

SUSTAINABLE FREE AND OPEN SOURCE

Khem Raj
Distinguished Engineer, Comcast

AGENDA



BUSINESS



COMMUNITY



DEVELOPMENT

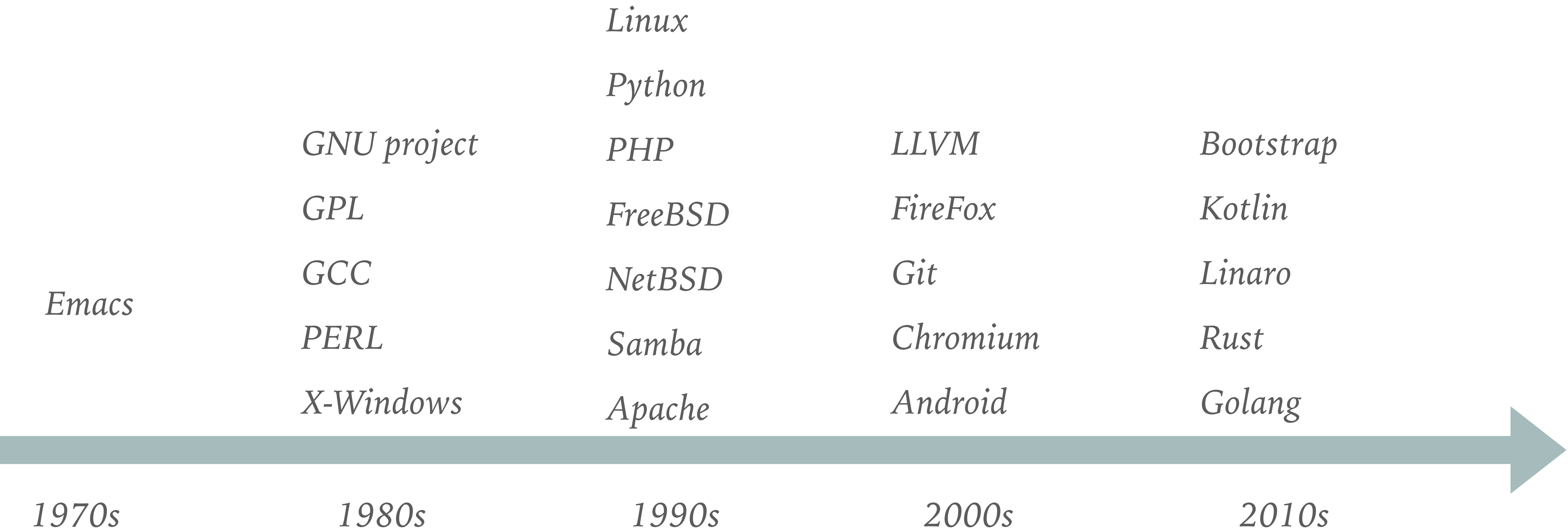
OpenSource Models



ORIGINS

- Sharing Culture from Early days
 - Universities, research organizations
- Public Domain
- Software is needed to keep the lights on
 - needed to use the hardware

RECENT OPENSOURCE SOFTWARE TIMELINE




OPENSOURCE BUSINESS MODELS

- Support
- Dual Licensing
 - Commercial Use
 - Non-commercial use
- Free Data
 - Consumer interacts with service
- Restricted license
- OpenSource Enablement code (tight-core)

OSS BUSINESS MODELS

.....

- Projects are moving away from tight open-core model to a lose-core models

 [caddyserver](#) / [caddy](#)

Watch ▾

704

Star

24.5k

<> Code

🔔 Issues 98

🔗 Pull requests 3

📖 Wiki


🛡 Security

📊 Insights

Proposal: Permanently change all proprietary licensing to open source #2786

🔔 Open

mholt opened this issue 13 days ago · 65 comments





mholt commented 13 days ago • edited ▾


Member + 😊 ...

We (Light Code Labs in partnership with Ardan Labs) have decided that we would like to make all **Caddy code open source and permanently remove all proprietary licensing within the project**, effective as soon as this proposal is accepted.

