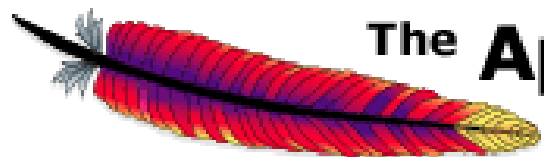# About: Apache
The Foundation,
The Apache Way,
100+ Apache Projects

Shane Curcuru | @shanecurcuru

Vice President, Brand Management
The Apache Software Foundation

http://communityovercode.com/2012/05/camelone-presentation/

The **Apache Software Foundation**
h t t p : / / w w w . a p a c h e . o r g /

Agenda

- Who am I: Introduction

- What is it: Apache Software Foundation

- How does it work: The Apache Way

- Who does the work: Apache projects

- Why Apache?

    - Compare / Contrast open source groups

Who am I: Introduction

- Shane Curcuru

- Apache Software Foundation

  – Member, Director

  – VP, Brand Management

  – PMCs: Community Development, Conferences; Apache OpenOffice Mentor

- Also an Applications Architect at IBM

What Is It?

- Who am I: Introduction

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- Why Apache?

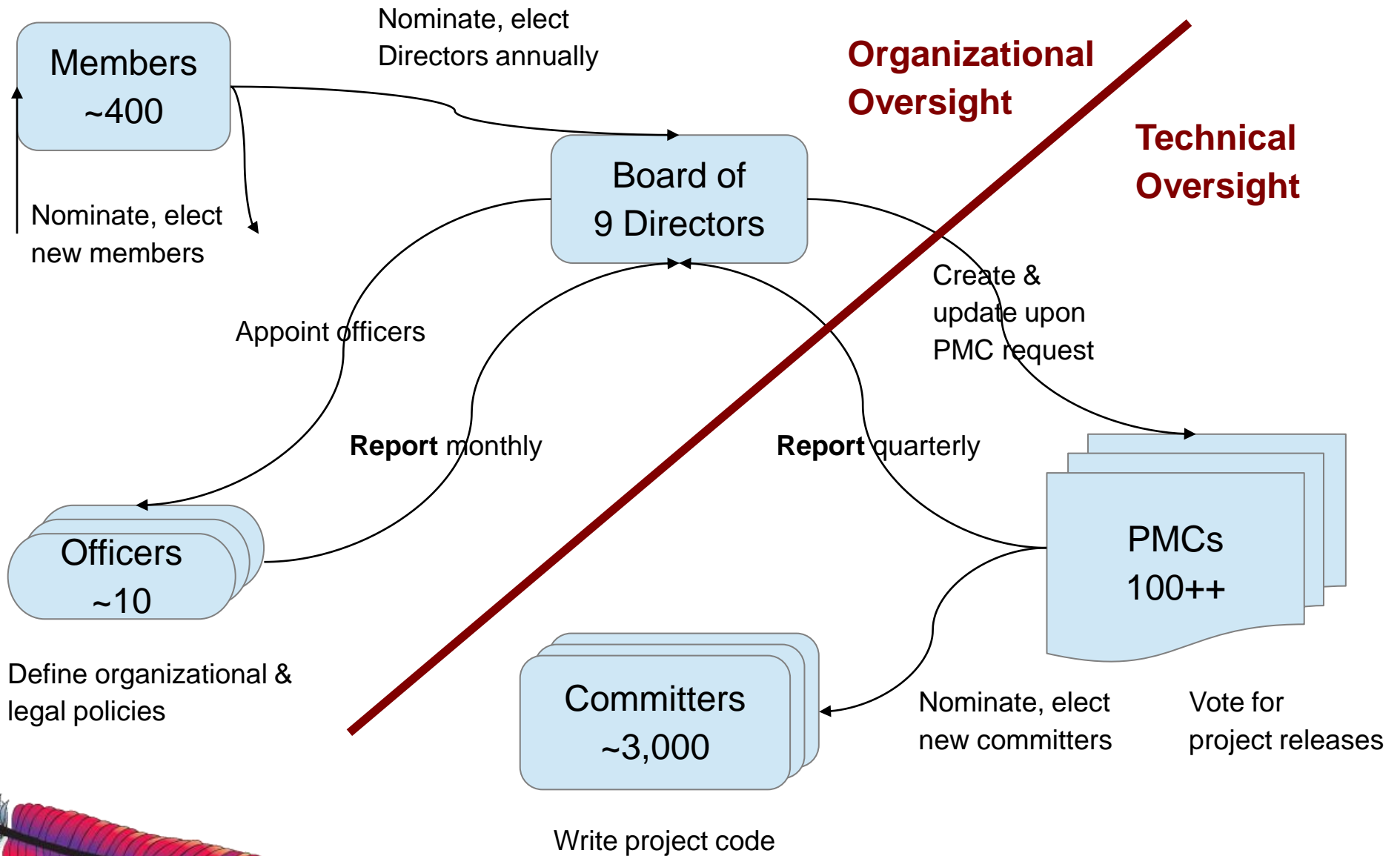 – Compare / Contrast open source groups

What is it: The ASF

- Membership-based corporation; Non-profit US 501(c)3 Charity

- Directors, officers all unpaid volunteers

- Paid contractors: sysadmins, press officer, EA

- Broad-based Membership of individuals ensures independence

➔ Collection of Apache project communities

Apache Org Chart

Members ~400

Nominate, elect Directors annually

Organizational Oversight

Technical Oversight

Nominate, elect new members

Board of 9 Directors

Appoint officers

Create & update upon PMC request

Report monthly

Report quarterly

Officers ~10

PMCs 100++

Define organizational & legal policies

Committers ~3,000

Nominate, elect new committers

Vote for project releases

Write project code

Apache Board of Directors

- Elected by ASF Membership annually

- Long-time directors: Jim Jagielski, Greg Stein, Roy Fielding, Sam Ruby

- Newer directors: Bertrand Delacretaz, Doug Cutting, Shane Curcuru, Brett Porter, Dan Kulp

- Provide legal and organizational oversight

Apache Mission: What

- Provide open source software to the public free of charge

Apache Mission: What

- Provide open source software to the public free of charge

  - "Apache aims to provide a pragmatic, non-technical framework to it's projects."
    - *Justin Erenkrantz*

- Let coders code; Foundation exists to do rest

Apache Mission: How

- Provide legal, organizational, and technical infrastructure for open source software development, and perform oversight to ensure project independence

- Provide shelter for individual volunteers from legal suits directed at Apache projects

- Provide a legal entity to serve as an independent recipient of donations

Budget and Sponsorship

- Annual budget: est. 790K USD in 2012

- Sponsorship program ensures independence

- Primary budget categories: sysadmin contractors; hardware & bandwidth; publicity

- Apache does **not** pay for software development

