Open Source 西门子

Beijing · 2026

Oct. 29
Industrial Open Source

Oct. 30
Open Source Robotics

Agenda

To Use or Not to Use LLMs in Open Source Projects?



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Disclaimer (1)

Today is 29th of October, 2026

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Disclaimer (2)

Do not expect simple answers,

rather food for own thoughts.

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Survey (1)

Who has contributed to OSS recently?

Who has used LLM assistance for it?

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Survey (2)

Who is running an OSS project?

Who has proposed or established an AI policy there?

…that is limiting the usage?

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(Human) Brain-Storming

What can speak for LLM usage in OSS?

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More Brain-Storming

What may speak against LLM usage in OSS?

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Let’s Look Around...

What do prominent OSS projects say?

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Linux Kernel

- LLM-generated code allowed
- Only humans must sign-off patches
- Signer is responsible for
  - Reviewing the code
  - Ensuring GPL-2.0-only license compliance
- Attribution (Assisted-by: LLM) dropped again

https://docs.kernel.org/process/coding-assistants.html



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Apache Projects

- LLM-generated code allowed
- Contributor must check that
  - Tool terms & conditions permits Apache-2.0 licensing
  - Output is not copyrightable
  - ...or contains no third-party fragments
  - ...or fragments are compatibly licensed
- LLM disclosure is strongly encouraged

https://www.apache.org/legal/generative-tooling.html



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OpenEuler

- LLM usage encouraged, including generation
- Contributor remains responsible
- Strong transparency requirements
  - Agent platform & model
  - Prompt summary
  - Original copyright kept
- System prompt template available



https://www.openeuler.org/en/community/ai-coding-assistants

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Debian

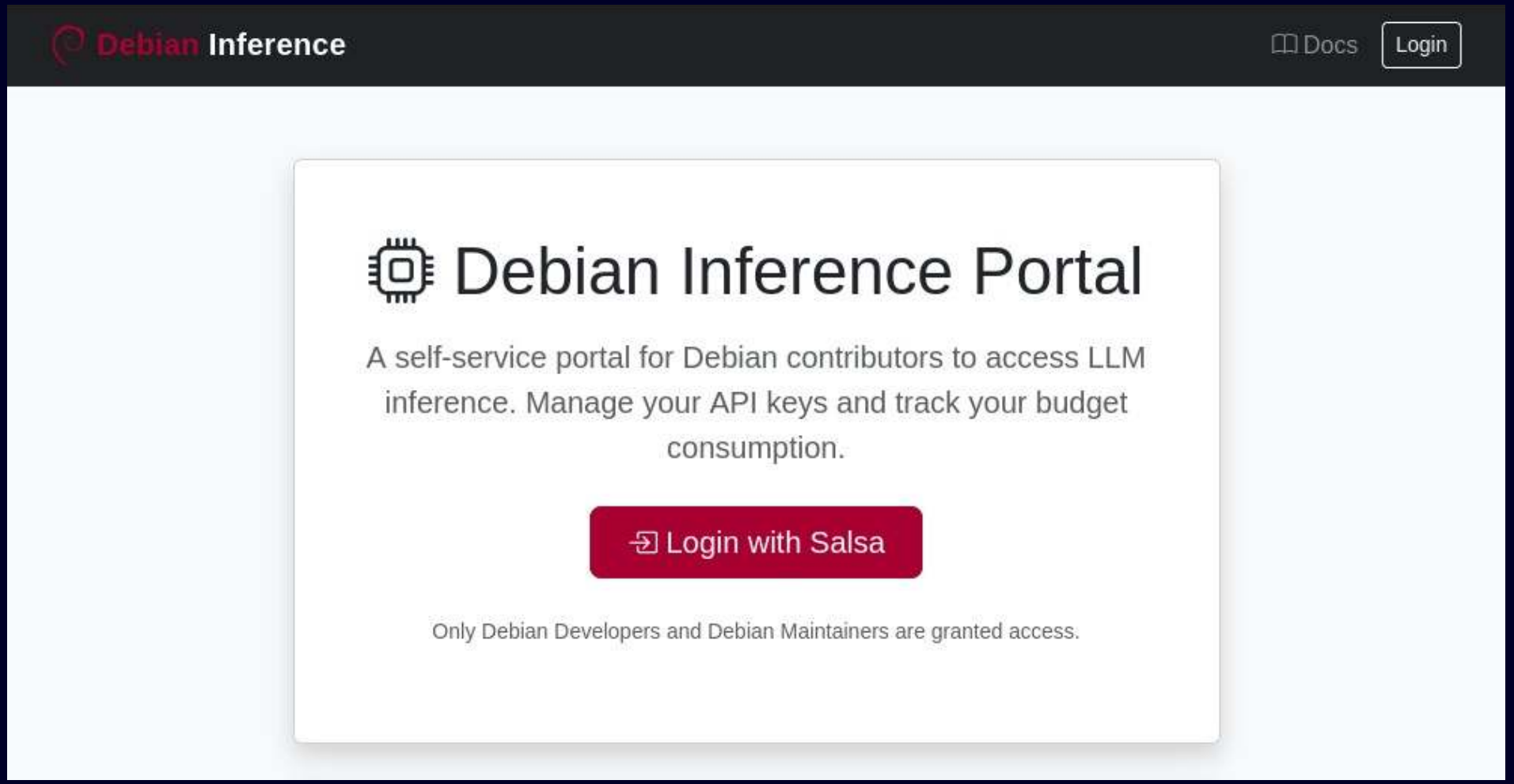
- Takes neutral position
- Acknowledges possible productivity gains
- No position regarding legal questions
- Contributors remain fully responsible

