

The Apache Software Foundation: No Jerks Allowed!



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Why should I pay attention?

- *Committer to Apache HTTP Server, APR, Subversion (just graduated!), and Serf*
- *President, The Apache Software Foundation*
- *Ph.D. from Univ. of California, Irvine*
 - *Computational REST (next-gen web arch.)*
 - *<http://www.erenkrantz.com/CREST/>*
- *CTO, Project WBS*

Apache Top-level Projects

Abdera	CXF	James	POI	Tiles
ActiveMQ	DB (Derby)	Lenya	Portals	Tomcat
Ant	Directory	Logging	Qpid	Turbine
APR	Excalibur	Lucene	Roller	Tuscany
Archiva	Felix	Maven	Santuario	Velocity
Axis	Forrest	Mina	ServiceMix	Wicket
Buildr	Geronimo	MyFaces	Shindig	Web Services
Camel	Gump	ODE	Sling	Xalan
Cassandra	Hadoop	OFBiz	SpamAssassin	Xerces
Cayenne	Harmony	OpenEJB	STDCXX	XML
Click	HC	OpenJPA	Struts	XMLBeans
Cocoon	HTTP Server	OpenWebBeans	Subversion	XML Graphics
Commons	iBATIS	PDFBox	Synapse	<i>...and Incubator</i>
Continuum	Jackrabbit	Perl (mod_perl)	Tapestry	<i>podlings...</i>
CouchDB	Jakarta	Pivot	TCL	

Open Source & Me

- *Started contributing to Apache HTTP Server in early 2001...*



<http://www.flickr.com/photos/x180/2704965763/>
(James Duncan Davidson)

<http://www.flickr.com/photos/bluxte/2103773754/>
(Sylvain Wallez)

What Apache means to me...

- *I've had the good fortune to work with some of the best programmers in the world on software used by millions. More importantly, they are even better friends.*
- *Proud to see our community grow...*
- *I hope that this talk helps reduce the 'barrier' of entry to our community.*

Committer Geographic Diversity



<http://people.apache.org/map.html>

Challenges and advantages arise from this!

Project Diversity in Apache

- *Seventy top-level projects (TLPs)*
 - *Java, C, C++, Perl, etc. projects...*
- *It's okay for projects to be in "same" space*
 - *Ant/Maven, Pig/Hive, Axis/CXF...*
- *Over thirty projects currently in "pipeline"*

Apache aims to provides a pragmatic non-technical framework to its projects

Apache's mission

The Apache Software Foundation provides support for the Apache community of open-source software projects. The Apache projects are characterized by a collaborative, consensus based development process, an open and pragmatic software license, and a desire to create high quality software that leads the way in its field.

Apache's mission (redux)

- *Let developers focus on what they do best: code. Foundation exists to do rest.*
- *“The Apache Way”*
 - *Open development vs. open source*
 - *All technical decisions about a project are made in public (mailing lists)*

Founding of Apache

- *Started as “Apache Group” (8 members)*
- *Resumed work on NCSA httpd*
 - *UIUC put httpd in public domain, but essentially abandoned it*
 - *Chose permissive licensing (more later)*
- *Informal corporate structure until...*

Creation of Foundation

- *Incorporated with 21 members in 1999*
 - *274 members and 52 emeritus today*
- *Provides formal corporate structure*
- *Membership-based organization*
- *IRS 501(c)3 public charity status*
 - *Donations by individuals tax-deductible*

Organization of ASF

- *Each Apache project is independent*
- *Grouped as 'top-level' PMCs (TLP)*
 - *Board: Social - not technical - guidance*
- *Some TLPs have 'sub-projects'; discouraged*
- *Karma in one PMC doesn't grant rights in another PMC - earn karma independently!*

Board of Directors

- *Elected yearly by membership*
- *Shane Curcuru (IBM), Doug Cutting (Cloudera), Justin Erenkrantz (Project WBS), Roy T. Fielding (Day), Jim Jagielski (VMWare), Geir Magnusson, Jr. (Gilt), Brian McCallister (Ning), Brett Porter (G2iX), Greg Stein (Independent)*

Executive Officers and Staff

- *Exec officers appointed by Board (unpaid!)*
 - *Chairman, President, Secretary, Treasurer, Executive Vice President*
- *Chairman and President typically split external visibility roles; Chairman responsible for Board; President oversees day-to-day operations*

