

Sakai - OpenSource consumer.

How Sakai works with Open Source projects

Dr Ian Boston
CTO, Caret, University of Cambridge
Sakai3 lead
Apache Shindig PPMC Member
Apache Sling PMC Member

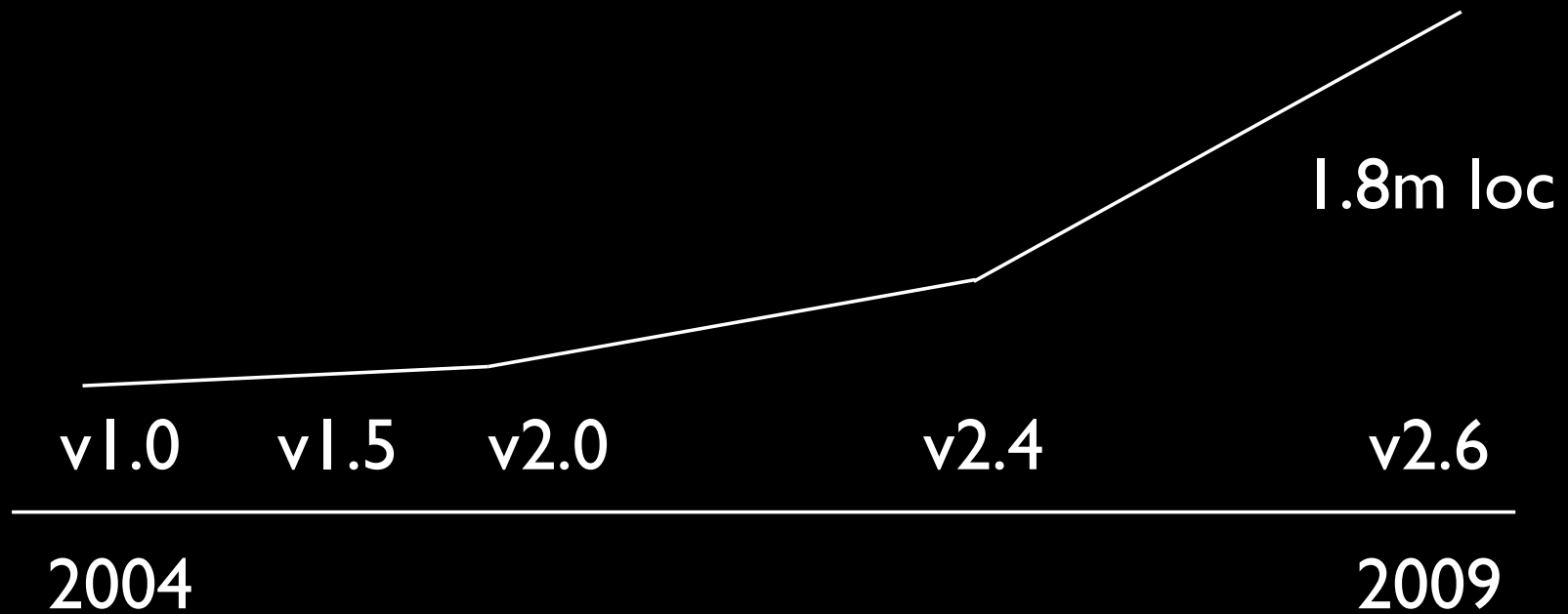
What is Sakai ?

Community
Developers
Educators
Researchers

Higher Ed
Production VLE/VRE
Global, 161 installations
Scalable, 100 - 200K users

Open Source
Sakai Foundation (501c)
ECL2 (Apache2 like)
90% Java
50 - 60 core committers

