Who is Roman Shaposhnik?

→ Engineer and Entrepreneur
  ◆ Founder of ZEDEDA Inc. (IoT Edge platform company)
  ◆ Ex-director of Open Source Strategy at Pivotal Inc.
  ◆ Ex-Sun microsystems, Huawei, Yahoo!, Cloudera
→ Apache Committer - from 2010
→ Apache Member - from 2014
→ Apache Board Member and VP of Legal Affairs - from 2018
→ Member, Incubator Project Management Committee, Bigdata
Apache Software Foundation: The World’s Largest Open Source Foundation
The ASF’s Mission

The Apache Software Foundation (ASF) is a US 501(c)(3) charitable organization. Its mission is to provide Open Source software for the public good. We do this by providing services and support for many like-minded software project communities of individuals who choose to join the ASF.

A neutral space where projects which are independent from any corporate influence can prosper and create Open Source software for the public good. Under the business-friendly Apache License 2.0
Established as a public charity in 1999

Mission:

To provide software at no charge for the public good.
6513 Committers
730 Members
196 PMCs
52 Podlings
First Project

World’s Most Popular Server
2018: 23rd Anniversary
[19 years at the ASF]
Apache Project Domains

Artificial Intelligence
Internet of Things
Big Data
Financial Management
Climate Change
...

...
Not Apache Project Domains [Yet]

Robot Apocalypse
Autonomous Vehicles
Interplanetary Exploration
Blockchain
Your Project Here
ASF provides project governance

“The Apache Way”
“The Apache Way” core principles

→ Rough consensus and working code
→ Small reversible steps
→ Any constructive contribution DOES earns merit...
→ ...while corporate affiliation and seniority DOESN’T
→ Merit doesn’t expire
→ Merti doesn’t give you authority it gives you access
→ No BDFLs, no vetoes - relying on building consensus instead
“The Apache Way”
AKA
“Community over code”
Why the ASF Works: The Apache Way

➔ **Meritocracy** — Individuals earn merit by what they do and how.

➔ **Transparency** — Our projects are developed in the open, so everyone who wants to participate is able to.

➔ **Community** — We place community health over all else.

And yet it is NOT the right fit for every project
The Apache Way Ensures:

- Vendor Neutrality
- Diversity
- Trust
- Safety
code evolution
1996-2017
And also a number of Bronze sponsors, full up-to-date list at
http://www.apache.org/foundation/thanks.html
Who is Craig Russell?

→ Software Architect
  ◆ Object Data Management Group
  ◆ Java Data Objects (JDO)
  ◆ Database Jones (MySQL)
→ Apache Committer - from 2005
→ Apache Member - from 2007
→ Apache Secretary - from 2010
→ Member, Incubator Project Management Committee
Why existing projects come to Apache?

➔ Corporate Citizenship — Give to charity

➔ Higher Quality — More developers with different perspectives

➔ Collaboration v. Competition — It’s easier to work with competitors on open source projects that benefit everyone

➔ “Free” Training — The community can train your new developers easier than you can

➔ Legal Protection — The ASF protects contributors
The Apache Incubator

- The official entry path for projects to enter The Apache Software Foundation.
- Mentorship helps train communities in "The Apache Way".
Podlings Undergoing Development
The Apache Incubator

➔ Learn The Apache Way
➔ Build the Community
➔ Establish Licensing
➔ Integrate Infrastructure
➔ Release
The Apache Incubator

➔ Takes 1-2 years sometimes longer
➔ Graduate to a Top Level Project
➔ Not all projects graduate
Incubation: Build the Community

➔ **Users** — Users are the reason a project exists. No users ⇒ no project

➔ **Contributors** — Our projects depend on contributions from the community -- bug reports, email discussions, bug fixes, documentation

➔ **Committers** — Frequent contributors become committers after demonstrating merit

➔ **Project Management Committee Members** — The PMC is responsible for setting the direction of the project, authorizing releases, and voting new committers and PMC members
Community

