

Open Source enables Open Innovation



Bertrand Delacrétaz

Senior Developer, Adobe Digital Enterprise Systems, www.day.com

Apache Software Foundation Member and (current) Director

<http://grep.codeconsult.ch> - twitter: @bdelacretaz - bdelacretaz@apache.org

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original image: <http://www.flickr.com/photos/vermininc/2777441779/>

**OPEN INNOVATION
AND OPEN SOURCE**



open innovation



use **external** and **internal**
ideas

internal and **external**
paths to market

to
advance your technology

**OPEN INNOVATION
AND OPEN SOURCE**

open source

meritocratic
communities

open processes

open code

crowdsourcing



**OPEN INNOVATION
AND OPEN SOURCE**

picture: mzacha, from <http://morguefile.com/archive/display/626438>



open innovation

vs.? and?

open source

innovation is about value

innovation feedback loop
is critical

open source and open
innovation go hand-in-hand



innovation

starts with

ideas

picture: curugon, from <http://morguefile.com/archive/display/21091>



but where's that
needle?

picture: curugon, from <http://morguefile.com/archive/display/21091>



it's about
feedback

pictures: taliesin, [kevinrosseel](#) xfoto on morguefile,



pretend we're a
toy maker

picture: curugon, from <http://morguefile.com/archive/display/21091>

for all ages

creative

durable

relationship

innovative toy
blueprint



for all ages

creative

durable

relationship

innovative toy
reality



innovative toy
feedback?

picture: ppdigital, <http://morguefile.com/archive/display/12788>



NEW Genesis
Garden of Eden, Cain and Abel, The Flood, Sodom & Gomorrah...
40 stories with 625 illustrations
NSVC



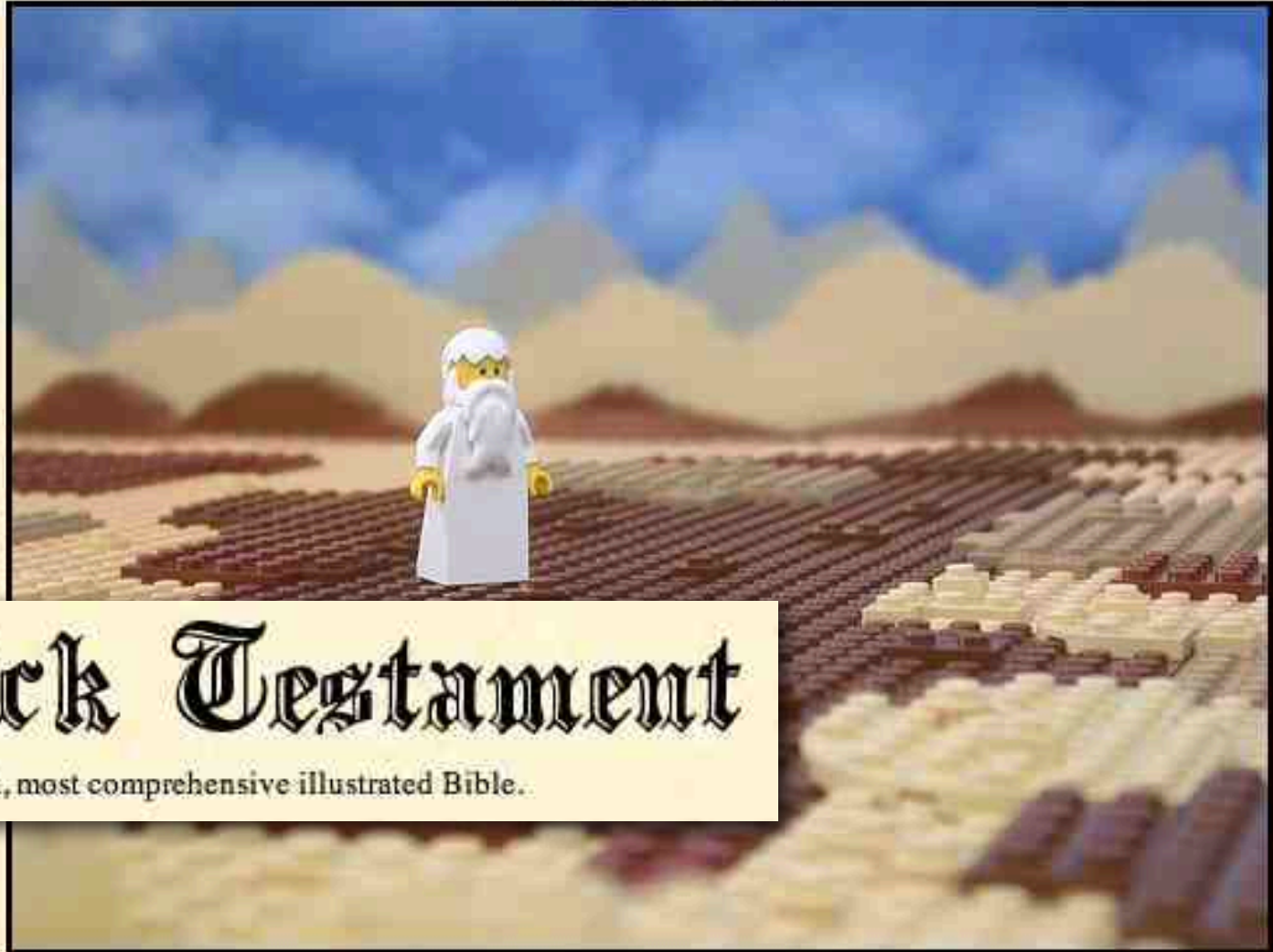
Exodus
Burning Bush, Plague of Frogs, Ten Commandments, The Golden Calf...
31 stories with 431 illustrations
NSV