https://lists.debian.org/debian-devel-announce/2026/08/msg00005.html



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Neutral Position?



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QEMU

- Research, analysis, debugging permitted
- No AI-generated contributions
- Primary reason: unclear legal situation
- Exemptions can be requested,
  discussions are welcomed
- At least one precendence case accepted
  (bsd-user syscall emulation)



https://www.qemu.org/docs/master/devel/code-provenance.html#use-of-ai-generated-content
(Established: June 2025)

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Gentoo

- No AI-assissted contributions
- Rational
  - Copyright concerns
  - Quality concerns
  - Ethical concerns



https://wiki.gentoo.org/wiki/Project:Council/AI_policy
(Established: April 2024)

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Nura (formely postmarketOS)

- Strict AI ban, no usage, no promotion
- Ethical reasons
  - Resource consumption
  - Negative impact on employees
  - Burden for maintainers
  - Copyright infringements



https://docs.nura.eco/policies-and-processes/development/ai-policy.html
(Discouraged: Oct 2025, forbidden: Feb 2026)

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Is There a Trend?

- Some further strictly banning projects:
  NetBSD, Zig, Servo, Asahi Linux, elementary OS, GNOME extensions, GIMP
- Both old and fresh bans – no clear trend
- Way more permit LLM usage now
- Even more may have no policy yet
- Recent Linux Foundation study of 119 projects:
  35% permit, 32% unclear, 23% work on policy, 10% ban LLMs