History



Libraries and IP

Governance

License Clearance

Library Selection

Committer Clearance

CCLA

CLA

v2 Libraries

Spring

Hibernate

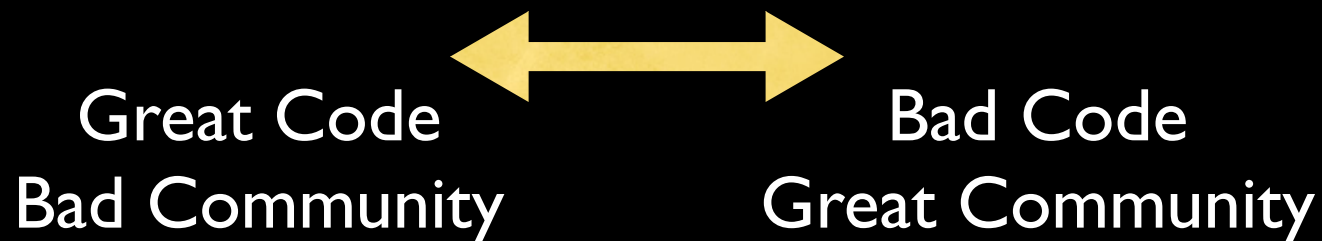
Apache Commons

Apache Tomcat

Lessons for V2

Someone else has probably written a
better implementation already

Code is not the only thing that
matters



Sakai 3

Only own what we have to

Write less, keep it simple

Select on community, license
then code

Engage, contribute, influence

OpenSocial

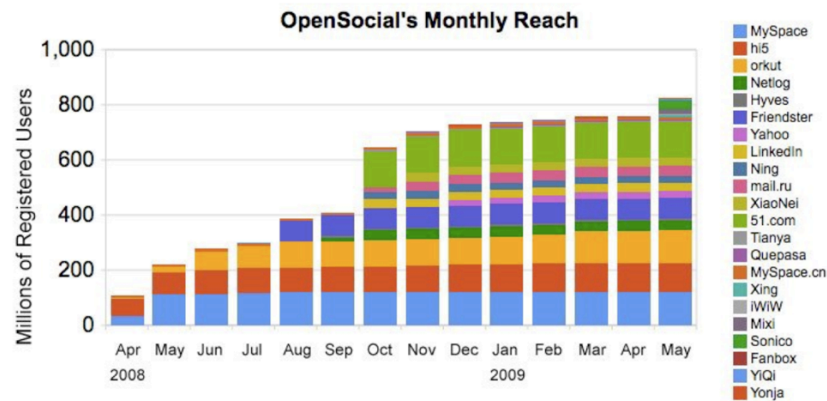
Campfire Announcement 11/2007

1,000s of Developers

App Portability

Fantastic UX

Large Reach



Over 800M in a year – and more to come!

Google
Developer
Day2009

OpenSocial
Developer
Day2009

1st Birthday 05/2009

800M users

315M app installs



Sakai Early 2008

Institutional

Academic
Social Networking
Federation/Integration

Gen Y/Z

Technical

Web NG
UX Driven
App Community

Apache Shindig

OpenSocial RI

Incubator

Code donated to the Incubator
Growing Community

Mainly Google

No Container
Unclear SPI

In production



Engage

Read and Understand

Ask stupid questions, listen

Patch, bug fix, make mistakes

Trust

Read and Understand

Ask questions, listen

Patch, bug fix, make mistakes

Commit to taking eternal responsibility
for every line of code you commit.

First Contact

Lurk
but not for long

First message
“Hi, I am a newbie to Jackrabbit. How
do I”

First Patch
Spelling mistake?

Community Frustrations

“The code is ugly and broken, I wouldn't do it like that”

“It doesn't address my use cases”

“My patches keep breaking and they won't take them.”

explain, educate,
help, support, joke,
show humility, no
arrogance, present
evidence,
move on

Committer Pain

“I have a life, I volunteered”

“I don’t have time to read
10 paragraphs and try and
work out what is being
said”

“Not that question yet
again”

“I cant take responsibility
for THAT! (WTF)”

explain, educate,
help, support, joke,
show humility, no
arrogance, present
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move on

Apache Invitation

- Trust builds, volume of patches, contributions
- Private PMC Vote or PPMC + IPMC
- Invite, Accept
- Legals
- Commit access

What then.

- Commit what you like - No
- Nothing changes except your name appears on “svn blame” - Yes
- When the build breaks at the weekend... you feel like you should fix it - Yes

Apache Sling

Enterprise Content Management
Web app framework

The name "Sling" has been proposed by Roy Fielding who explained it like this:

[The name is] Biblical in nature. The story of David: the weapon he uses to slay the giant Goliath is a sling. Hence, our David's [David Nuescheler, CTO of Day Software] favorite weapon.



