



April 2026 • Grenoble, France

Xen Spring Meetup 2026

Cody Zuschlag

Xen Project Community Manager

xenproject.org



Welcome to **Xen**
Spring Meetup 2026!



**Driving
virtualization
forward.**

Special thank you to
our **Hosting Sponsors!**

VATES



Thank you to our
Supporting Sponsors!



RENESAS

HONDA
The Power of Dreams

Special thank you to
Linux Foundation!



Welcome



Important information

- Breaks with coffee and drinks
 - Check out the demos!
- [Schedule](#)
- Recordings ASAP
- [Code of Conduct](#)
 - Be nice
 - Contact me or Eddie



Design Sessions

How it works

- <https://design-sessions.xenproject.org/>
- Submit and Vote (**end-of-day today**)
- Nominate a host
- Zoom
- *Validation code: GreXEN26*



Dinner

Join us

- [Pachamama](#)
- Thursday @ 6:00pm - 11:00pm
- [Google Maps](#)
- Please use tram or share uber
- No badges required
- Buffet
- Open bar!





Have a great meetup!

Questions? Concerns?

Email: community.manager@xenproject.org

Telephone/Text/WhatsApp/Signal: **+33 7 86 65 94 37**



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2026Q1 Weather Report

Cody Zuschlag

Xen Project Community Manager

xenproject.org



Cody Zuschlag

Xen Project **Community Manager**
IUT **University Instructor**



devrel.codyfactory.eu



[cody-zuschlag](#)



[@codyzus](#)



X ME

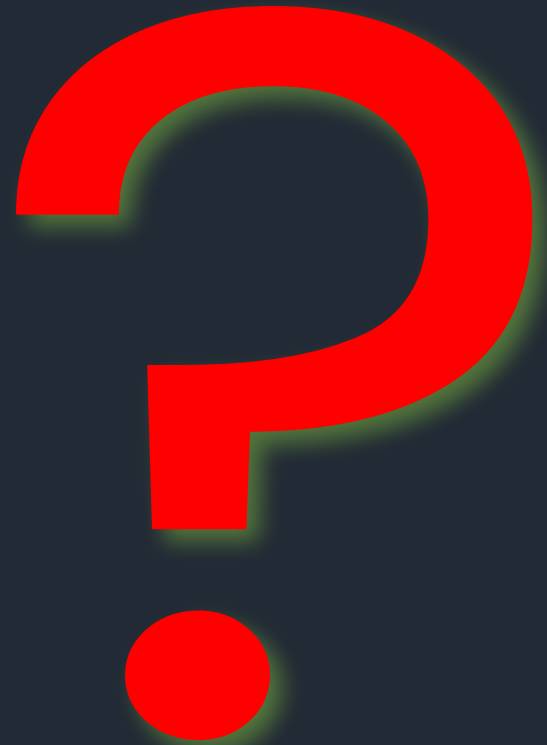
ject

But really, **whoami**

History

- Background in HW & FW
- NodeJS + JS
- OSS + Ally
 - Open JS + FINOS Ambassador
- Joined the project in February 2025
- Community Manager in March 2025

?



X ME

ject

My goals

As your community manager, I want to...

- Grow the community
- Make an inclusive community
- Grow our membership
- Bring Xen to new places!
- Modernize the project



What is Xen?



In case you missed it

- Opens Source Hypervisor (Linux Foundation)
- Member funded
- True Type 1 Hypervisor
- Adaptable (Dom0 vs Dom0less)
 - Datacenter
 - Automotive
 - Industrial/Embedded
 - Consumer



It's 2026.

It's 2026.
Why Xen?

Architecture matters

Xen provides

- One hypervisor, many verticals
 - cloud, automotive, industrial, consumer
- Lean, secure, reliable by design
- Neutral governance
 - Linux Foundation, community-driven



Design Choices

Type 1

- Purpose-built grid
- Direct routes, easy to scale
- Built for cars from the ground up



Design Choices

Type 2

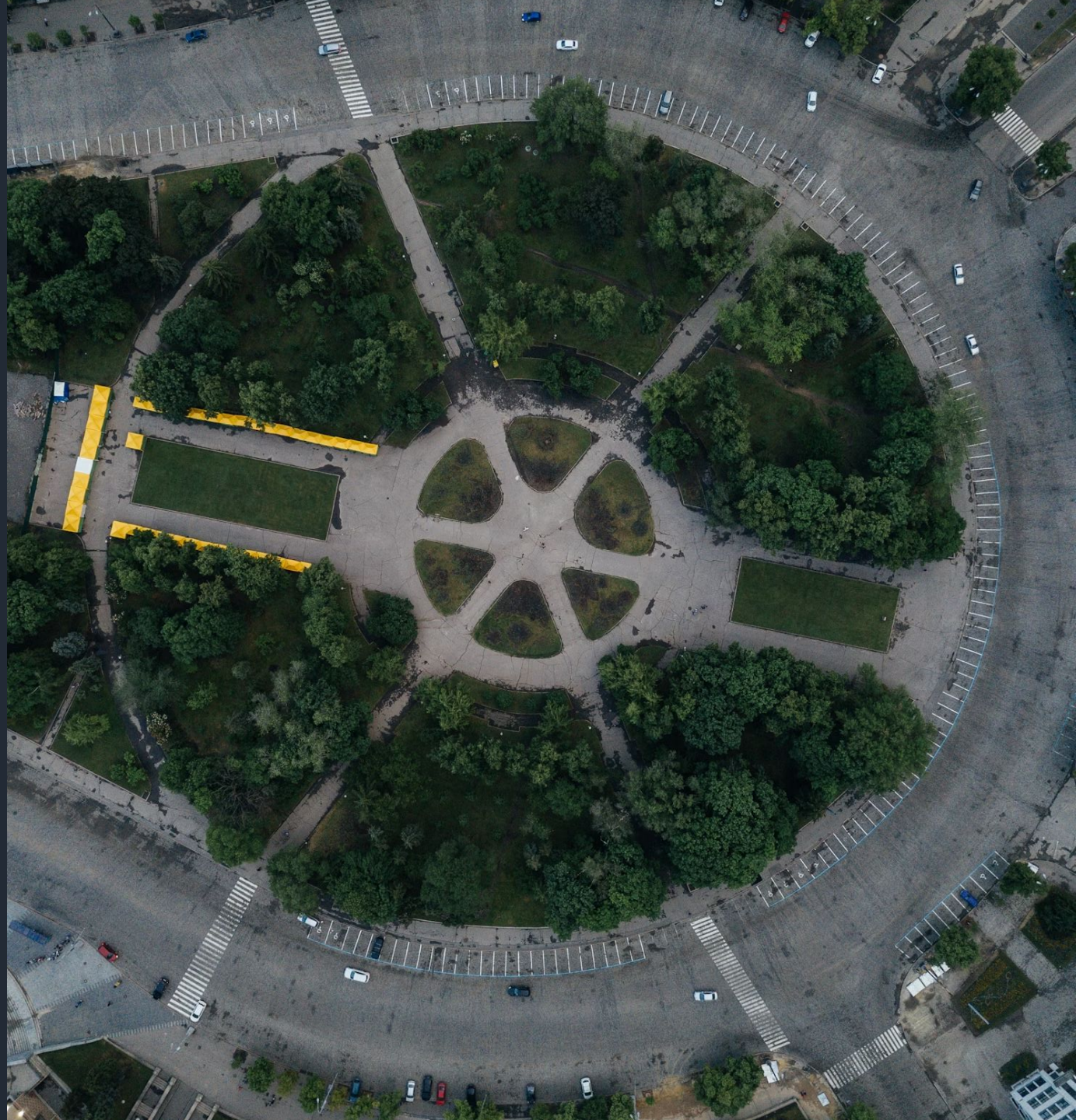
- Layered "old world" city
- Narrow alleys, winding streets
- Retrofits not designed for modern traffic