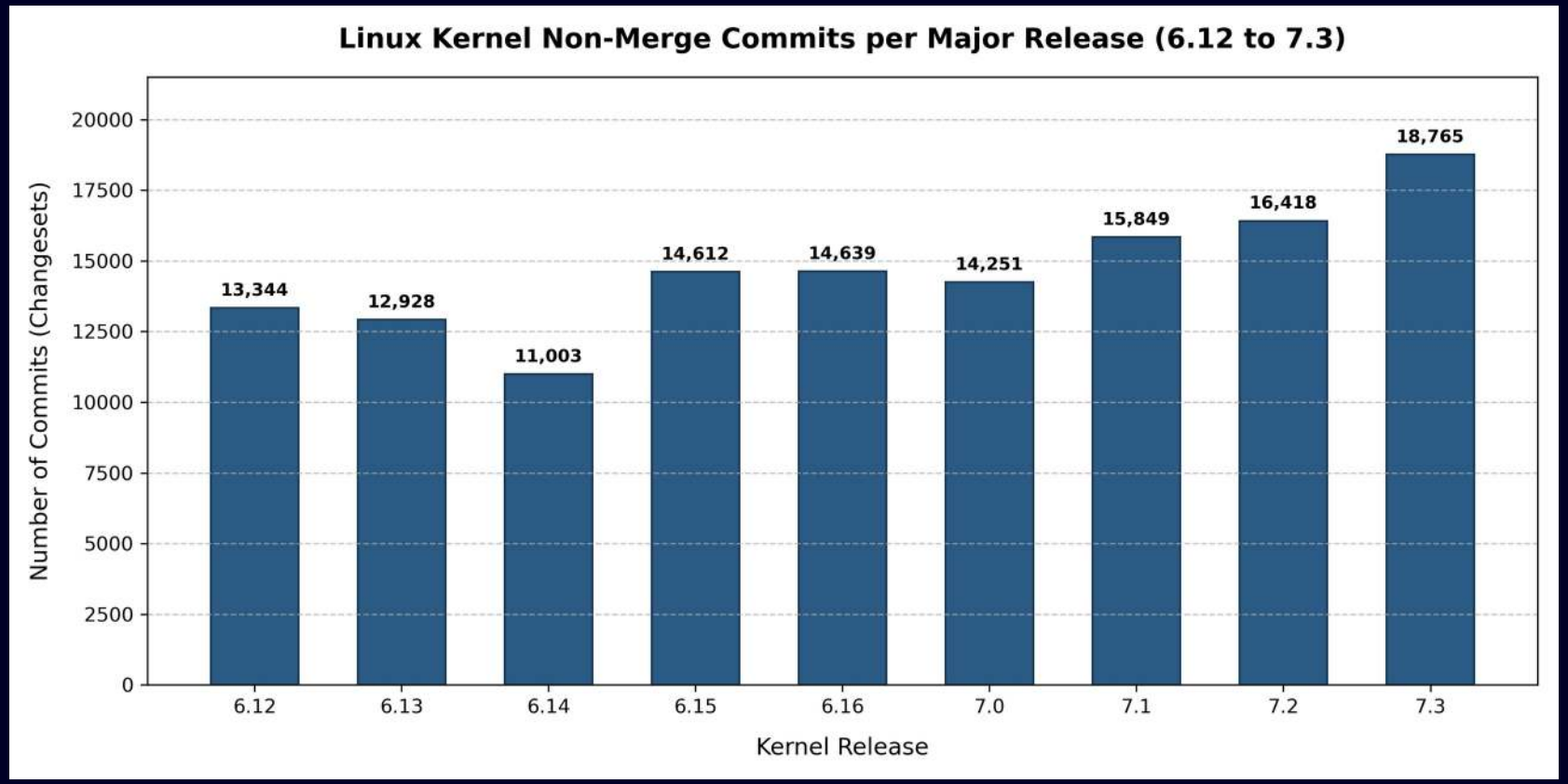


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Effects of Using LLMs

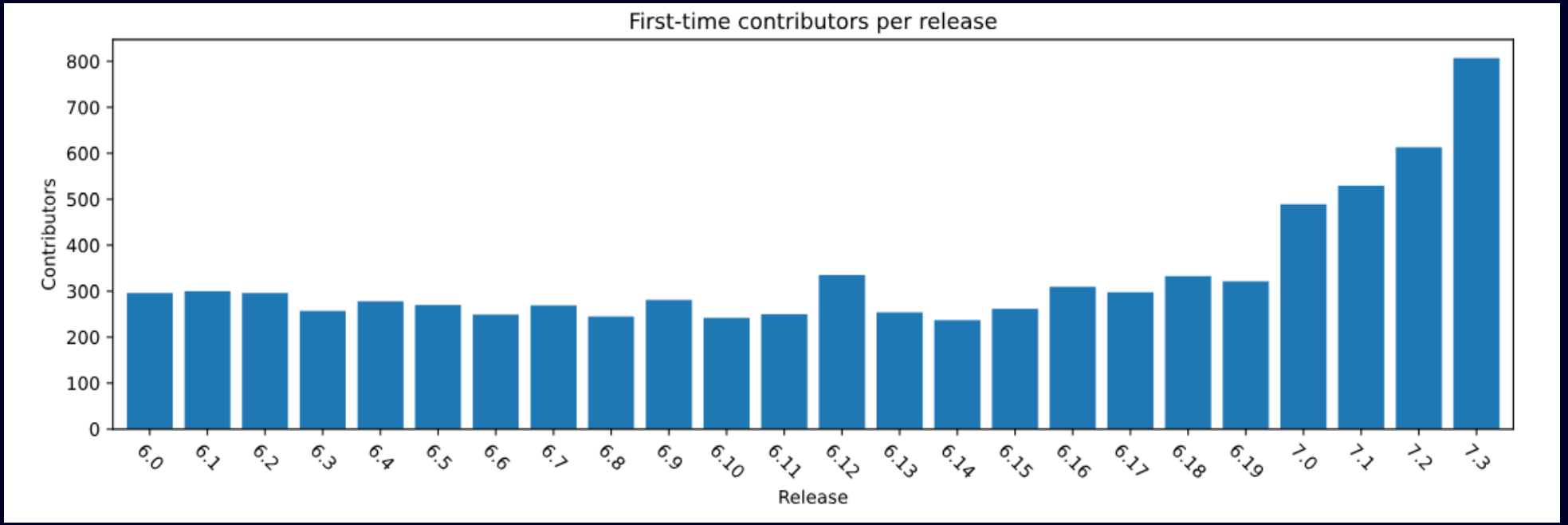