Wilderness
The Fire of Yahweh, Moses and Aaron Doomed, God Sends Snakes...
25 stories with 271 illustrations
NSVC



The Law
Settling Disputes, Sexual Discharges, Homosexuality, Prisoners of War...
33 stories with 227 illustrations
NSVC



The Brick Testament

The world's largest, most comprehensive illustrated Bible.



Judges
Jerusalem Massacred, 120,000 Midianites Killed, Samson and Delilah
39 stories with 435 illustrations
NSVC



King Saul
Philistines Capture the Ark, Saul Becomes King, David Decapitates Goliath...
26 stories with 288 illustrations
NSVC



David vs Saul
Saul Tries to Kill David, Jonathan and David, David Joins the Philistines...
33 stories with 318 illustrations
NSVC

Genesis 2:4-5

On the day Yahweh God made the earth and the heavens, no plant or shrub had yet sprung up because Yahweh God had not caused it to rain, and there was no man to work the ground.

legoMatrix



innovative toy
feedback?

legomatrix.com



it's about *fast*
feedback

picture: liebestraume95, from <http://www.flickr.com/photos/liebestraume95/3101816428/>



open source:
fast **feedback**,
many **eyeballs**

commit messages

email discussions

issue tracker events

automated builds

open source collaboration
via real-time **events**

mailing lists, wikis, etc.



shared vision

picture: <http://morguefile.com/archive/display/127643>

issue trackers, commit events, ...



**real-time
status updates**

picture: <http://morguefile.com/archive/display/186412>

issue trackers, ...



**real-time
help requests**

picture: <http://morguefile.com/archive/display/180641>

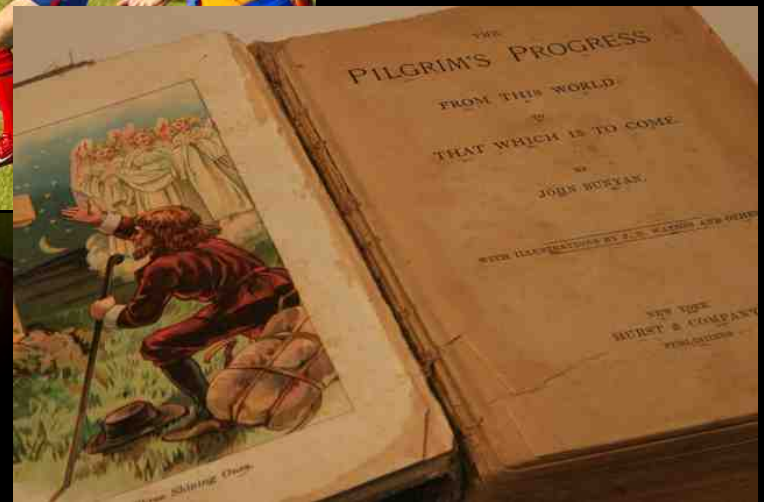
mailing list archives, commit logs, code diffs,
issue tracker pages, etc...