Hardware Infrastructure

- *Bulk of work done by volunteers*
 - *If a project wants it, they must volunteer!*
- *2 paid system administrators fill “holes”*
- *Main data centers: OSU OSL, SURFnet (.nl)*
- *Build farms at Traci.net and Yahoo!*
- *Off-site backups at UC Irvine*

Other Committees

- *ConCom: ApacheCon and smaller events*
- *Legal: work w/EFF, SFLLC, & Larry Rosen*
- *Publicity: Deal with press/outside world*
- *Brand Management: Trademarks/licensing*
- *Fundraising: Sponsorship program*

Budget

- *2009-2010FY Budget (May 1 - April 30)*
- *Projected income: \$540,000*
 - *Rely upon public and corporate sponsors*
- *Projected expenses: \$404,000*
 - *Biggest expense is infrastructure: \$150k*

<http://www.apache.org/foundation/records/>

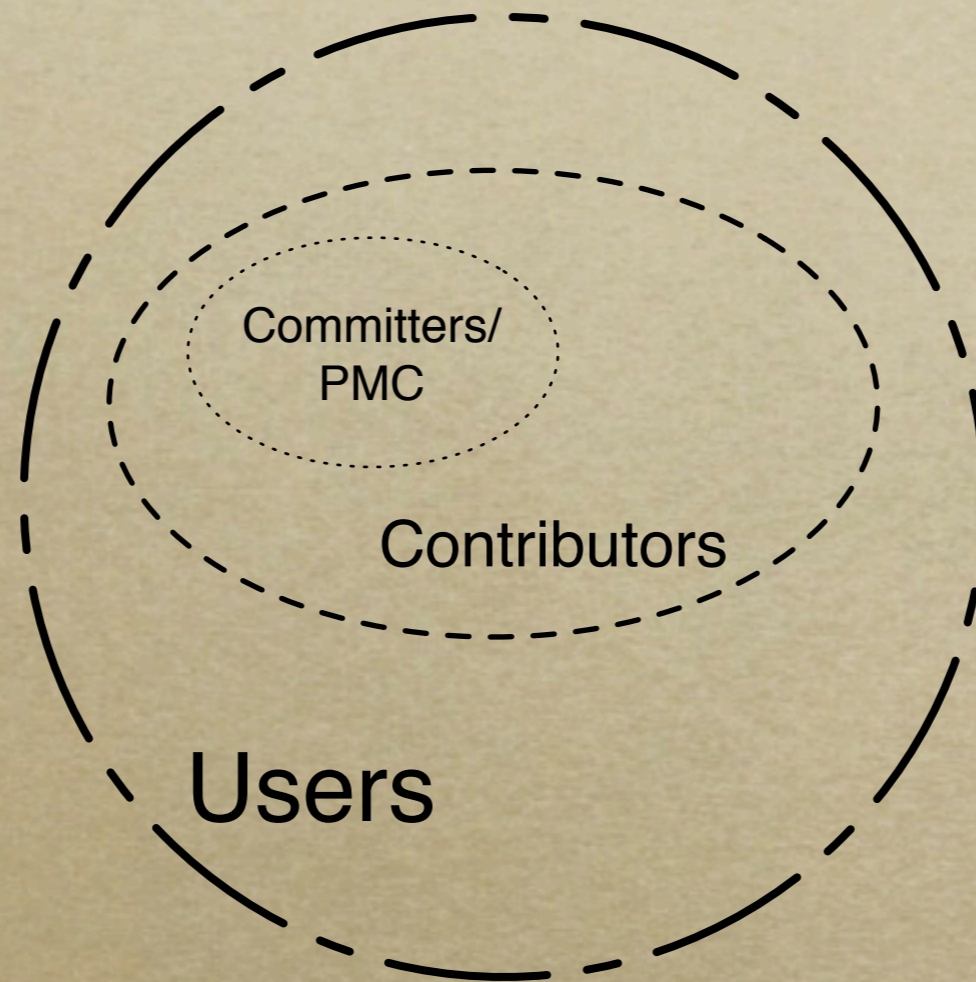
ASF Sponsorship Program

- *Platinum (\$100,000 per year)*
 - *Yahoo!, Microsoft, Google*
- *Gold (\$40k/yr): HP, Facebook*
- *Silver (\$20k/yr): VMWare, Progress (IONA)*
- *Bronze (\$5k/yr): AirPlus International, BlueNog, Intuit, Joost, Matt Mullenweg, Two Sigma Investments*

Participation in Java Standards

- *Many of our projects implement JSRs*
- *Our goal is to put the “Community” in JCP*
- *Member, Exec. Committee for J2SE/J2EE*
- *Harmony and JCK ; “field of use”*
- *Voted JCP Program Member of the Year:
2007, 2008, 2009*

Sphere of community



How do you 'jump' between 'spheres'?