Design Choices

Blurry Lines + Hybrids

- Some cities mix old + new
 - ring roads + medieval centers
- Looks modern, but legacy layers still constrain flow



Xen

True Type 1

domU VMs

dom0 control domain
(optional)

Xen Hypervisor

Firmware / Hardware



KVM

Hybrid Type 1

VMs

QEMU / libvirt / systemd

Linux Kernel + KVM Module

Firmware / Hardware

Xen True Type 1

domU VMs

dom0 control domain (optional)

Xen Hypervisor

Firmware / Hardware



KVM Hybrid Type 1

VMs

QEMU / libvirt / systemd

Linux Kernel + KVM Module

Firmware / Hardware

Xen in the Data Center

We're still the best

- Full OSS solution
 - XCP-ng + Xen Orchestra
- Commercial options
 - Vates VMS
 - XenServer (Citrix Hypervisor)
- Drop-in replacement for enterprises, orgs, and home labs
- Xen runs on Arm (XCP-ng support coming soon)
 - more cores per rack, lower heat, power, and costs



Virtualization in a Container World

Isn't that what containers are for?

- VMs
 - emulate full computer (HW, OS, apps)
 - managed by hypervisor
- Containers
 - share host OS, isolate processes
 - faster/lighter, less isolation
- Best practice: run containers inside Xen VMs
 - agility + protection
 - Edera



Automotive & Embedded

Consolidation Made Simple

- Old way: multiple ECUs over CAN/I²C/SPI
 - cost + complexity
- New way: one multicore SoC with Xen
 - workloads isolated but local
- Mixed criticality workloads
 - Mission-critical + instrument clusters + infotainment on the same board
- Dom0less allows preconfiguring the VMs
- KISS principle: simpler, cheaper, more reliable

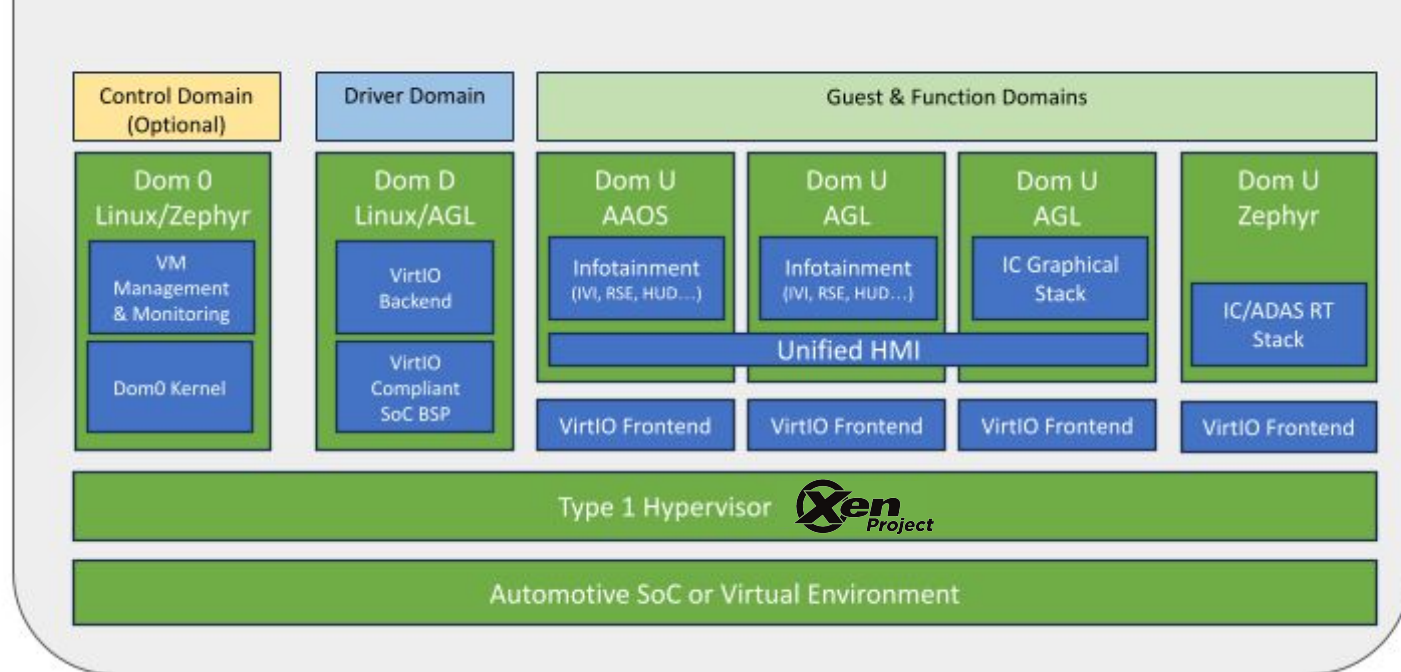


Vehicle Software Landscape

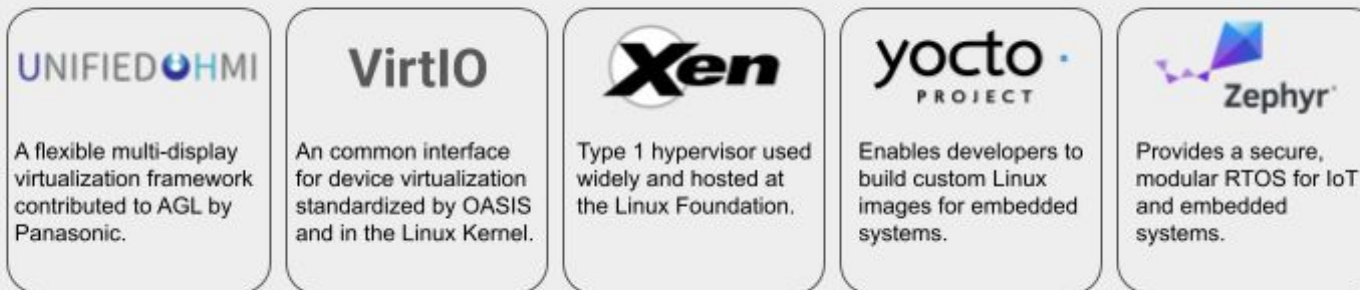
- Consolidated compute platforms
- IVI + telematics + OTA + safety
- Mixed-criticality workloads
- Strong isolation required



AUTOMOTIVE
GRADE **LINUX**



SoDeV's Key Technical Components



with more SDV enabling technologies to be integrated and incubated.

