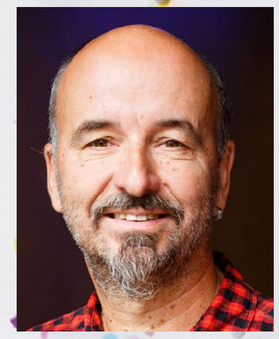
Open Source Changes The World. Really?

Bertrand Delacrétaz - Principal Scientist, Adobe Research Switzerland, Bâle
Member and current Director, Apache Software Foundation :: @bdelacretaz :: grep.codeconsult.ch



ApacheCon @Home
Sep 29 - Oct 1, 2020

Be
Sagmeister & Walsh

Illustrations: Adobe Stock, unless otherwise mentioned :: slides revision 2020-09-28

Open Source?

Becoming Director..

The Apache Software Foundation

Board of Directors Meeting Minutes

June 25, 2008

Roll Call

Directors Present:

Bertrand Delacretaz
Justin Erenkrantz
J Aaron Farr
Jim Jagielski
Geir Magnusson Jr
William Rowe Jr
Sam Ruby
Henning Schmiedehausen
Greg Stein

THE APACHE® SOFTWARE FOUNDATION

A career powered by Open Source. Really?

The Board of Directors of The Apache Software Foundation (ASF) is responsible for management and oversight of the business and affairs of the corporation in accordance with the Bylaws.

cocoon™

THE APACHE® SOFTWARE FOUNDATION

Day™

Sling™

Adobe

The Apache™ FOP Project

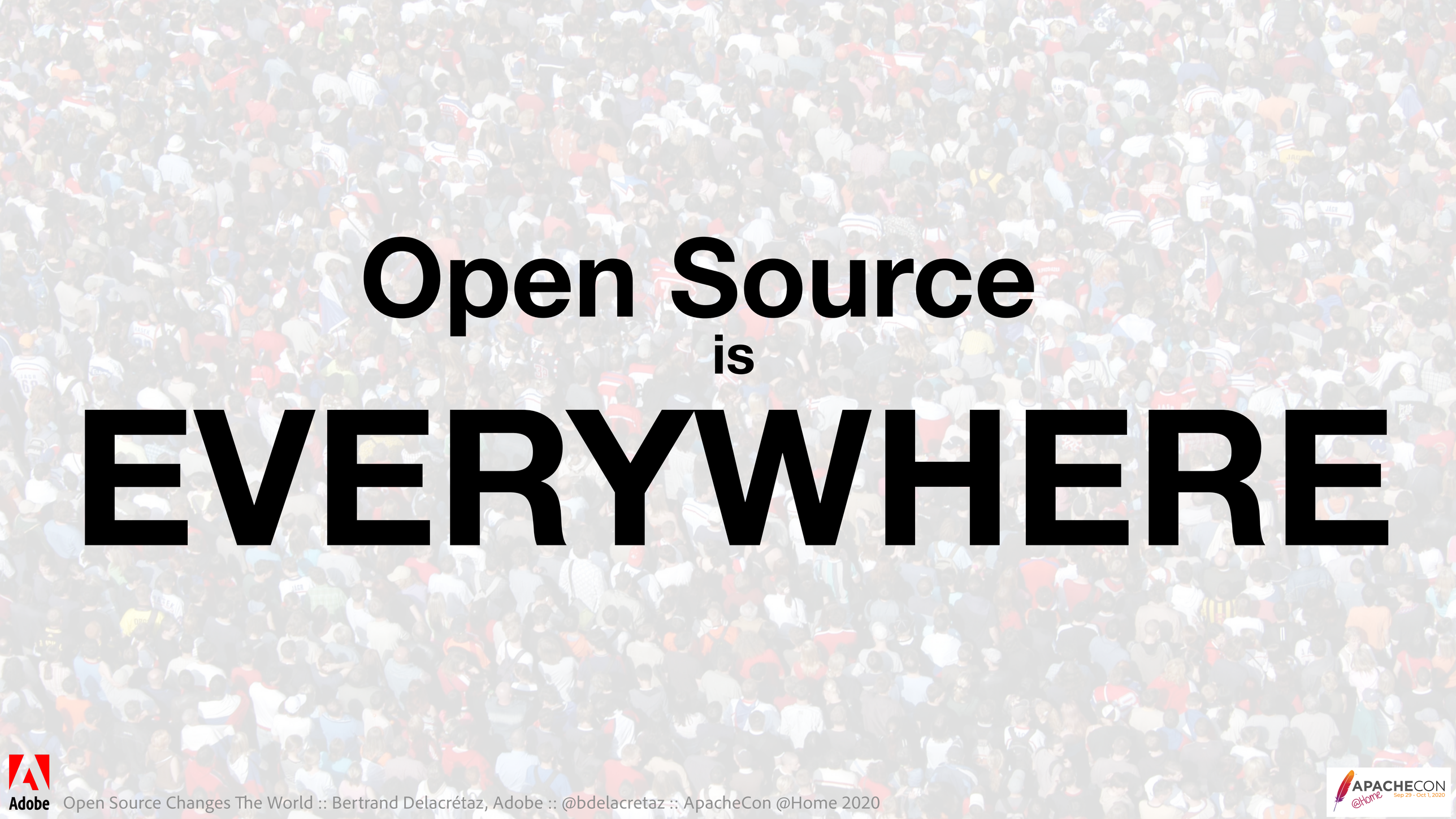
APACHE™ FOP DEVELOPMENT: RTFLIB (JFOR)

