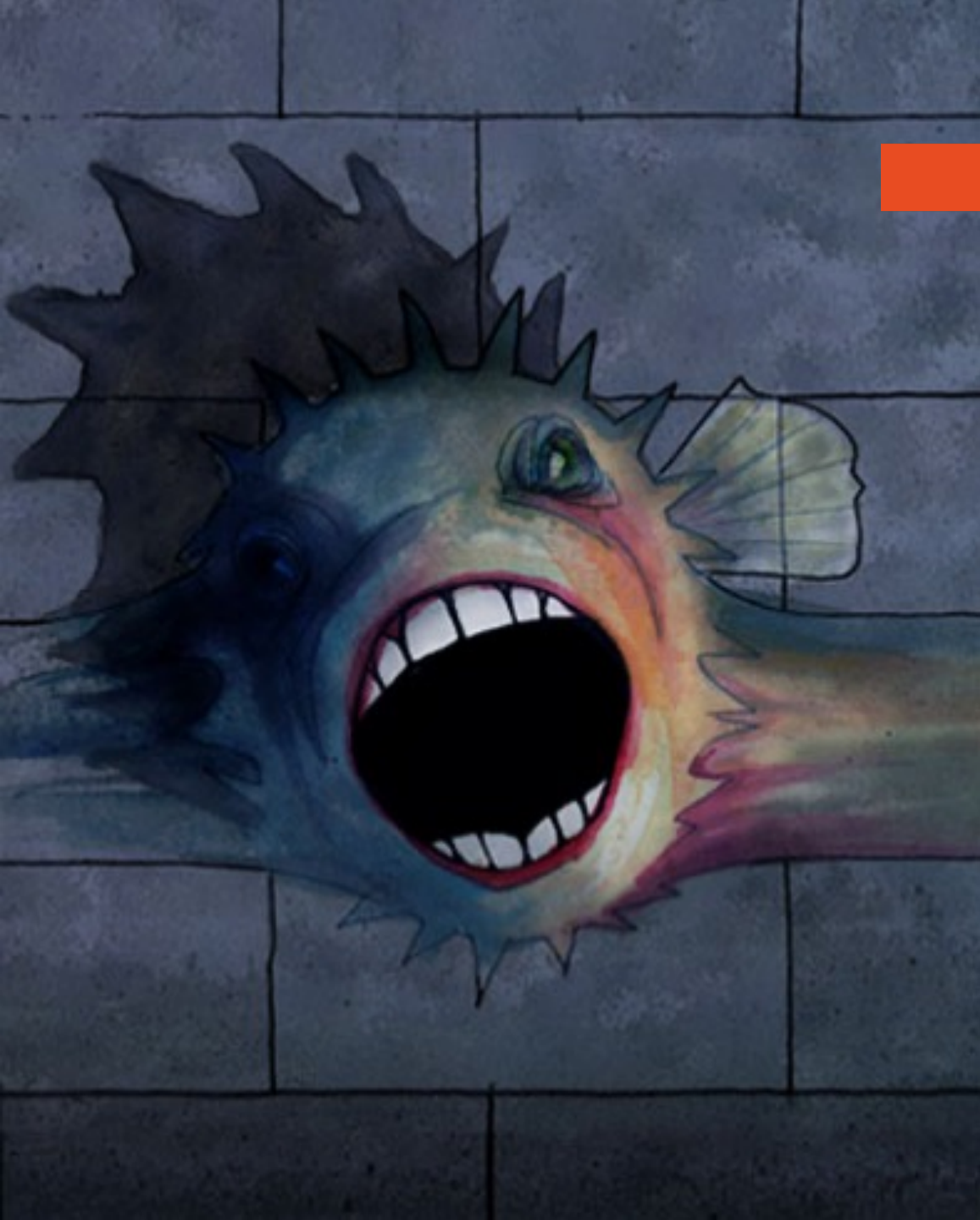


OPENBSD PACKAGES

**EXPERIENCE AS MAINTAINER
500 LIBS & APPS MADNESS**



whoami(1)

DON'T BE JUST ANOTHER BRICK IN A WALL

rafael.sadowski@computacenter.com

rsadowski@openbsd.org

rs@rsadowski.de

rs@sizeofvoid.org

@Nürnberg

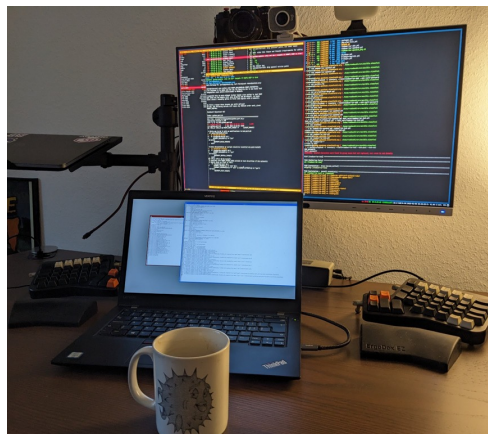


AGENDA



OpenBSD
SHUT UP AND HACK

The OpenBSD project produces a FREE, multi-platform 4.4BSD-based UNIX-like operating system.



Maintaining packages
COMPILE ERROR EVERYWHERE

The more you give it away, the more it comes back



OpenSource
COMMUNITIES AND RELEASES

In real open source, you have the right to control your own destiny.