The AGL SDV EG meets biweekly. Learn more about the work being done and how to get involved:



Vehicle Software Landscape

Shared Compute SoC (Renesas, AMD, etc...)

**OTA /
Updates**

**Connectivity /
Cloud Services**

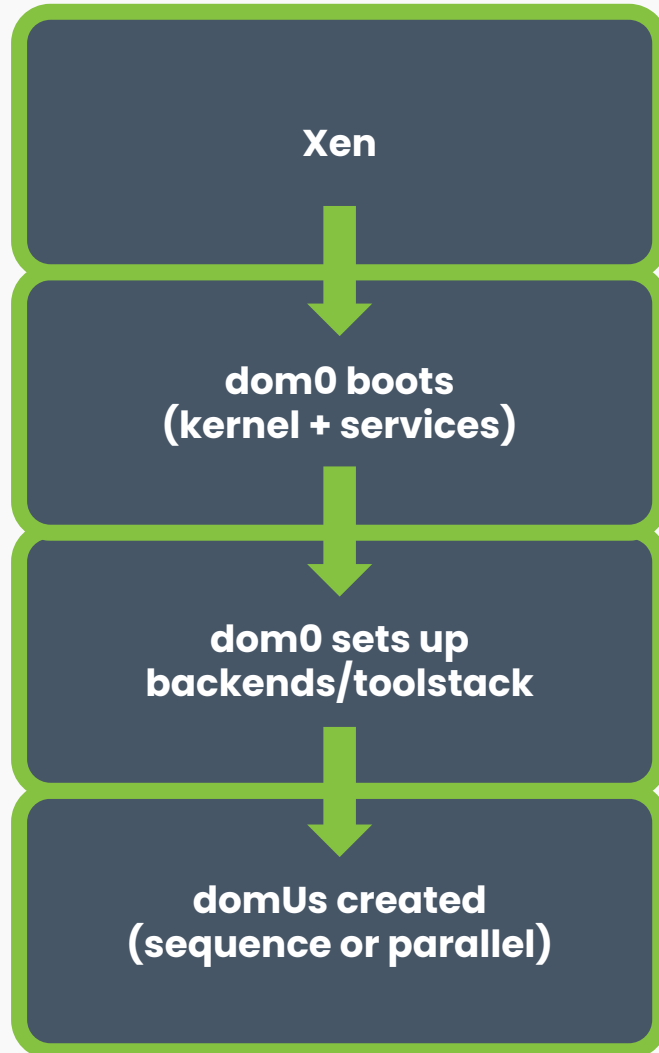
**IVI
(infotainment)**

Telematics

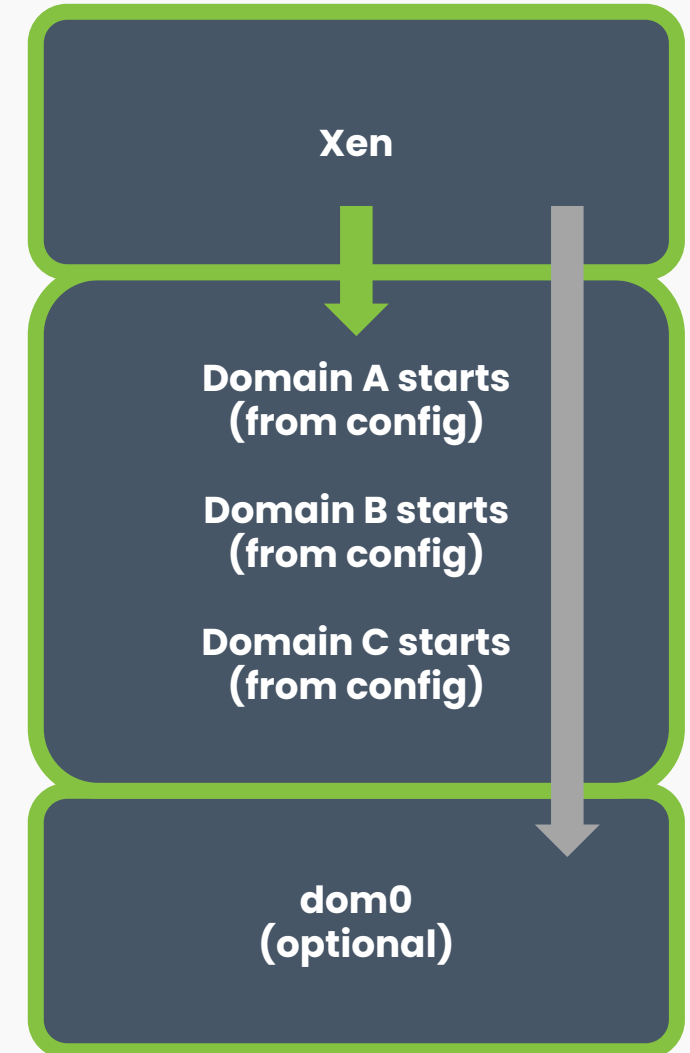
**Safety-Critical
workloads**

ADAS

Dom0



Dom0less



Dom0 vs Dom0less

- Dom0: OS-driven
- Dom0less: config-driven
- Dom0: serialized path
- Dom0less: parallel domains



Xen in the **Safety** Ecosystem

Better safe than sorry

- AGL Software Defined Vehicle
- Zephyr RTOS
- ELISA
- Built for purpose when compared to Linux+KVM
 - easier certification



Thank you to our
members!



Announcing our latest addition...



Announcing our latest
addition...



Why **membership** matters?

Member benefits

- Fund the future
- Safety investment
 - functional safety certification
 - maintain artifacts
- Influence strategy
- Sustainability
- Visibility & leadership
- Faster adoption



Announcing...

Xen Safety

Coming soon*

- Formal establishment of Safety-Committee
- Access to shared safety artifacts
 - ISO 26262
 - Accelerated downstream certification
- New Premier Plus membership level

***pending board approval**



Xen “LTS”

- **Every** release will have:
 - 3 years of feature support
 - 5 years of security support
- Aligns with other foundational OSS projects
- It's not LTS because it's every release



Xen Summit 2026

- Location: Munich
 - Continued focus on Automotive
- Dates:
 - September 15-17
- More details coming soon!



