

# The Apache Way

Apache Asia Roadshow :: 14 AUG 2010

J. Aaron Farr



道可道非常道

名可名非常名

無名天地之始

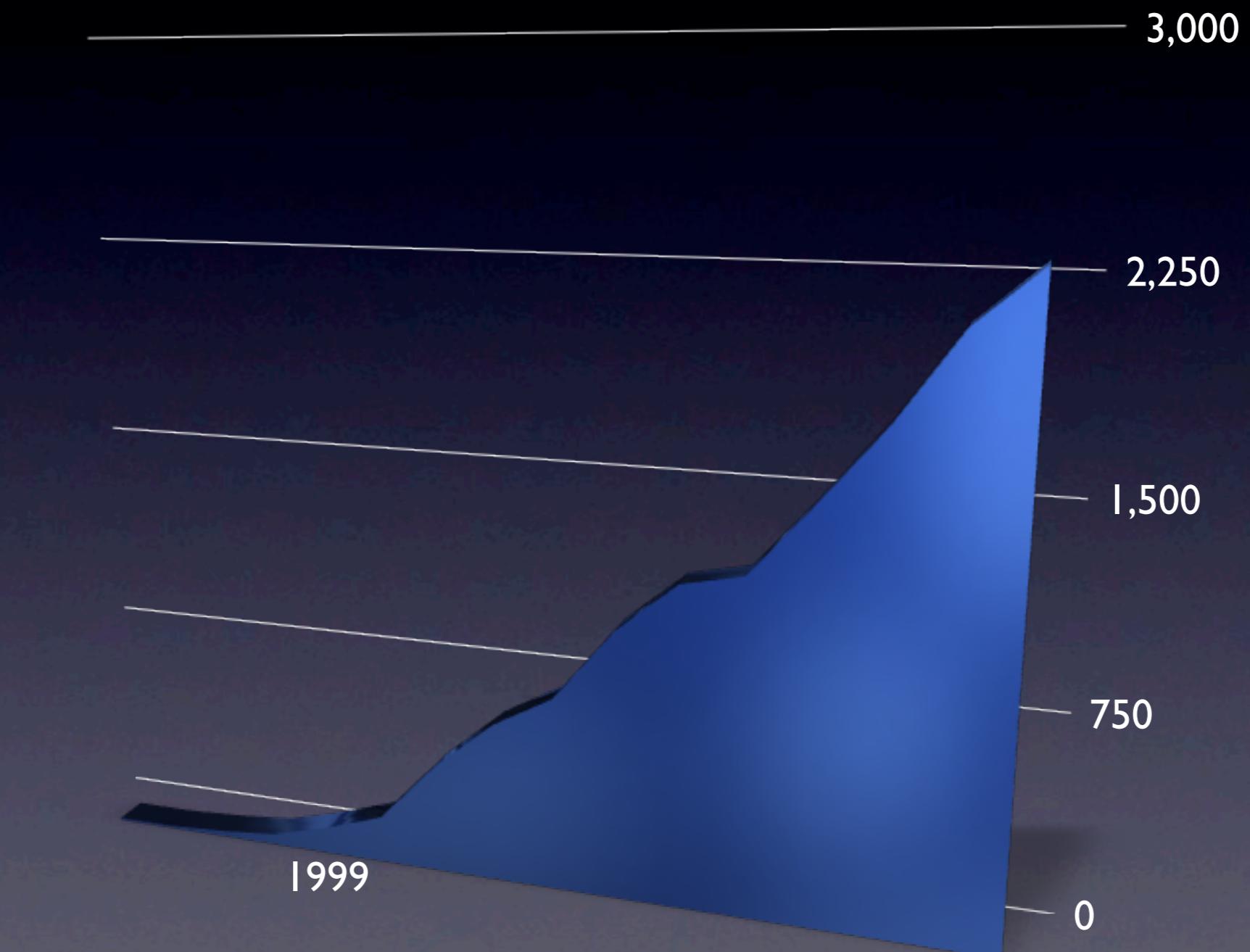
PAJPAH  
大元首

# What is Apache?

# Apache Software Foundation

- Independent US non-profit
- Volunteer organization
- Virtual world-wide organization
- Currently hosts more than 70 software projects
- More than 2000 contributors and almost 300 members
- Began as the Apache Group in 1996
- Incorporated as the ASF in 1999