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Kernel Trends (1)



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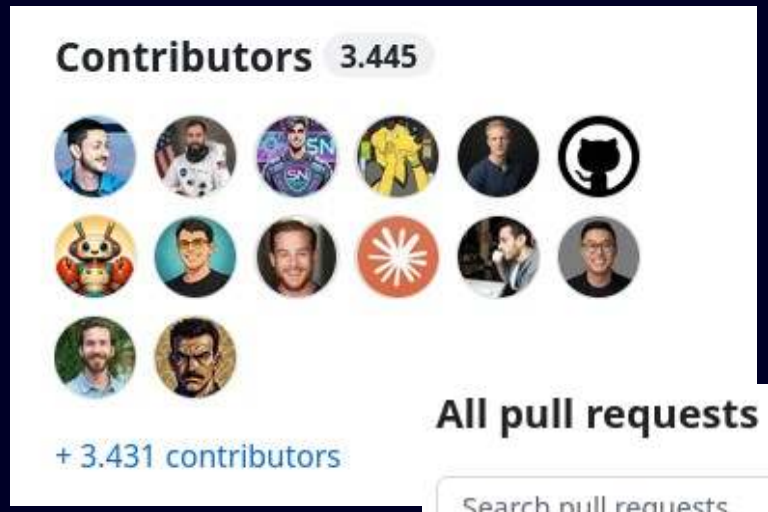
Kernel Trends (2)



