Strengthening Your FOSS Project: Essential Files & Automated License Compliance (FOSSA-CLI)

PRESENTER: SANTHOSH NC | DATE: 26/09/2025

Greetings & Welcome to the session



To-Do List

- About Me
- A Game
- ▶ #1 Essential Files
- #2 Automated License Compliance (FOSSA-CLI)
- Hands-on Demo (If Possible)
- ► Final Words

When the meeting has no agenda...



Hi, I'm Santhosh NC.md

MARKDOWN 1 + # 🍓 Hi, I'm Santhosh NC 2 🏚 **Lead Infra Consultant @ ThoughtWorks** | 🗓 **9+ Years Experience** 3 * **CNCF Kubestronaut** 5 ▼ ### 😜 💂 Expertise 6 DevOps • DevSecOps • MLSecOps 8 ⋅ ### 1 Certifications 9 GCP (13) • Kubernetes (5) • GitHub (5) • AWS (11) 10 11 - ### @ Interests 12 Tech Enthusiast • Aspiring Bus Driver • Meme Engineer 13 15 > _Always exploring, learning and sharing tech with the community._ 16

Hi, I'm Santhosh NC

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Expertise

DevOps • DevSecOps • MLSecOps

Certifications

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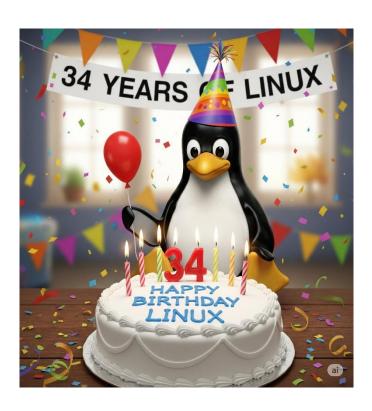
6 Interests

Tech Enthusiast • Aspiring Bus Driver • Meme Engineer

Always exploring, learning and sharing tech with the community.

What's the first thing that comes to your mind when you hear FOSS?





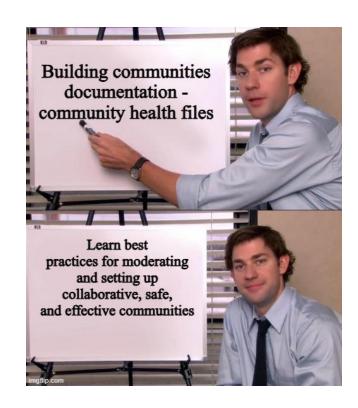
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#1 Strengthening Your FOSS Project: Essential Files

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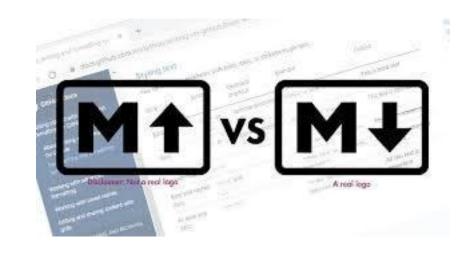
#1 Strengthening Your FOSS Project: Essential Files

- Reduce friction for newcomers
- Make maintainers' lives easier
- Increase trust and adoption
- Encourage repeat contributions
- Protect both the community and the maintainers



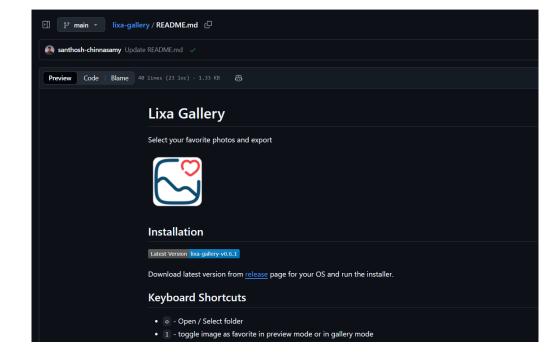
Markup and Markdown language

- Markup is a general term for content formatting - such as HTML
- But markdown is a library that generates HTML markup.



