
- ... but project members do have specific rights:
 - voting rights
 - right to use project technical infrastructure
 - upload access to the official archive

(active and passive)

(for packagers)

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Project leader

- represents Debian
- can delegate "area of ongoing responsibility" to members
 - AKA appoint delegates
- coordinate project activities, "lead discussions"
- decide upon project assets
 - money
 - hardware
 - "intelectual property," e.g. trademarks
- decision "garbage collector"
 - urgency
 - lack of other responsibles

Technical committee

[tech-ctte] has a role similar to that of the US Supreme Court: it makes the final pronouncement on disputes that cannot be resolved otherwise — https://lwn.net/Articles/603350/

- "tribunal" for *technical* disputes, 4-8 members
- the only formalized dispute resolution body in Debian
 - everything else dealt with via consensus/mediation
- members: skilled, (project-)elderly, well-respected developers
 - appointed by DPL

Example (recent tech-ctte issues)

- #727708 which init system to default to
- #681419 alternative deps. on non-free packages in main
- #614907 node: name conflicts with node.js interpreter
- #573745 Python interpreter packages maintainership
- #552688 how Debian should enable hardening build flags

General resolutions

Decision making heavy weapon, not to be abused.

- used (seldomly) for project-wide decisions and statements
- culture: "thou shalt not use GRs for technical decisions"

🜒 initial proposal

- post to the debian-vote mailing list
- requires seconds, depend on n. of developer

discussion period

- might lead to alternative proposals
- can put "on hold" decisions of specific bodies
- vote with Condorcet-based method
- Isingle winner
 - super majority (3:1) required to change foundation documents

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Voting method

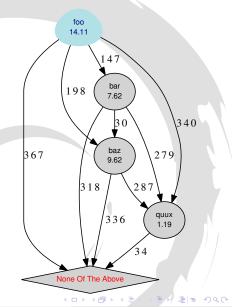
Sample ballot:

- [4] bar
- [2] baz
- [1] foo
- [2] quux
- [3] None Of The Above

Definition (Condorcet winner)

A candidate that would win majority against any *single* other candidate.

- If there is a Condorcet winner, it will win in any Condorcet method election
- Debian: Schulze method (popular Condorcet method)



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Secretary

appointed conjointly by DPL and incumbent secretary

- responsible for election procedures
 - de facto authority for Constitution interpretation in electoral matters
- maintains and run the voting software devotee
 - voting artifacts (software, ballots, etc.) available for review
 - software allows to rerun and verify election results, e.g.:
 - * http://www.debian.org/vote/2010/vote_001_tally.txt
 - * http://www.debian.org/vote/2010/vote_002_tally.txt
 - note: all votes are public, except for DPL elections

Fiscal sponsorship

Do Free Software projects exist in the "real world", the one made of money, laws (and lawyers), taxes, etc?

- They do have peeds that relate them to it, e.g.:
- receive (tax exempt) donations
 - . . and provide (tax deductible) receipts
 - own hardware, potentially expension
 - ▶ Debian hardware cost per year: ≈30 kUSD
 - own copyright and trademarks
 - that might want/need/to enforce...
 - o use donated money to reimburse (or pay) developers
 - developers might get sued
 - \$evil_proprietary_software_company
 - patent trolls
 - ▶ ...

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Fiscal sponsorship (cont.)

Definition (Fiscal sponsorship)

Fiscal sponsorship is the practice of non-profit organizations (NPO) to offer legal and tax-exempt status to groups related to the organization's missions.

By extension, in Free Software it commonly refers to providing all the "real world"-related needs that a project needs.

- high-profile FOSS projects have set up their own NPO
- but it is a lot of work!
 - ... and hackers are not necessarily good at it
- umbrella organizations that do fiscal sponsorship for Free Software projects are more and more common, e.g.:
 - Software Freedom Conservancy, http://sfconservancy.org/
 - Software in the Public Interest (SPI), http://spi-inc.org/
 - Apache Software Foundation, http://apache.org/

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Trusted Organization

1997 Debian founds SPI for the needs of Free Software projects
including Debian itself, but with the usual "give back" intent
1998 the Constitution entrusts SPI to handle Debian assets
2006 Constitution amended to not special case SPI introducing the notion of...

Trusted Organizations (TO):

- hold assets "in trust" for the Project
 - DPL as liaison / decision maker
- link with the real bureaucratic world
 - donations, legal advice, tax exemption, reimbursements, ...
- SPI (us), FFIS (de), debian.ch (ch), ...