# Apache Committers



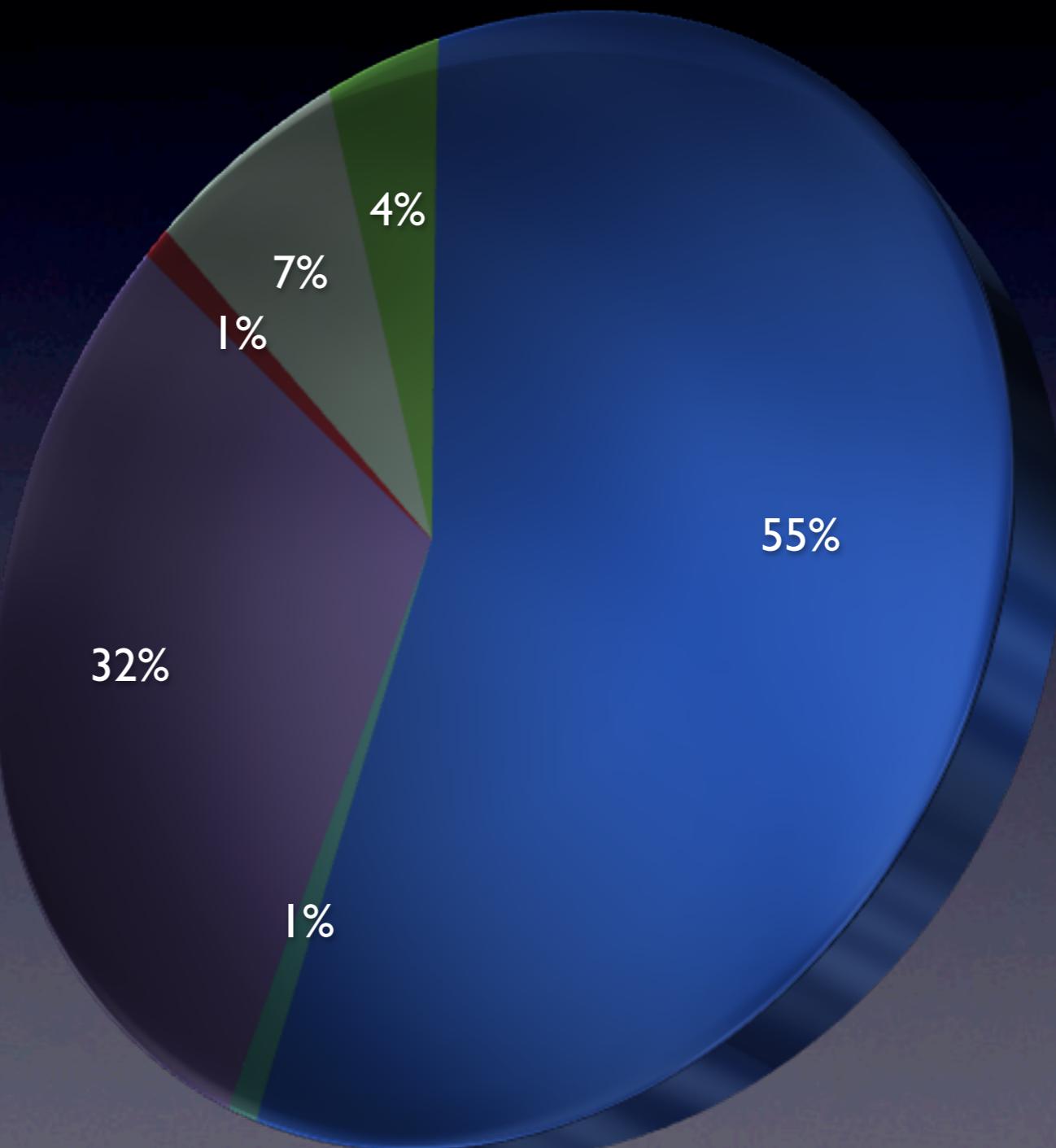
# Apache Members

- Foundation shareholders
- Elected by peers
- Currently 274



# Virtual World-Wide Org

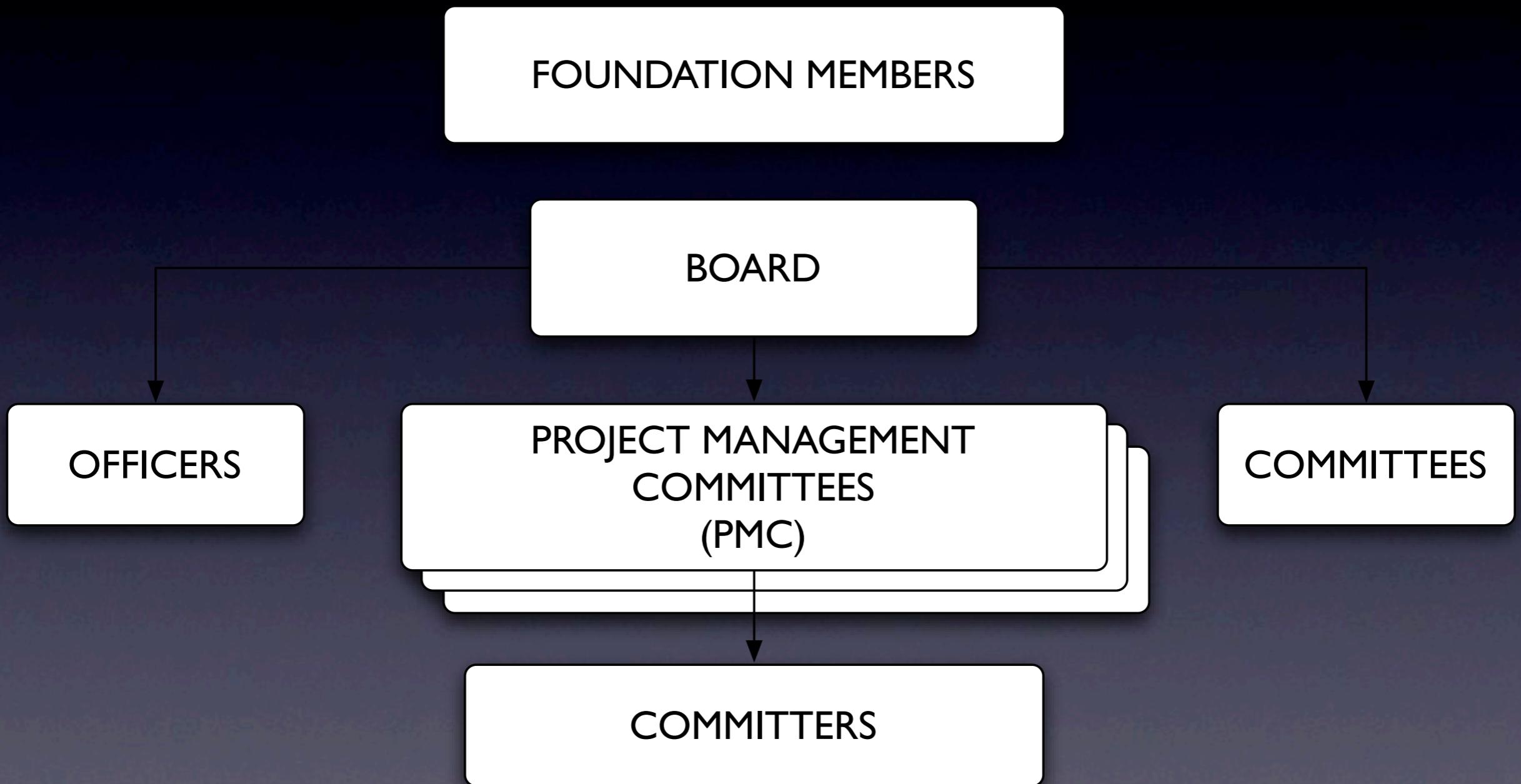
- North America
- South America
- Europe
- Africa
- Australia
- Asia



# Infrastructure

- Bulk of work done by volunteers
- If a project wants it, they must volunteer!
- 2 paid system administrators fill “holes”
- ~30 servers for websites, svn, mail, ...
- Main data centers: OSU OSL, SURFnet (.nl)
- Build farms at Traci.net and Yahoo!
- Off-site backups at UC Irvine

# Org Chart



# Org Chart

## Board Members



- 9 Members Elected Annually to Board
- Exec Officers chosen by board (unpaid!)

## Committees

- Legal
- Security
- Publicity
- Brand Management
- Sponsorship
- Infrastructure
- Conference Planning

# Finances

- 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/>

# Finances

- 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.

# Sponsorship

- **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

# Apache Projects

# Apache Projects

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



# Incubating Projects

Ace	Empire-db	Lucene	SocialSite
Amber	Etch	Connector	Stonehenge
Aries	ESME	Framework	Tashi
Bean	Hama	Lucy	Thrift
Validation	HISE	Olio	VCL
Bluesky	Imperius	OODT	VXQuery
Chemistry	JSPWiki	PhotArk	Whirr
Chukwa	Kato	RAT	Wink
Clerezza	Libcloud	River	Wookie
Deltacloud		Shiro	Zeta
Droids		SIS	Components



# Apache License

- “Liberal” open source software license
- Grants copyright and patent licenses
- Requires appropriate attribution
- Protects brand
- Cannot call your product “Apache XYZ”

# Apache People

Andrus Adamchik  
Alexei Fedotov  
Aaron Bannert  
Andrzej Bialecki  
Anupam Bagchi  
Alexei Barantsev  
Abey M. Mullassery  
Andrew Black  
Allen Brookes  
Army  
Albert Davidson Chou  
Andrew Clute  
Arun Murthy  
Adrian T. Co  
Andrew C. Oliver  
Alan Conway  
Adrian Cumiskey  
Andrew Scott Cutright  
Angela Cymbalak  
Adam Murdoch  
Alfredo Da Silva  
Alan Cabrera  
Andreas L. Delmelle  
Adinarayana Sakala  
Aditya Agarwal  
Allan Ditzel  
Adrian Sutton  
Adrian Crum  
Adriano Crestani  
Campos  
Andrew Eberbach  
Thomas Andrew Evers  
Andreas Fester  
Andrew William John Ford  
Allen T. Gilliland IV  
Andrew Grove  
Arnaud Heritier  
Anders Hessellund  
Jensen  
Andreas Hochsteiger  
Achim Huegen  
Aidan Skinner  
Alexey Ivanov  
Adam R. B. Jack  
Andrew R. Jaquith  
Ajay Paibir  
Andrew Borley  
Amit Jindal  
Ajith Ranabahu  
Akara Sucharitakul  
Alex Karasulu  
Allan K. Edwards  
Andrew Kornev  
Alexei Kosut  
Andreas Kuckartz  
Anita Kulshreshtha  
Anil Vijendran  
Adam P. Lally  
Alex Chaffee  
Alexey N. Solofnenko  
Alexander Klimetschek  
Alexander Lachlan  
McIntock  
Alf Hoegemark  
Albert Lee  
Alastair Maw  
Murray Altheim  
Alvaro Carrasco  
Arun Thomas  
Aristedes Maniatis  
Alberto Massari  
Axl Mattheus  
Amila Nilanatha  
Amila Chinthaka  
Suriarachchi  
Tom Amiro  
Amita Vadhavkar  
Aaron Mulder  
Amol S. Deshmukh  
Amy Roh  
Alfred Nathaniel  
Anders Kristensen  
Andi Gutmans  
Andreas Hartmann  
Andreas Korneliussen  
Andrei Zmievski  
Andrew Kenna  
Andrey Razumovsky  
Andy Armstrong  
Andy Clark  
Andy Doerr  
Andy Heninger  
Andreas Andreou  
Andy Jefferson  
Andrew James Piper  
Andy Schwartz  
Angela Schreiber  
Anil Saldhana  
Ankit Pasricha  
Anoubhama Manavalan  
Anthony Elder  
Antoine Levy-Lambert  
Mario Antollini  
Antonio Gallardo  
Rivera  
Anton Pevtsov  
Anil Patel  
Andrey Pavlenko  
Antonio Petrelli  
Alexey Petrenko  
Atsuko Pien  
Alexandru Popescu  
Andrew Kyle Purtell  
Allan Q. Ramirez  
Archie Cobbs  
Ard Schrijvers  
Nathan Abramson  
Arje Cahn  
Armin Waibel  
Arnaud Simon  
Arnout J. Kuiper  
Andrew Robinson  
George Aroush  
Arron Claude Bates  
Art Welch  
Arun Jamwal  
Arundhati Bhowmick  
Arun Yadav  
Arved Sandstrom  
Asanka Abeysinghe  
Asankha Chamath  
Perera  
Andrew Savory  
Archit Pradip Shah  
Andriy Shapochka  
Ashish Vijaywargiya  
Ashutosh Shahi  
Ask Bjorn Hansen  
Alek Slominski  
Aaron Smuts  
Assaf Arkin  
Andreas Steinmetz  
Andrew Stitzer  
Anton Tagunov  
Ate Douma  
Stephen Auriemma  
David Rolsky  
Vahe Amirbekyan  
Andras Avar  
Avik Sengupta  
Arthur Klepchukov  
A. Abram White  
Adam Winer  
Aram Mirzadeh  
Alexei Zakharov  
Mohamed Afkham  
Azeez  
Barrie Treloar  
Stefano Bagnara  
Oyvind Bakksjo  
Juozas Baliuka  
Satheesh E. Bandaram  
Bruno Aranda Delgado  
Jeff Barrett  
Jeffrey Lee Barrett  
Robert Barrie  
Slaymaker  
Leandro Rodrigo Saad  
Cruz  
Jean-Yves Baudy  
Henri Yandell  
Thomas Bayer  
Robert Buffone  
Brendan Burns  
B. C. Holmes  
Finn Bock  
Brian Moseley  
Brent Daniel  
Bertrand Delacretaz  
Benjamin Dotte  
Brice D. Ruth  
Brian Dube  
Bill Dudney  
Brian Eaton  
Daniel O. Becker  
Stefan Behl  
Bella Robinson  
Fabrice Bellingard  
Ben Laurie  
Benjamin Bentmann  
Hans Bergsten  
Jem Berkes  
Bernd Fondermann  
Bernt Johnsen  
Bert Van Kets  
Brandon Goodin  
Bhakti Mehta  
Bharath Ganesh  
Bernhard Huemer  
Bhupendra Bhusman  
Bhardwaj  
Brian A. Husted  
Ben Hyde  
Bilgin Ismet Ibryam  
Dale E. Christ  
William Au  
William Barker  
Bill Schindler  
Benson Margulies  
Bip Thelin  
Brian Havard  
Brady Allen Johnson  
Bjorn Townsend  
Barrett Jay Reed  
Jesus Blanco Izquierdo  
Berin Lautenbach  
Bozhong Lin  
Ben Litchfield  
Berin Loritsch  
Suh ChangHee  
Michael Blum  
Brett McLaughlin  
Bernhard Messer  
William Mitchell  
Bradley Nicholes  
Bryan Noll  
Bob Herrmann  
Bob Harner  
Stefan Bodewig  
Alex Boisvert  
Bojan Smoyer  
Bernd Bohmann  
David Matthew Bond  
Boris Kolpackov  
Bryan Pendleton  
Brian Pontarelli  
Bradley A. Morrison  
Tom Bradford  
Branko Cibej  
Balaji Masur Ravi  
Michael Watzek  
Benjamin Reed  
Jeffrey Brekke  
Brent Worden  
Brett Leslie Porter  
Brian Behlendorf  
Brian E Fox  
Brian Goetz  
Brian McCallister  
Brian Pane  
Jakob Braeuchi  
David Philip Brondsema  
Bruce Atherton  
Bruno D'Avonzo  
Outerthought - Bruno  
Dumon  
Dirk Frederickx  
Bryan Che  
Bryan Duxbury  
Bruce Snyder  
Benjamin Speakmon  
Brian Edward  
Stansberry  
Brian Stoler  
Blake Sullivan  
Brian Murphy  
Brian Topping  
Kevin A. Burton  
Michael Busch  
Russell Butek  
Mark Butler  
Howard Venners  
Ben Walding  
Brian Keith Wallace  
Alfred Maxwell Byers  
Todd M. Byrne  
Cagatay Civici  
David Calavera  
Cameron McCormack  
David Abram Cargill  
Carlos Sanchez  
Gonzalez  
carlson  
Curtis William Arnold  
Rich Catlett  
Clinton Begin  
Carsten Blecken  
Chris Bowditch  
Claude Brisson  
Christopher  
Mansilungan Cardona  
Chris Chew  
Carl C. Trielloff  
Chris Custine  
Cris Daniluk  
Christophe de Vienne  
Chinthana Dinapala  
Craig Doremus  
Christopher Douglas  
Cyriaque Dupoirieux  
Cedric Dumoulin  
Ceki Gulcu  
Cezar Cristian Andrei  
Cameron Fieber  
Christopher Greenlee  
Camilla Haase  
Chris Chabot  
Chamikara Madhusanka  
Jayalath  
Chamil Baghya  
Thanthrimudalige  
Anagakkonara  
Cheminda Divitotawela  
Chamindra de Silva  
Chanwit Kaewkasi  
Charitha Kankanambe  
Charles R. Benett  
Cory Harper  
Chathura Herath  
Chathura Ekanayake  
Chatra Udeni  
Nakkawita