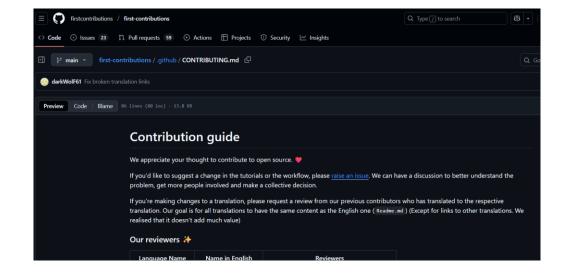
#1 README.md

- The project's landing page: what it does, how to install, basic usage.
- ► First impressions A clear README.md explains what the project does and how to use it.



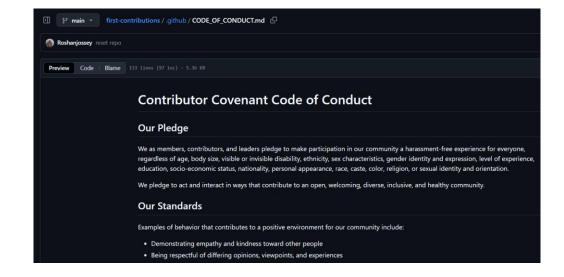
#2 CONTRIBUTING.md

- How to contribute: coding standards, PR process, branching strategy, issue filing.
- Onboarding CONTRIBUTING.md gives newcomers step-by-step instructions, reducing questions and bad PRs.



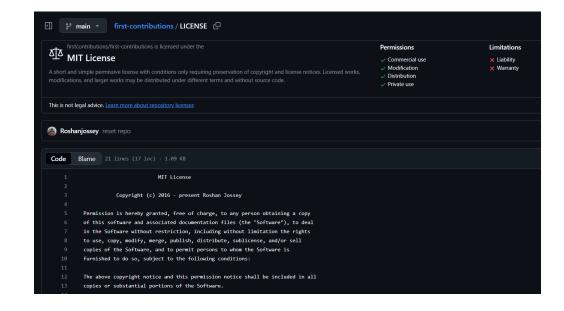
#3 CODE_OF_CONDUCT.md

- Expected behavior, reporting abusive conduct; helps maintain a healthy community.
- Safe environment CODE_OF_CONDUCT.md sets behaviour expectations and shows the project welcomes all.



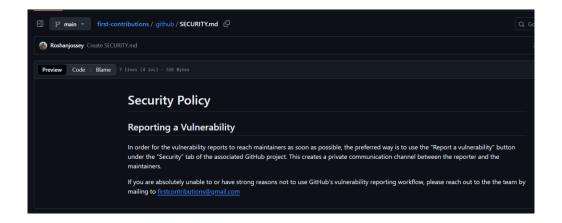
#4 LICENSE

- Legal terms; tells others how they can use and share the code.
- Legal clarity LICENSE tells users and contributors how they can use, modify, and distribute the code.



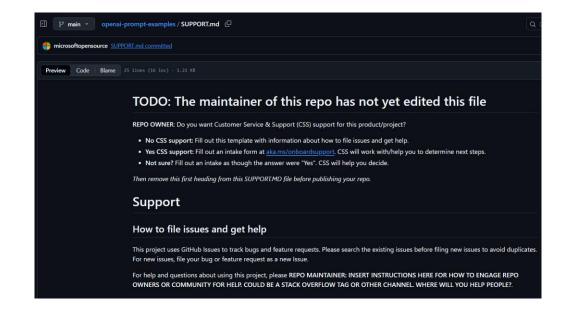
#5 SECURITY.md

- How to responsibly report vulnerabilities or security issues.
- Security SECURITY.md gives a private channel for vulnerability reports so they're not posted publicly.