Sakai 3

Educational Content Management

50% Enterprise Content Management Use Cases

50% Educational Use Cases

everyone is an editor

groups

educational apps integration

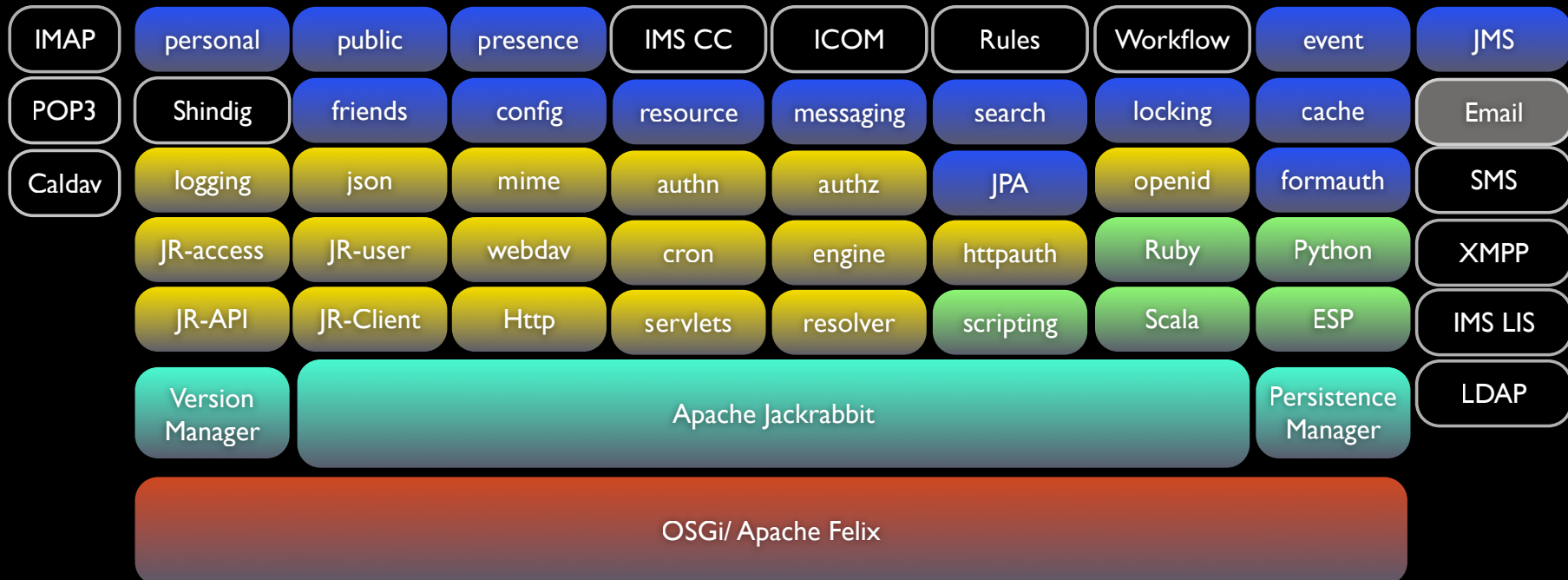
UI/UX

50% Sling

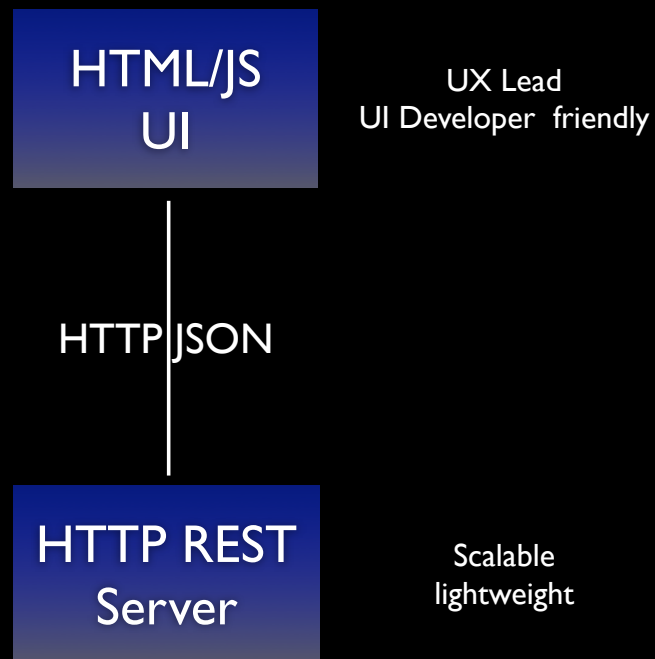
50% Sakai

Architecture

HTTP REST + JSON



Basic Architecture



App Development

UX Research

UX Design

UI
Development

Server
Development

UI Design

Screens designed as
wireframes with
interactions.

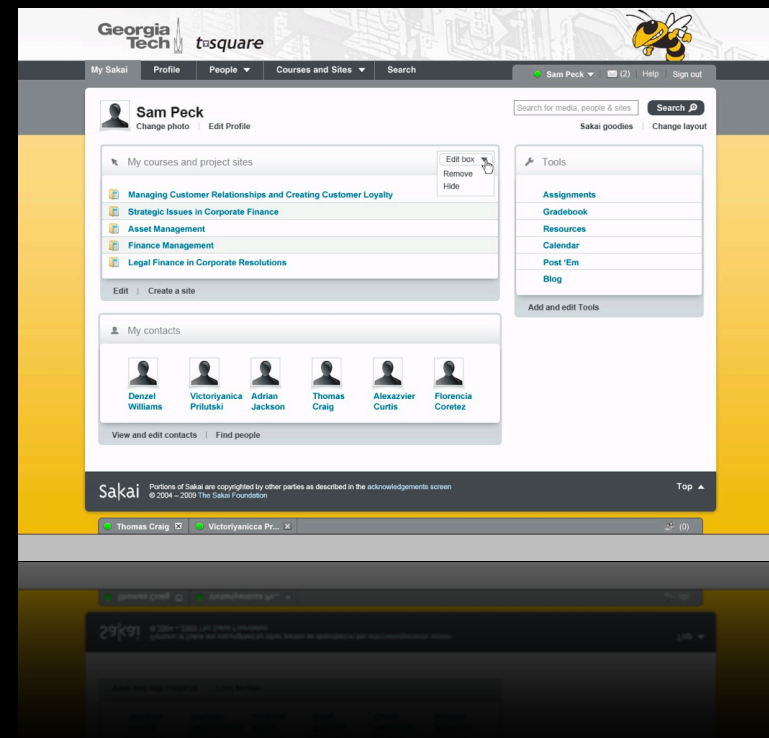
UX Designer, UI Designer

Implemented as HTML

UI Designer, UI Developer

Integrated into
framework

UI Designer, UI Developer



Driving REST API Specification