Juan Jose Pablos  
Doug Chestnut  
Elan Chezhiyan  
Eran Chinthaka  
Hiram R. Chirino  
Eric Cholet  
Carl Howells  
Chris Darroch  
Christopher Elkins  
Christian Geisert  
Chris Stevenson  
Christian van Spaandonk  
Christoph Wilhelms  
Chuck Murcko  
James "Chuck" Williams  
Chunrong Lai  
Christopher James  
Blythe  
Conrad O'Dea  
Christophe Jolif  
Chris Judson  
Christoph Kiehl  
Claus Koell  
Christine Koppelt  
Catalin Kormos  
Christopher K. St. John  
Carl Ludwig  
Jean-Jacques Clar  
Clay Leeds  
Clement Escoffier  
Cory L. Hubert  
Cliff Skolnick  
Cliff Schmidt  
Christopher Giles A. Lim  
Christophe Lombart  
Craig Russell  
Casey Lucas  
Manohar Kumar  
Chintala  
Charles Chen  
Christopher Lenz  
C. Michael Pilato  
Christopher Nelson  
Ken Coar  
Colm O Heigearthaigh  
Christopher Oliver  
Colm MacCarthaigh  
Eung-ju Park  
Conor MacNeill  
Costin Manolache  
Eric Covener  
Christopher Piro  
Marcus Crafter  
Craig Crutcher  
Craig R. McClanahan  
Bob Lee  
Cameron Riley  
Howard Carlin Rogers  
David Crossley  
Christoph Sauer  
Christian Schneider  
Chad Schoettger  
Maria Catherine R. Tan  
Cristian Toth  
curbera  
Shane Cururu  
Douglass Cutting  
Carlos Alberto Villegas  
Fonseca  
Coach Wei  
Jonathan Daugherty  
Carsten Ziegeler  
Daniel Adams  
Dag H. Wanvik  
Jianyong Dai  
Dain Sundstrom  
Damien F. Katz  
Damitha N.M.  
Kumarage  
Damon Courtney  
Dustin Amrhein  
Dan Creswell  
Daniel Diephouse  
Shan Jiang  
Danese Cooper  
Par Daniel Fagerstrohm  
Daniel Wilson  
Daniel Everett Jemiolo  
Dan Milstein  
Danny Angus  
Dan Tran  
Robin Berjon  
Darrell DeBoer  
Dasarath Weeratunge  
Martijn Dashorst  
DaveB  
David Newton  
David Read  
David Remy  
Davi Arnaut  
David Bau II  
David Illsley  
David Van Couvering  
David Welton  
Claus Ibsen  
David Balmain  
Daniel Bentley  
David N Berton  
Deepak Bhole  
David Blevins  
David Brosius  
Dave Bryson  
Dave Chappell  
Doug Coker  
Dennis Dam  
Devaraj Das  
Dominique Devienne  
David H. DeWolf  
David Hill  
David Dixon-Peugh  
Deepal Jayasinghe  
Bosanac Dejan  
Mark DeLaFranier  
Matteo Demuru  
Dennis Christopher  
Byrne  
Dennis Lundberg  
Torsten Dettborn  
Thomas E. DeWeese  
David Ezzio  
Daniel Fabulich  
Darwin G. Flores  
Daniel Florey  
Daniel Savarese  
Dean Gaudet  
David Mark Geary  
David Glazer  
David Graham  
Drew Gulino  
David Haney  
David Harkness  
David Harris  
Dhiru Pandey  
Dhruba Borthakur  
Adrian Dick  
Davanum Srinivas  
Dimuthu Gannage  
Weerapurage Dinesh  
Premalal  
Dean Jackson  
Dion Gillard  
Dirk Verbeeck  
Dirk-Willem van Gulik  
Dave Irving  
Diwaker Gupta  
Dennis Cook  
Daniel John Debrunner  
David Jencks  
David Polito  
Daniel Jue  
J. Daniel Kulp  
David John Legg  
Donald Leslie  
David LeStrat  
Diego Louzan Martinez  
Daniel Rall  
Daniel Lydick  
Dan Mandell  
David Marston  
David Meikle  
Darren Middleman  
Dmitri Plotnikov  
Dmitry Hayes  
Dmitry Serebrennikov  
David M. Karr  
Danny Muid  
Daniel Naber  
Eric Dobbs  
Rainer Dobele  
Tacetin Guney  
Daryl Olander  
Cassandra Doll  
Dominik Kacprzak  
Peter Donald  
Dong Uk Choi  
Didier Donsez  
Adam Heath  
Doron Cohen  
Daryl C.W. O'Shea  
Doug MacEachern  
Douglas Siqueira Leite  
David Shane Holden  
Daniel Peterson  
Dominique Pfister  
Dion Picco  
Eugene Gluzberg  
Thomas Draier  
David Reid  
David Reiss  
Gert Driesen  
Drobiazko Igor  
Daniel Robinson  
David Robinson  
Doug Sale  
Davide Savazzi  
Daniel Stefan Haischt  
David Solis  
Dennis M. Sosnoski  
David Spencer  
David Tanzer  
Matthew J. Duftler  
Doug Davis  
Pallewela Perera  
James Duncan Davidson  
Duncan A. Findlay  
Dushshantha  
Chandradasa  
Satadip Dutta  
Dieter von Holten  
David Viner  
David Waite  
David Weinrich  
David Weir  
Dawid Weiss  
David Winterfeldt  
Donald Woods  
Dyre Tjeldvoll  
Peter P. Eacmen III  
Edward Epstein  
Esteban Franqueiro  
Erik Eduardo Bengtson  
Emmanuel Bourg  
Keith Eric Carmichael  
Joseph Eckard  
Eckehard Hermann  
Erik Craig  
Ed Korthof  
Eric Dalquist  
Edouard De Oliveira  
Edgar Ruben Poce  
Chevrier Edith  
Edward Slattery  
Eduardo Pelegri-Llopert  
Mike Edwards  
Edward J. Yoon  
Edwin Goei  
Ernst Fastl  
Christian Egli  
Eoghan Glynn  
Egor Pasko  
Erik Hatcher  
Eelco Hillenius  
Eddie Bush  
Edward O'Neil  
Emmanuel Lecharny  
Eric Lemings  
Elena Litani  
Elias Torres  
Mark E. Elrod  
Jim Ma  
Enis Soztutar  
Edell Nolan  
Enver Haase  
David Eric Pugh  
Edwin L. Punzalan  
Krishan Eranga  
Jayasundera  
Eric Friedman  
Eric Johnson  
Kenneth Eric Vasilik  
Eric Ye  
Erik Abele  
Michael E. Rodriguez  
Elias Nathan Ross  
Ersin Er  
Elliot Metsger  
Kevin Brown  
Evan Gilbert  
Evanthika Shiromali  
Amarasiri  
Emmanuel Venisse  
Evan Worley  
Eric Dofonsou  
Fred Dushin  
Catalina Wei  
Tony Finch  
Farid Zaripov  
J.Aaron Farr  
Fay Wang  
Frank Barnaby  
Fabien Carrion  
Frank D. Cringle  
Federico Barbieri  
Fedor Karpelevitch  
Theo Van Dinter  
Felipe Leme  
Felix Maeder  
Felix Knecht  
Ferdinand Soethe  
Fernando Padilla  
Fernanda Torres  
Pizzorno  
Freeman Yue Fang  
Fabrizio Giustina  
Filip Hanik  
Roy T. Fielding  
Brian Fitzpatrick  
Florian Bruckner  
Frank Lynch  
Felix Meschberger  
Frederick G. OConor  
Fred Oliver  
Flavio Paiva Junqueira  
Frank John Budinsky  
Frank Bille Jensen  
Fredrik Westermarck  
Kent Tong  
Gerhard Froehlich  
Felix Rothenbacher  
Guenter Knauf  
Fuhwei Lwo