Assignees

 mholt

 egonzo

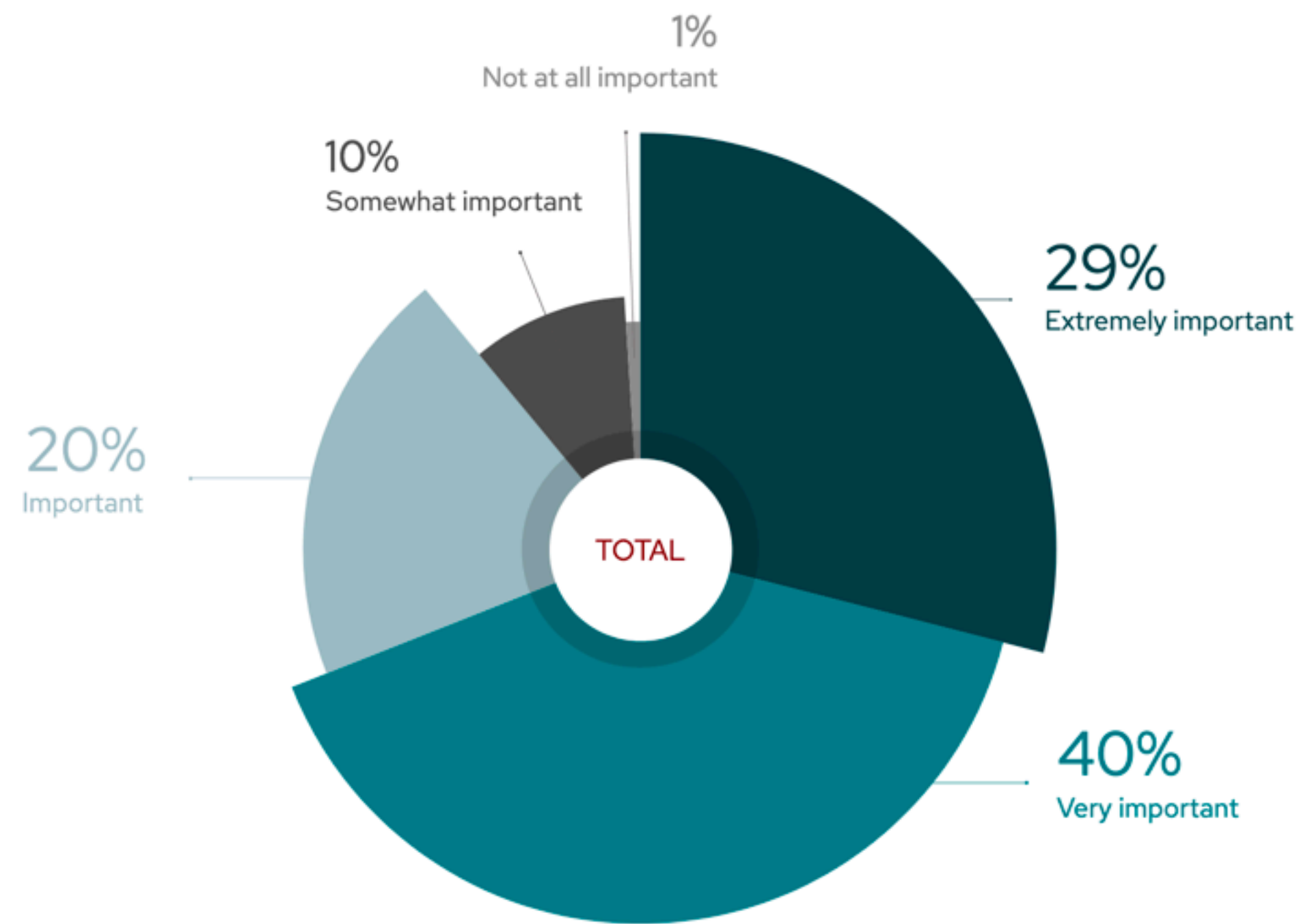
 ardan-bkennedy

WHY CORPORATES CONSIDER OSS

- 2016 Future of OpenSource Survey from Black Duck
 - #1 Better Quality
 - #2 Features
 - #3 Customizability
- 60%+ companies consider OSS before closed source alternatives
- 2017 Future of OpenSource survey from Black Duck
 - 60% companies increased OSS use
 - Low-cost
 - Freedom to make changes