Schweizerische Eidgenossenschaft
Confédération suisse
Confederazione Svizzera
Confederaziun svizra

Nouvo
Faites tourner l'info!

APACHE INCUBATOR

1998 2000 2003 2004 2007 2008 2009 2010 2011


Open Source
is
EVERYWHERE

EVERYWHERE ?

HEIDI.NEWS

How Google wants to reinvent cloud computing and renew itself in the process

par Stefan Betschon - NZZ

Urs Hölzle au Web Summit en 2014 | Web Summit/Flickr/Creative Commons

Google is pressing ahead with Cloud Computing. As Senior Vice President, Swiss citizen Urs Hölzle is leading this charge.

What are the most important basic innovations that have changed the computer world in recent years?

Open-source software has changed everything. It's an important trend. Everyone relies on it these days.

Justin Erenkrantz @jerenkrantz 19m

Ha! En route to the airport for #ApacheCon in Vegas. Driver has his car's heads up display on and a menu option says "Open Source Software" - we so unequivocally won.

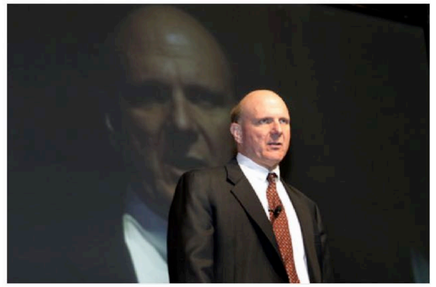
1 8

2001

Ballmer: 'Linux is a cancer'

Contaminates all other software with Hippie GPL rubbish

By Thomas C Greene 2 Jun 2001 at 18:19 SHARE ▼



Credit: Imagemaker via Shutterstock

2019

Microsoft's Ready do Contribute to OpenJDK

Bruno Borges Bruno.Borges at microsoft.com
Wed Oct 30 21:45:15 UTC 2019

- Previous message: OpenJDK Governing Board Minutes: 2019/10/10
- Next message: Re: Microsoft's Ready do Contribute to OpenJDK
- **Messages sorted by:** [date] [thread] [subject] [author]

```
Subject: Microsoft's Ready do Contribute to OpenJDK

Hi OpenJDK Community,

In the past week Microsoft formally signed the Oracle Contributor Agreement
```

Sources:
https://www.heidi.news/articles/how-google-wants-to-reinvent-cloud-computing-and-renew-itself-in-the-process
https://www.theregister.co.uk/2001/06/02/ballmer_linux_is_a_cancer/
https://mail.openjdk.java.net/pipermail/discuss/2019-October/005173.html
https://twitter.com/jerenkrantz/status/1171053570835255296

"Hippie GPL Rubbish" (*) is over...

Open Source is in the engine!