Timothy A. Funk  
Francesco Furfari  
Samuel Andrew  
McIntyre  
Wang Feng  
Frank Wiles  
Anil R. Gangolli  
Gareth Reakes  
Gary L Peskin  
George Gastaldi  
Alan Gates  
Andrew Gatford  
Jarek Gawor  
Gilles Bayon  
Gary Benson  
Guido Casper  
Gabrielle Crawford  
Gianny Damour  
Glen Daniels  
Guy Ferraiolo  
Steve Coffman  
G.W. Haywood  
Geir Magnusson Jr  
Geoffrey Young  
Joseph Lad Germuska  
Gert Vanthienen  
Christian Geuer-  
Pollmann  
Graham Spencer  
Glenn Golden  
Gary D. Gregory  
George Harley  
Georg Hicker  
Michael McCallum  
Geoffrey Alexander  
Howard  
Greg Hudson  
Giacomo Pati  
Gianugo Rabellino  
Giorgio Zoppi  
Grzegorz Kossakowski  
Glenn L. Nielsen  
Glenn McAllister  
Glen Stampoultzis  
Geoff Longman  
Glyn Normington  
Glenn Marcy  
Glen Mazza  
Gavin McDonald  
C. Gregory Monroe  
Gerald Mullan  
Guillaume Nodet  
Christoph Goller  
Gonzalo Diethelm  
Guallar  
James Todd  
Philippe Chiasson  
Gerhard Petracek  
Graham Phillip  
Dumpleton  
Grant Mcdonald  
Grant Smith  
Gordon Chiu  
Gregory D. Reddin  
Daniel Gredler  
Greg Ames  
Gregor Rothfuss  
Gregory John Wilkins  
Mark Hayes  
Magnus Grimsell  
Gregory Trubetskoy  
Vincent Deffontaines  
Gianni Scenini  
George Schneider  
Scokart Gilles  
Gerolf Seitz  
Gregory Shimansky  
Gordon Sim  
Grant Ingersoll  
Greg Stein  
Gary Tully  
Graham Turrell  
Guillaume Sauthier  
Gary M. VanMatre  
Geoffrey Martin Winn  
Gwyn Richard Evans  
Chris Haddad  
Hadrian Zbarcea  
Hairong Kuang  
Halley Pacheco de  
Oliveira  
Paul Hammant  
Hamilton Verissimo  
DeOliveira  
Andrew Williams  
Hannes Wallnoefer  
Padraig Hannon  
Hans Granqvist  
Johannes Cornelius  
Bakker  
Hans Knudsen  
Hari Hara Sudhan D.  
Harish Krishnaswamy  
Fumitada Hattori  
Christian Haul  
Ralf Hauser  
John Hawkins  
Hazem Saleh  
Harmeet Bedi  
Herve Bouetmy  
Heidi Buelow  
Henry Chan  
Hanson Char  
Hernan Cunico  
Heather Stephens  
Dr. Simon Hefti  
He Huang  
John Heitmann  
Hemapani Srinath  
Perera  
Henk P. Penning  
Joerg O. Henne  
Philippe Hennes  
Henning  
Schmiedehausen  
Henry Jen  
Helma Van Der Linden  
Rainer Hermanns  
Hermod Opstvedt  
Hannes Erven  
Hesham Fahmy  
Hans Gilde  
Gomez Henri  
Humberto Hernandez  
Nicolas Lalevee  
Hideharu Kato  
Stephane Hillion  
Soren Hilmer  
Mark Hindess  
Hiranya Kasub  
Jayathilaka  
Howard Lewis Ship  
Henrik Nordberg  
Juergen Hoffmann  
Matt Richard Hogstrom  
Jacob Kjome  
Diane Holt  
Hong Teahui  
Justyna Horwat  
Chris M. Hostetter  
Hubert Kasilag Rabago  
Henry Stern  
Bernhard Huber  
Craig Huckabee  
Jeremy Hughes  
Humberto Cervantes  
Maceda  
Ted Nathan Husted  
Huw Roberts  
Ian Holsman  
Changshin Lee  
Ingo Brunberg  
Ilya Berezhniuk  
Ian Darwin  
Arvid Huelsebus  
Ian Boston  
Igor Hersht  
Igor Sedukhin  
Ilene Seelemann  
Illa Priha  
Mario Ivankovits  
Indika Kumara  
Ian P. Springer  
Isabel Drost  
Ignacio Silva Lepe  
Issac Goldstand  
Isuru Suriarachchi  
Vladimir Ivanov  
Igor Vaynberg  
Ivelin Ivanov  
Ivan Alexis Barrera  
Andrade  
Igor V. Stolyarov  
Jacek Kopecky  
Jacek Prucia  
Richard Jacob  
Jacob Danner  
Jacopo Cappellato  
Jaliya Ekanayake  
Janne Jalkanen  
Jacek Ambroziak  
James Jose  
Jan Lehnardt  
Jan Bartel  
James P. Ancona  
Jann Forrer  
Janne Hietamaki  
Jonathan Anstey  
[jariw@hyperlink-interactive.co.uk](mailto:jariw@hyperlink-interactive.co.uk)  
Jasha Joachimsthal  
Jason Edward Stewart  
Jason Edward Webb  
Jason Warner  
Jayachandra Sekhara  
Rao Sunkara  
Jay McHugh  
Andrew Zeneski  
James Bates  
James David Berry  
Jan Blok  
Joseph Alan Bohn  
Jim Boutcher  
Ian Holsman  
Changshin Lee  
Jay Bryant  
James W. Carman  
Jason Carreira  
Juan C. Duenas  
James CE Johnson  
John Christopher  
Anderson  
Johan Compagner  
John E. Conlon  
John Dennis Casey  
Jean-Daniel Cryans  
Jason Dillon  
Juegen Donnerstag  
James William Dumay  
Jeff Eastman  
Jonathan Chawke  
Jeff Rodriguez  
Jeff Turner  
Jeff Yu  
Jeremias Maerki  
Jeremy Quinn  
Jeremy Arnold  
Justin Erenkrantz  
Sung-Gu Park  
Johannes Ernst  
Jerome Charron  
Jeromy Evans  
Jesse Stockall  
Jeffrey Faath  
John Robert Fallows  
Jean Arcand  
Jean-Frederic Clere  
Jeremy Lewis Ford  
James Paul Gallacher  
Jonathan Gallimore  
Joseph Dennis O. Gapuz  
Jeff G. Butler  
Jeff Genender  
Jesse N. Glick  
John G. Myers  
Jim Gomes  
James Goodwill  
Jeremy Haile  
Joel Hawkins  
Jason Height  
Jorg Heymans  
Jan Materne  
John Hollis III  
James Holmes  
Jacob John Hookom  
Jason Hunter  
Jim Hurley  
Jim Jagielski  
Jim Kellerman  
Jim Winstead Jr.  
Jeff Jensen  
Jason Johnston  
John Alan William  
Kaputin  
John Kelly  
Joseph Jay Kesselman  
John Keyes  
Jacobus Martinus  
Kruithof  
Jesse Kuhnert  
Jeyakumaran  
Chandrasegaram  
Jacek Laskowski  
Jacques Le Roux  
Jonas B. Lim  
Jervis Liu  
Jose L. Ruiz  
Jacob Lund  
Jurgen Lust  
Justin Mason  
John Peacock  
Julie E. MacNaught  
James Margaris  
James F. Marino  
Jesse McConnell  
John McNally  
Jaime Meritt  
Jan Metzner  
James Mitchell  
Jim Moore  
James M. Snell  
Neeraj Joshi  
Joachim Draeger  
Joakim Erdfelt  
Joanne Tong  
Jochen Wiedmann  
Joseph Cheng  
Joerg Schaible  
Joerg Heinick  
Jorn Kottmann  
Joe Schaefer  
Johan Oskarsson  
Roger John O'Hara  
John Herman  
Embretsen  
John Gentilin  
John Hjelmtad  
John Snelson  
John Turner  
John Xing  
Jon Scott Stevens  
David E. Jones  
Jongjin Choi