Contributions

- *Apache wants voluntary contributions*
 - *Not copyleft!*
- *Many forms of contributions*
 - *evangelism, bug reports, testing, documentation, code, design feedback*
- *Contributing is easier than you think!*

Indirect financial support

- *Apache does not pay for development*
- *Many (not all!) developers are paid by a third-party to work on the project*
 - *Participate in Google Summer of Code*
- *Foundation bears indirect support costs*
 - *Infrastructure, publicity, etc.*

Motivations & Business Models

- *Each contributor has own motivations*
- *Seeking help from others on a big project*
- *Commercial support: who to call at 2am?*
- *Common/shared platform: value add on top of Apache products*
- *...or it's fun/interesting/challenging!*

Where decisions happen

- *Can't kibitz in the morning over coffee*
- *First time meet face-to-face is at events*
- *Mailing lists are the pulse of the project*
 - *IRC, AIM, Jabber, etc. not for decisions*
- *Roy's mantra: "If it doesn't happen on-list, it didn't happen."*

Finding that list!

- *Should be listed on every project's site*
- *dev@ - dev-to-dev discussions (**primary list**)*
- *commits@ - automated source changes*
- *users@ - user-to-user help (optional)*
- *private@ - discussion of people (committers)*
- http://mail-archives.apache.org/mod_mbox/

Find a bug? File an issue!

- *Be descriptive: provide reproduction recipe (step-by-step instructions of what you did!); provide version info (latest version?), etc.*
 - *How to report bugs effectively:*
<http://www.chiark.greenend.org.uk/~sgtatham/bugs.html>
- <http://issues.apache.org/>
 - *Either Bugzilla or JIRA are used*

Fetching that latest version

- *Subversion is the version control system*
- *<http://svn.apache.org/repos/asf/>*
 - *(DNS load-balanced with US & European server)*
 - *ViewVC Browser: <http://svn.apache.org/viewvc/>*
- *We are experimenting with git-svn*
 - *<http://wiki.apache.org/general/GitAtApache>*

Quick guide to Subversion

% svn co http://svn.apache.org/repos/asf/apr/apr/trunk/ apr

% ...make changes...

% svn diff

% ..file patch in issue tracker, email that patch to list, etc...

*O'Reilly SVN book (free):
<http://svnbook.red-bean.com/>*

Creating patches for review

- *Send to right developer mailing list*
- *Unified diff (`svn diff` outputs this by default)*
- *Subject: `[PATCH] <one-line description>`*
- *Include log message: describe “why”*
- *Comments in code: describe “how”*

Scoping contributions

- *Do not do “powerplant” contributions*
 - *Large changes are hard to review*
 - *Break patches up into small chunks*
- *Before starting large changes, email plan to developer list - explain how and why*
- *Try to get feedback early and often*

Expectations around feedback

- *You may have the greatest and most obvious change in the world, but you get dead silence*
- *Not your fault - may be a busy time or 'right' person may be on vacation*
- *If you don't get a reply in a week, do try again. Keep trying, but don't be rude.*

Voting

- *Vote on releases, code, and ideas...*
- *+1? -1? +0? -0?*
- *“Binding” vote given to committers*
 - *Everyone should feel free to vote*
- *Cast your vote on-list*
- *...what about vetos?*

The dreaded -1 (veto)

- *Power given to all committers to absolutely stop an action*
- *Code can be vetoed - releases can not*
- *Some projects have an 'override'*
- *Vetos should only be cast as a measure of last resort; use judiciously!!*

Rule of 3 and 72

- *3 voters is minimum acceptable quorum*
 - *Ensures diversity and true community*
- *72 hours minimum time frame for votes*
 - *Accommodate long weekends too*
 - *Generally err on side of caution*

Apache commit policies

- *RTC - Review then Commit*
 - *At least 3 +1s; no vetos*
- *CTR - Commit then Review*
 - *Lazy consensus - assumed okay*
- *Different policies per PMC or codebases*
 - *Stable: RTC, Trunk: CTR*

No Jerks Allowed!