(*) As if it ever existed..."Hippie GPL rubbish" - see previous page

Open Source Communities
make the
DIFFERENCE

THE APACHE® SOFTWARE FOUNDATION

www.apache.org

US 501(c)(3) charitable organization

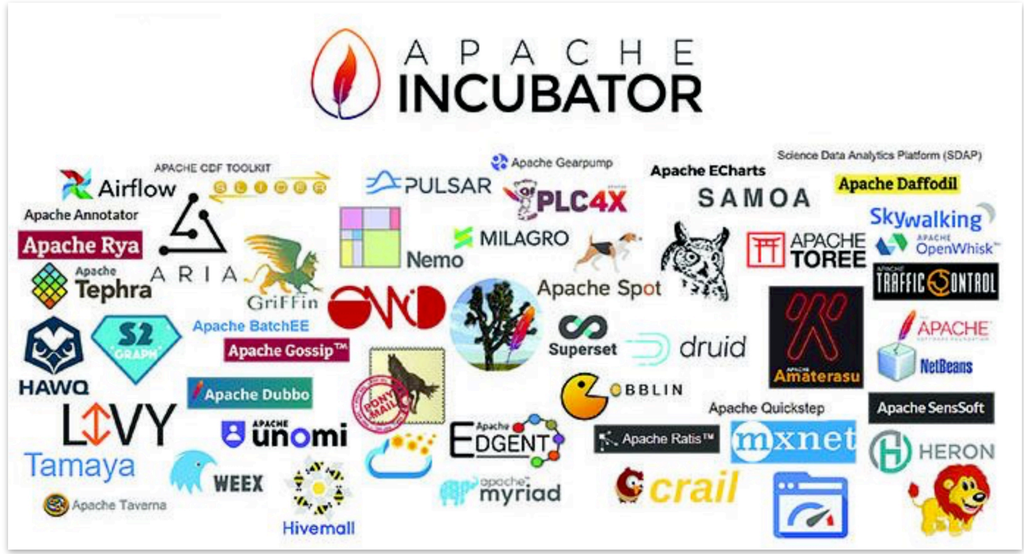
A neutral space
where **independent projects**
can prosper and create
Open Source Software
for the **Public Good.**
Using the **commercial-friendly** Apache 2.0 License