Jonathan Locke  
Jordan Naftolin  
Jorgen Loland  
Joe Orton  
Johannes Schaefer  
Jose A. Fernandez  
Josh Micich  
Josias Thony  
John Panzer  
Jeremy Bauer  
Stephen Charles  
Duncan, Jr.  
Jeff Regan  
Jeroen Reijn  
Jeff J. Rodenburg  
Julien Ruaux  
Johnny R. Ruiz III  
Joseph Ruzzi  
John Sachs  
Jordi Salvat i Alabart  
Jason Schultz  
Jean Sebastien Delfino  
Jeffery Scott Dever  
John Robert Sisson  
Jon Skeet  
Jason S. Lingohr  
Jeppe Sommer  
James Song  
James Strachan  
Jean T. Anderson  
James Tauber  
James Taylor  
Jeffery Blattman  
Jon Tirsén  
Ernesto S. Tolentino Jr.  
Juan Nunez Jaramillo  
Juan Rodriguez  
Juergen Pill  
Jukka Zitting  
Julian Anthony Fox  
Gosnell  
Jean-Philippe Courson  
June Ng  
Jason van Zyl  
Juan Vazquez  
Julien Vermillard  
Jeanne Waldman  
Jörg Walter  
James Wang  
Jeremy Whitlock  
John Wilson  
Joachim Wolfgang Kaltz  
Cliff Woolley  
Jun Yang  
Christine Li  
Knut Anders Hatlen  
Kailas Simha  
Karl-Johan Wettin  
Igor Kaplansky  
Karen Sandler  
Karl Lehenbauer  
Karl von Ransom  
Karthick Sankarachary  
Malinda Kaushalye  
Kapuruge  
Hiroaki Kawai  
Kiran Ayyagari  
Pete Kazmier  
Karsten Braeckelmann  
Keith Bennett  
Keith Cassel  
Kevin Clark  
Kevin Cormier  
Keiron Liddle  
Keith Wannamaker  
Keith Chapman  
Kelly Campbell  
Dr. Kelvin James  
Goodson  
Kelvin Tan  
Kenney Westerhof  
Kenneth Tam  
Astrid Kessler  
Kevin Turner  
Kevan Lee Miller  
Kevin O'Neill  
Kevin Ross  
Kevin Jackson  
Travis Savo  
Kevin Lo  
Karl Fogel  
Kevin Hammond  
Vivek Khera  
Kinga Dziembowski  
Kief Morris  
Chris Kimpton  
Kin-Man Chung  
Kip Hampton  
Kristian Kohler  
Kenneth R. Kress  
Kevin Krouse  
Mike Klaas  
Karen Lease  
Kim LiChong  
Rainer Klute  
Karan Singh Malhi  
Katherine Marsden  
Kevin McGrail  
Kevin Joseph Menard, Jr.  
Kevin J. Mitchell  
Kasper Nielsen  
Khaled Noaman  
Matej Knopp  
Knut Wannheden  
Vijay K. Nanjundaswamy  
Kohsuke Kawaguchi  
Anton Koinov  
Koji Sekiguchi  
Konstantin Piroumian  
Kim van der Riet  
Kresten Krab Thorup  
Kris Schneider  
Kristian Waagan  
Kurt Schrader  
Kevin Smith  
Kimbio Staken  
Kurt Stam  
David Ku  
Dennis Kubes  
Knut Urdalen  
Thavarajah  
Kurinchikumaran  
Kieth Visco  
Kurt Ward  
Kevin Joe Williams  
Karel Wouters  
Kevin W. Sutter  
Kyle Marvin  
Antoine Contal  
Lahiru Gunathilake  
Lajos Moczar  
Lance Lavadowska  
David Lawrence Isaacs  
Lars Eilebrecht  
Laurie Harper  
Lance Diduck  
Sean Legassick  
Arnaud Le Hors  
Leif Mortenson  
Scott Gray  
Stefano Lenzi  
Li Yi Lei  
Leonard Richardson  
Leon Messerschmidt  
Leo Simons  
Leo Sutic  
Lance Frohman  
Luca Furini  
Leszek Gawron  
Lucien Gentis  
Les Hazlewood  
Lars Heinemann  
Yanxuan Liang  
Lilantha Darshana  
Paul Lindner  
Lin Sun  
Stefan Lischke  
Marc Liyanage  
Lawrence Aston Jones  
Lars Kuehne  
Lawrence Mandel  
Lisa Martin  
lawrence\_mccay  
Larry E. Meadors  
Luca Morandini  
Laurence Moroney  
Liviu Nicoara  
Udo Schnurpfeil  
Lohit Vijaya Renu  
Luciano Resende  
Louis Ryan  
Lukas Theussl  
Lars Trieloff  
Leonardo Uribe  
Luc Maisonneuve  
Josh Lucas  
Jan Luehe  
Stefan Luetzkendorf  
Jing Lv  
Lance Waterman  
Maarten Bosteels  
Maarten Coene  
Ignacio Gonzalez  
MacDowell  
Michael Chamberlain  
Mark A. Carlson  
Jeon Jeongho  
Matthew T. Adams  
Doc Schneider  
Madhusudan Mathihalli  
Mads Toftum  
Magnus Torfason  
Mahadev Konar  
Martin Alderson  
Mamta Satoor  
Thelge Peiris  
Manoj Kasichainula  
Manfred Geiler  
Manuel Mall  
Manu George  
Mark Brouwer  
Marc Slemko  
Marcus Wayne Johnson  
Marc Petir Kwiatkowski  
Les Hazlewood  
Marc Saegesse  
Marino A. Jonsson  
Mark Hobson  
Mark Robert Miller  
Mark Emlyn David  
Thomas  
Vitaly Prapirny  
Marnie McCormack  
Maurice Marrink  
Marcel Offermans  
Martijn Hendriks  
Martin Kraemer  
Martin Cooper  
Martin Frydl  
Martin Traverso  
Marvin Humphrey  
Michael Smith  
James M. Mason  
George I Matkovits  
Matthew Baird  
Matthew Hawthorne  
Matthew P. Inger  
Chris Mattmann  
Matt Pelletier  
Matt Sergeant  
Matthew Schmidt  
Mark John Atwell  
Matthias Wessendorf  
Mauro Talevi  
Max Kellermann  
Max Oliver Bowsher  
Maximilian Berger  
Maxime Petazzoni  
John Mazzitelli  
Michael Baessler  
Michael Becke  
Matthew Jason Benson  
Michael Beisiegel  
Martijn Blankestijn  
Michael Bouschen  
Matthias Broekelmann  
Mike Braden  
Michael John Cafarella  
Michelle Caisse  
Michael Catanzariti  
Tim McConnell  
Stephen McConnell  
David McCreedy  
Stuart McCulloch  
Pavel Pervov  
Thomas McKiernan  
Michael Clark  
Sarah McNamara  
Marco Vassura  
Matthew Cooper  
Mark Slee  
Markus Dahm  
Mike Dierken  
Mark R. Diggory  
Martin Dulisch  
Samuel Meder  
Malcolm Edgar  
Meeraj Kunnumpurath  
Mehmet Birgi  
Matthieu Estrade  
Harry Metske  
Jim Meyering  
Michael Freedman  
Mikhail Fursov  
Manuel Gamerdinger  
Michael Ray Gentry  
Michael Goulet  
Mark Harwood  
Mike Heath  
Martin Holz  
Matthew Hoyt  
Michael Nunez  
Michael Melhem  
Michal Maczka  
Michal Kosek  
Michele Mazzucco  
Michael Wechner  
Alexis Midon  
Michael Dick  
Mike Haberman  
Mike Matrigali  
Michael McCandless  
Michael Jouravlev  
Milan Tomic  
Milinda Pathirage  
Brian James Minchau  
Mind Bridge / Teodor  
Georgiev Toncher  
Graham Leggett  
Mircea Toma  
Michael Schmitz  
Mark J. Cox  
Mike Gratton  
Marc Johnson  
Karl Martin Kalen  
Matthew Edward  
Kettler  
Maurice (Mike) L.  
Kienemberger  
Milos Kleint  
Michal Kostrzewska  
Morris Kwan  
Matthew Langham