OPENBSD

- **FREE**, multi-platform 4.4BSD-based UNIX-like **operating system**
- amd64, arm64, arm, i386, mipse64 powerpc, powerpc64, riscv64, sparc64
- -release, -stable, -current



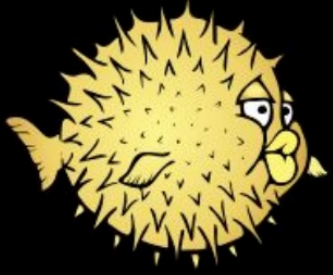
OPENBSD - PROJECT GOALS

- "Try to be the **#1 most secure** operating system."
- Provide the best possible **development platform**.
- Only use software that is subject to free licenses.
- Standards (ANSI, POSIX, parts of X/Open, etc.)
- Policy-free for this technical decisions.
- Releases at regular intervals ~6 months.

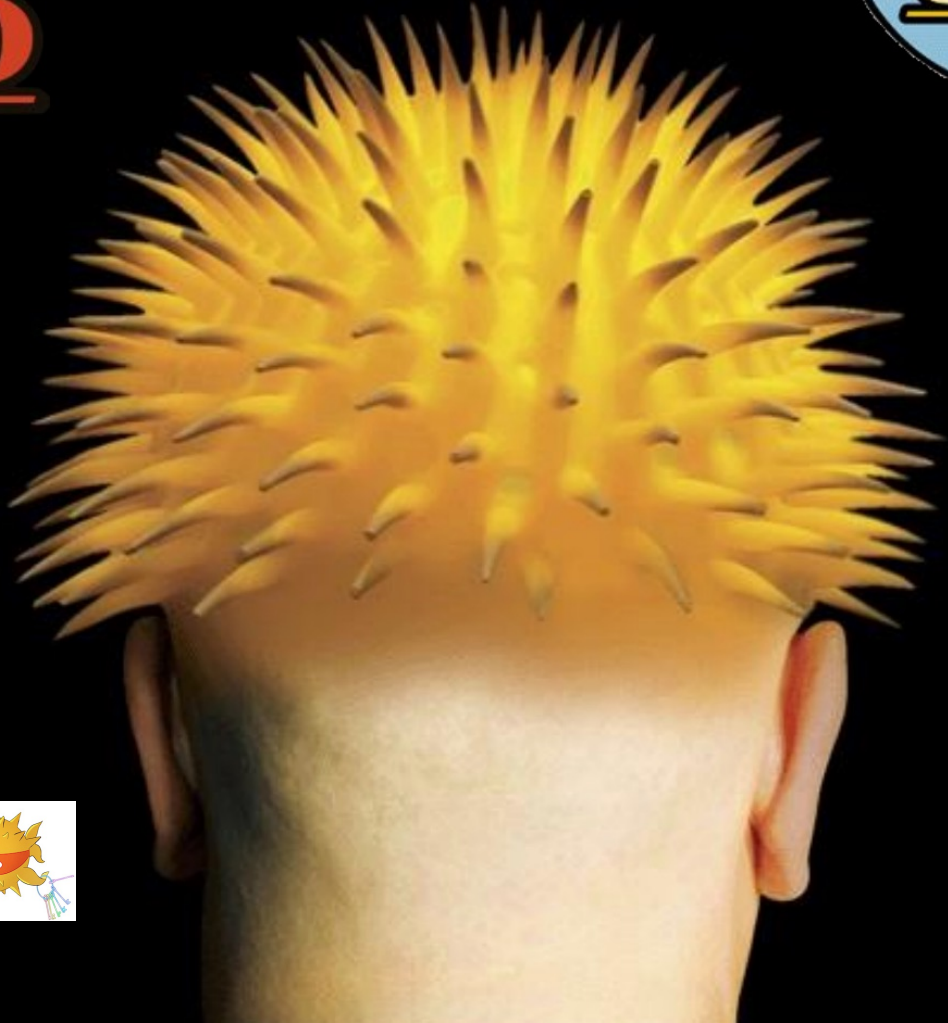


OPENBSD – NICE TO KNOW

- Theo de Raadt - Team leader and motivator
- ~80 Developer
- OpenBSD Foundation
- Sub system driven ownership
- Disconnected releases and packages
- No cross-compiling
- Evolution instead of revolution



OpenBSD



...and more

SHOULD I USE?