- **Politeness** — Be nice
- **Respect** — Everyone’s point of view has value
- **Trust** — Assume the best intentions
- **Humility** — Others might have better ideas

Code of conduct:
https://www.apache.org/foundation/policies/conduct.html
Provenance — Establish where every line of code originated

Trademarks — Must not conflict with existing names

Software Grants — The owner of the intellectual property of existing code/test/documentation must grant rights to Apache

Contributor Licenses — Contributions while at Apache are governed by contributor licenses:
  - Copyright
  - Patent
  - Distribution/Modification
Infrastructure: Keeping the wheels on

- **Mail lists** — “If it isn’t on an archived list, it didn’t happen”. Communication and review are essential to project governance.

- **Source repository** — Viewing all parts of the system is open to the public. Changes are made only by committers via procedures established by the PMC.

- **Build/Test** — Most projects now incorporate continuous integration build and test processes.

- **Establish a Web Presence** — Each project has its own unique web page https://project.apache.org
Release distributions

- Legally an act of the Foundation
  - “Does NOT need to work”
  - “Does need proper licensing”
- Authorized by the Project Management Committee
  - Vote required
  - Digital Signature(s) required
- Distributed via extensive mirror system
Demonstrate that the project can operate independently:
- Self-governance
- Release management
Establish legal framework
Publicity
Who is Justin Mclean?

- Freelance developer for 25+ years
  - IoT Meetup Sydney
- Apache Committer - from 2012
- Apache Member - from 2014
- Member, Incubator Project Management Committee, VP Apache Incubator, VP Apache Mynewt
- Mentor for Dubbo, RocketMQ and sApex
Apache License

- Universal donor
- Pragmatic
- Free for commercial and non-commercial use
- Compatible with other Open Source licenses
 Releases

➔ Are signed
➔ Need an incubating disclaimer
➔ Have LICENSE and NOTICE files
➔ Follows license term of ALv2 and any included 3rd party software
➔ Source files have ASF headers
➔ Consist of source no compiled code
Voting on Releases

- Vote in the open on mailing list
- Vote open for 72 hours
- Release needs to comply with ASF policy
- Needs 3 +1 votes and more +1’s than -1’s
- A -1 vote (a veto) doesn’t block the release
- -1 needs to have a reason to be valid
- Can change your vote
- If vote passes then the IPMC votes on the release
- If vote fails then create new release candidate and vote again
Why you might vote -1

- Unexpected compiled code in release
- Includes software with incompatible license
- Issue with LICENSE and NOTICE files
- Issue with copyright
- Missing ASF headers
- Contains encryption software
Practice makes perfect

- Not expected to get it right first off
- Licensing is complex
- May not be familiar with policy
- Policy doesn’t cover all situations
- Policy is more guidelines, there are few absolute rules
- Release early and release often
- Each release better than the last
Licensing

➔ **Category A** - can depend on and include in release
  ◆ MIT, 2 and 3 clause BSD

➔ **Category B** - can depend and may be able to include
  ◆ Common Development and Distribution License (CDDL), Eclipse Public License (EPL), Mozilla Public License (MPL), Creative Common Attribution (CC-A)

➔ **Category X** - can’t depend on or include in release
  ◆ GPL, LGPL, non commercial licenses, JSON
Binary releases

- Are not required
- Are not official releases
- Also need to follow policy
Growing the community

- Recognising merit
- Initially committers == PPMC
- PPMC appoint new committers and PPMC members
Frequently Asked Questions

➔ What is BDFL
➔ What are Rule of 3 and Rule of 72
➔ What is JFDI
➔ What are RTC/CTR
➔ What is Lazy Consensus
The ASF is funded through tax-deductible contributions from corporations, foundations, and private individuals.

- The ASF spends 10% or less on overhead.

- ASF Infrastructure keeps Apache critical support services running 24x7x365 for less than US$5K per project/year.

- Help keep Apache software projects freely available to ALL around the world.