**self-service
archives**

picture: <http://morguefile.com/archive/display/188806>

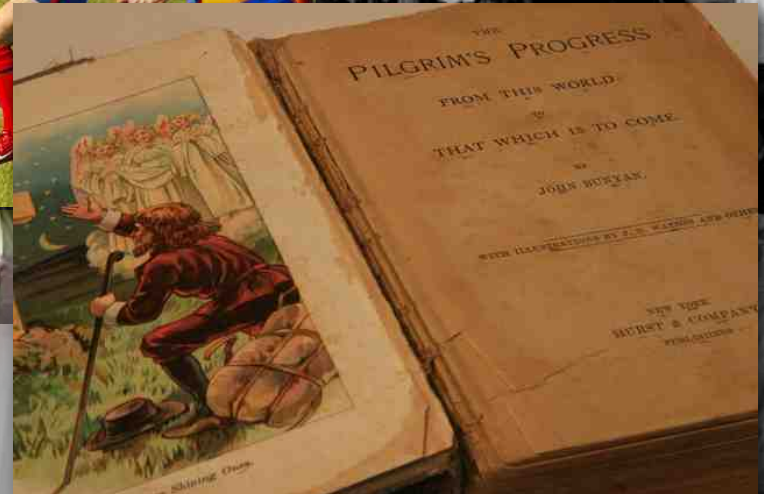
issue trackers
source code control
mailing lists
wikis, etc.



event-based

collaboration

means fast feedback

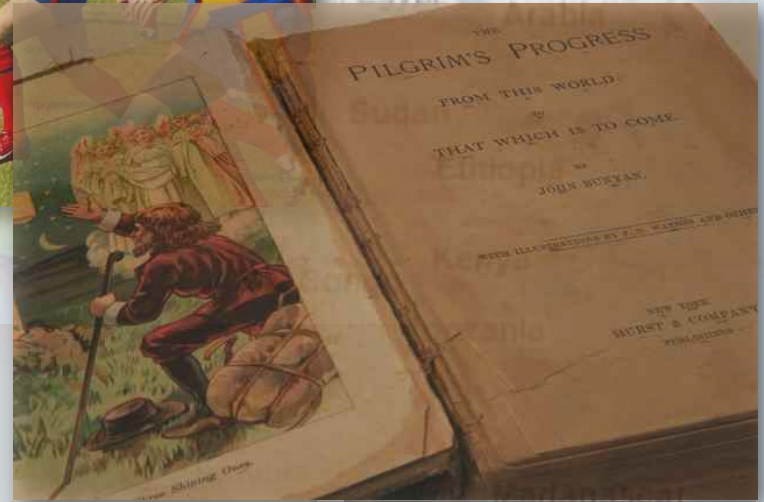
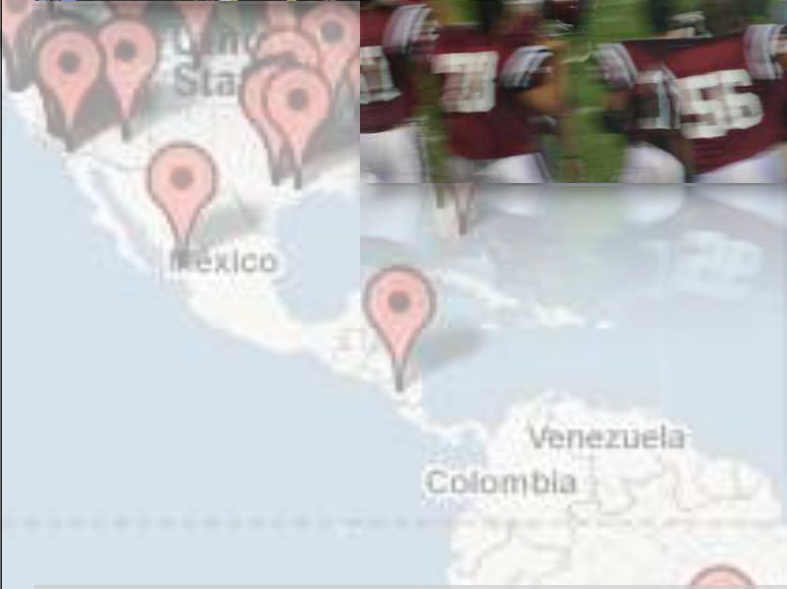


collaboration

with your users

**The Apache
Software Foundation**
<http://www.apache.org/>

committers map



collaboration

with bright people



photo: Ted Leung

innovation @apache



apache
CouchDB
relax



just to
name a
few...



