



Ballerina

The Open Source Way

Contributing, Collaborating, and Building Together

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Hello!

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Introduction to Open Source

What is Open Source?

- Software whose source code is available to everyone
- Can be used, modified, and shared freely
- Not just “free” - it’s about freedom

Core Principles

- Transparency: Anyone can inspect the code
- Collaboration: Built by communities, not just companies
- Meritocracy: Good ideas win
- Community over corporation

A Bit of History

- 1983: GNU project and Free Software Movement
- 1991: Linux kernel released
- 1998: “Open Source” term introduced
- Today: Powers the internet, cloud, and AI

Stallman vs. Linux

- Richard Stallman: Founder of the Free Software Movement (1983)
 - Advocated for software freedom and ethics
 - Created GNU and the GPL license
 - Believes nonfree software is a social problem
- Linus Torvalds: Creator of the Linux kernel (1991)
 - Focused on practical engineering and results
 - Uses open source for better software, not ideology
- The tension: Freedom vs. Pragmatism
 - FSF vs. OSI
 - Both shaped today's open source landscape

Free Software Foundation vs. Open Source Initiative

FSF - “Free” as in Freedom

- Founded by Richard Stallman
- Focuses on user freedoms and software ethics
- Software must always remain free
- Opposes DRM, SaaS lock-in, and proprietary licenses

OSI - Open as in Collaboration

- Founded in 1998 to make OSS more business-friendly
- Focuses on development model and collaboration
- More pragmatic than ideological
- Embraced by companies like IBM, Microsoft, Google

Open Source is Everywhere

- Android – built on Linux
- VS Code – open source editor
- Git – backbone of modern development
- Kubernetes, TensorFlow, Hugging Face – all OSS
- Linux - Runs about 90% of the network infrastructure on the internet!
- Supercomputers - World's fastest 500 supercomputers runs on Linux

Not Just Code

- Documentation and tutorials
- UI/UX design and translations
- Bug reports, testing, and issue triaging
- Community help and support

~1000,000,000

Contributions in 2024 – Octoverse 2024 report

Why and How to Contribute?

Why Should You Contribute?

- Learn real-world dev practices
- Build a strong public portfolio
- Get peer feedback and mentorship
- Networking and job opportunities
- OSS experience helps with WSO2 internships

Getting Started

- Find a project you use
- Look for [good first issues](#)
- Read [README](#) and [CONTRIBUTING.md](#)
- Join discussions
- Start small, stay consistent

GitHub 101

- Star, Watch, Fork to track and contribute
- Issues = report bugs / feature requests
- Pull Requests = contribute code or docs
- CI checks, reviews, and collaboration

Real-World Impact

- 2024: XZ Utils backdoor incident
- Small OSS project, massive potential damage
- Highlights the importance of trusted OSS maintenance

Open Source ≠ No Rules

- Open source uses licenses; it's not lawless
- Licenses define usage, sharing, modification rights
 - Copyright | Permissive | Copyleft licenses
- MIT, Apache 2.0 = permissive
- GPL = must share modifications
- Always read the license before using code

Open Source Licenses

- Licenses define how software can be used, shared, and modified
- Permissive: MIT, Apache 2.0 - few restrictions
- Copyleft: GPL - must share changes under same license
- Apache adds patent protection, MIT is simplest
- Always read the license before contributing or using code

Contributing to Ballerina

Introduction to Ballerina

- A cloud-native programming language
- Designed for integration and services
- Built by WSO2, fully open source

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Ballerina Project Structure

- GitHub org: [ballerina-platform](https://github.com/ballerina-platform)
- Repos: ballerina-lang, libraries, tools, website, docs
- Modular, multi-repo architecture - Easy to contribute

How to Contribute to Ballerina

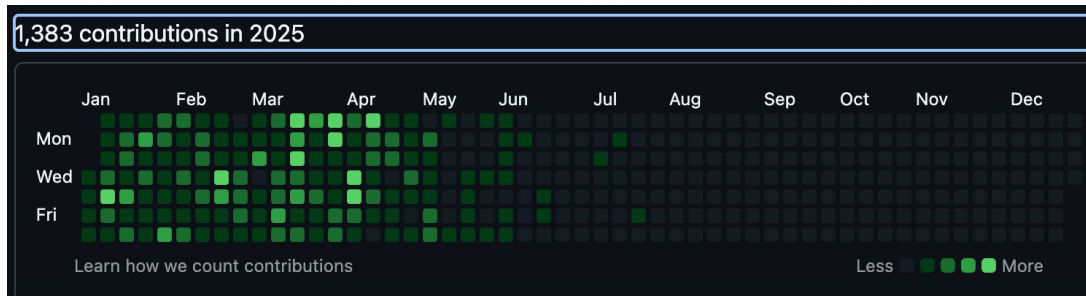
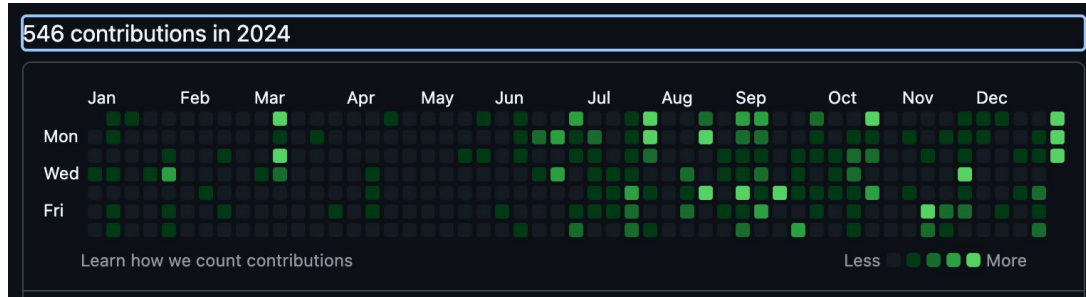
- Look for [good first issue](#), area/* labels
- Improve docs, fix bugs, write tests
- Follow the contribution guide
- Join the [Ballerina Discord community](#)