*“How Open Source Projects Survive
Poisonous People (And You Can Too)” by
Ben Collins-Sussman and Brian Fitzpatrick*

<http://video.google.com/videoplay?docid=-4216011961522818645>

- Most people are nice; there are dingbats, or may just be someone having a bad day*
- Trolls exist...don't feed them.*
- Don't become a poisonous person.*

Legal framework

- *ASF philosophy is that code can be used commercially without restrictions*
 - *Just don't call it Apache Foo!*
- *Apache License, version 2.0*
 - *Grants copyright and patent licenses*
- *Many non-ASF projects use ALv2 now*

Incorporating third-party code

- *ALv2 is GPLv3-compatible - can be used by GPL projects but no GPL within ASF*
- *<http://www.apache.org/legal/3party.html>*
- *<http://www.apache.org/legal/resolved.html>*
 - *List of licenses permitted / disallowed*
- *Questions to legal-discuss@apache.org*

What am I signing?

- *Contributor License Agreement (CLA)*
 - *Gives ASF 'license' - not ownership*
 - *Required before getting SVN account*
 - *Fax or email to secretary@apache.org*
- *Corporate CLA form - when needed?*

Let a thousand flowers bloom

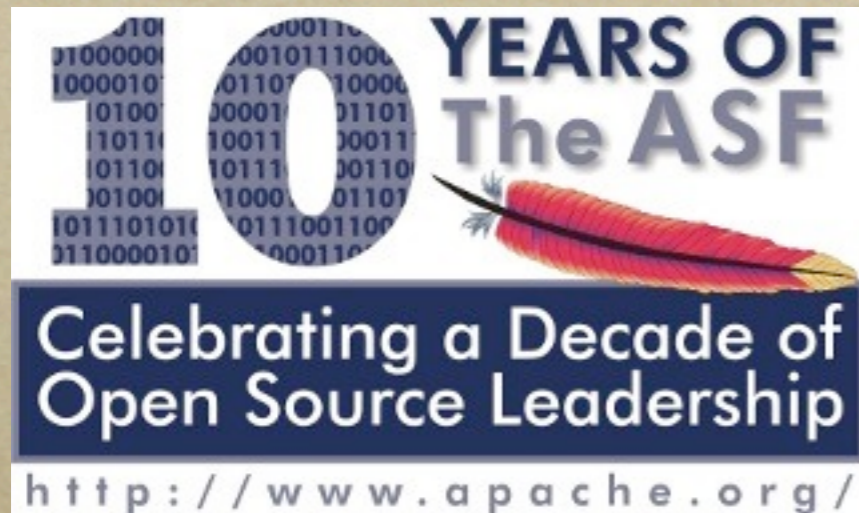
- *Grassroots: interesting projects welcomed*
- *Board doesn't say "We want X", instead developers say "We think X is cool"*
 - *Helped keep us at forefront of innovation*
- *Community support is essential - we are not interested in "solo" projects, but how can we help create a viable community?*

Starting new Apache projects

- *Incubator - “podlings” can be nominated and eventually “graduate” to be a PMC*
 - *Needs foundation member to **mentor***
 - *Usually legal and/or community issues*
- *Labs - once you are a committer, you can have a sandbox (shared mailing list, no non-committers, no releases)*

Beyond a committer...

- *Once you are committer, you can then become a PMC member, foundation member, Director...even President!*
- *You can nominate other foundation (or PMC) members; can serve as mentor for Incubating projects; vote for Board.*
- *Maybe you too can then give this talk!*



Thanks! Questions?

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Other Recommended Resources

- *Producing OSS*
by Karl Fogel - <http://producingoss.com/>
- *Getting Started in Open Source: An Overview for Newbies*
by Leslie Hawthorn and Cat Allman (at SCaLE 7x and OSCON 2009)
 - http://scale7x.socallinuxexpo.org/sites/scale7x.socallinuxexpo.org/files/SCALE_Final_allman_lhawthorn.pdf