Apache
HTTP SERVER PROJECT



approximate numbers, 2011:

2'600 committers

370 members

94 + 57 (*) projects

active incubator (*)

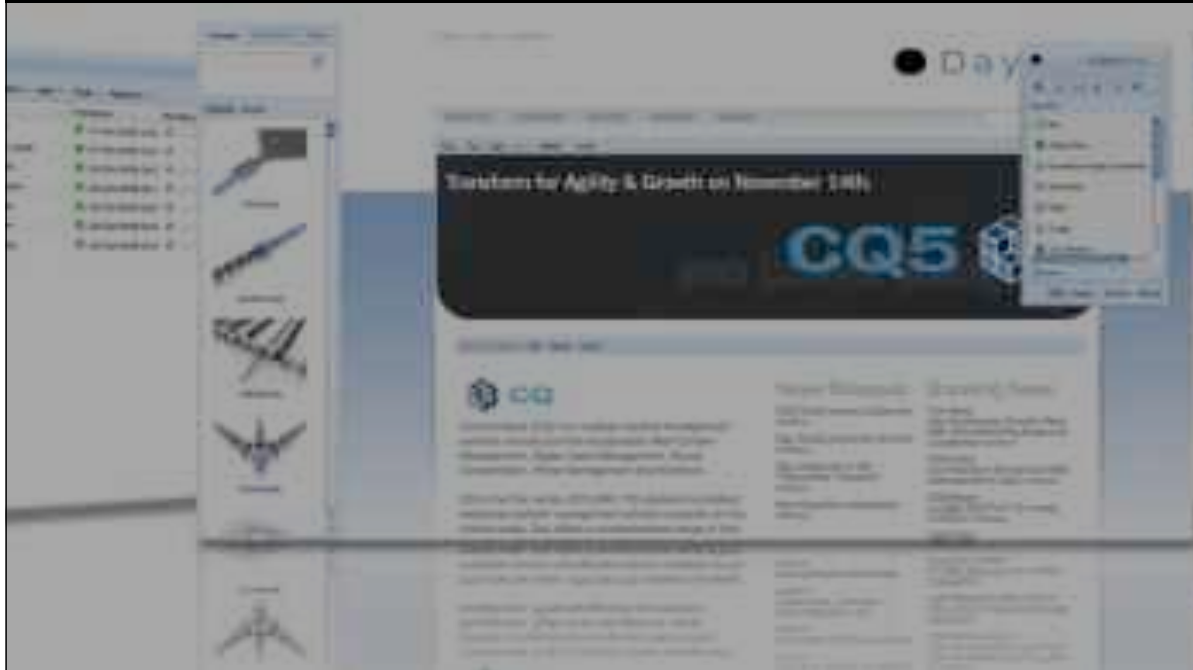