Community First

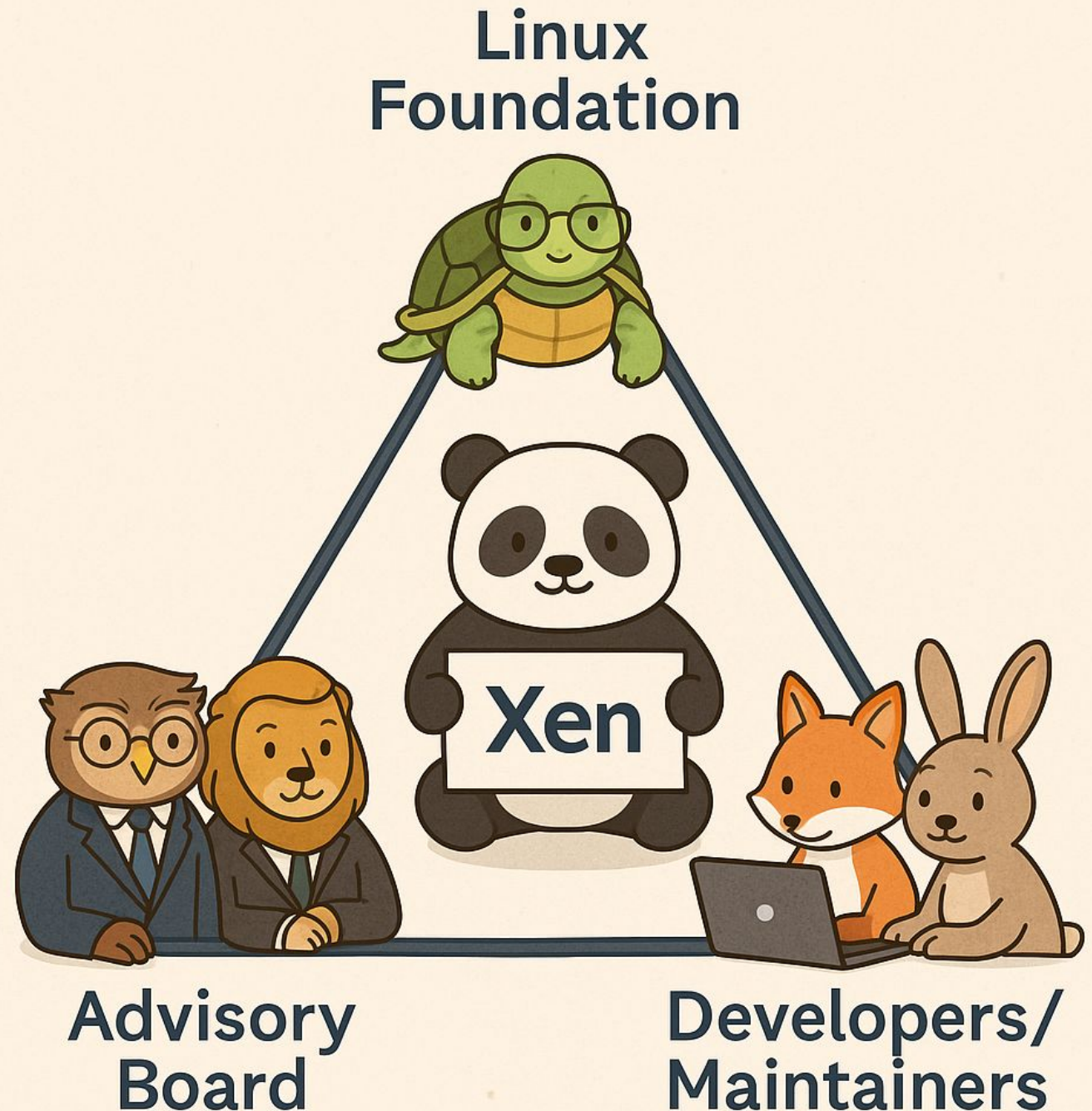
What is Xen?

- Xen isn't just code, it's people
- Contributors across companies, industries, countries, and backgrounds
- Our strength is collaboration
- Emails, async, remote...
 - A little lot friendliness can go a long way ❤️



How does governance work?

- **Meritocracy** in code: Maintainers and leadership teams make technical decisions
- **Advisory Board**: Provides financial support and sets strategic priorities
- **Community Manager** (me): Facilitates coordination, ensures healthy collaboration
- **Linux Foundation**: Provides neutral home, legal & administrative support
- **Open participation**: Anyone can contribute, maintainers are recognized by merit



2025 Recap

Big year for Xen!

- Xen 4.20 & 4.21 released ✓
- Website refresh 🌐
 - If you've got it, flaunt it!
- New members 🤝
 - Honda, Renesas, Ford
- New artwork 🎨
- OSS events 🎤



2026 Highlights

It's only April...

- Extended Xen Support
- New members 🤝
 - Boeing
- Xen Safety + Premier Plus
- OSS events 🎤



Xen 4.21 Highlights

Xen 4.21 November 2025:

- Arm security hardening
- Memory determinism gains
- Deterministic interrupt latency
- Broader CI coverage
- Modernized codebase
- [Learn more](#)



Release Roadmap

4.22 Current (HEAD)

- Work Items:
 - PDX compression algorithm (Intel Granite Rapids + Sierra Forest sparse physical memory maps)
 - PCI Resizable BAR capability for PVH dom0
 - FRED (x86)
 - AVX10, APX, and AMX support (x86)
 - MPU support (Arm)
 - CI Updates
 - Hyperlaunch work (>4.21)
 - Host UEFI Secure Boot (>4.21)
 - FF-A 1.2 Support (Arm) (>4.21)
 - SMMUv3 (Arm) (>4.21)
- Timeline
 - Code freeze: October 3, 2025
 - Hard code freeze: October 31, 2025
 - Final commits deadline: November 14 2025
 - Target release date: November 19, 2025



