



# Open Source & The Apache Way





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# Agenda

- Open source software
  - a. What is Open source software?
  - b. History
  - c. Comparison with closed source
  - d. Why you should know Open Source?
  - e. Why you should contribute to Open Source?
  - f. Open-Source Opportunities



# Agenda

- Apache Software Foundation
  - a. History
  - b. The Apache Way
  - c. Principles
  - d. Projects
  - e. Apache Project Ecosystem
  - f. How to contribute
  - g. Ways to contribute
  - h. Where to start





# What is Open Source Software?

- Open Source software is software with source code that anyone can inspect, modify, and enhance.
- Source code is released under a license in which the copyright holder grants users the rights to study, change, and distribute the software to anyone and for any purpose.
  - Apache License 2.0
  - GNU General Public License (GPL)
  - MIT license
  - Mozilla Public License 2.0



# Open Source Software - History

- If we have some good, it must be shared, 'A childhood learning'
- Richard Stallman started the GNU Project and founded the Free Software Foundation.
- Breakthrough innovation - Linux

“Users should be empowered enough to fix and debug the software themselves-instead of simply operating it”



# Open-Source Vs Closed Source

- Open Source software is technically superior
- No vendor lock-ins
- Fewer Bugs and Faster Fixes
- Open-source software boosts innovation
- Direct user input
- Better security (more eyes)





# Why you should know Open Source

- It's trending!
- Offers numerous benefits:
  - a. Security
  - b. Training
  - c. Control
  - d. Stability



Google Open Source



Facebook  
Open Source



Uber Open Source



Apple Open Source



# Why you should contribute to Open Source?

- Find mentors and boost up your learning
- Build public artifacts that help you grow a reputation (and a career)
- It's empowering to be able to make changes, even small ones
- You build on your communication, teamwork, and problem-solving skills.
- Feel accomplished
- To get hired??



# Open-Source Opportunities

- India ICFOSS
- Hacktoberfest 2020
- Outreachy
- Google Summer of Code program (GSoC)
- Smart India Hackathon
- Internships and Projects

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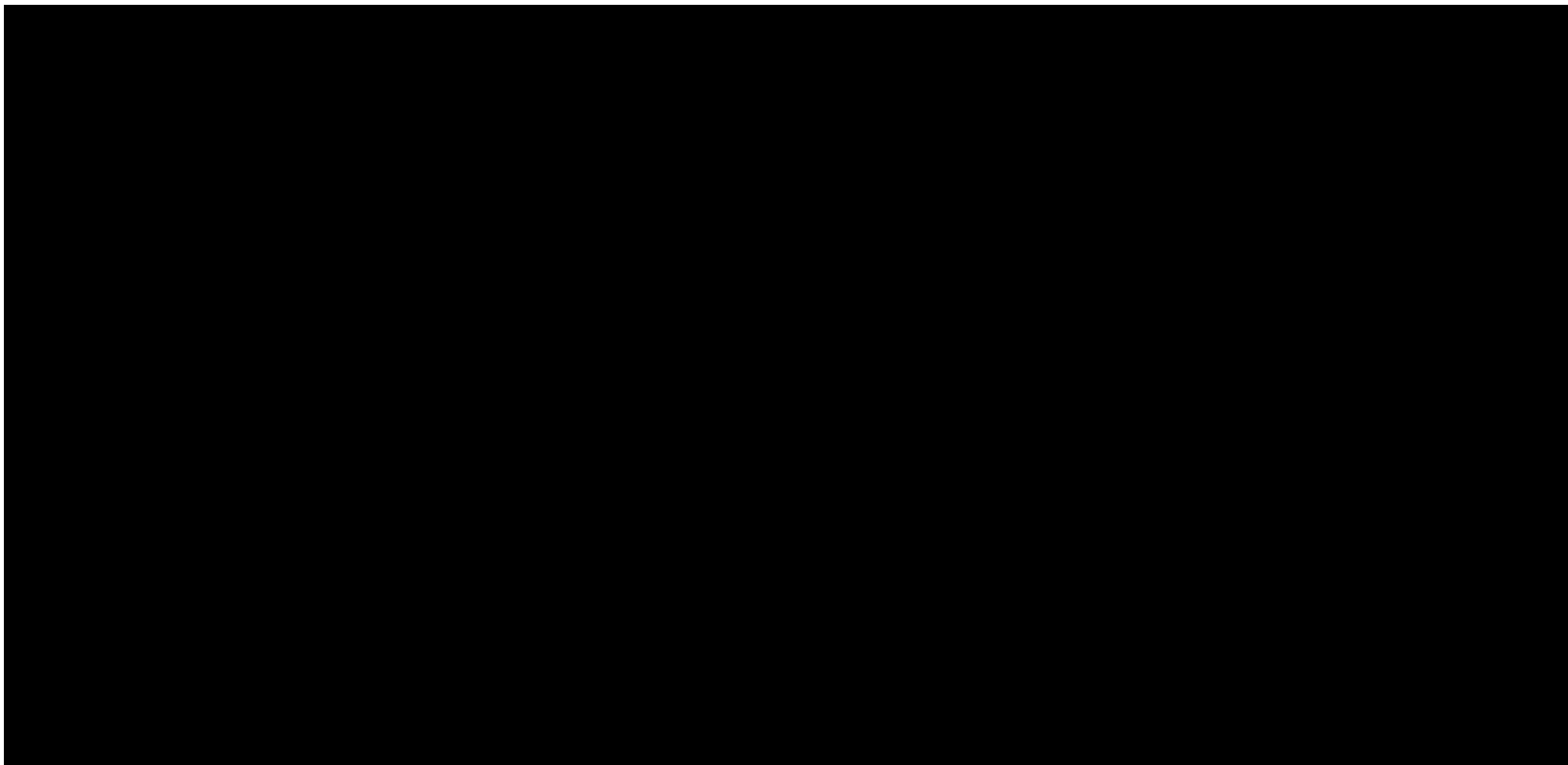
# Examples