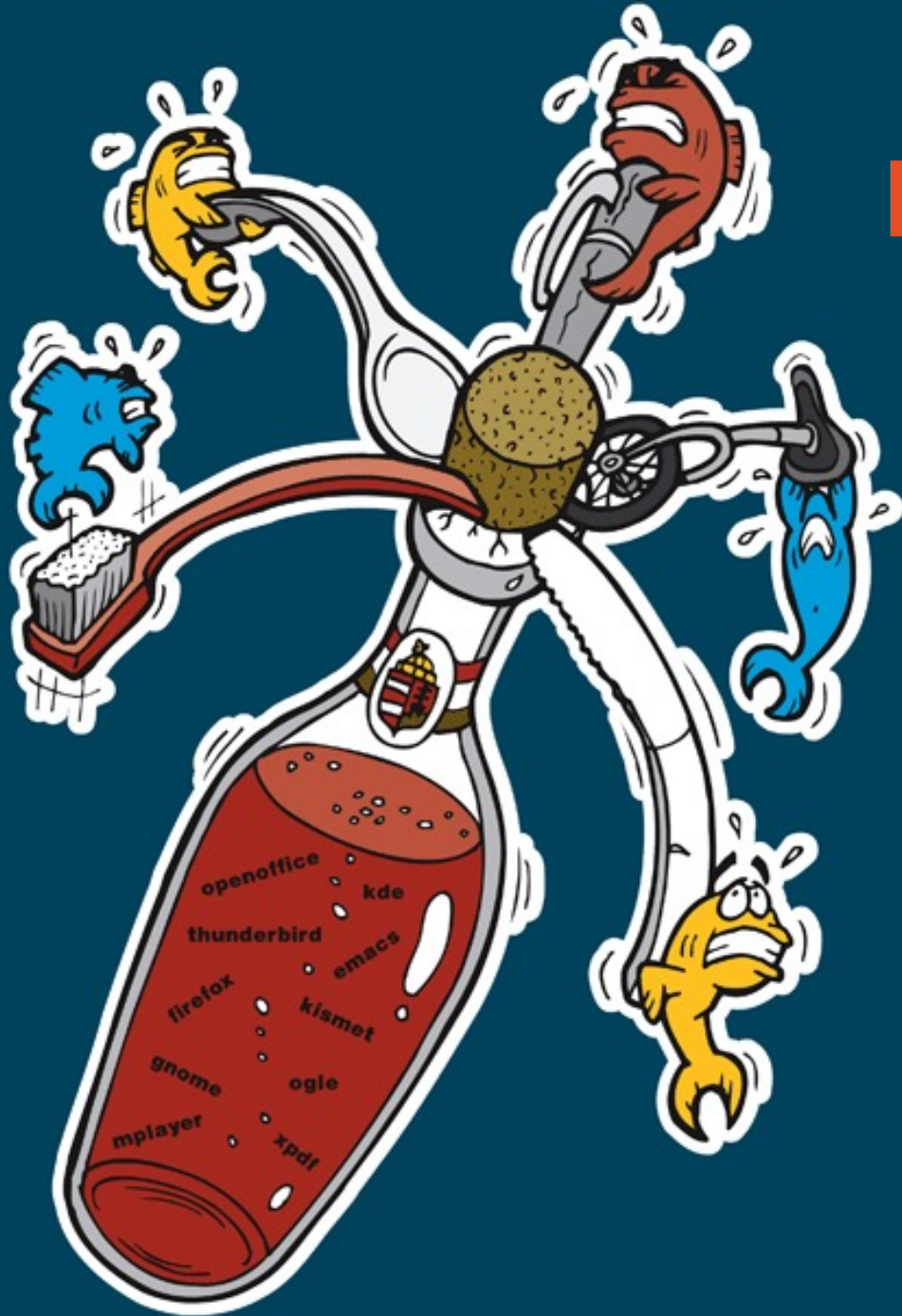
PROS

- Packet Filter : super awesome firewall
- Sane defaults : you install, it works, no tweak
- Stability : upgrades go smooth and are easy
- OpenBSD (security) innovations
- Server and desktop ENV
- New and stable packages
- Lot of in-house development

VS

CONS

- Has only FFS file system, which is slow and has no "feature"
- No bluetooth support
- No USB3 full speed performance
- No VM guest additions
- No nvidia support (nvidia's fault)
- No container / docker / jails
- Poor FUSE support (it crashes quite often)



MAINTAINING PACKAGES

- The OpenBSD way of packages / ports
- My work-flow
- Ask the (social) internet



packages(7) / ports(7)

THE MORE YOU GIVE IT AWAY, THE MORE IT COMES BACK

Doxygen



Way of hacking -
misc@, bugs@,
@ports, tech@

...