Contributors



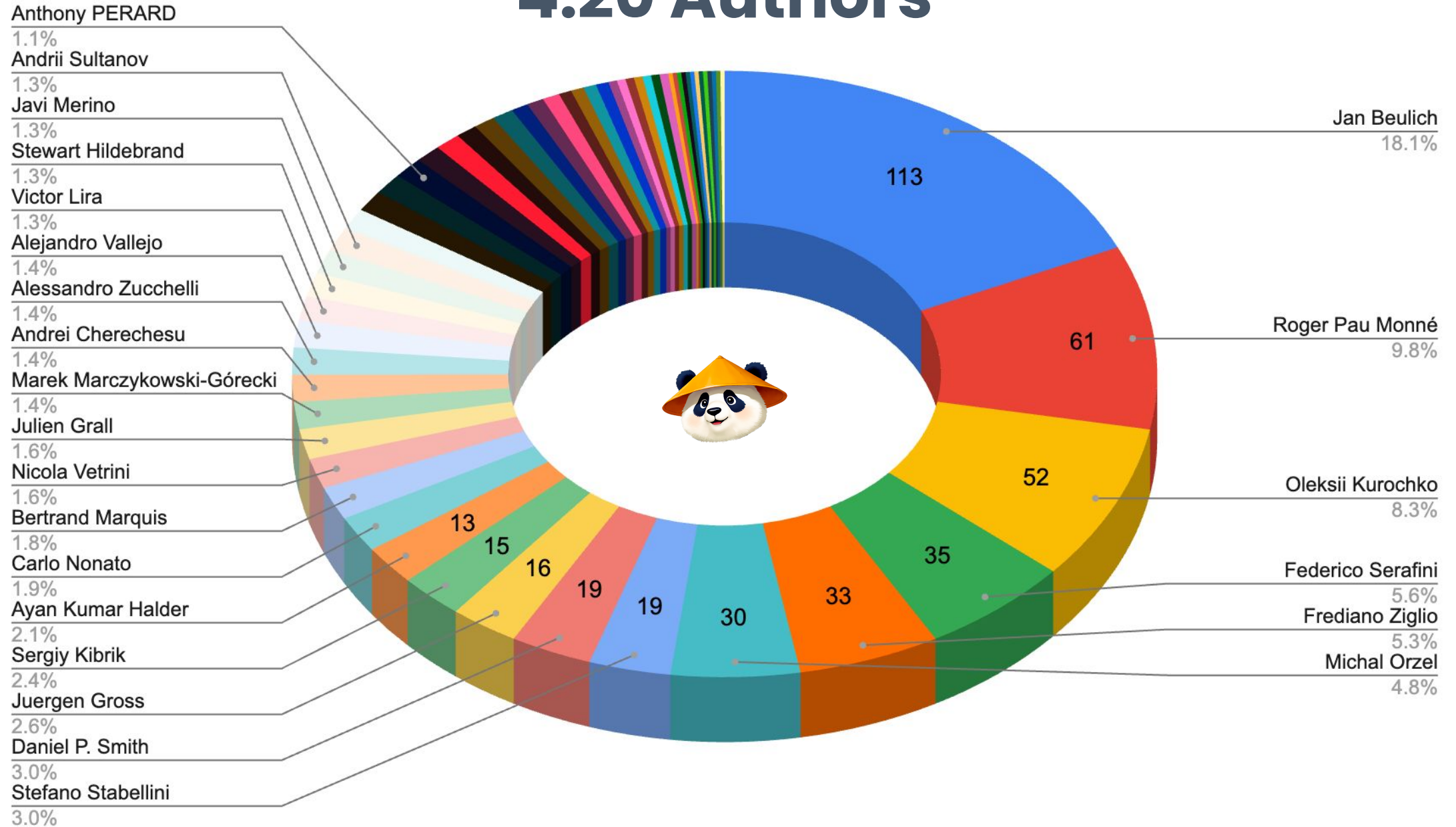
Where the magic happens

- Thank you to our top contributors!
- Code, reviews, docs, testing, outreach all matter
- Companies: SUSE, Vates, AMD, CSG, Ford, Arm, and many more...