Michael Link  
Mikhail Loenko  
Matthew Lovett  
Martin Man  
Michiel M.Anderson  
James Maode Mao  
Martin Marinschek  
Mikhail Markov  
Mark Martinec  
Marcus May  
Michael Merz  
Myriam Midy  
Michael Nash  
Mohammad Nour El-Din  
Rain Mordani  
Vikas Mayur  
Mark Orciuch  
Morgan James  
Delagrange  
Mark Wood  
John Morrison  
Morten Jorgensen  
Bill Moseley  
Mike Perham  
Max Pfingsthorn  
Outerthought - Marc Portier  
Mike Pogue  
Marc Prud'hommeaux  
Matt Raible  
Rakesh Midha  
Donald J. Brown  
Marcel Reutegger  
Michael Glavassevich  
Matthieu Riou  
Marco Risaliti  
Michael Ryan  
Michael Schachter  
Marc Schier  
Marcus Schulte  
Michael Smith  
Malte Sebastian Stretz  
Michael Stover  
Maciej Szeffler  
Manuel Teira Paz  
Mladen Turk  
Michael Turyn  
Mukund Madhugiri  
Sean Joseph Mullan  
Musachy Barroso  
Dimuthu Leelarathne  
Martin van den Bemt  
Matteo Vescovi  
Mark Webb  
Mark Dwayne Womack  
Massimo Manghi  
Michael B.Yoder  
Myrna van Lunteren  
Martin Zaun  
Mohamed Yoosuf  
Mohamed Nabeel  
Michael Nachbaur  
Ignacio J. Ortega  
Nadika Prasanna  
Ranasinghe  
Nadezhda Morozova  
Nadir K.Amra  
Bill Nagy  
Yuhichi Nakamura  
Nandana  
Mihindukulasooriya  
Korale Gamaralalage  
Nandika Chandrasiri  
Jayawardana  
Simon Nash  
Natalia Shilenkova  
Amila Navarathna  
Nathan Bubna  
Nicolas Chalumeau  
Neil Clayton  
Andre Malo  
Nathan Beyer  
Neil Delima  
Nicholas Lesiecki  
Norman Walsh  
Neeme Praks  
Neeraj Bajaj  
Neil Graham  
Neil O'Toole  
Matthew Porter  
Neth  
Joern Nettingsmeier  
Ryo Neyama  
Nicholas L. Gallardo  
Niklas Gustavsson  
Norval Hope  
Niall Daley  
Niall Kegan Pemberton  
Nick Burch  
Nick J. Chalko  
Nicko Cadell  
Par Niclas Hedhman  
Nico Seessle  
Nicola Ken Barozzi  
Nicolas De Loof  
Nigel Daley  
Niklas Edmundsson  
Niklas Therning  
Nilgun Belma Buguner  
Nils-Helge Garli  
Willem Ning Jiang  
Nick Kew  
Niranjan  
Balasubramanian  
Nissim  
Nithyakala Thangarajah  
Nicolas Lehuen  
Noah Levitt  
Nick Lothian  
Nathan E. Maves  
Nathan Christopher  
Mittler  
Nirmal Mukhi  
Noel J. Bergman  
Noirin Plunkett  
Vincent Bray  
Norman Maurer  
Nicky Sandhu  
Nuno Santos  
Noah Slater  
Nicolas Socheleau  
Neil Stein  
Nikhil Thaker  
Kristopher J.  
Nuttycombe  
Nuwan Gurusinghe  
Oleg V Alexeev  
Andreas Oberhack  
Maria Odea B. Ching  
Oliver Deakin  
Ole K. Ersoy  
Ortwin Glueck  
Oleg Gusakov  
Oliver Heger  
Yang Dong  
Oliver Kessler  
Oliver Lamy  
Oleg Kalnichevski  
Oleg Nitz  
Oleg Tkachenko  
Olga Natkovich  
Oliver Matz  
Michael Oliver  
Christopher Olston  
Owen O'Malley  
Victor J. Orlikowski  
Oliver Rossmueller  
Oshani Wasana  
Seneviratne  
Otis Gospodnetic  
Ovidiu Predescu  
Owen Burroughs  
Ozgur Yilmazel  
Oystein Grovlen  
Oliver Zeigermann  
Jeffery Painter  
Pierre-Arnaud Marcelot  
Paolo Mottadelli  
Parinkumar Shah  
Michael Parker  
Patrick H. Luby  
Patrik Grip-Jansson  
Patrick Thoysts  
Paul Dick  
Paulo Gaspar  
Paul R. Brown  
Karl Pauls  
Paul Spencer  
Pavani Mukthipudi  
Paul C. Benedict Jr.  
Peter Bernard West  
Patrick Calahan  
Patrick Linskey  
Peter Courcoux  
Paul Sutton  
Tony Stevenson  
Philip James Dodds  
John McClain  
PeiYong Zhang  
Chris Pepper  
Per Einar Ellefsen  
Peter Rossbach  
Perrin Harkins  
Andrew Perry  
Peter Jones  
Peter Brittenham  
Peter McCracken  
Peter Jones  
Peter Reilly  
Peter Ferraro  
Peter Fischer  
Paul Gier  
Peter M. Goldstein  
Philip M. Gollucci  
Peter Herweg  
Philip Luppens  
Fred Moyer  
Peter Hunsberger  
Patrick D. Hunt  
Pier Fumagalli  
Pierre Delisle  
Joerg Pietschmann  
Sanjaya Ratnaweera  
Otis Gospodnetic  
Ovidiu Predescu  
Philipp Koch  
Piotr Kosiorowski  
Prasadarao Kosuru  
Peter Kriens  
Peter Ledbrook  
Detlef Bartetzko  
Patrick Lightbody  
Peter Lynch  
Peter Mahoney  
Paul Franklin McMahan  
Philip Mark Donaghy  
Peter Nevermann  
Paul Libbrecht  
Przemyslaw Pakulski  
Peeter Piegaze  
Pinaki Poddar  
Paul Querna  
Prashant Baliga  
Brian DePradine  
Prasad Kashyap  
Pavel Rebriy  
Preston Bannister  
Fred Preston  
Jeff Picket  
Travis Reeder  
Peter A Royal Jr.  
Paul Russell  
Patrick Schneider  
Paul Jeffrey Smith  
Phil Steitz  
Petar Tahchiev  
Patrick Edward Lapus  
Villacorta  
Yang Pu  
Paul Fremantle  
Qiu Xia  
Daniel Quellhorst  
Daniel Quinlan  
Quinton McCombs  
Radu Preotiuc  
Rafal Krzewski  
Raphael Pieroni  
Jurgen Ragaller  
Raghuram Rajah  
Rahul Akolkar  
Rahul Jain  
Rahul Srivastava  
Robert Davies  
Rajith Muditha  
Attapattu  
Ramkumar Ramani  
Ram C  
Ramesh Mandava  
Rami Jaamour  
Juan Ramirez  
Ramkumar Ramalingam  
Rana Bhattacharyya  
Randy Terbush  
Randy Kobes  
Raghu Angadi  
Rangika Mendis  
Raphael Luta  
Rasmus Lerdorf  
Raul Benito Garcia  
Ray Alan Barlow  
Ryan Bloom  
Richard Bowen  
Raymond DeCampo  
Robert Burrell Donkin  
David Benjamin  
Recordon  
Paul J. Reder  
Joerg Reiher  
Poetz Reinhard  
Remy Maucherat  
Renaud Richardet  
Julian Reschke  
Robert Resendes  
Zhaohui Feng  
Richard Frovarp  
Ross Duncan Gardler  
RenÃ© Gielen  
Robert Godfrey  
Ralph Goers  
Ron Grabowski  
Robert Greig  
Richard N. Hillegas  
Christopher Ryan  
Hoegg  
Rafael H. Schlooming  
Rian Hunter  
Ricardo Rocha  
Richard Feit  
Richard James  
Dougherty  
Gerald Richter  
Rici Lake  
Rick Tessner  
Richard S. Hall  
Richard McGuire  
Rida Benjelloun  
Daniel Lopez Ridruejo  
Charles Rick Rineholt  
Rahul Thakur  
Martin Ritchie  
Wolfram Rittmeyer  
Jan S. Rellermeyer  
Ronald Mann