https://lwn.net/Articles/1100241

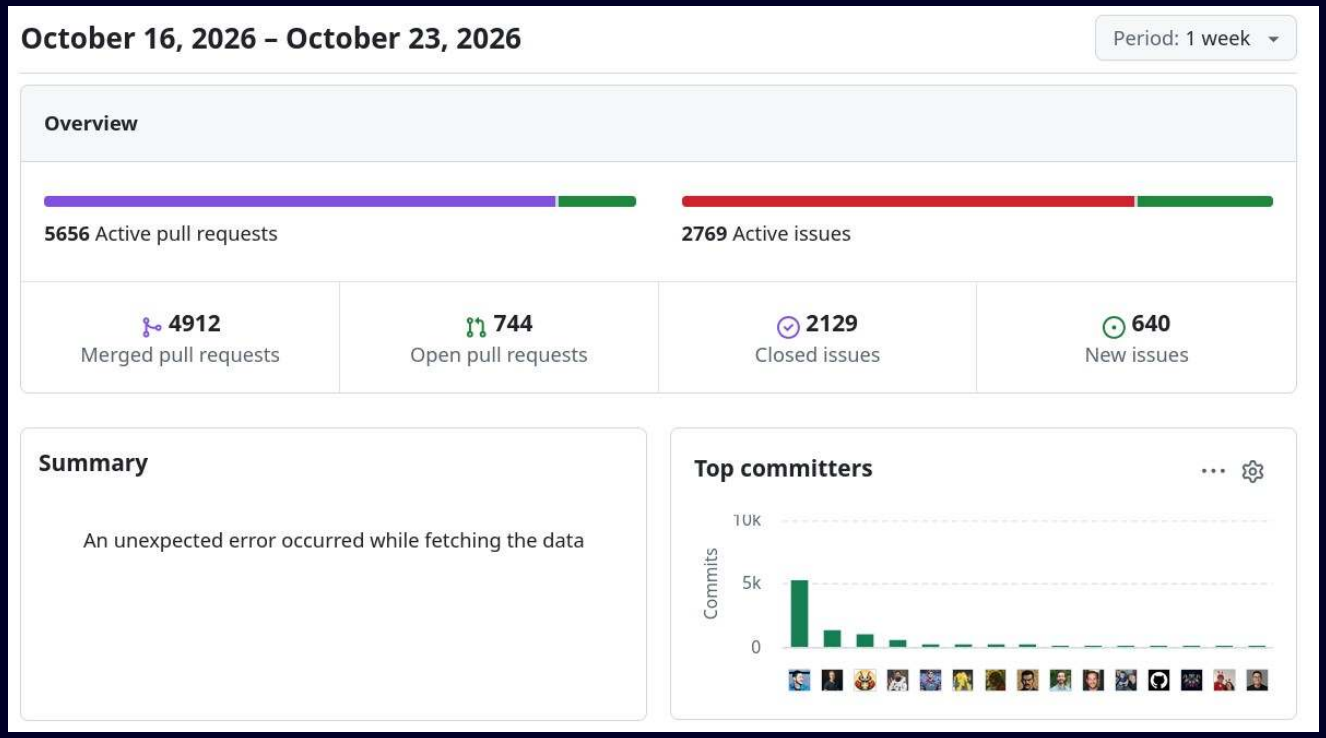
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All-In on AI