	Del	Undel	Save	m:Mail	r:Reply	g:Group	?:Help
				8523	1 - 24.02.23 20:46	joshua stein	(32) [new] x11/tpadnav
					2 - 24.02.23 19:32	Gonzalo L. Rodriguez	(48K) UPDATE: Nextcloud-25.0.4
					3 - 24.02.23 19:31	Gonzalo L. Rodriguez	(8.1K) UPDATE: Nextcloud-24.0.10
					4 - 24.02.23 17:54	Renato Aguiar	(19K) [new] devel/rust-analyzer
					5 N 25.02.23 10:40	Sebastien Marie	(3.0K) ↳
					6 N 24.02.23 23:26	Hukadan	(2.5K) ↳
					7 N 24.02.23 18:36	aisha	(3.4K) ↳
					8 N 25.02.23 09:27	Stuart Henderson	(3.8K) ↳
					9 N 25.02.23 09:26	Stuart Henderson	(3.8K) ↳
					10 - 24.02.23 16:36	Renato Aguiar	(53) [update] databases/timescaledb
					11 - 24.02.23 15:35	Manuel Giraud	(42) [update] Iosevka font
					12 - 24.02.23 12:30	A Tammy	(45) ↳
					13 - 24.02.23 08:59	aisha	(157) [update] www/vaultwarden-web to 202
				4284	14 - 24.02.23 02:14	Daniel Dickman	(6.1K) patch py-httpbin so werkzeug can be
				12	15 - 24.02.23 10:19	Stuart Henderson	(5.3K) ↳
				297/866	16 - 23.02.23 13:37	kmos@openbsd.org	(1265) sparc64 bulk build report
				115/208	17 - 23.02.23 16:29	Theo Buehler	(45) On the remaining syscall(2) or __sy
				466/834	18 - 23.02.23 11:58	Stuart Henderson	(20) Re: go syscall/error/ioctl numbers
				337/609	19 - 23.02.23 09:31	Laurence Tratt	(50) Rust ring crate crash (noexec?)
				152/1341	20 - 23.02.23 10:37	Theo Buehler	(13) ↳
				1232	21 - 23.02.23 09:44	Laurence Tratt	(14) ↳
				1/2013	22 - 23.02.23 00:04	Matthias Kilian	(894) lang/ghc: new bootstrap
				182	23 - 22.02.23 20:28	Greg Steuck	(72) ↳
					24 - 22.02.23 14:45	jca@wxcvbn.org	(109) riscv64 bulk build report
					25 - 22.02.23 19:07	Markus Uhlin	(55) update: net/swirc 3.4.1 -> 3.4.2 (b
					26 N 22.02.23 23:09	Frederic Cambus	(3.6K) ↳
					27 - 22.02.23 16:30	Antoine Jacoutot	(189) [update] libusb1-1.0.26
					28 N 22.02.23 10:22	Ryan Kavanagh	(3.6K) [new] devel/p5-ExtUtils-LibBuilder
					29 r 22.02.23 11:23	Moritz Buhl	(4.6K) [Update] devel/codechecker to 6.21.
					30 - 22.02.23 00:16	Christian Weisgerber	(3.7K) [naddy: Re: shorten: chars not long
					31 - 21.02.23 23:24	Hukadan	(46K) [maintainer] bug in www/gotosocial
					32 - 22.02.23 08:49	Stuart Henderson	(37K) ↳
					33 - 22.02.23 12:47	Hukadan	(39K) ↳
					34 - 22.02.23 12:33	Stuart Henderson	(42K) ↳
					35 N 22.02.23 16:24	Hukadan	(41K) ↳
					36 - 21.02.23 20:38	Stuart Henderson	(1450) graphviz update
					37 N 24.02.23 22:08	Edd Barrett	(3.1K) ↳
					38 - 21.02.23 12:05	phessler@openbsd.org	(3.0K) aarch64 bulk build report
					39 - 21.02.23 18:38	Jan Stary	(4.4K) shorten: chars not longs for ulaw
					40 - 21.02.23 18:42	Jan Stary	(4.7K) ↳
					41 - 21.02.23 15:34	Antoine Jacoutot	(5.6K) [NEW] py3-gssapi-1.8.2
					42 - 21.02.23 11:57	Kurt Mosiejczuk	(2.5K) ↳
					43 - 21.02.23 07:08	wen heping	(10K) [Maintainer Update]devel/p5-CPAN-Pe
					44 - 21.02.23 20:20	Alexander Bluhm	(3.7K) ↳
					45 - 21.02.23 06:59	wen heping	(10K) [Maintainer update]mail/p5-Mail-Aut
					46 - 20.02.23 20:09	Edward Ahlsen-Girard	(45K) Firefox won't run under 7.2-current
					47 - 20.02.23 20:07	Edward Ahlsen-Girard	(725) keepassxc will not run under OpenBS
					48 - 21.02.23 08:19	Stuart Henderson	(732) ↳

```
6.02.23 14:25 Morgan Aldridge (291) →Re: UPDATE: Suricata-6.0.10
6.02.23 17:45 Klemens Nanni ( 91) databases/evolution-data-server: unbreak
6.02.23 18:55 Antoine Jacoutot (117) ↳
6.02.23 19:10 Klemens Nanni ( 97) ↳↳
7.02.23 01:09 Antoine Jacoutot (104) ↳↳↳
6.02.23 18:06 Gonzalo L. Rodriguez ( 43) UPDATE: Gource-0.54
6.02.23 19:33 Omar Polo ( 17) ↳
6.02.23 18:03 Gonzalo L. Rodriguez ( 52) UPDATE: Logstalgia-1.1.4
3.02.23 11:12 Kirill Bychkov (4.1K) ↳
6.02.23 15:34 Renaud Allard (221) [update] net/synapse 1.76.0
6.02.23 14:16 Klemens Nanni (360) devel/cmake: handle ALL_TARGET, obsolete
6.02.23 17:17 Klemens Nanni (366) ↳
9.02.23 10:29 Theo Buehler ( 7) ↳↳
6.02.23 10:49 Theo Buehler (14) Re: [patch] update math/igraph to 0.9.10
6.02.23 09:41 Klemens Nanni ( 90) geo/mapserver: fix build after abseil up
6.02.23 11:08 Landry Breuil ( 30) ↳
6.02.23 11:10 Theo Buehler ( 6) ↳↳↳
6.02.23 11:17 Landry Breuil ( 9) ↳↳↳↳
6.02.23 11:31 Landry Breuil (22) ↳↳↳↳↳
6.02.23 11:15 Klemens Nanni (18) ↳↳↳↳↳↳
6.02.23 12:17 Antoine Jacoutot (24) ↳↳↳↳↳↳↳
6.02.23 11:08 Antoine Jacoutot (100) ↳↳↳↳↳↳↳↳
6.02.23 08:16 Laurence Tratt ( 30) Update fonts/juliamono
6.02.23 09:53 Omar Polo ( 8) ↳
6.02.23 08:06 Stefan Hagen ( 80) [maintainer-update] mail/mu 1.8.13 to 1.8
6.02.23 09:43 Omar Polo (29) ↳
6.02.23 08:39 Maksim Rodin (49) sogo does not log real ip of the client
6.02.23 07:56 Zé Loff (58) ↳↳
6.02.23 11:32 Maksim Rodin (73) ↳↳↳
6.02.23 10:04 Zé Loff (97) ↳↳↳↳
6.02.23 14:07 Maksim Rodin (11K) ↳↳↳↳↳
6.02.23 12:49 Zé Loff (12K) ↳↳↳↳↳↳
6.02.23 07:17 Rafael Sadowski (222) UPDATE: grantlee-qt5-5.3.1
6.02.23 09:58 Klemens Nanni (23) ↳
6.02.23 12:29 Rafael Sadowski (11K) ↳↳
6.02.23 17:55 Thomas Frohwein (776) update for vulkan to latest sdk 1.3.239.0
4.02.23 15:54 Jonathan Gray (36K) ↳
6.02.23 21:12 Klemens Nanni ( 59) productivity/libphonenum: sync abseil
6.02.23 08:51 Antoine Jacoutot (67) ↳
6.02.23 21:09 Rafael Sadowski (115) UPDATE: p5-Image-ExifTool-12.55
6.02.23 17:58 Alexander Bluhm (123) ↳
7.02.23 21:42 Rafael Sadowski (23) ↳↳
6.02.23 21:54 Alexander Bluhm (27) ↳↳↳
7.02.23 21:59 Rafael Sadowski (113) ↳↳↳↳
8.02.23 00:13 Alexander Bluhm ( 93) ↳↳↳↳↳
6.02.23 20:35 Rafael Sadowski (430) UPDATE: xpdf-4.04
6.02.23 20:38 Rafael Sadowski (438) ↳↳
6.02.23 10:45 Omar Polo (27) ↳↳↳
6.02.23 11:03 Theo Buehler (36) ↳↳↳↳
6.02.23 11:24 Klemens Nanni (19) ↳↳↳↳↳
6.02.23 18:35 Stuart Henderson (11) ↳↳↳↳↳↳
7.02.23 09:28 Edd Barrett (13) ↳↳↳↳↳↳↳
7.02.23 09:35 Stuart Henderson (18) ↳↳↳↳↳↳↳↳
7.02.23 13:41 Klemens Nanni ( 7) ↳↳↳↳↳↳↳↳
7.02.23 09:45 Edd Barrett (19) ↳↳↳↳↳↳↳↳↳
6.02.23 15:24 Christian Weisgerber (31) ↳↳↳↳↳↳↳↳↳
6.02.23 20:09 Matthias Kilian (43) ↳↳↳↳↳↳↳↳↳↳
6.02.23 12:31 Rafael Sadowski (2.4K) ↳↳↳↳↳↳↳↳↳↳↳
```