Xen 4.20

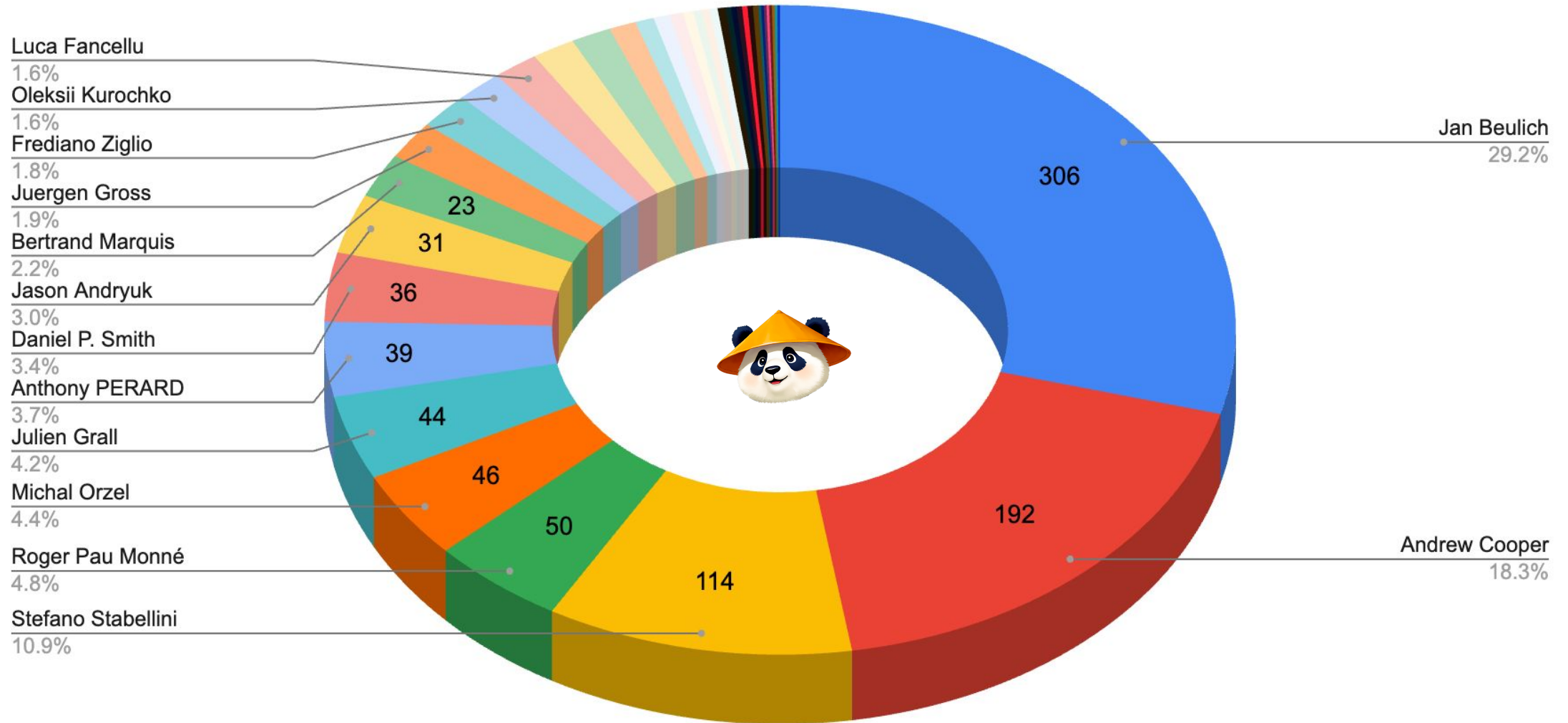
4.20 Authors



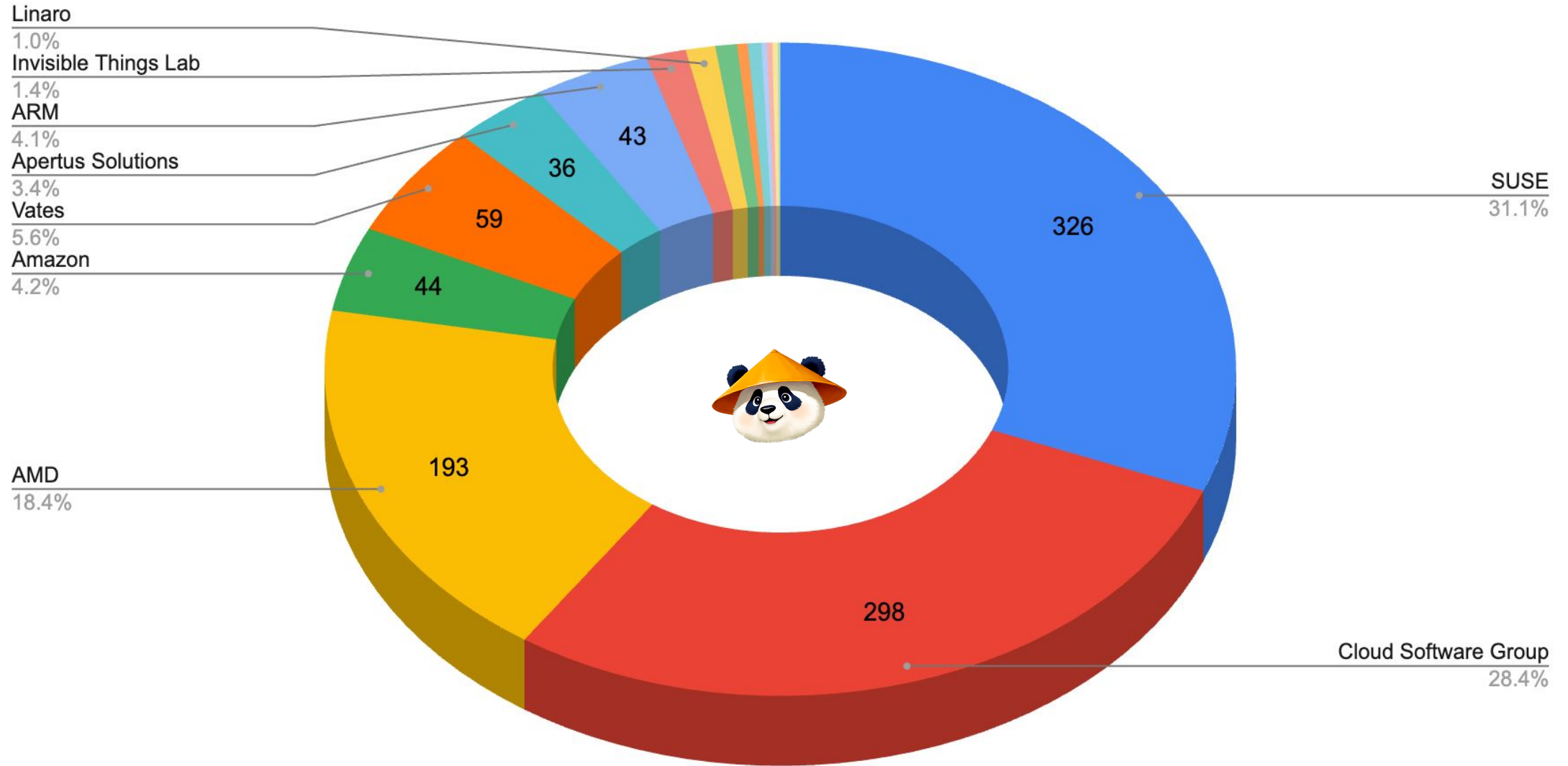
4.20 Authors



4.20 Reviews

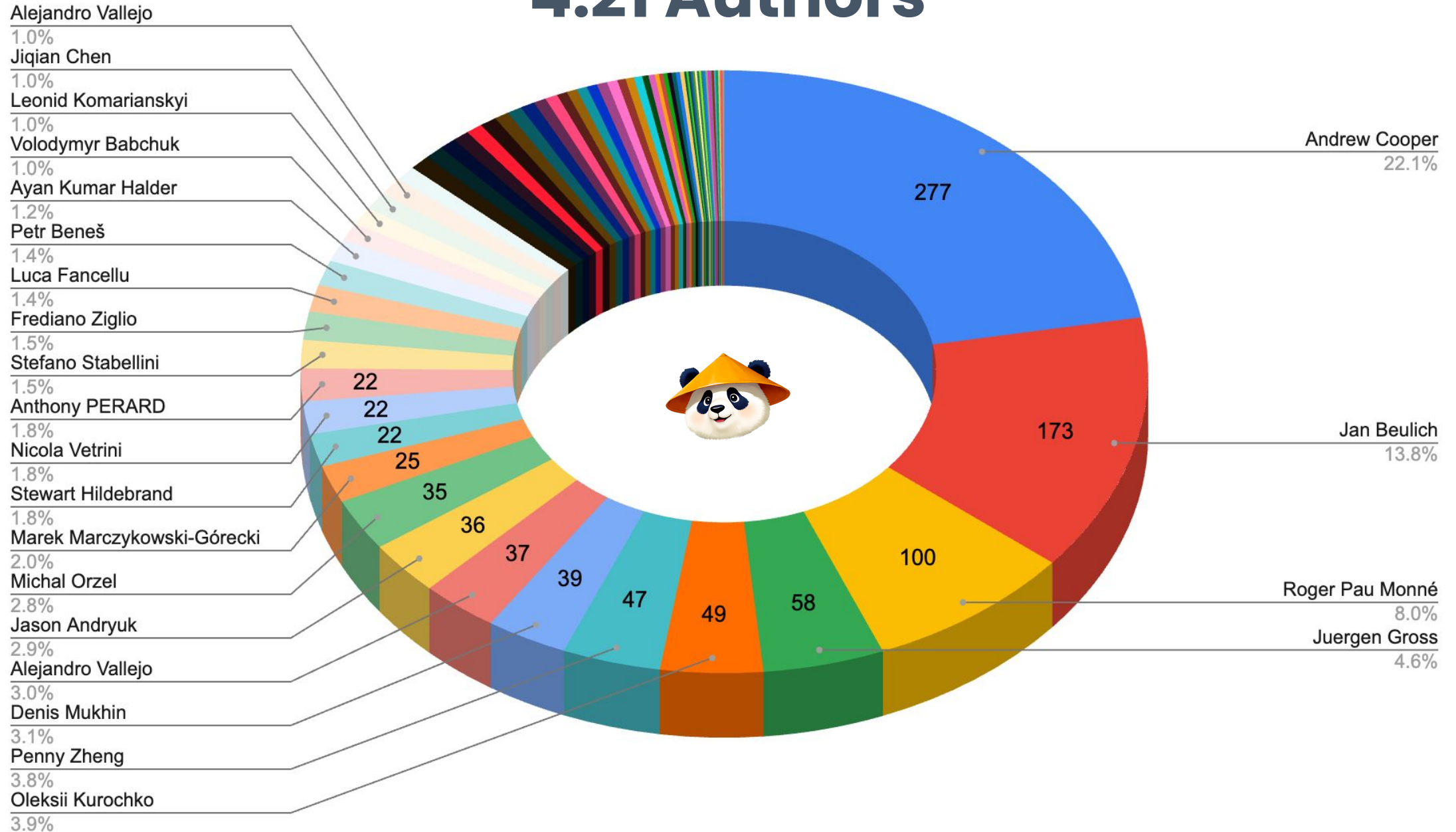


4.20 Reviews

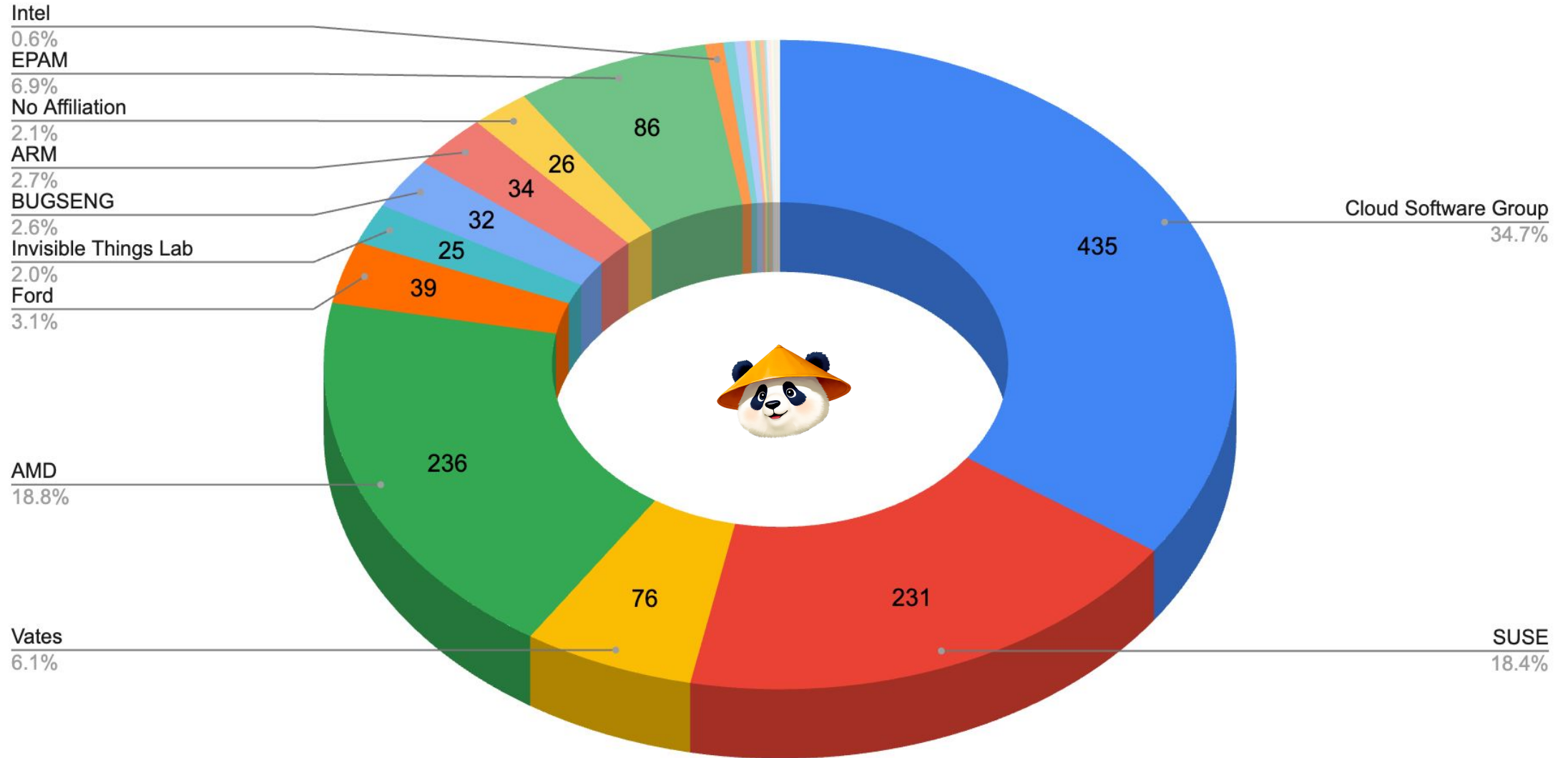


Xen 4.21

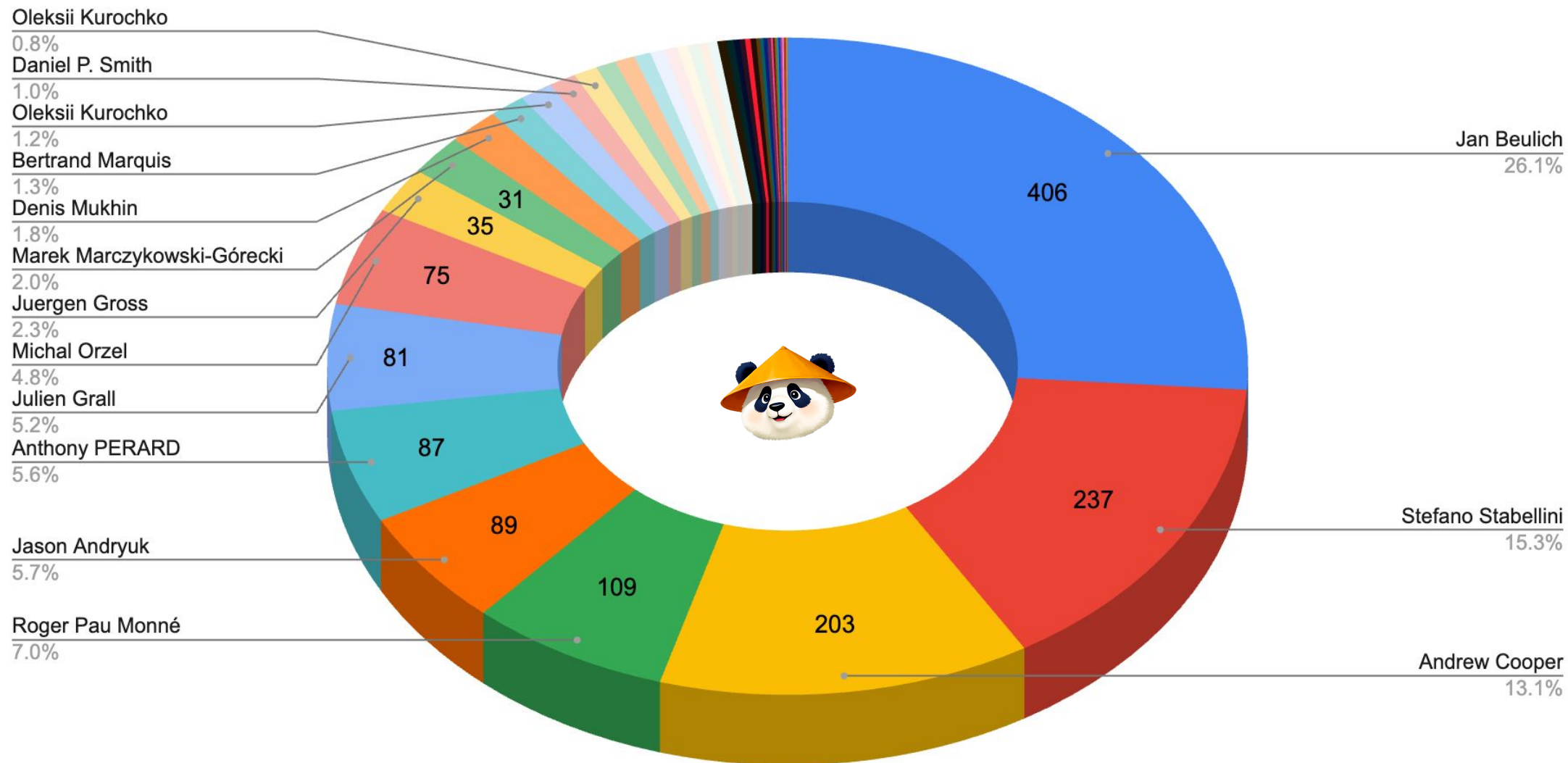
4.21 Authors



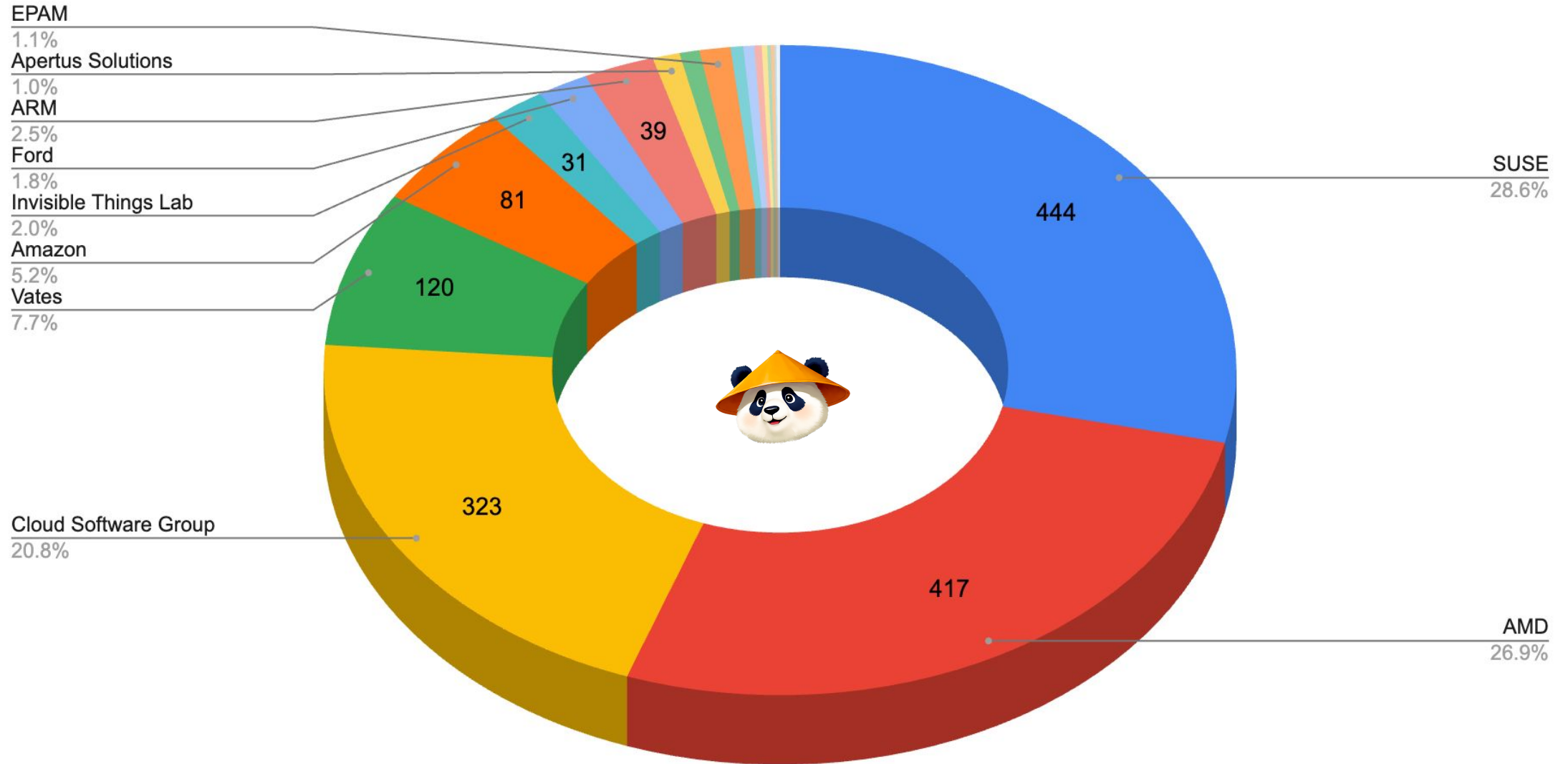
4.21 Authors



4.21 Reviews



4.21 Reviews



Community Events

Getting the word out

- At conferences...
- Winter Meetup in France 🇫🇷
- Presenting at OSS Japan December 🇯🇵
- Where do we go next? Regional socials?



The Xen Safety Concept, a Major Milestone Toward Certification

Stefano Stabellini, AMD