► 2019 Redhat Enterprise OSS Report States

Importance of enterprise open source



33%
Lower total cost of ownership

29%
Access to the latest innovations

29%
Better security

26%
Higher quality software

25%
Access to enterprise-level support

25%
Ability to customize applications



OPEN SOURCE PROGRAM OFFICES

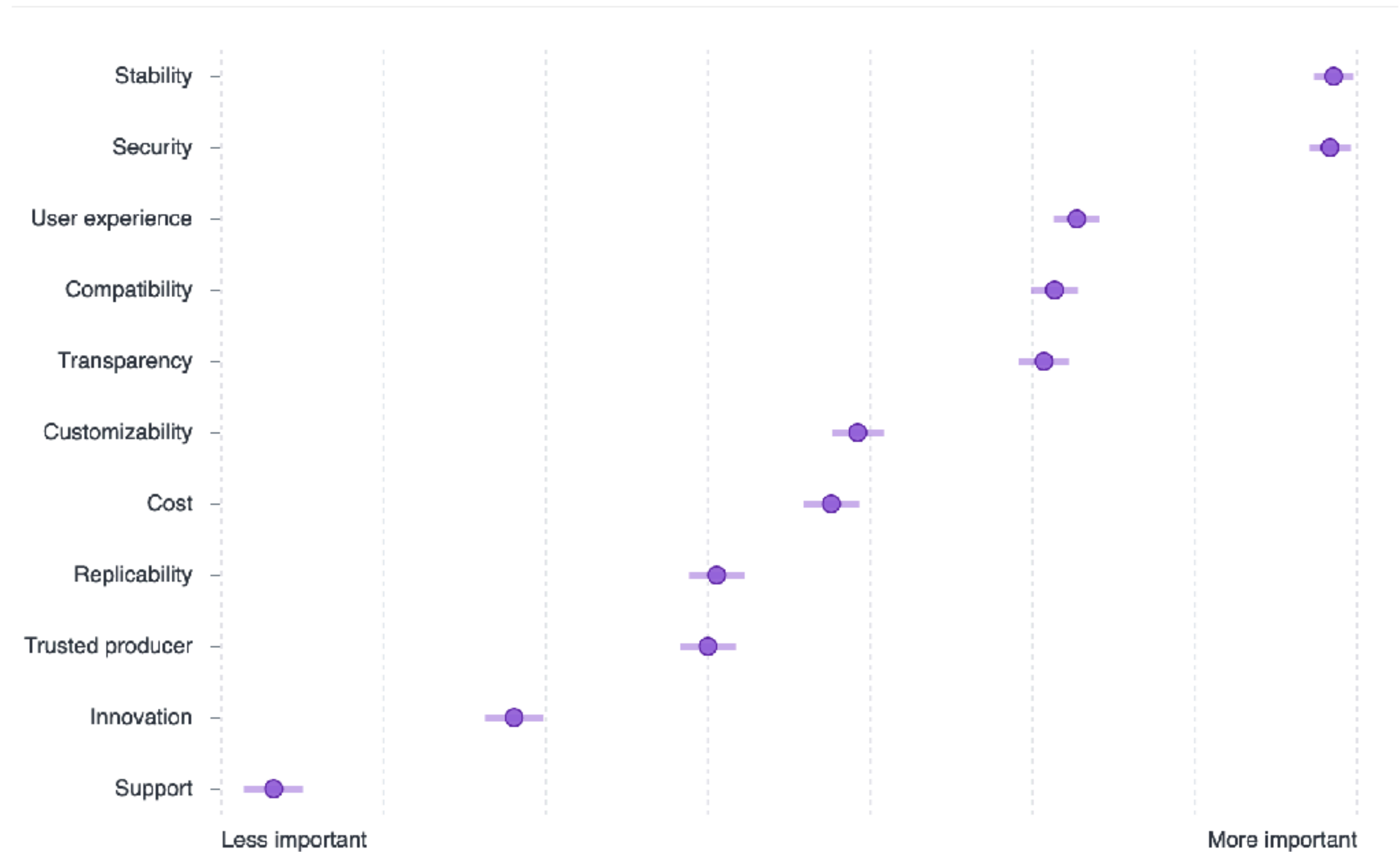
- Leverage External Projects
- Internal education transformation
- Advocates for internal developer communities
- Do not re-invent wheel
- Developer on boarding
- Generate Goodwill
- Feed Strategic projects
- Cultural Fabric

