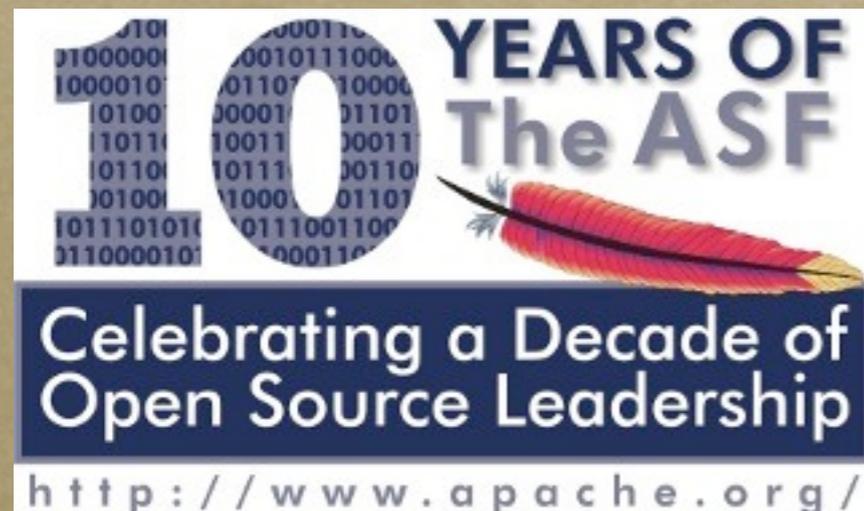


The Apache Software Foundation: No Jerks Allowed!



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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

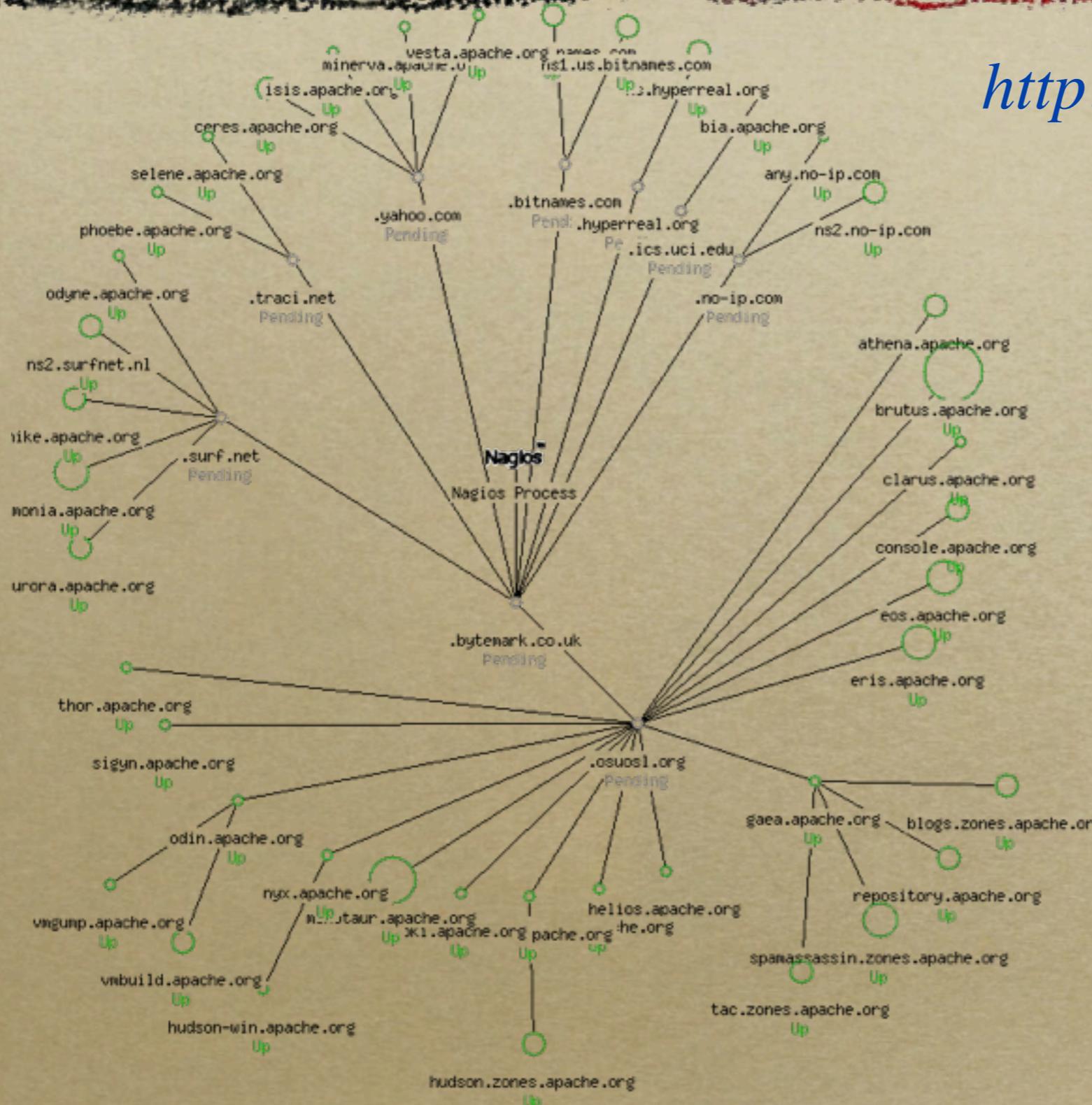
- *Elected yearly by membership*
- *Shane Curcuru (IBM), Doug Cutting (Cloudera), Justin Erenkrantz (Project WBS), Roy T. Fielding (Day), Jim Jagielski (VMWare), Geir Magnusson, Jr. (Gilt), Brian McCallister (Ning), Brett Porter (G2iX), Greg Stein (Independent)*