WAY OF HACK(ING)

1. misc@, bugs@, @tech, ports@
2. mailinglist, chat (invitation)
3. Ok? Ok! - four-eyes principle
4. Commit (CVS)
5. Take care

OK?

```
From: Rafael Sadowski <rafael@sizeofvoid.org>
Date: Mon, 6 Feb 2023 07:17:58 +0100
Subject: UPDATE: grantlee-qt5-5.3.1
To: The OpenBSD ports mailing-list <ports@openbsd.org>
```

Update grantlee-qt5 to 5.3.1. All consumers built without issues
OK with bump consumers because of the shared lib path change in PLIST?

Rafael

Index: x11/grantlee-qt5/Makefile

```
=====
RCS file: /cvs/ports/x11/grantlee-qt5/Makefile,v
retrieving revision 1.12
diff -u -p -r1.12 Makefile
--- x11/grantlee-qt5/Makefile    28 May 2022 06:20:03 -0000    1.12
+++ x11/grantlee-qt5/Makefile    6 Feb 2023 06:15:08 -0000
@@ -1,16 +1,15 @@
-COMMENT =                template and text document library for Qt5
+COMMENT =                template and text document library for Qt5

-VERSION =                5.2.0
-PKGNAME =                grantlee-qt5-`${VERSION}`
-DISTNAME =                grantlee-`${VERSION}`
-REVISION =                2
+V =                    5.3.1
+PKGNAME =                grantlee-qt5-`${V}`
+DISTNAME =                grantlee-`${V}`

-SHARED_LIBS += Grantlee_Templates    1.0 # 5.1
-SHARED_LIBS += Grantlee_TextDocument 0.0 # 5.1
+SHARED_LIBS += Grantlee_Templates    1.1 # 5.1
+SHARED_LIBS += Grantlee_TextDocument 0.1 # 5.1

-CATEGORIES =                devel x11
+CATEGORIES =                devel x11

-HOMEPAGE =                https://github.com/steveire/grantlee
+HOMEPAGE =                https://github.com/steveire/grantlee

# LGPLv2.1
PERMIT_PACKAGE =                Yes
@@ -18,21 +17,18 @@ PERMIT_PACKAGE =                Yes
WANTLIB +=                `${COMPILER_LIBCXX}` Qt5Core Qt5Gui Qt5Network Qt5Qml
WANTLIB +=                c m
```