Joining — an ethical moment

1993 as most FOSS projects, Debian incubated as 1-man-show

- 1994 Debian manifesto to explain Debian values
- 1995-1997 easy to join: send a mail!
 - small numbers, project members in the tens

1998-1999 ethical crisis

- we need manpower!
- new developers accepted too quickly
- disagreement on core values

to be more competitive with other distros, we should accept non-free components

(lack of needed technical skills)

Debian Account Manager (DAM) stops accepting new members

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Joining — an ethical moment (cont.)

1999 creation of the NM process (New Maintainer) and NM team to accept new members

DPL stated requirements to be on the NM team (excerpt):

- needs to have a *strong* opinion for free software
 needs to have a *strong* opinion for free software
- he needs to know what he's doing, that new people need some guidance, we have to prevent ourselves from trojans, etc.
- we need to trust him more than we trust *any* other active person
- he *has to* understand that new-maintainer is *more* than just creating dumb accounts on N machines

E. Gabriella Coleman Three Ethical Moments in Debian SSRN, 2005. http://ssrn.com/abstract=805287

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NM Process

http://www.debian.org/devel/join/

identification

- via GPG key, available in the Web of Trust (WoT)
- signed by at least 2 project members
- ► correspondence: Internet identity ↔ real person
- Debian people: largest connected group in the WoT
- assignment of an Application Manager (AM)
 - both mentoring and examination
 - requirement: not a newbie project member

ophilosophy & procedures

- adherence to project core values
- license/legal knowledge
- knowledge of common procedures
- Q&A via email

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NM Process (cont.)

http://www.debian.org/devel/join/

tasks and skills

- technical (packaging or other) ability
- with evidence of previous work → trivial

DAM review & approval

- DAMs are DPL delegates, (indirect) formal blessing of new members by the Project as a whole
- special casing in the Constitution:

Leader's Delegates [...] may make certain decisions which the Leader may not make directly, including approving or expelling Developers

account creation

and setup of related permissions

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Diversity

The Debian Project is an association of individuals who have made common cause to create a free operating system.

- but you have the New (Package) Maintainer process
- is that a problem?

technical: there's much whore than packaging to a Free OS
 translation, infrastructure, porting, bug triaging, artwork, communication, management, testing, legal advice, QA, ...
 ethical: first/second class citizen split
 no sense of belonging for non-packagers results in lack of motivation

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Diversity

The Debian Project is an association of individuals who have made common cause to create a free operating system.

- but you have the New (Package) Maintainer process
- is that a problem?

Yes

- technical: there's much more than packaging to a Free OS
 - translation, infrastructure, porting, bug triaging, artwork, communication, management, testing, legal advice, QA, ...
- ethical: first/second class citizen split
 - no sense of belonging for non-packagers results in lack of motivation

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Diversity (cont.)

2010 GR "Debian project members"

To pursue Debian goals, package maintenance as well as a wide range of other technical and non-technical contributions are all valuable

2011 rename: New Maintainer (NM) Process → New Member 2012 GR "Diversity statement"

The Debian Project welcomes and encourages participation by everyone. [...]

While much of the work for our project is technical in nature, we value and encourage contributions from those with expertise in other areas, and welcome them into our community.

2014 GR "Code of conduct"

The Debian project decides to accept a code of conduct for participants to its mailing lists, IRC channels, and other modes of communication within the project.

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Want to know more?

on the web

- http://www.debian.org
- http://wiki.debian.org
- social media: http://identi.ca/debian
- mailing lists: http://lists.debian.org
- IRC: #debian-* channels on irc.debian.org

• ask me!

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Thanks!

Questions?

Stefano Zacchiroli zack@debian.org

http://upsilon.cc/zack
http://identi.ca/zack

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Outline



Donate to Debian

even if completely volunteer-driven, Debian needs resources

- hardware for essential services
 - archive, buildds, devel. machines, ...
- money for hardware-related services
 - guarantees, shipments, hosting, ...
- money to sponsor developer meetings
 - strengthen the community
 - get work done

Donations

- donations: http://www.debian.org/donations
- partners program: http://www.debian.org/partners

Contributing #1 — using Debian

- test, report, triage, fix bugs
 - reportbug on your Debian, http://bugs.debian.org
- Impositor packages you care about

Odobian deka

subscribe on http://packages.qa.debian.org

general	todo	bugs
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- try to reproduce bug and provide patches
- (eventually, become co-maintainer)

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jump to

Contributing #2 — adopt packages in need of love

find the ones you use:

apt-get install devscripts ; wnpp-alert
 apt-get install how-can-i-help

 learn packaging with the Debian packaging tutorial http://www.debian.org/doc/manuals/ packaging-tutorial/packaging-tutorial.en.pdf

or:

apt-get install packaging-tutorial

(aussi disponible en français!)