What you get from contributing

- [Ballerina rewards](#)
- [WSO2 Internships](#)

A Real Journey

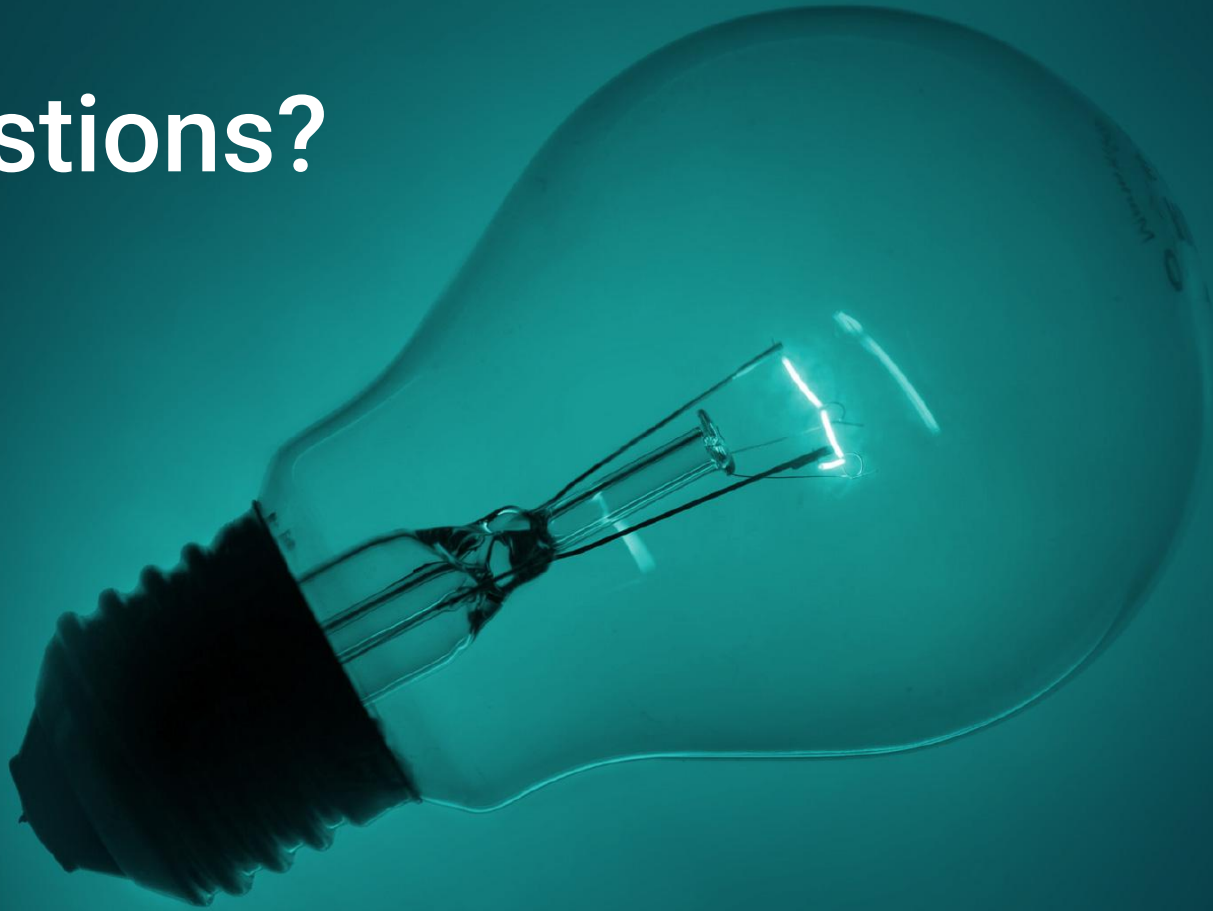
- Contributor who started with the Ballerina Hackathon
- Got an internship - joined as a software engineer



Final Thoughts

- OSS is about community and learning
- You don't need to be an expert to start
- Contribute, collaborate, grow
- Your OSS journey can start today

Questions?



Resources

- Ballerina Platform
 - <https://github.com/ballerina-platform>
- Ballerina contributor rewards program
 - <https://ballerina.io/community/#contribute-and-get-rewarded>
- GitHub Octoverse Report - 2024
 - <https://github.blog/news-insights/octoverse/octoverse-2024/>

Community Channels



<https://github.com/ballerina-platform/>



<https://stackoverflow.com/questions/tagged/ballerina>



<https://discord.com/invite/ballerinalang>



<https://twitter.com/ballerinalang>

Ballerina student program

- Ballerina student engagement program
<https://ballerina.io/community/student-program/>
- Ballerina ambassador program
<https://ballerina.io/community/ambassadors/>



Thank you!