OK! COMMIT

```
From: Rafael Sadowski <rsadowski@cvs.openbsd.org>
Date: Thu, 9 Feb 2023 14:02:39 -0700 (MST)
Subject: CVS: cvs.openbsd.org: ports
To: ports-changes@cvs.openbsd.org

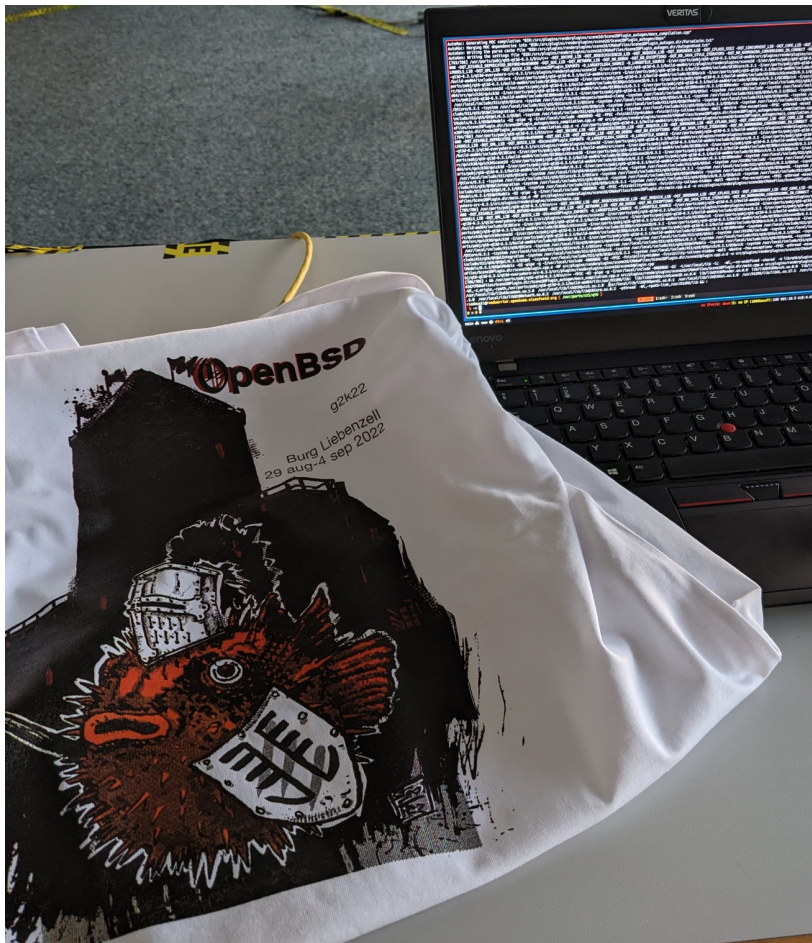
CVSR00T:      /cvs
Module name:  ports
Changes by:   rsadowski@cvs.openbsd.org      2023/02/09 14:02:39

Modified files:
  x11/grantlee-qt5: Makefile distinfo
  x11/grantlee-qt5/pkg: PLIST
  x11/kde-applications/grantleetheme: Makefile
  x11/kde-applications/grantleetheme/pkg: PLIST
  x11/kde-applications/kcalutils: Makefile
  x11/kde-applications/kcalutils/pkg: PLIST

Log message:
Update x11/grantlee-qt5 to 5.3.1 and bump/regen consumers


Feedback from kn@
```

WAY OF HACKING - OPENBSD HACKATHONS



DAILY WORK #1

Feed for rsadowski@openbsd.org in **OpenBSD Ports**

This feed is also available in [atom](#)  format

[Enable](#) autorefresh.

Date	Event
2023-02-25 05:17	breeze 5.27.1 is now up to date
2023-02-25 05:17	breeze-grub 5.27.1 is now up to date
2023-02-25 05:17	breeze-gtk 5.27.1 is now up to date
2023-02-25 05:17	kdecoration 5.27.1 is now up to date
2023-02-25 05:17	netbeans 17 is now up to date
2023-02-25 05:17	oxygen 5.27.1 is now up to date
2023-02-23 17:50	netbeans 16 is outdated by 17
2023-02-23 05:54	jenkins 2.392 is now up to date
2023-02-21 19:30	breeze-grub 5.27.0 is outdated by 5.27.1
2023-02-21 18:36	jenkins 2.391 is outdated by 2.392
2023-02-21 15:27	breeze 5.27.0 is outdated by 5.27.1
2023-02-21 15:27	breeze-gtk 5.27.0 is outdated by 5.27.1
2023-02-21 15:27	kdecoration 5.27.0 is outdated by 5.27.1
2023-02-21 15:27	oxygen 5.27.0 is outdated by 5.27.1
2023-02-21 05:03	attica 5.103.0 is now up to date

<https://repology.org/>

DAILY WORK #1

Repository **OpenBSD Ports**

[Enable autorefresh.](#)

Links

- [OpenBSD FAQ: Packages and Ports](#)
- [openports.pl](#)
- [OpenBSD ports CVS repository](#)