Rainer Jung  
Richard Kellog Jr.  
Ravi Kumar  
Robert Leland  
Richard Lewis-Shell  
Ryan Lubke  
Robert Menschel  
Richard Wayne  
Monson-Haefel  
Peter George Robbins  
Robert Lazarski  
Roberto Rabe  
Ann M. Robinson  
Rob Jellinghaus  
Rob Weir  
Robert Yates  
Robyn Wagner Esq.  
Dean Roddey  
Roger Ruttimann  
Rolf Kulemann  
Roland Weber  
Roman Kalukiewicz  
Ronald Tschalar  
Ronnie Brunner  
Rony Flatscher  
Garrett Rooney  
W.M. Roshan  
Weerasuriya  
Ross Burton  
Rotan Hanrahan  
Michael Rheinheimer  
Ian Roughley  
Robert James Oxspring  
Ravi Palepu  
Robb Penoyer  
Ralf Pfeiffer  
Ruediger Pluem  
Rafal Konrad Rusin  
Ryan Rhodes  
Ramzi Saba  
Robert Scheifler  
G. Richard Scott  
Ralf S. Engelschall  
Robert S. Sfeir  
Richard A. Sitze  
Rajini Sivaram  
Sam Ruby  
Ruchith B. Gunaratne  
Ruchith Udayanga  
Fernando  
Runping Qi  
Rupert Smith  
Timothy Ruppert  
Endera Linton  
Rodney Waldhoff  
W. Randall Watler  
Roger Webster  
Rory Winston  
Ryan McKinley  
Arthur Gary Ryman  
Bob Schellink  
Said Ryan Ackley  
Bamunavita Gamage  
Sahan Sajeewa  
Sameer Parekh  
Saminda Wishwajith  
Abeyruwan  
Don Samisa Abeysinghe  
Sam Joyce  
Pileththuwasan  
Sandakith  
Scott Sanders  
Thomas Sandholm  
Shudi Gao  
William A. McArthur Jr.  
Sanjaya Gayan Prasanna  
Singharage  
Sanjaya Karunasena  
Sanjiva Weerawarana  
Hettige Don Ignatious  
Nywan Sanka  
Samaranayake  
Santiago Pericas-Geertsen  
Manuel L. Santillan  
Santosh Singh  
Sascha Schumann  
Satheesh Thurairajah  
Joachim Sauer  
Stephane Bailliez  
Sam Berlin  
Scott Boag  
Sven Boden  
Sandro Boehme  
Scott Boyd  
Stephen K. Brewin  
Salvatore Campana  
Scott Cantor  
Douglas Alan Schepers  
Richard J. Scheuerle, Jr.  
Sean Schofield  
Marshall Schor  
Christopher Schultz  
Steven M. Cohen  
Stephen Colebourne  
Scott Coleman  
Laura Stewart  
Scott Ganyo  
Scott Kurz  
Scott Ryan  
Sander Temme  
Scott Deboy  
Scott Eade  
Sean.Macroibeard  
Sean O'Callaghan  
Sebastian Bazley  
Martin Sebor  
Stefan Seelmann  
Kevin Seguin  
Matt Seibert  
Senaka Fernando  
Serge Knystautas  
Sergey Vladimirov  
Stephane Frenot  
Santiago Gala  
Steve Graham  
Siegfried Goeschl  
Scott Goldstein  
Gal Shachor  
shalin Shekhar Mangar  
Selvaratnam  
Uthaiyashankar  
Diana Shannon  
Shanti Subramanyam  
Sharath Reddy  
Sasvata Chatterjee  
Shawn Bayern  
Sheetal V. Patil  
Daniel Ferrin  
Stephan Hesmer  
Shinobu Kuwai  
Shinsuke Sugaya  
Shiva Kumar  
Serge Huber  
Stephen D. Huston  
Konstantin Shvachko  
Si Chen  
Gabriel Sidler  
Sidney Markowitz  
Simone Gianni  
Simon Willnauer  
Sami Siren  
Britton Isbell  
Sian January  
Sangjin Lee  
Sjur Moshagen  
Sally Khudairi  
Stephen Kestle  
Stephen Kim  
Simon Kitching  
Shawn Laubach  
Simon Laws  
Simon Lessard  
Joshua Slive  
Steven M. Milek  
Stepan Mishura  
Stephane Mor  
Torbjorn Eikli Smorgrav  
Stephan Nagy  
Scott Nichol  
Stephane Nicoll  
Sudar Nimalan  
David M. Johnson  
Scott Bryan  
Zhiwu Xie  
Ilia Soldatenko  
Paul Ercolino  
Simon Pepping  
Simeon Pinder  
Sachin Pravin Patel  
Steve Raeburn  
Sean R. Owen  
Sebastien Sahuc  
Stig S. Bakken  
Srinivasa Segu  
Stan D. Silvert  
Scott Stirling  
Michael Stack  
Stas Bekman  
Stefan Guggisberg  
Stefeno Mazzocchi  
Gao Jingjing  
Stephan Michels  
Stephen Haberman  
Sterling Hughes  
Steven Shaw  
Stephen L. Hanson  
Steve Hay  
Steve Loughran  
Steven Caswell  
Steven Dolg  
Outerthought - Steven  
Noels  
Stefan Hepper  
Steven G. Tocco  
Bill Stoddard  
Sander Striker  
Michael Stroucken  
Kazuhito Suguri  
Sean Sullivan  
Sumedha Rubasinahe  
Supun Kamburugamuva  
Suresh Thalamati  
R.A. Susantha Kumara  
Susan Wu  
Ben Collins-Sussman  
Stephen Viens  
Sylvain Vieujoet  
S Venkatakrishnan  
Sergey Yedrikov  
Sylvain Walliez  
Tsz-wo Sze  
Stefan Zoerner  
Timothy A. Bish  
Takashi Sato  
Christophe Taton  
David Sean Taylor  
Timothy Bennett  
Tom Copeland  
Thomas Cunningham  
Torsten Curdt  
Timothy Dawson  
Thomas J. Donovan  
Ted Dunning  
Ted Steen  
Tejeswar Das  
Tim Ellison  
Tetsuya Kitahata  
Thomas Fischer  
William Thad Smith  
David Wheeler  
Peter Hawkins  
Thies Arntzen  
Nanayakkara  
Kurupuge Thilena  
Gunarathne  
Thomas Mahler  
Thomas Nielsen  
Thomas Mueller  
Thom May  
John Thorhauer  
Thorsten Scherler  
Timo Heikki Rantalaiho  
Tijs Rademakers  
Timothy D. Larson  
Tim Jones  
Ted Kirby  
Thierry Kormann  
Todd Miller  
Toby Jee  
Tomohito Nakayama  
Tinny Ng  
Steve Toback  
Timothy O'Brien  
Tomas Restrepo  
Thomas Dudziak  
Tomasz Sztelek  
Tom Jordahl  
Thomas Spiegel  
Thomas White  
Anthony Collen  
Wu Yue Hao  
Tore Engvig  
Tore Halset  
Torsten Fortsch  
Toshiyuki Kimura  
Peng Ting  
Jeff Trawick  
Timothy Reilly  
Tobias Bocanegra  
Ted Ross  
Trotter Cashion  
Kurt Miller  
Trustin Lee  
Trygve Laugstol  
Torsten Schlabach  
Thomas Schneider  
Tsvetelin Saykov  
Thomas Termin  
Tim Triemstra  
James Turner  
Tushar Bhatia  
Thomas Vandahl  
Timothy James Veil  
Tomasz Wielga  
Thilo Goetz  
Timothy Wayne  
Williams  
Ted Leung  
Ugo Cei  
Ulrich Kuester  
Brent Ulbricht  
Ulhas Bhole  
Magesh Umasankar  
David Nuescheler  
Unico Hommes  
Unreal Jiang  
Upayavira  
Upul Godage  
Utkarsh Srivastava  
Andreas Vajda  
Vamsavardhana  
Chillakuru  
Vanitha Venkatraman  
Tammo van Lessen  
Alexey Varlamov  
Victor Borja  
Erwin van der Koogh  
Andreas Veithen  
Venkat Reddy  
Venugopal Rao K  
Vishal Goenka

Vadim Gritsenko  
Vincent Hardy  
Vincent Hennebert  
Vidyanand Murunikkara  
Viet Nguyen  
PVikas Roonwal  
Lionel Villard  
Vinay Chandran  
Vincenzo Gianferrari  
Pini  
Thomas Johnson  
Stephen Vinoski  
Vishal Mahajan  
Travis Vitek  
Valentin Kuznetsov  
Vivek Kumar  
Vladimir Bossicard  
Vincent Massol  
Valery Masiutsin  
William Victor Mote  
Vasily Zakharov  
V. Narayanan  
Vincent Salvato  
Vincent Siveton  
Vincent Tence  
Vairamuthu Thayapavan  
James Waldo  
Rob Walker  
Martin Walluer  
Walter Hoehn  
David Fisher  
Warwick Burrows  
Wouter Cloetens  
Scot Weaver  
Volker Weber  
Bob McWhirter  
Werner Dittman  
Werner Punz  
Robin Wesley McKean  
Wesley Wannemacher  
William Glass-Husain  
Mark Whitlock  
Wolfgang Hoschek  
William Charles  
Reichardt  
David J. Wisneski  
Wojciech Janiszewski  
Weldon Washburn  
Andreas Wombacher  
Roy Wood  
Peter Lin  
Woonsan Ko  
William A. Rowe Jr.  
Wilfredo Sanchez

Wendy Smoak  
William Sobel  
Xavier Hanin  
Xiao-Feng Li  
Matt Yackley  
Yana Kadiyska  
Yegor Kozlov  
Hemanth Yamijala  
Yauheny Mikulsk  
Yoav Shapira  
Yongho Ha  
Yonik Seeley  
Yoon Joo Sun  
Yoshiki Hayashi  
Yash Pal Talwar  
Yun Feng Ma  
Zeev Suraski  
Zhang Fan  
Zhang Huang Zhu  
Zhen Wang  
Zheng Zhong  
Scott Ziegler  
Henry Zongaro  
Zheng Shao  
Zvi Avraham

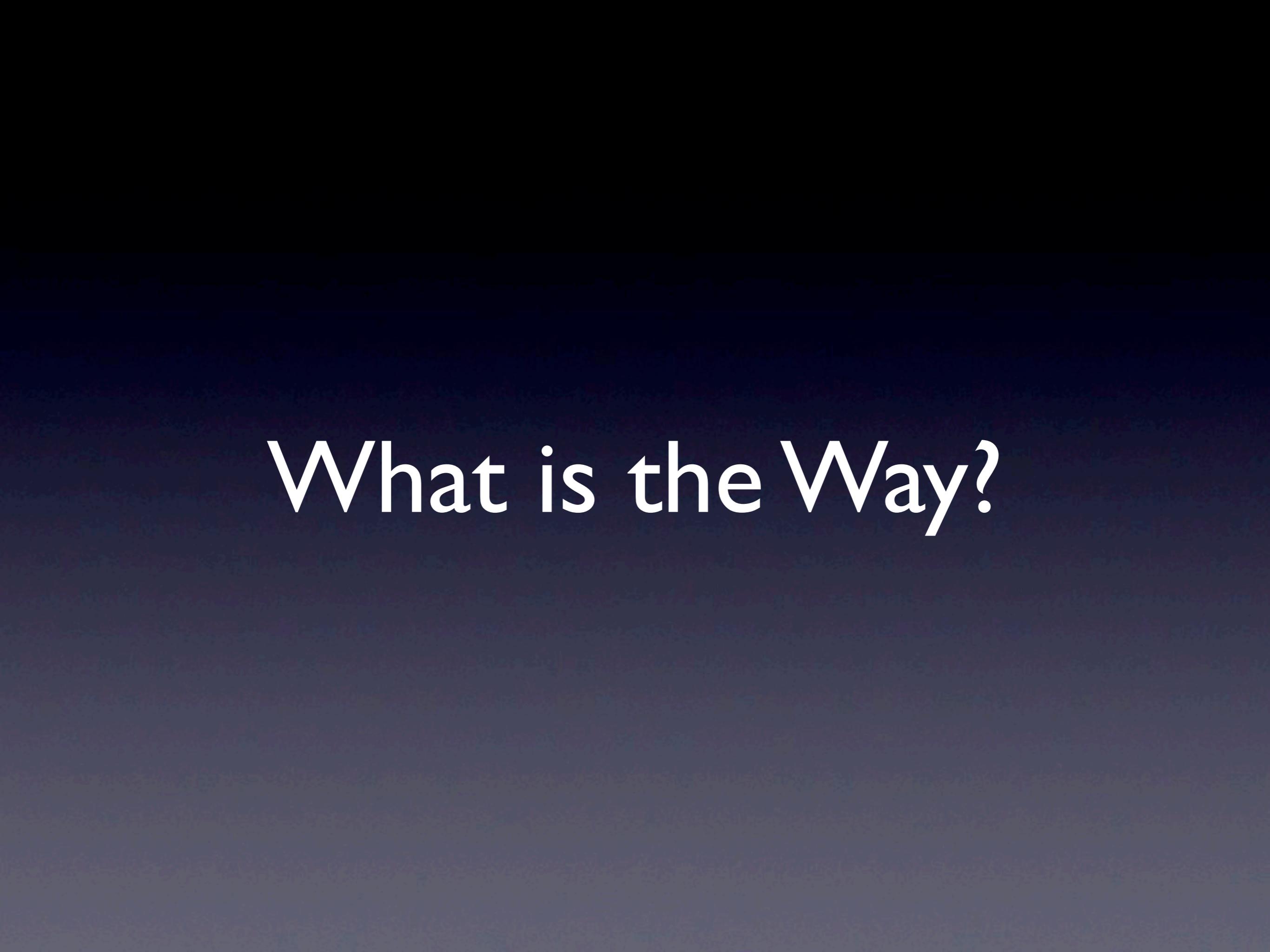


# Purpose of the ASF

*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.*

# Purpose of the ASF

- Infrastructure for open source development
- Legal entity for donation purposes
- Shelter from law suits
- Protection of the Apache brand



What is the Way?