Apache Sponsors

- ## Platinum: Citrix, Facebook, Google, Microsoft, Yahoo!

- ## Gold: AMD, Hortonworks, HP, IBM

- Silver: Basis Technology, Cloudera, Go Daddy, Huawei, Matt Mullenweg, PSW Group, SpringSource

- Bronze: AirPlus Intl., BlueNog, Digital Primates, FuseSource, Intuit, Liip AG SA Ltd., Lucid Imagination, Talend, Twitter, Two Sigma Investments, WANdisco

- Separately: Long-term hosting & bandwidth providers

Apache License

- Apache projects use the Apache License 2.0

- Pragmatic and permissive

  - Maximum freedom for users

- Requires attribution "Give me credit"

- Includes patent grant

- Easily and frequently used by other groups

Contributor License Agreements

- AKA "ICLA" for Individuals – 4649 signed

  - ICLA required to become committer

- CCLA for Corporations – 318 signed

- Ensures that contributors have the right to contribute, and that ASF has right to license to the public under Apache license

- **No** copyright assignments – only a license

How does it work?

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The Apache Way

- Meritocracy – those who do, decide

- Peer-based – participate as individuals

- Oversight – responsible and independent

- Decisions – made by consensus

- Collaboration – public and asynchronous

- Participation – by individuals

Apache Way: Merit

- Merit is based on actual accomplishments within a project

- Existing community measures value

- Merit never expires

- Merit is not transferable

Apache Way: Peer-based

- Peer-based communities

- Developers represent themselves

- All committer/PMC votes equal +/-1

- Healthy communities create healthy code

- Diverse communities survive

Apache Way: Oversight

- PMCs provide technical oversight of all project releases, new committers/PMC members

    - Ensure clean IP in all Apache releases

- Board provides organizational oversight of all Apache projects

    - Ensure PMCs function independently

Apache Way: Decisions

- Decisions made by consensus, discussion

  - If consensus is not obvious, *then* vote

- Votes are by +1 / +-0 / -1

- All -1 or veto votes must have a *reason*

  - Releases may *not* be vetoed

- PMCs vote on *all* releases

  - Committers vote on code changes

Apache Way: Collaboration

- "If it didn't happen on the mailing list, it didn't happen." *- Roy Fielding*

- Any discussions F2F, IRC, wherever must be reported back to mailing list

- All decisions must be made on-list, and with a 72+ hour window for voting/discussion

- Lists are asynchronous and publicly archived

Apache Way: Participation

- Committers participate as individuals

  - Expected to wear appropriate "hat"

- Releases must have three +1 votes

  - Ensures multiple and independent eyes

- Corporations are never made committers, members, nor PMC members

Who does the work?