Packages

Total	Newest	Outdated	Ignored
11558	6637	3402	46

Projects

Total	Newest	Outdated	Unique
8944	5599	2470	715

<https://repology.org/>

DAILY WORK #2


Maintainer **rsadowski@openbsd.org**

Contact

- E-Mail: rsadowski@openbsd.org

Repository activity

Projects

Repository	Packages	Total	Newest	Outdated	Problematic	Potentially vulnerable	Other lists	Feeds
OpenBSD Ports	499	354	347 98.0%	7 2.0%	-	1 0.28%	HCO LN * U Problems	html , atom 
Total	499	354	347 98.0%	7 2.0%	-	1 0.28%	HCO LN * U	

<https://repology.org/>

ASK THE INTERNET



Rafael Sadowski

@sizeofvoid



I will give a talk about the topic "OpenBSD Packages - Experiences as maintainer of 500 Apps" at the [#CLT @clt_news](#). If you were in this talk, what questions would you like answered? What topics would you like to hear about? Thanks in advance!

8:10 PM · Feb 22, 2023 · **1,207** Views

ASK THE INTERNET (1/4)



Joel Carnat  @jcarnat · Feb 22



Replying to [@sizeofvoid](#) and [@clt_news](#)

What's the **daily/weekly/any routine** to keep the packages up-to-date. What are the sources for **security warnings/updates**. What's the required **infrastructure** to maintain/update the packages (like -stable and/or -current only ; how many different architecture).



2



4



119



Joel Carnat  @jcarnat · Feb 22



Replying to [@jcarnat](#) [@sizeofvoid](#) and [@clt_news](#)

Also, how complicated is it to **deal with multiple libraries/dependancies** version (think php, python, qt).



1



41



ASK THE INTERNET (2/4)



Hidden Agenda Ltd @hiddenagendaltd · Feb 23



Replying to [@sizeofvoid](#) and [@clt_news](#)

How to create and/or maintain OpenBSD packages. So if I find something not working I can send a fix. If I want something packaging I can create one and become the maintainer.



20



ASK THE INTERNET (3/4)



K Chadwick mastodon @kevlar700@ioc.exc... @Astart... · Feb 23 ...

Replying to @sizeofvoid and @clt_news

Why debian has held packages that can break the system but OpenBSD just updates a few days later.



2



49



ASK THE INTERNET (4/4)



iG® @igC2AE · Feb 24



Replying to [@sizeofvoid](#) and [@clt_news](#)

One is **motivated to participate** as a new maintainer as a member of a team or as an individual. **Which app to look at,** how to approach and where to start? I am suitable for any type of maintenance work and if not **how to skill up?**



4



OPEN SOURCE

- Ecosystem
- Modern new world
- Software release life cycle and dependencies





ECOSYSTEM

IN REAL OPEN SOURCE, YOU HAVE THE RIGHT TO CONTROL YOUR OWN DESTINY.

- GitHub, GitLab (Anti Anti Social Club)
- Public cloud, CNCF
- More diversification
 - Go, Rust, JS/TS
- It's (all) about the money




OPEN-BSD

Berlin Germany October 17-21 2013

MODERN NEW WORLD

- Public cloud, CNCF
- Modern languages environments
 - Cargo, NPM
 - Dependencies
- SystemD
- Udev, LibInput, Libevdev

Unsaved* — Spectacle



Capture Mode

Area: Full Screen


Delay: No Delay On Click

Options

- Include mouse pointer
- Include window titlebar and borders
- Capture the current pop-up only
- Quit after manual Save or Copy

Take a New Screenshot

Monument (5.1 mix) — Elisa



Monument (5.1 mix)
Depeche Mode
A Broken Frame

0:09 3:16

Now Playing

Track Number: 3
Disc Number: 3
Rating: ☆☆☆☆☆
Genre: Alternative
Year: 2006
Channels: 2
Bit Rate: 569 kbit/s
Sample Rate: 44.1 kHz
Last played: 8/16/22
Play count: 3
Duration: 03:16

No lyrics found

Playlist

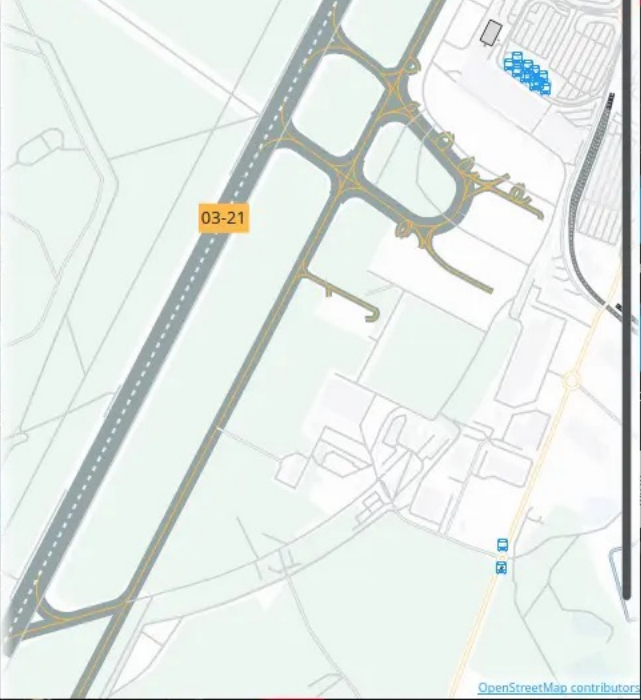
- A Broken Frame Depeche Mode
- 3 Monument (5... 03:16
- 6 Satellite (5.1 m... 04:44
- 9 Shouldn't Have... 03:23
- A Question of Lust [C... Depeche Mode
- 1 A Question of ... 04:29
- 4 People Are Pe... 04:23
- 6 A Question of ... 06:47