community development

big sponsors

innovation @apache



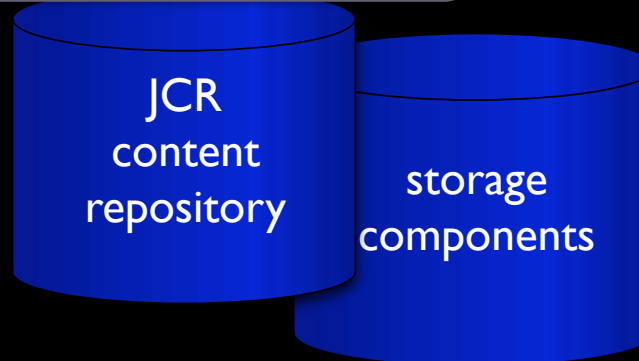
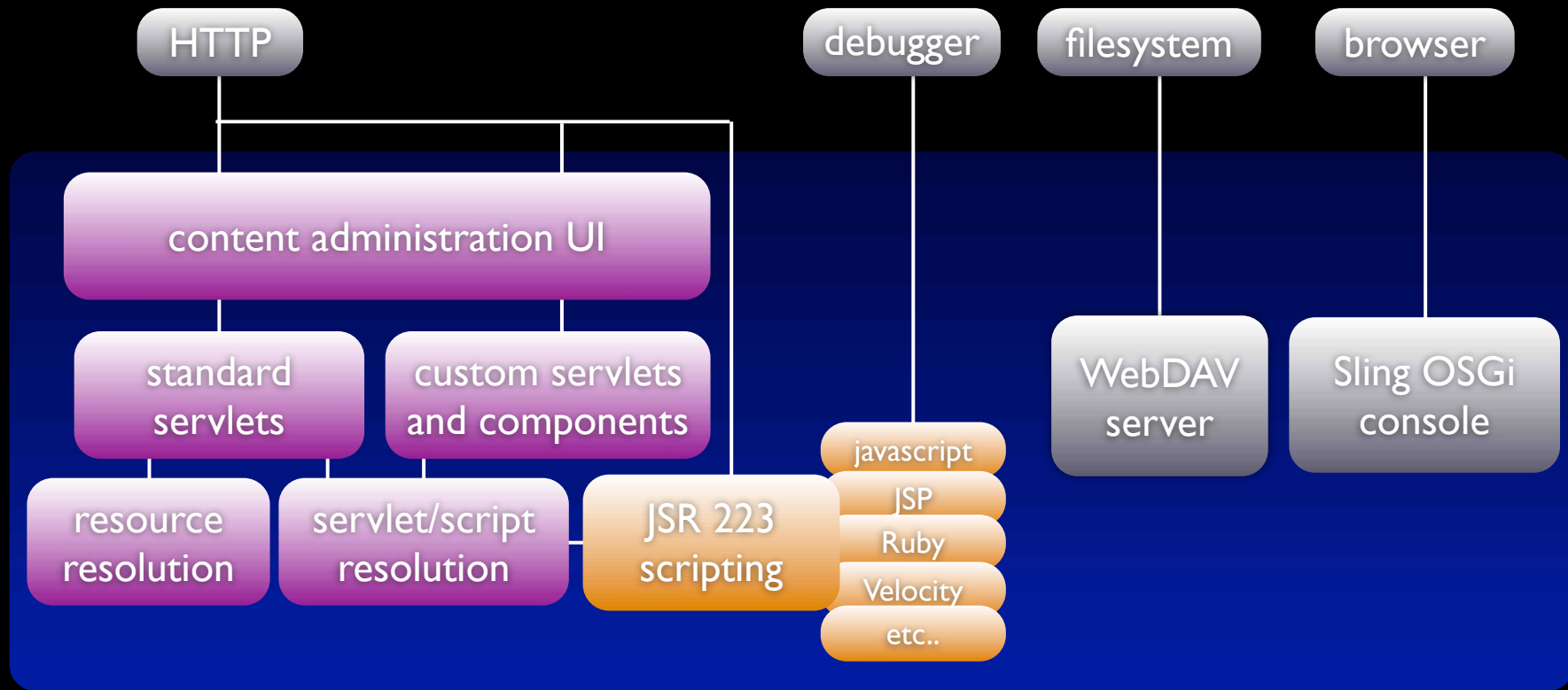
open source:
fast **feedback**,
many **eyeballs**