- Who am I: Introduction

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Apache Projects

- Over 100 code-producing community driven projects

  - 50+ Podlings in Incubation

- "Apache Projects include millions of lines of code overseen by an all-volunteer community across six continents. Apache technologies power more than half the Internet, petabytes of data, teraflops of operations, billions of objects, and enhance the lives of countless users and developers."

Apache Projects: Incubator

- New project proposals are made to the Apache Incubator PMC

  - PMC votes to accept on community merits

- Incubation process ensures podling community understands Apache Way

  - No technical direction required by incubation

- PMC votes to graduate podlings to TLPs

  (Top Level Projects)

Apache Projects: Attic

- Projects that cannot reliably report and/or find three +1 PMC votes to create releases

- When community lacks participation or diversity – not for technical reasons

- Board votes to "box up" the project and place in the Attic

- All resources are read-only for posterity

Apache Projects: Technology

- Apache projects provide leading technology:

  - Webservers, Java tools & stacks, search, cloud, big data, build tools, CMS/web framework, databases, OSGi containers, graphics, foobles...

  - And end user Office suites!

- "Competing" project technology is OK

  - If an active **community** following the Apache Way wants to join, great!

Apache Projects: Development

- Apache **never** pays for development

- Some committers/PMC members are corporate sponsored; some are not

  - Consultants, authors, students, researchers

- Each Apache project is an independent community of committers and users

Apache Projects

- Diverse communities provide independence

- Planning activities happen on-list

- "Powerplant" checkins are counter-productive

Apache Projects: Join Now!

- To join a project, subscribe to the mailing list

- All productive input is appreciated

- PMC members nominate and vote new committers periodically

- Every project has different expectations

- Many ways to contribute: patches, bugs, documentation, training, graphics,...

Don't Feed The Trolls

- All-inclusive public discussions and archives sometimes bring out the worst in people

  – Don't let them derail community

- "How Open Source Projects Survive Poisonous People (And You Can Too)"

  – *Ben Collins-Sussman & Brian Fitzpatrick*

  http://s.apache.org/DontFeedTheTrolls

Why Apache?

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Apache and Eclipse

Apache:

- Multiple projects

- Permissive license

- Individual members

- Free to participate

Eclipse:

Multiple projects

Semi-copyleft license

Corporate backing

Membership dues

One key difference:
Eclipse governance & board includes Strategic
Developers & Consumers – corporations.

Apache and Outercurve

Apache:

- Multiple projects

- Permissive license

- Individual members

- Board oversight

Outercurve/CodePlex:

Multiple projects

Various licenses

Corporate backing

Individual governance

One key difference:
Microsoft backing, and each project provides own style and set of governance.

Apache and Python

Apache:

- Multiple projects
- Permissive license
- Individual members
- Independent board

Python:

Single project

Permissive license

Individual members

Guido as BDFL

One key difference:
Python focuses on just the programming language.

Apache and FSF / GNU

Apache:

- Multiple projects

- Permissive license

- License contribution

- Individual members

FSF / GNU:

Multiple projects

Copyleft license

Holds copyright

Corporate staff

One key difference:
FSF advocates software freedom as ideology.

Apache and Mozilla

Apache:

- Multiple projects

- Permissive license

- Individual members

- No specific technical focus

Mozilla:

Multiple projects

Semi-copyleft license

Corporate staff

End user project focus

One key difference:
Mozilla's end user focus means different level of
marketing, trademark, and release management.

Apache Similarities

- What's similar about these groups?

- Most explicitly adopted parts of Apache Way

- Voting; consensus & community; merit

- Independent foundations

- Several have explicitly noted the copying of their ways from Apache
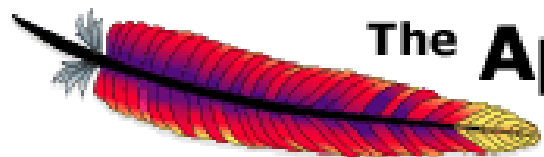
Colophon

- Credits
    - Past Apache Way slides by Jim Jagielski
    - & Justin Erenkrantz
    - Collective wisdom of the Apache Membership
- Apache OpenOffice 3.4 Impress
- Open Sans fonts

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Thank You!

- Questions? @shanecurcuru

- Learn more about Apache:

  http://community.apache.org/

The Apache Software Foundation
http://www.apache.org/

Apache's Tagline

"We are more than a group of projects sharing a server; we are a community of developers and users... sharing a common Apache Way of developing software."