14 tracks (13 remaining)

KDE Itinerary

Floor 0

Zoom In Zoom Out



03-21

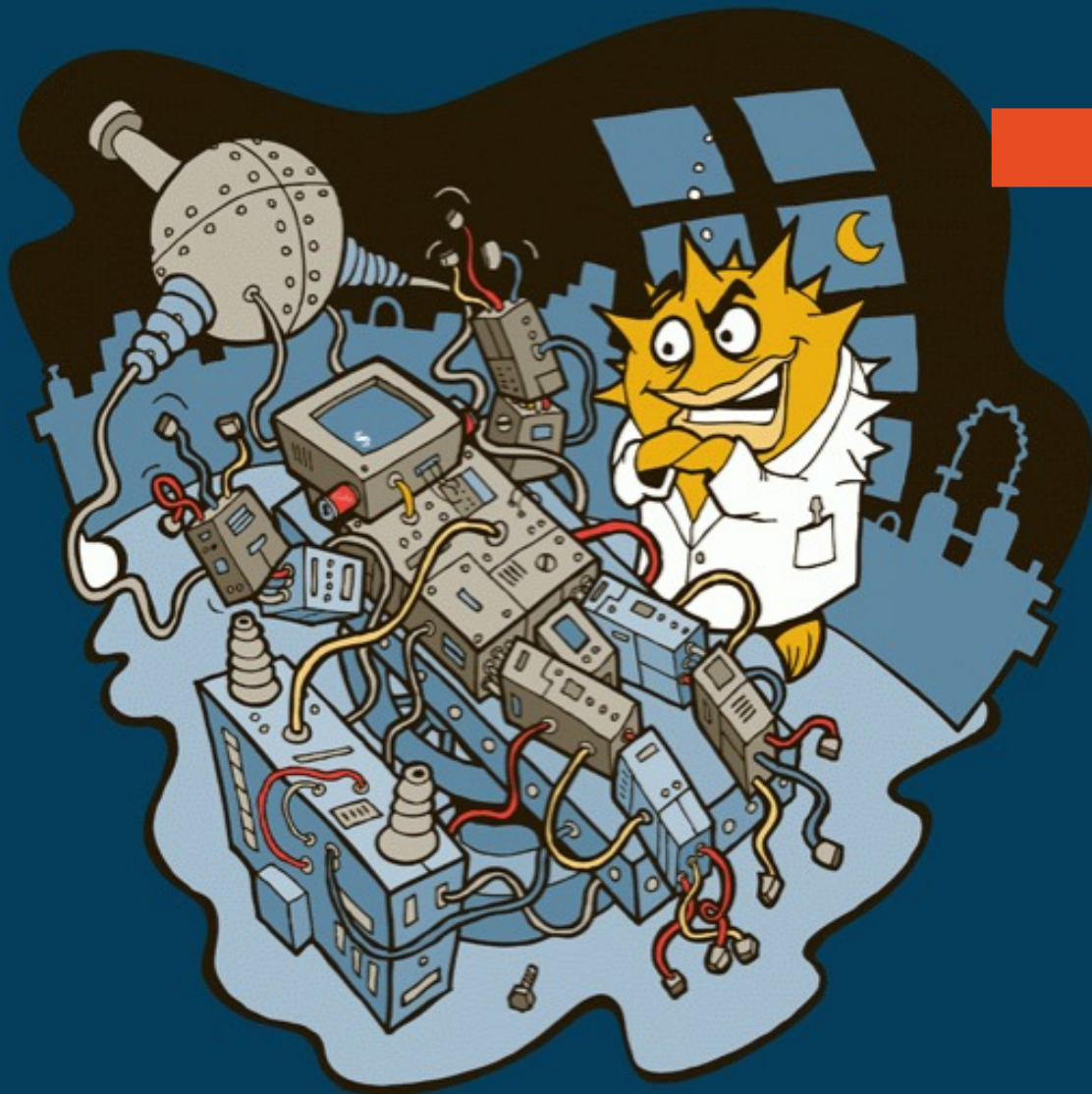
40 Files (32.8 MiB) Zoom: 171.2 GiB free 7 Folders...(9.5 KiB) Zoom:



b2kl6
OPEN SOURCE
PORTS HACKATHON
BUDAPEST HUNGARY
OCT 31 - NOV 5 2011

THE SOFTWARE DEVELOPMENT LIFECYCLE (SDLC)

- KDE {Gear, Plasma} releases ...
- Open Source release cycle going faster
- Bleeding edge open source packages
- Dependency interplay risks



SHUT UP AND HACK

- They called it "**BSD**"! And "**Open**" because **it's always free**
- It is a lot of work to keep package up-to-date!
- **As a developer:** have the distribution of packages in mind
- **As a user:** Support your project (*BSD, GNU/Linux Application)
- Let's talk and exchange
 - rsadowski.de / sizeofvoid.org
 -   

IT'S ALIVE!!!