concrete example
Adobe CQ5

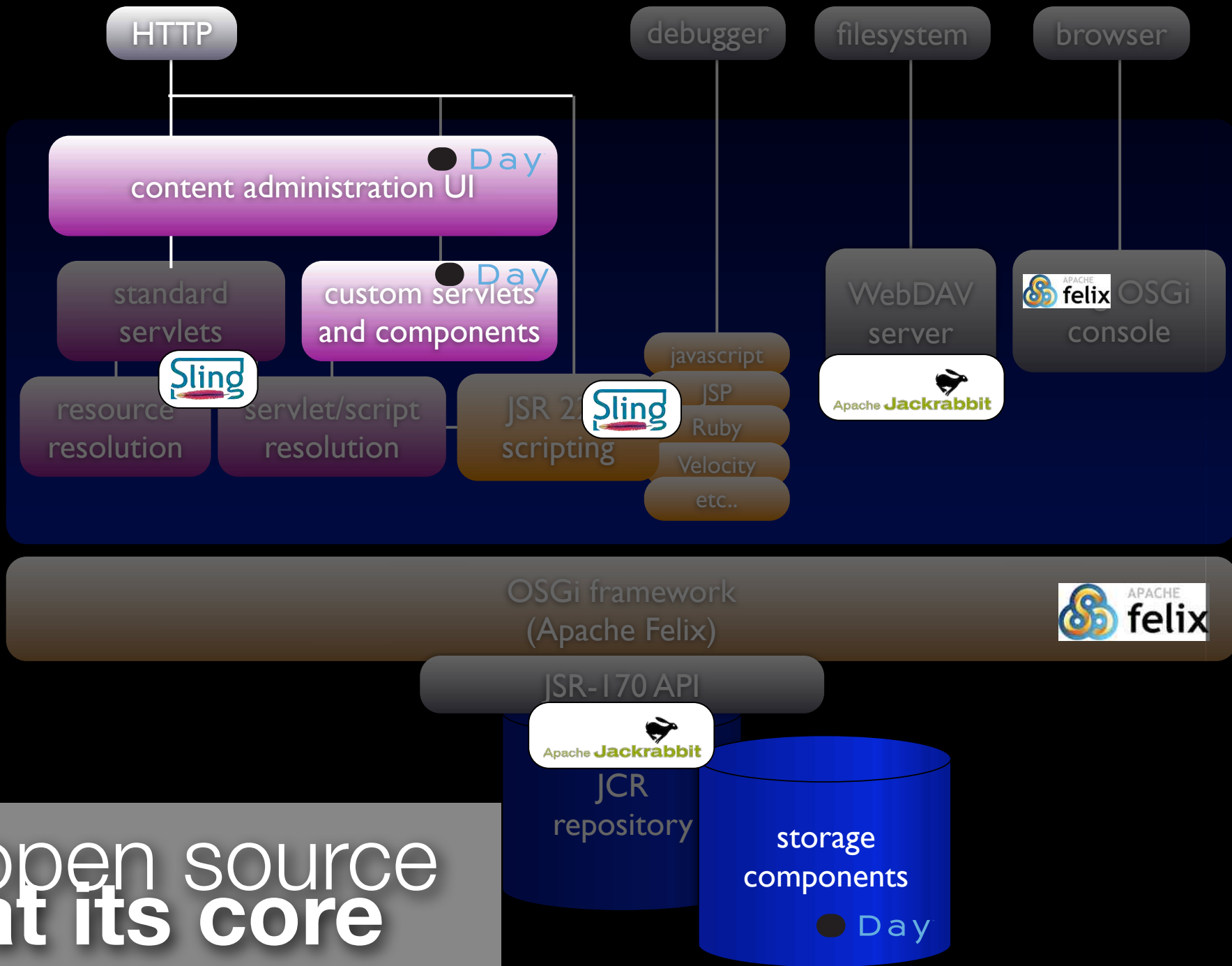
Content/Web Management platform
(formerly Day CQ5)