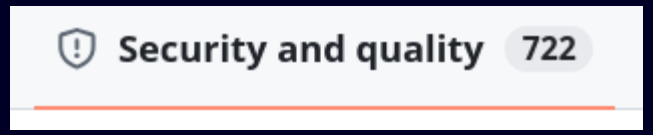








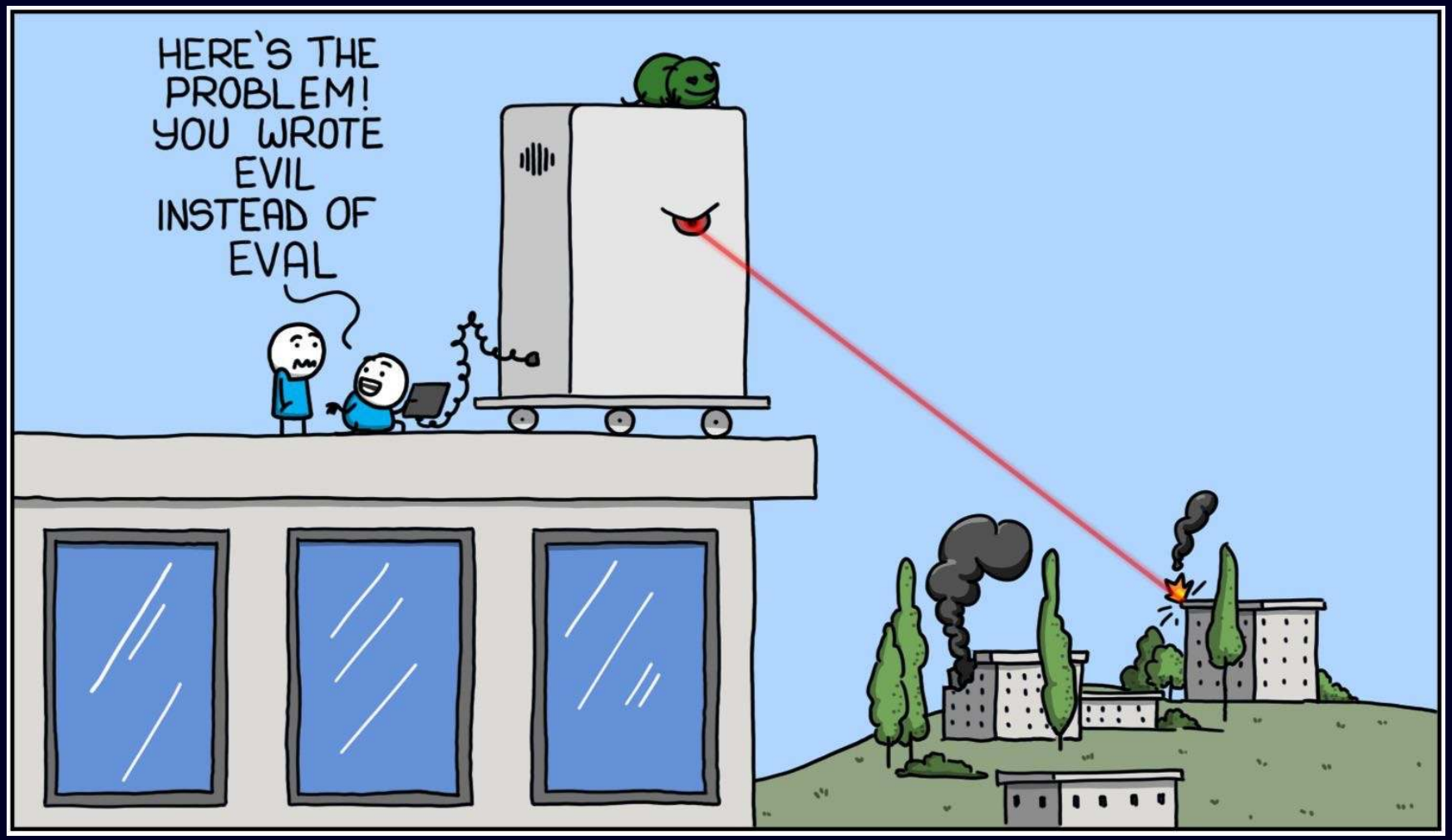




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What could possibly go wrong?



https://programmerhumor.io/programming-memes/evillanguageinstructions

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LLM Usage vs. Workflow Security

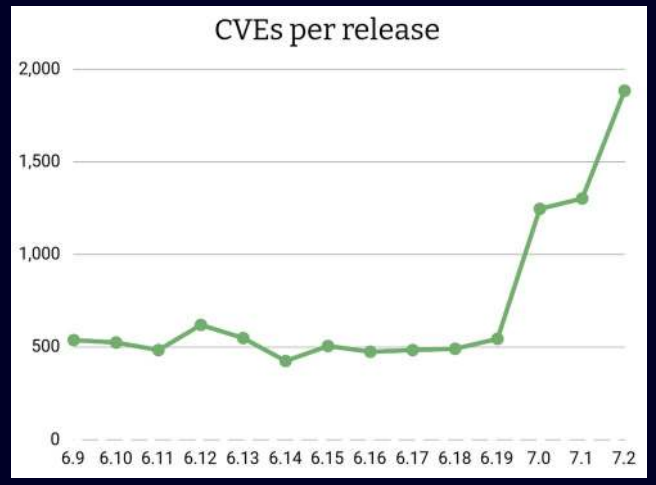
curl https://random-tool.ai/install.sh | [sudo] bash

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Avoid LLMs While Attackers Are Using It?