# The Apache Way

- Meritocracy
- Respect for fellow developers
- Consensus
- Transparency
- Non-Affiliation
- Responsible Oversight

# How the ASF Works

- Collaborative Software Development
- Commercial Friendly Standard License
- Consistent High Quality Software
- Respectful, honest, technical-based interaction
- Faithful implementation of standards
- Security as a mandatory feature

# What is Apache *not* about?

- Flame someone to shreds
- Make code decisions on IRC
- Demand someone else fix your bugs

# Meritocracy

Govern of Merit

It's about what you do.

Those who do, *decide*.

# When to Commit?

# Commit Bits

- When? It depends.
- In Apache, when contributor shows consistent commitment
- The ASF averages 15 new committers a month, but most of that is through new projects entering.
- Many projects only add 2 committers a year

Commit Then Review



# Review Then Commit

# Consensus Decision Making

- Most decisions made on mailing list without voting, sometimes by way of **lazy consensus**.
- Voting rules

Yes	Abstain	No (veto)
+	0	-

- For releases, 3 + |'s required, no vetos
- A - | veto requires proposal of alternate solution

# Decisions in Apache

- Email discussion
- Proposal on the wiki
- More email
- If necessary, vote
- Can veto a technical change
- Did I mention email?

# Apache Voting

- Usually limited to
  - Releases
  - Inviting a new committer
  - 3 voters is minimum quorum
  - 72 hours minimum time
  - If you have to resort to votes often, something is wrong

# Open Communication

- Communication is done online.
- Email lists are preferred form of communication.
  - dev@, commits@, users@
- Most communication is publicly archived.
- Most lists are open to any subscriber.

# Responsible Oversight

- Small commits, peer reviewed
- Security is mandatory
- Ensure license compliance
- Release only high quality software
- No abuse of Apache brand or community

# Peer to Peer

- We work with *people*, not companies.
- Committers and members should hold one another with respect.
- All votes hold the same weight.
- Community over code.

# The Apache Way

- Meritocracy
- Peer to Peer
- Consensus decision making
- Open, online communication
- Responsible oversight

# The Apache Way

PAJPAH  
大元首

# Emergent Culture of the Apache Community



A Culture that values  
Collaboration.

Open Source begins  
with a license.

Apache is more than its  
license.

Apache serves as a  
model of collaborative  
development.

The Apache Way is the  
living, breathing culture  
we create through our  
emails, our commits,  
our behavior.

As we change, so does  
the Apache Way.

Therefore, we attempt  
to codify it to add  
stability and longevity.

All things which live  
must balance between  
the twin deaths of  
chaos and order.

# The Edge of Chaos

The Apache Way is  
complex.

PAJPAH  
大元首

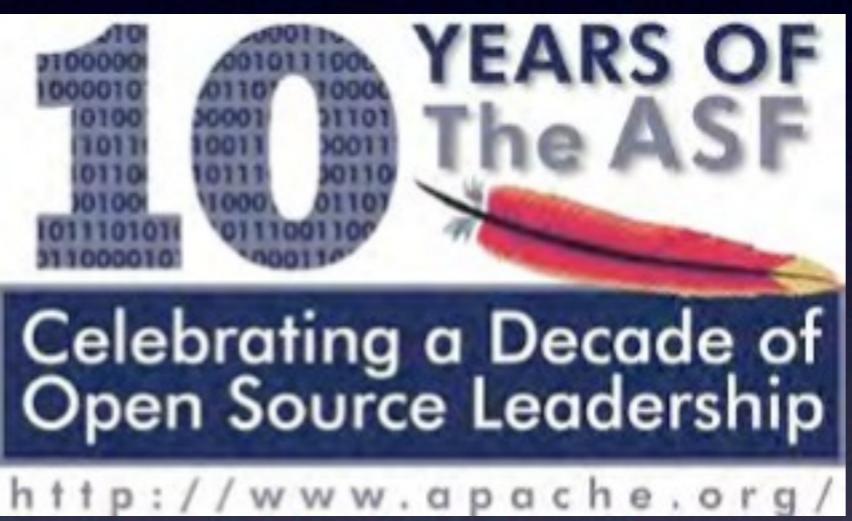
# The Apache Way

- Meritocracy
- Respect for fellow developers
- Consensus
- Transparency
- Non-Affiliation
- Responsible Oversight

# Purpose of the ASF

- Infrastructure for open source development
- Legal entity for donation purposes
- Shelter from law suits
- Protection of the Apache brand

# The Way Forward





# Grow

Grow up

# Gentrification of Apache

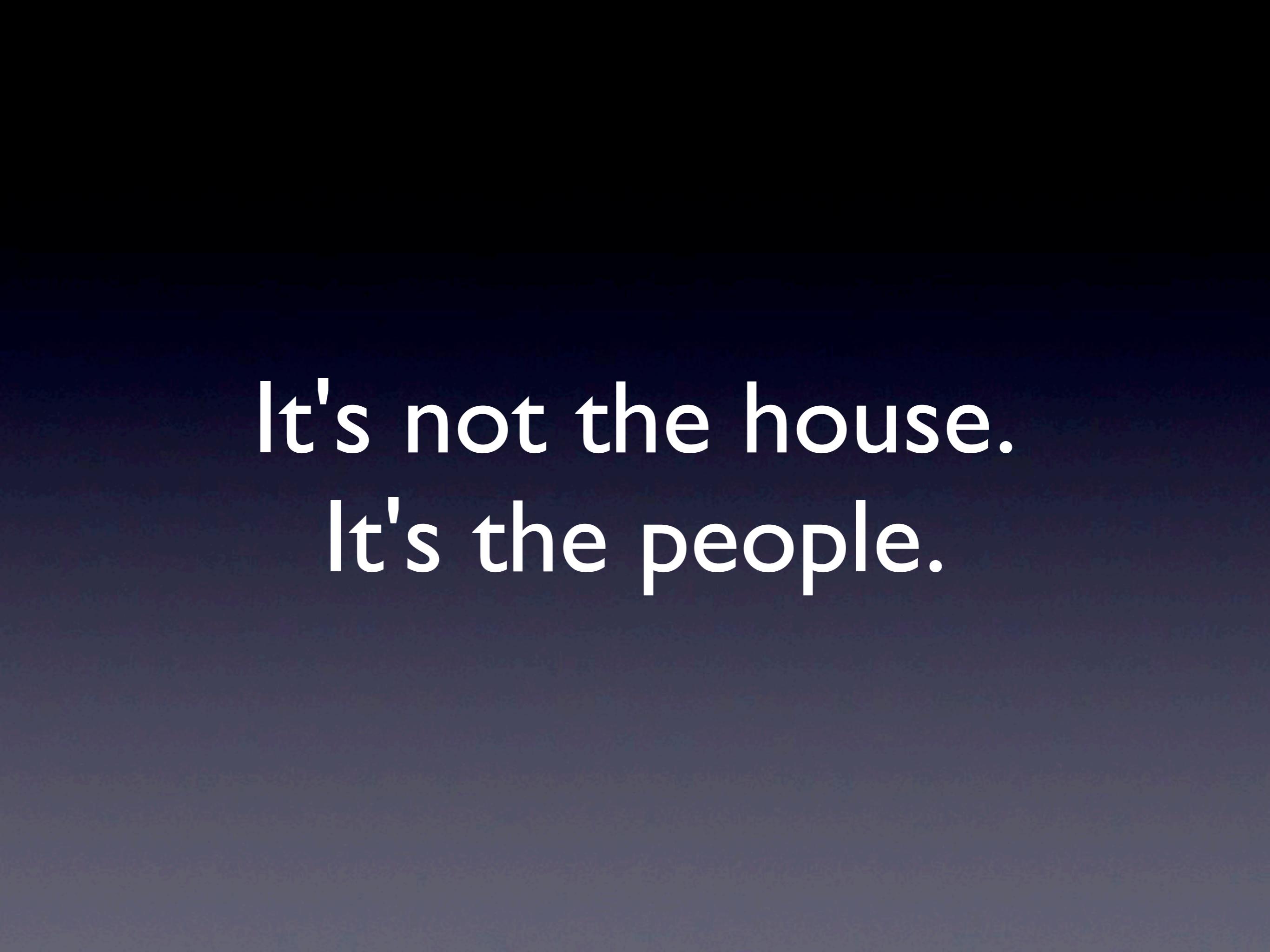
# The Apache House









A dark, grainy background image of a house at night with lights on.

It's not the house.  
It's the people.



# Thank You

## **Photo Credits**

Isabella's Little Pink House by Stuck in Customs

Damrak - Amsterdam by MorBCN

Two Yurts by Miles\_78

Biltmore Estate in Asheville by Go Card USA

Login by Mirko Macari

Some Rights Reserved <<http://creativecommons.org/licenses/by-nc-sa/3.0/>>