CQ5
architecture





open source
at its core



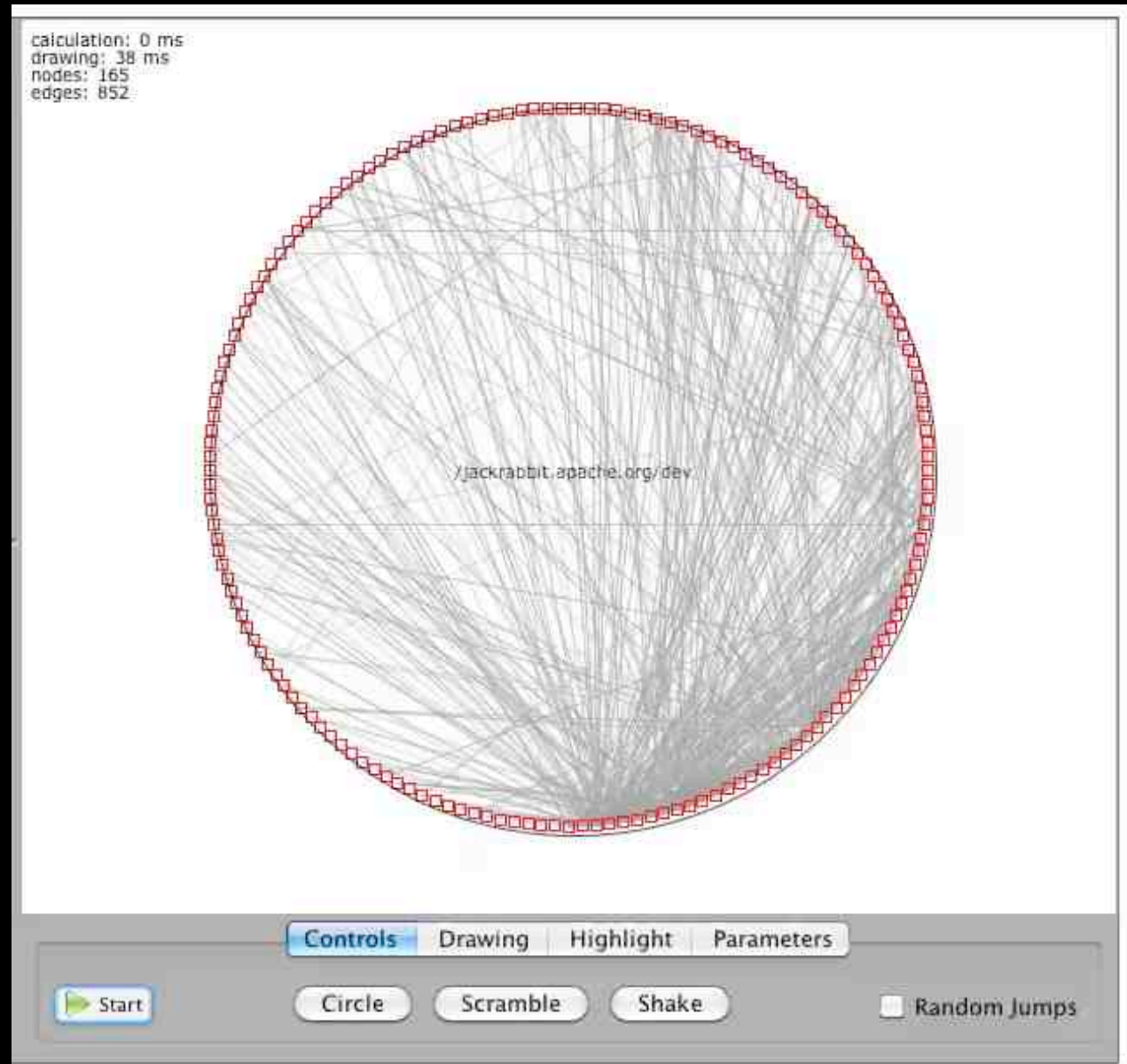


open source
community?



Apache Agora
by Stefano Mazzocchi
<http://people.apache.org/~stefano/agora/>

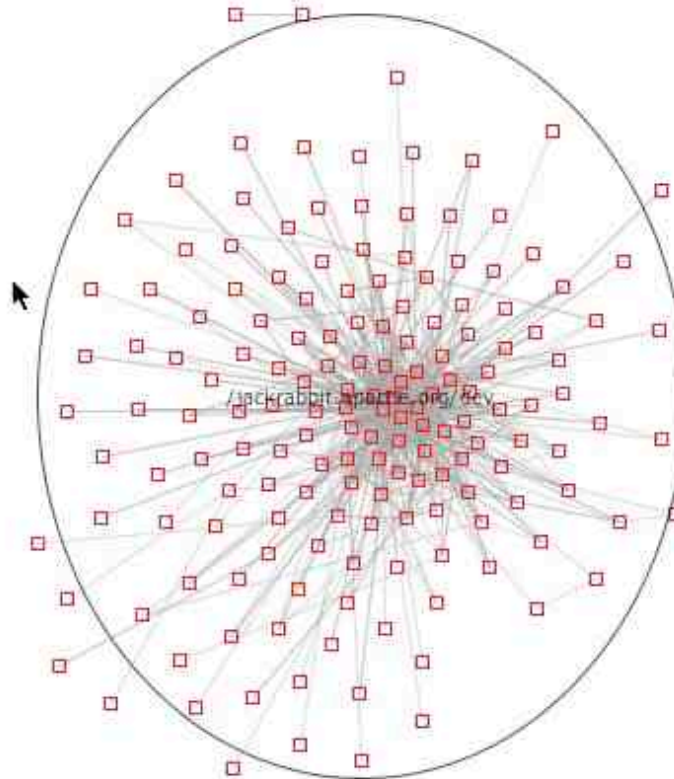
- Apache Agora 1.2
- ▶ felix.apache.org
 - ▶ forrest.apache.c
 - ▶ geronimo.apach
 - ▶ gump.apache.or
 - ▶ hadoop.apache.
 - ▶ harmony.apache
 - ▶ hc.apache.org
 - ▶ hivemind.apach
 - ▶ httpd.apache.or
 - ▶ ibatis.apache.or
 - ▶ incubator.apach
 - ▼ jackrabbit.apac
 - ▶ announce
 - ▶ commits
 - ▼ dev
 - 2004-09
 - 2004-10