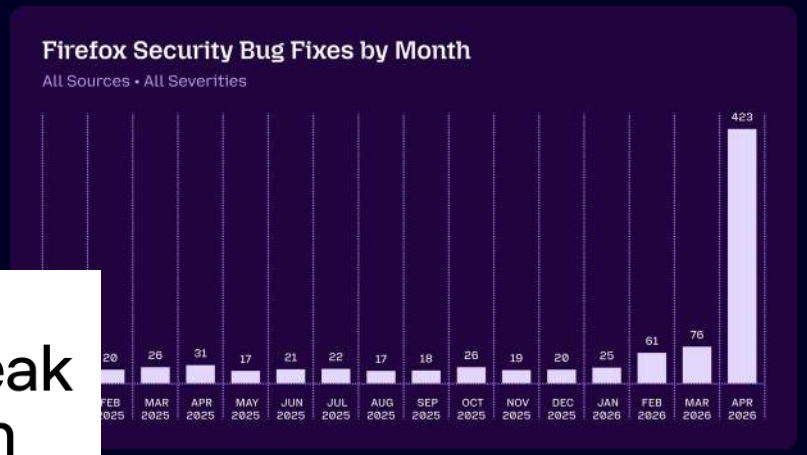
Introducing Project Glasswing: Giving Maintainers Advanced AI to Secure the World's Code

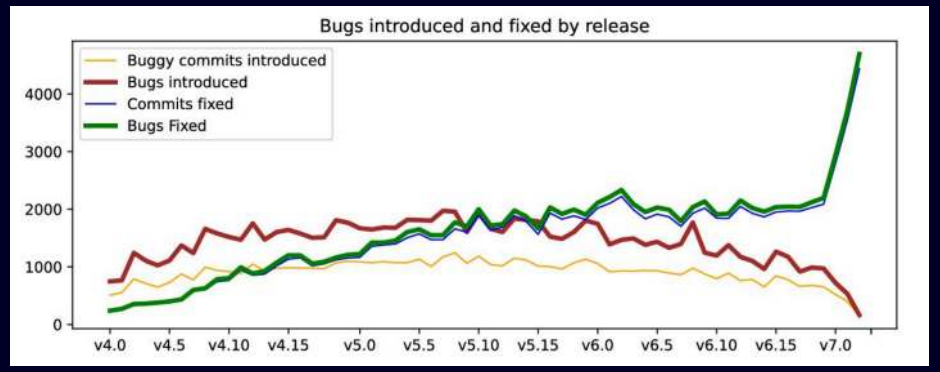
JIM ZEMLIN | 07 APRIL 2026



June 22, 2026 Security

Patch the Planet: a Daybreak initiative to support open source maintainers





LLM-driven security reports disrupt coordinated disclosure

[LWN subscriber-only content]

By **Joe Brockmeier**
May 6, 2026

Predictions that LLM tools would cause a surge in reports of security vulnerabilities have, unquestionably, borne out. As expected, maintainers are having to wade through

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Local LLMs As Risk Mitigation?

EMBEDDED LINUX CONFERENCE

CIVIL INFRASTRUCTURE PLATFORM

Why use local LLMs?

- Stability
- Tamper-proofing
- Vendor independence
- Technical requirements:
  - Introspection
  - Complete context control
- ...and the other 10000 (geopolitical, economical, price variability, availability...



http://fpond.eu/llm_cip-export.pdf

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LLMs & Copyright



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How To Remain One Community?

Is there really no acceptable option beside forcing everybody to swallow the generative AI pill ? No option for people with ethics concern to be still considered part of the kernel community ? No option but complete surrender and pledging allegiance ? This is how I increasingly feel being treated, and I know I'm not alone.