WHAT OSS USERS VALUE

- Stability
- Security
- Transparency
- Customizability

Fig5. - What open source users value in software

Source: opensourcesurvey.org



<https://github.com/github/open-source-survey/>



WHAT OSS USERS VALUE

- Documentation
 - Fosters inclusion
 - Often ignored
- Does not Count on
 - Lack of response
 - Negative Response
 - Conflicts
 - Rejection with out reason
 - Rudeness



WHAT OSS USERS VALUE

- Responsiveness
- License Terms
- Inclusiveness
- Activity
- Contribution Guidelines
- Code of Conduct
- Widely Used

CONTRIBUTOR FUNNEL

USERS

CONTRIBUTORS

MAINTAINERS



FABRIC OF COMMUNITY

- Open source project participants
 - Author
 - Owner
 - Maintainer
 - User
 - Contributors
 - Members

SUSTAIN THE SUSTAINABILITY

- Care for contributors
- Always think about bringing new contributors
- Community over code
- Create and document contribution process and guidelines
- Document Release process
- Establish clear communication channels
 - IRC, mailing lists, forums
- Analytics
- Mentorship
- Nudge towards helping-culture

SUSTAIN THE SUSTAINABILITY

- Free Riders
 - No one notices breakages in infra
 - Remember “Heartbleed”
- Brittle Digital Infrastructure
- Support Individual OpenSource Developer
 - Patreon, License Zero
- Support the project
 - Tidelift, OpenCollective
- Adopt a “give-back” culture

OSS LEADERSHIP



Closer View



its headed in a direction

SEEDS OF CHANGE

What would you like to see most in minix?

349 posts by 321 authors 



Linus Benedict Torvalds



Hello everybody out there using minix -

I'm doing a (free) operating system (just a hobby, won't be big and professional like gnu) for 386(486) AT clones. This has been brewing since april, and is starting to get ready. I'd like any feedback on things people like/dislike in minix, as my OS resembles it somewhat (same physical layout of the file-system (due to practical reasons) among other things).

I've currently ported bash(1.08) and gcc(1.40), and things seem to work. This implies that I'll get something practical within a few months, and I'd like to know what features most people would want. Any suggestions are welcome, but I won't promise I'll implement them :-)

Linus (torv...@kruuna.helsinki.fi)

PS. Yes - it's free of any minix code, and it has a multi-threaded fs. It is NOT protable (uses 386 task switching etc), and it probably never will support anything other than AT-harddisks, as that's all I have :-).

“

How old was youngest kernel contributor ?

4

author  Maisa Roponen <maisa.roponen@gmail.com> 2014-11-24 09:54:17 +0200
committer  Jonathan Corbet <corbet@lwn.net> 2014-11-24 07:40:35 -0700
commit [690b0543a813b0ecfc51b0374c0ce6c8275435f0](#) (patch)
tree [afff985a0c48f307ae3752735eb6aa7d1da5c649](#)
parent [1f999d14fc7f772fbdd19151ebe5ee081f53dd49](#) (diff)
download [linux-690b0543a813b0ecfc51b0374c0ce6c8275435f0.tar.gz](#)

Documentation: fix formatting to make 's' happy

"That letter [the last s] is sad because all the others
have those things [=] below them and it does not."

This patch fixes the tragedy so all the letters can
be happy again.

Signed-off-by: Maisa Roponen <maisa.roponen@gmail.com>
[The author being 4 years old needed some assistance]
Signed-off-by: Tero Roponen <tero.roponen@gmail.com>
Signed-off-by: Jonathan Corbet <corbet@lwn.net>

HONE YOUR SKILLS

Joining the [redacted] team ➡ [redacted]   



[redacted] >

to me ▼

Hi [redacted]

Aug 22, 2019, 3:21 PM   

I hope this email finds you well. I'm [redacted], CTO and founder of [redacted], we had briefly interacted on an old WPE issue[1]. I've been noticing your work for a while now and have heard a lot of great things about you from our current team. Your work on meta-raspberrypi, meta-riscv, meta-wpe, and others is extremely aligned with what we're building [redacted] We'd love to be the first people to support [redacted] platform!

ALL HANDS ON DECK



Mothership

OSS MODELS ARE GOING EVERYWHERE

- Open Hardware
 - Arduino
- Open Chips
 - RISC-V
 - OpenPOWER
- Open Data
 - Open Energy Data Initiative
 - Governments

INNOVATION TIPPING POINT

Then



Now



Journey from Followers to trailblazers

THANK YOU FOR YOUR ATTENTION