6513 Committers

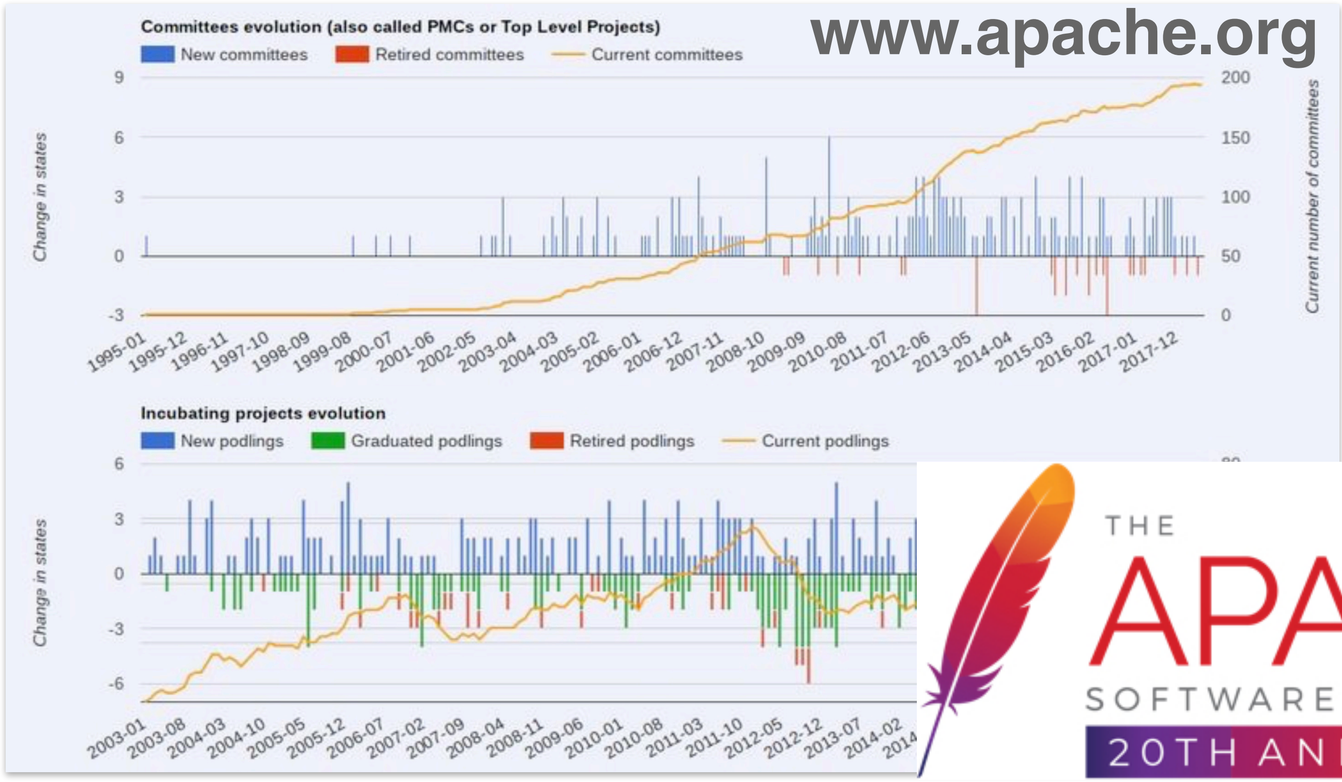
730 Members

196 PMCs

52 Podlings

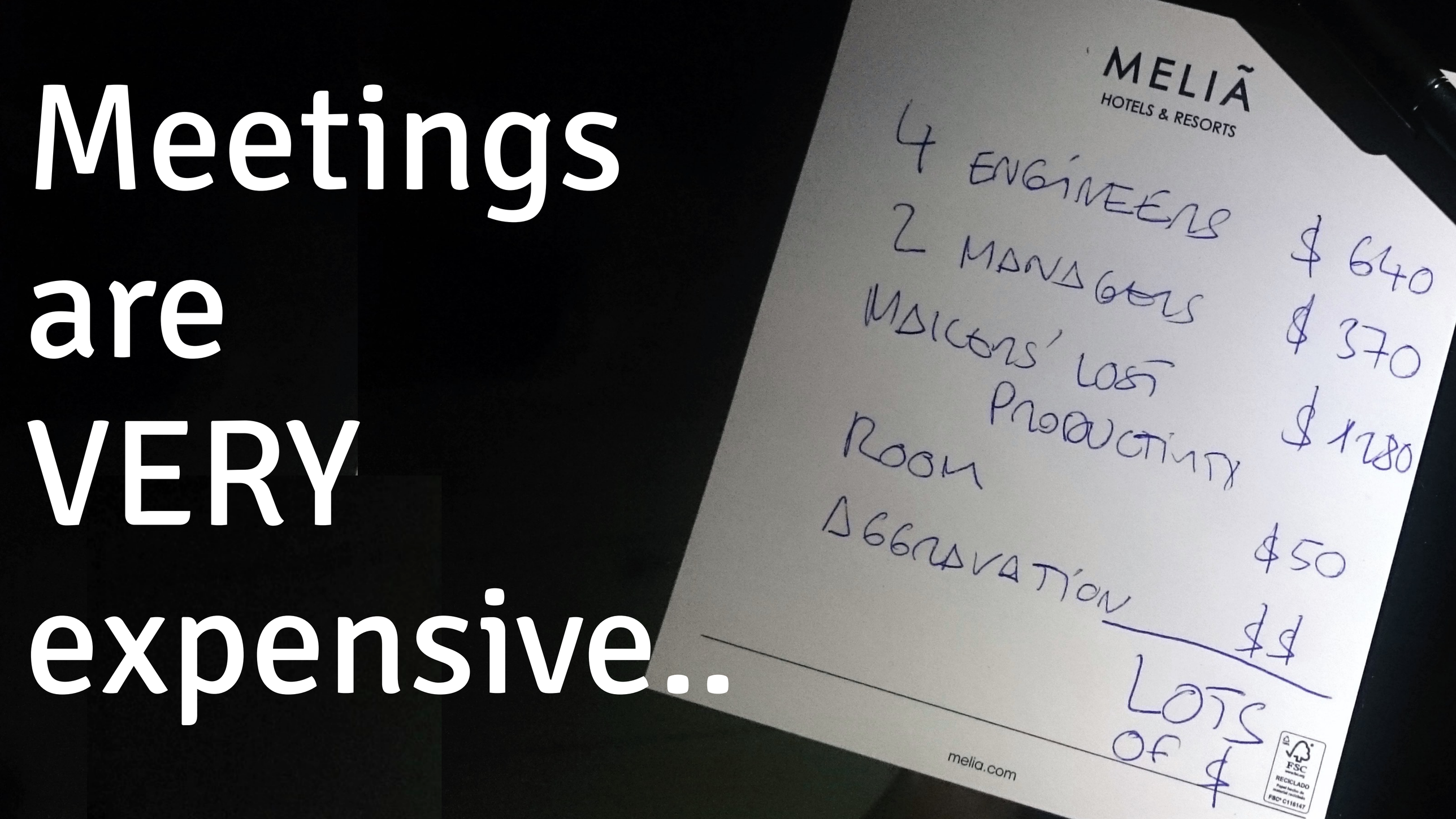


www.apache.org



COMMUNITY
OVER CODE
TM

Meetings are VERY expensive..



In a **Maker's Schedule**,
a half-hour meeting can ruin
your whole afternoon!
Credit: Paul Graham, blog post: https://s.apache.org/ms

Are you on mute?
Forgot to invite Bob!
What's the goal?
Bob forgot…
What's the topic?
failed meetings?
I didn't get it…
Sorry I'm not prepared…
We'll decide next time, ok?
Who's in charge, anyway?