jackrabbit dev list
2008-2009



calculation: 1 ms
drawing: 18 ms
nodes: 165
edges: 852



Controls Drawing Highlight Parameters

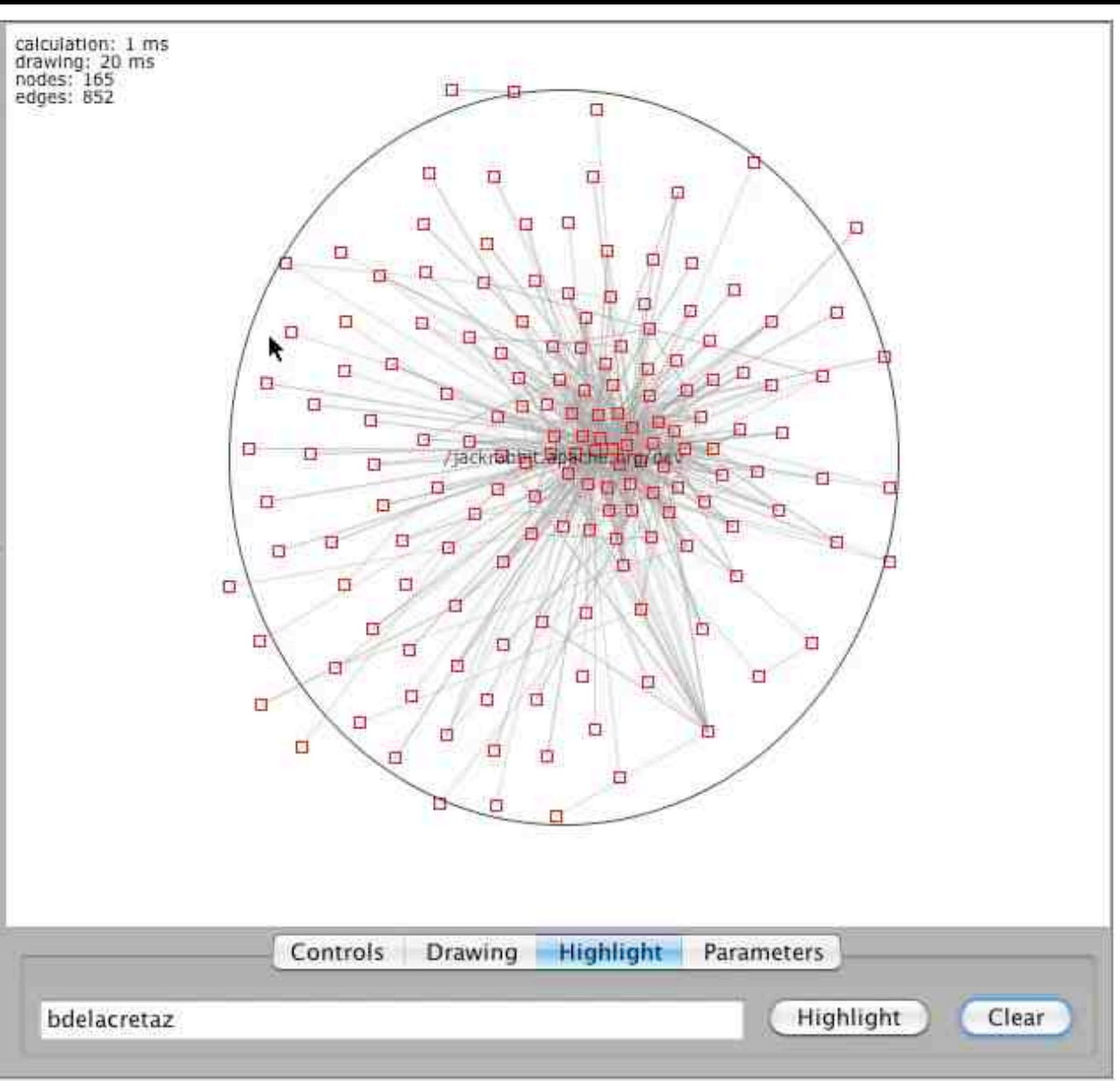
@day.com

Highlight

Clear

highlighting day.com

**OPEN INNOVATION
AND OPEN SOURCE**



highlighting myself



open innovation?
open source!

**OPEN INNOVATION
AND OPEN SOURCE**

feedback is key

if done right,
open source provides
lots of feedback **fast**

let's find those needles
in our haystack of ideas!

Article on The H: <http://x42.ch/03.10.01>

in
summary



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