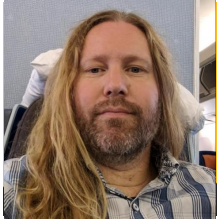
# Apache Software Foundation

- The World's Largest Open Source Foundation
- Established in 1999, the ASF is a US 501(c)(3) charitable organization
- Funded by individual donations and corporate sponsors
- Our all-volunteer board oversees more than 350 leading Open Source projects, including Apache HTTP Server
- Started with Apache™ HTTP Web Server project - the web server often simply called "Apache".





# ASF Stories



**Sander Stricker**  
Board Member

Developer Experience (DevX)  
at Bloomberg



**Sam Ruby**  
Board Member

IBM



**Roy T. Fielding**  
Board Member

Senior Principal Scientist,  
Adobe



**Bertrand Delacretaz**  
Board Member

Principal Scientist, Adobe



**Griselda Cuevas**  
V.P., Diversity and Inclusion

Open Source Program  
Manager at Google Cloud



**Rich Bowen**  
VP Conferences

Red Hat



# The Apache Way

The Apache Way is a living, breathing interpretation of one's experience with our community-led development process.

Apache projects and their communities are unique, diverse, and focused on the activities needed at a particular stage of the project's lifetime, including nurturing communities, developing great code, and building awareness.



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# Principles

Methodology followed to ensure collaborative environment across the projects

- Earned Authority
- Community of Peers
- Open Communications
- Consensus Decision Making
- Responsible Oversight
- Community Over Code
- Independence



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# Projects

- Currently 350+ open source initiatives at the ASF
- Apache HTTP Server: Web/servers
- Apache Kafka: Big data
- Apache Maven: Build management
- Apache CloudStack: Cloud
- Apache CouchDB: Database
- Apache OFBiz: Enterprise resource planning
- Apache Spark: Machine learning
- Apache Tomcat: Java/servers
- Apache NetBeans
- And many many more.....





# Apache Project Ecosystem

- Website
- Community
- Code repository - SVN/Git
- Issue tracker - Jira, BugZilla
- Documentation - Confluence
- Mailing list
- Automated builds

 Jira Software

 git



 Confluence

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# How to contribute?

- Be a user
- Sign the ICLA
- Subscribe to mailing list
- Project Documentation
- Code Development
- Become a Contributor
- Be Appreciated

## Making Your First Open-Source Contribution



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# Ways to Contribute

- Documentation, Tutorial and Examples
- Helping others with queries and questions
- Issue / Bug tracker triage
- Testing new fixes, helping reproduce problems
- Bug fixes and new features
- Writing addons and extensions
- Mentoring and volunteering for the foundation





# Where to start?

- Finding the right project
  - a. <https://projects.apache.org/projects.html>
  - b. <https://projects.apache.org/projects.html?category>
  - c. <https://projects.apache.org/projects.html?language>
- Join the community



# Thank You

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