The Hypervisor Hierarchy: Why Architecture Matters for Performance, Security, and Flexibility

Cody Zuschlag, Xen Project (Linux Foundation)



Budget

Should have a surplus for 2025

- 2025 Final Numbers
 - **\$310k revenue**
 - **\$115k expenses**
 - **\$195k surplus**
- Carryforward to 2026
 - **~\$421k**
- Growing membership



Change in personnel

2026 brought a few changes

- Community Manager
 - Now project funded!
- Devrel
 - Neil McGovern
 - Working on modern documentation
(linked to source control)



Challenges

Where can we improve?

- Attracting and onboarding new contributors
- Financial sustainability
- Simplifying old processes



The Road Ahead

What's next?

- Growth in automotive & embedded 🚗
- Safety certification work 🛡️
- Deeper collaboration across open-source projects 🤝
 - Xephyr, ELISA, AGL, XCP-ng
- Website Docs & Search 🌐
- Continued focus on transparency & community



Where will Xen go?

Predict the future 🌐

- High core-density data-centers
 - max cores per space, electricity, and heat
- Industrial
- Automotive
- Aeronautics (and to Space)
- Humanoid Robots



We need your **help!**

What can you do?

- Contribute: code, **reviews**, docs, or testing
- Mentor newcomers
- Advocate for Xen in your company
- Stay connected (Matrix, mailing list, events)
- A little bit of friendliness goes a long way





Any questions ?

Thank you for your attention



xenproject.org