shared & async
broadcast channel

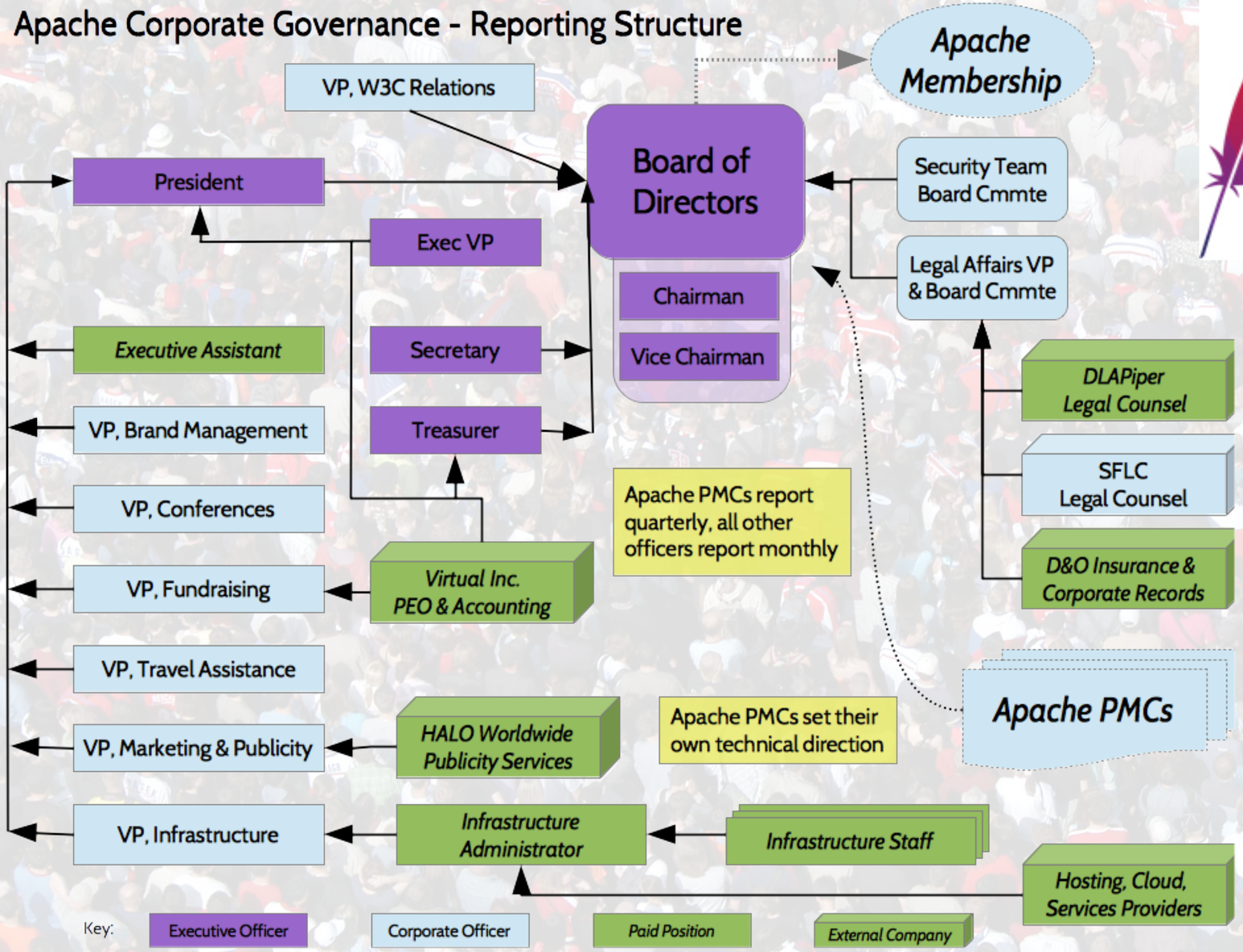
shared case
management tool

Asynchronous Decision Making

FOSS Backstage 2017

blog post: http://s.apache.org/async-decisions

Apache Corporate Governance - Reporting Structure



THE APACHE® SOFTWARE FOUNDATION 20TH ANNIVERSARY

~300 projects

~no meetings

Remote, asynchronous collaboration

https://www.apache.org/foundation/governance/orgchart

Swiss Federal Council: hybrid meeting

Highly prepared, ~80 decisions in 3-4 hours

Schweizerische Eidgenossenschaft
Confédération suisse
Confederazione Svizzera
Confederaziun svizra

- The agenda is presented in colour-coded form. The orange list contains uncontested items of business, which are usually approved swiftly. The blue list consists of responses to parliamentary requests. The items on the white list are discussed and decided one by one due to their political importance; occasionally, the discussions can be spread over a number of meetings. And the green list contains confidential items of business, which are also discussed in detail.

Source: https://www.admin.ch/gov/en/start/federal-council/tasks/decision-making/federal-council-meeting.html

Open Source Communities
make the
DIFFERENCE
COMMUNITY
OVER CODE
TM

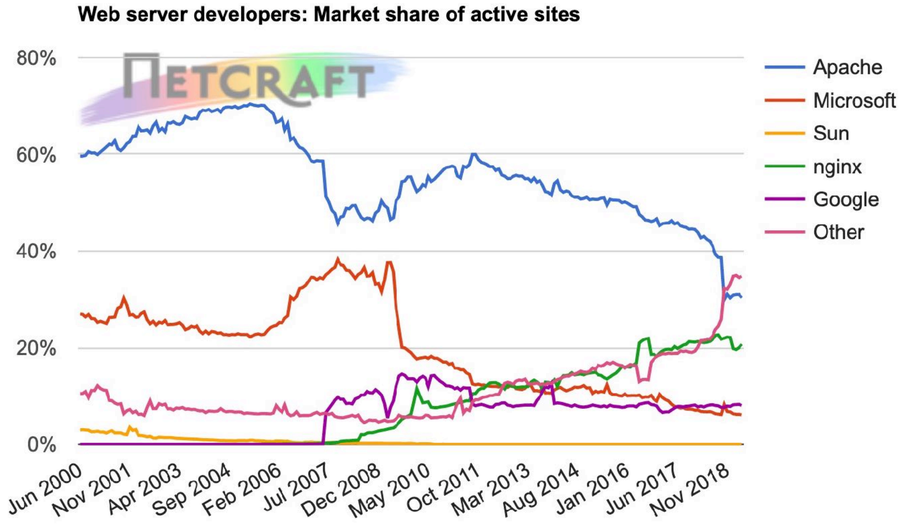
How about BUSINESS ?