Laurent Pinchart

https://lwn.net/ml/all/20260715174138.GI1778116@killaraus.ideasonboard.com

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Closing Thoughts

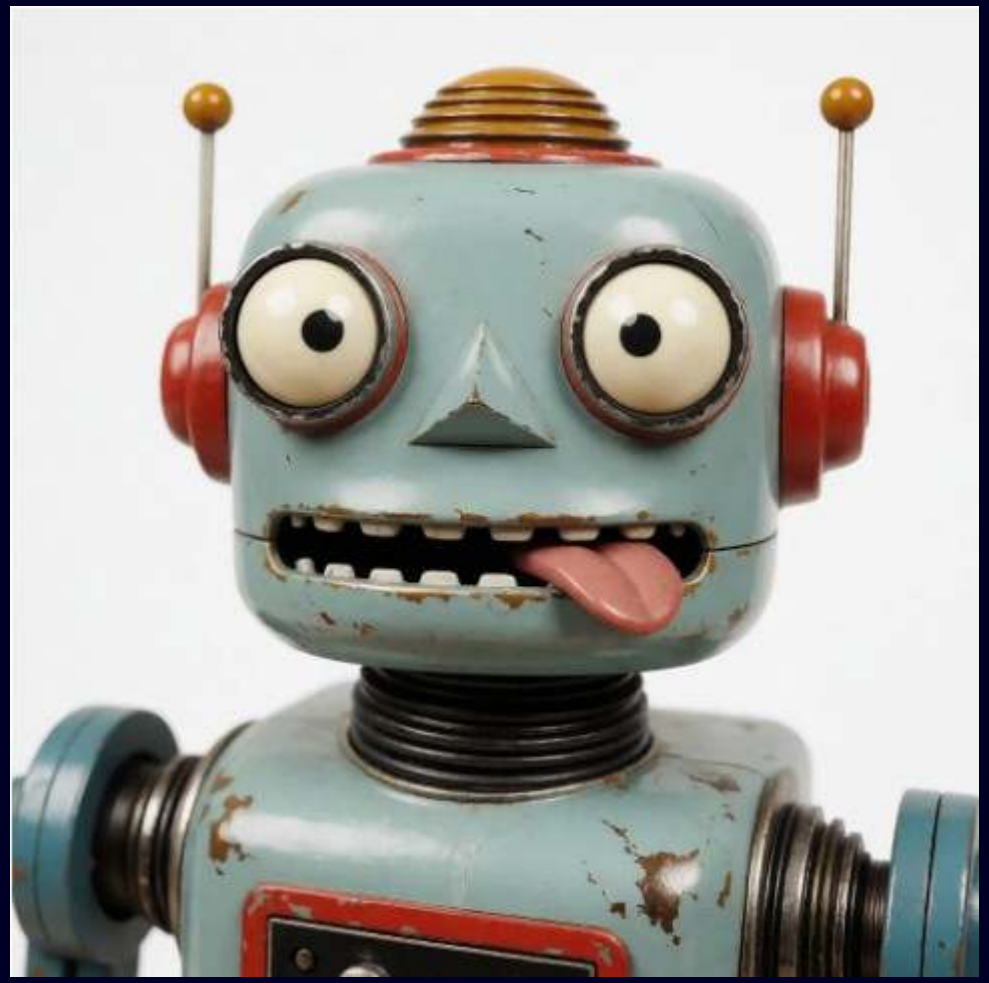
- LLMs are changing the OSS ecosystem
- Blunt banning became niche
- Risk of further disruptions
  - Flood of changes, flood of vulnerabilities
  - Legal issues?
  - Is OSS funding secured?
- OSS as more sustainable LLM usage?
- Don’t forget the humans!



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Thank You! Any Questions?



http://fpond.eu/llm_cip-export.pdf

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More Resources

- Software Freedom Conservancy on LLM-gen-AI: https://sfconservancy.org/llm-gen-ai/llm-backed-generative-ai-recommendations.html
- Linux Foundation Study on AI and OSS: https://www.linuxfoundation.org/hubfs/Research%20Reports/Navigating-Open-Source-Software-Development-in-the-Generative-AI-Era.pdf?hsLang=en
- ...

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