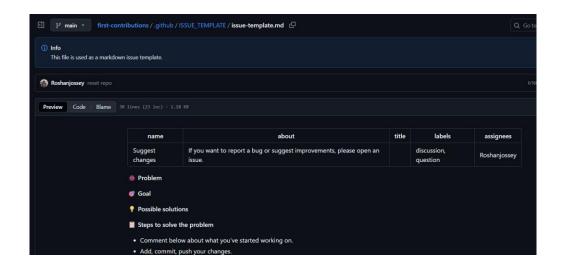
#6 SUPPORT.md

- Where to ask questions, links to docs, Slack/Discord/Forum.
- ➤ **Support channel** SUPPORT.md points people to the right forum, Slack, or docs instead of filing issues.



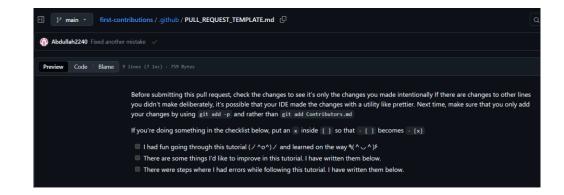
#7 .github/ISSUE_TEMPLATE/*.md

- Pre-defined templates for bug reports, feature requests.
- Predictable templates Issue and PR templates help gather the right information and speed up review.



#7 .github/PULL_REQUEST_TEMPLATE.md

- Pre-filled checklist and guidelines for PRs.
- Predictable templates Issue and PR templates help gather the right information and speed up review.



#8 FUNDING.yml

- ► Tells GitHub where to direct people who want to financially support the project.
- Sustainability FUNDING.yml provides a clear way for sponsors and supporters to financially back the project, helping maintainers sustain and grow their work.

How do I display Patreon, Open Collective, or another external funding platform on a project?

You can display one or more external funding options by adding them to your **FUNDING.yml** file:

patreon: patreon_username
open collective: open collective username

otechie:

ko_fi: ko_fi_username
tidelift: tidelift_package_name
community_bridge: community_bridge_username
liberapay: liberapay_username
issuehunt: issuehunt username

custom: ["custom_url.com", "another_custom_url.com"]

otechie username

Path for about default community health files

- The .github folder
- The **root** of the repository
- ►The docs folder

Special file - .gitignore

- Ignoring files
- You can configure Git to ignore files you don't want to check in to GitHub.
- ► This is useful for keeping log files, temporary files, build artifacts, or personal files out of your repository.

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#2 Automated License Compliance (FOSSA-CLI)

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fossas / fossa-cli

- **Zero-configuration polyglot tool** works with any codebase or build automatically.
- **Automatic dependency detection** supports multiple languages and build tools.
- **Extra scanning features** limited support for vendored dependencies, containers, and system libraries (WIP).
- FOSSA integration performs license scanning, vulnerability checks, and generates attribution reports.
- **Goal** become a universal tool for dependency analysis.

fossas/fossa-cli

integrates with...









Analogy / Example

- Imagine your open-source project is like a college group project.
 - Your codebase = the project report you and your team are writing.
 - ▶ **Dependencies** = the references, books, or resources you cite in your report.
 - Licenses & vulnerabilities = the rules about using those resources (like plagiarism rules or outdated/mistaken info).

- ► FOSSA CLI is like a super vigilant project checker for your group:
- Spots risky sources prevents potential issues (vulnerability detection).
- Examines references of references catches hidden risks (transitive dependencies).
- Integrates with workflow continuously reviews new additions (like a vigilant teacher).
- ► Generates a report card shows which references are safe, risky, or need fixes (comprehensive reporting).

fossa-cli example



My contribution to the Open source community

- ► Mentees from 7+ Colleges
- ► Al / ML Domain
- With the guidance of an AIML researcher based out of German
- Collaborating with 140+ Students
- GitHub
- GHAS
- Badges via Badgr



Using
Free and Open
Source
Software (FOSS)

Contributing to Free and Open Source Software (FOSS)

Personal touch meme



Let's Connect







Thank you

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