Public servers on the Internet

Source	Date	Unix, Unix-like				Microsoft Windows	References
		All	Linux	FreeBSD	Unknown		
W3Cook	July 2015	98.1%	96.4%	1.7%	0%	1.9%	[206]
W3Techs	Feb 2015	67.8%	35.9%	0.95%	30.9%	32.3%	[207][208]
Security Space	Feb 2014	<79.3%	N/A			>20.7%	[209][210]

Linux: between **35** et **96%** of public servers

https://en.wikipedia.org/wiki/Usage_share_of_operating_systems



Developer	March 2019	Percent	April 2019	Percent	Change
Apache	56,236,608	31.01%	55,982,911	30.30%	-0.71
nginx	36,268,792	20.00%	38,293,931	20.73%	0.73
Google	14,953,818	8.25%	14,801,433	8.01%	-0.23
Microsoft	11,254,841	6.21%	11,298,492	6.12%	-0.09

Web Servers: Apache + nginx = **51%**

https://news.netcraft.com/archives/2019/04/22/april-2019-web-server-survey.html

REUTERS PLUS™

Global Hadoop Market 2018 Industry Key Players, Trends, Sales, Supply, Demand, Analysis & Forecast To 2024

Mon Mar 4, 2019 - 11:00am UTC

According to this study, over the next five years the Hadoop market will register a 33.0% CAGR in terms of revenue, the global market size will reach US$ 9400 million by 2024, from US$ 1700 million in 2019. In particular, this report presents the global revenue market share of key companies in Hadoop business, shared in Chapter 3.

APACHE hadoop

Apache Hadoop: a growing $1'700 million market

https://www.reuters.com/brandfeatures/venture-capital/article?id=87535

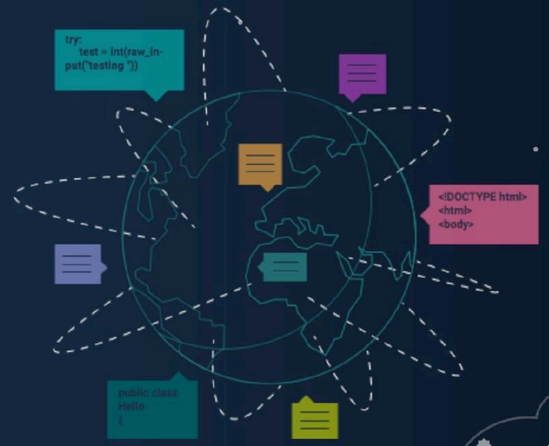
Google Summer of Code

https://summerofcode.withgoogle.com/

14,000+ STUDENTS, 109 COUNTRIES
14 YEARS, 651 OPEN SOURCE ORGANIZATIONS

35,000,000+
LINES OF CODE

Google Summer of Code is a global program focused on bringing more student developers into open source software development. Students work with an open source organization on a 3 month programming project during their break from school.



https://github.com/kubernetes/kubernetes/graphs/contributors

kubernetes / kubernetes

Watch 3.1k | Star 59.6k | Fork 20.9k

Code | Issues 2,277 | Pull requests 1,106 | Actions | Projects 9 | Security | Insights

- Pulse
- **Contributors**
- Community
- Commits
- Code frequency
- Dependency graph
- Network
- Forks

Jun 1, 2014 – Nov 5, 2019

Contributions: **Commits**

Contributions to master, excluding merge commits

#1 smarterclayton
1,297 commits 567,969 ++ 350,812 --

#2 liggitt
1,205 commits 720,606 ++ 1,089,341 --

#3 wojtek-t
1,126 commits 412,577 ++ 238,170 --

#4 deads2k
1,095 commits 700,990 ++ 523,848 --

#5 sttts
1,066 commits 664,459 ++ 586,120 --

#6 brendandburns
1,026 commits 782,877 ++ 118,268 --

Talent discovery and hiring…

GitHub

TO CONCLUDE

Open Source is

EVERYWHERE

Communities make the

DIFFERENCE

And that's also good for

BUSINESS

OPEN SOURCE CHANGES THE WORLD!