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 Map

<http://monitoring.apache.org/>



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/>

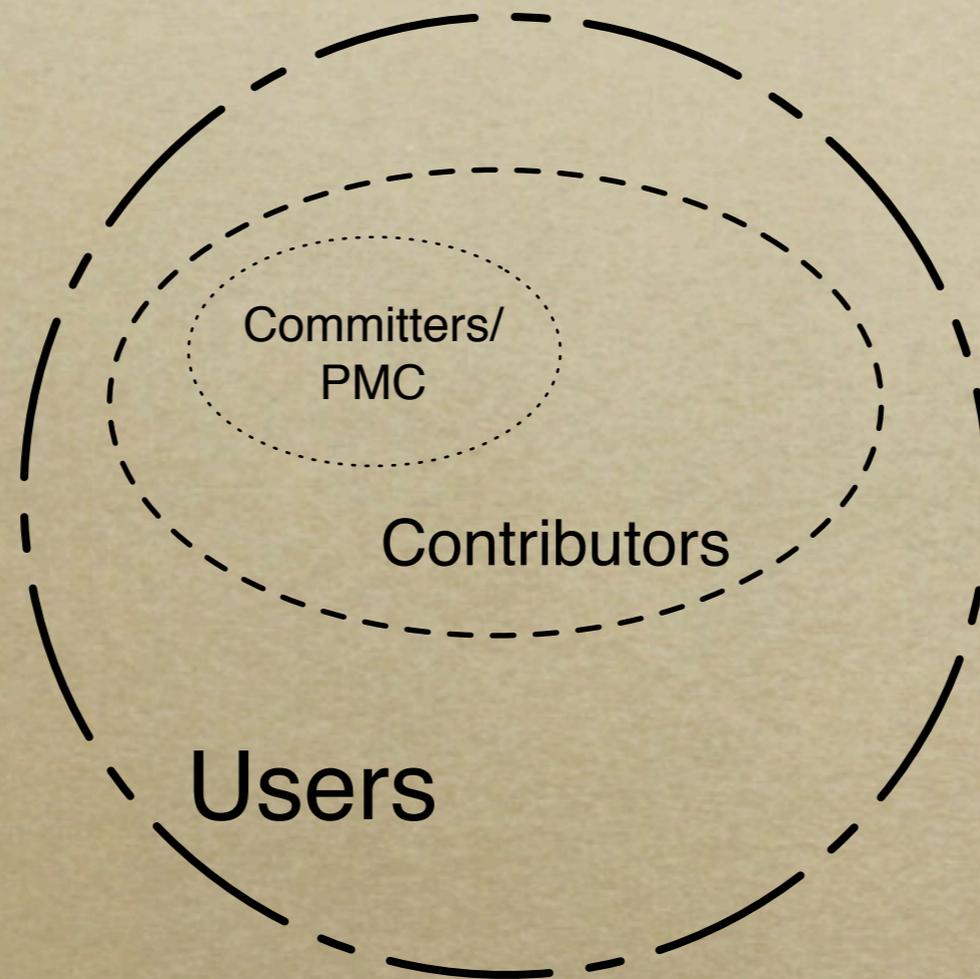
ASF Sponsorship Program

- *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

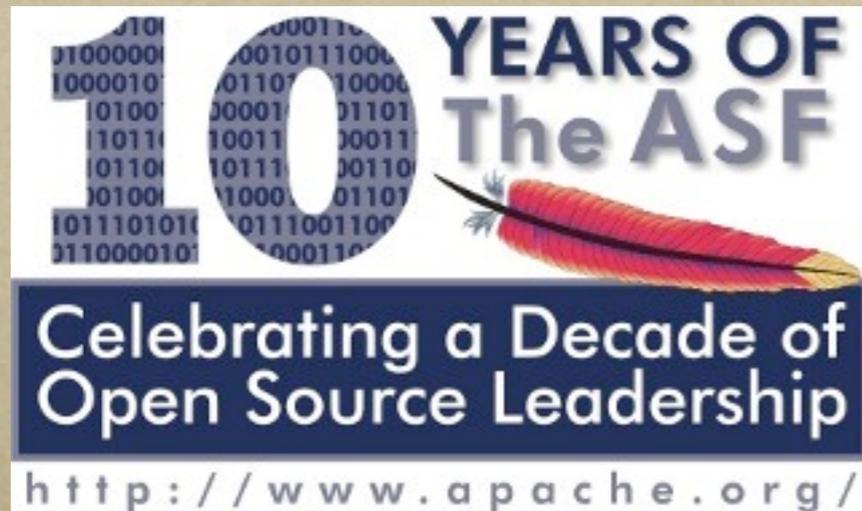
- *Grassroots: interesting projects welcomed*
- *Board doesn't say "We want X", instead developers say "We think X is cool"*
 - *Helped keep us at forefront of innovation*
- *Community support is essential - we are not interested in "solo" projects, but how can we help create a viable community?*

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