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Contributing #3 — join packaging teams

- many teams
- focused on a programming language or on a field of use
 - Python, Java, Perl, Ruby, OCaml, ...
 - Bluetooth, Cloud, Games, Med, Science, VolP, ...

excellent way to learn from experienced contributors

http://wiki.debian.org/Teams#Packaging_teams

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Contributing #4 — hack on the Debian infrastructure

- suitable for all programmers
- opportunity
 - complex and heterogeneous infrastructure
 - impact on millions of users
- services provide link to source code in page footer

Example (http://buildd.debian.org)

The source code for wanna-build is available as a Git repository (Gitweb). [...] sbuild and buildd live together in the sbuild.git repository (Gitweb) in the buildd-tools Alioth project.

Example (http://sources.debian.net)

Debsources — Copyright (C) 2011–2013 Matthieu Caneill, Stefano Zacchiroli, and contributors. License: GNU AGPLv3. [...] Source code: Git. Contact: info@sources.debian.net.

Contributing #5 — work on non-development tasks

- translation
- design (themes, websites)
- communication (newsletters & press releases)
- events (DebConf, mini-DebConf)
- videoteam
- o documentation
- accounting
- . .

Fundamental activities for the Debian Project to live long and prosper.

http://wiki.debian.org/Teams

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Outline



Everything is fine

After 30 years, Free Software is finally becoming trendy! • web server market share of Apache+nginx ≈61% — Netcraft report, October 2013 • web browser market share of Firefox+Chrome+Android ≈58%

web browser market share of Firefox+Chrome+Android \approx 58% — StatCounter, July 2013

- Google's Android seizes smartphone market: software was on nearly 80% of devices shipped in Q2 — Wall Street Journal, 8 August 2013
- in education:

1.75 million RaspberryPi sold so far — Oct. 2013

 desktops — Ubuntu (most popular GNU/Linux desktop): 20 million users in 2011 (estimate), recurrent large scale migrations (200'000 in Spain, 180'000 in Macedonia, China agreement in 2013, ...)

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Total word domination, at last!

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Or is it?

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Dark ages

We have many reasons *not* to be happy. A common one: "they are not 100% Free systems." True.

But I'm more worried about the upcoming...

Free Software dark ages

We have Free Software systems at our fingertips. But our relevant computations are moving away from those systems to remote, centralized systems which we don't control.



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https://en.wikipedia.org/

wiki/File:

Petrarch_by_Bargilla.jpg

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Free Software dark ages

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And very few hackers seem to care! :-(



Have we lost sight of Free Software goal?

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https://en.wikipedia.org/

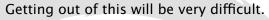
wiki/File:

Petrarch_by_Bargilla.jpg

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Towards a new enlightenment



- we need cultural shifts non-free to make Free? No, thanks. release webapps under AGPL
- we might need to redefine freedoms "services raise other issues" no longer enough
- technical work on Free, federated services we lag behind big time on these getting them right is hard

https://it.wikipedia.org/ wiki/File:Encyclopedie_de_ D%27Alembert et Diderot -

ENCYCLOPEDIE.

DICTIONNAIRE RAISONNÉ

DES SCIENCES. DES ARTS ET DES MÉTIERS.

PAR UNE SOCIÉTÉ DE GENS DE LETTRES. Mis en ordre & public par M. DIDEROT, de l'Académie Royale des Sciences & des Belles

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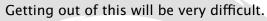
> > ME PREMIE

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But we do have hope:



Nice list at http://prism-break.org/

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https://it.wikipedia.org/ wiki/File:Encyclopedie_de_ D%27Alembert et Diderot -Stefano Zacchiroli (Debian)

A role for distributions

Goal

Free Software distributions should offer click-button installation of all Free federated services that you need to interact with your peers without the mediation of centralized or non-free services.

Out of the box:

- anonymous browsing / censorship evasion
- mail handling
- web hosting
- "cloud" storage, calendar, contacts, etc.
- encrypted P2P backup

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• . . .
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Getting there will be difficult:

- for most services we don't have the software (yet)
- sane automatic configuration is hard, if possible at all
- to have an impact, we need to make it dead simple

But we're trying!, e.g. https://freedomboxfoundation.org/

...