

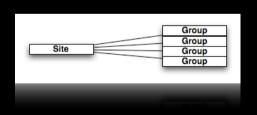
Ian Boston, University of Cambridge Carl Hall, GATech

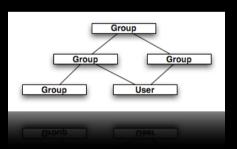
Motivation

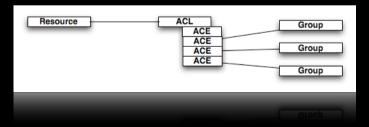
- Improve usability
- Simplify code base
- Improve quality
- Reduce resource usage
- Improve scalability
- Improve resilience

Usability

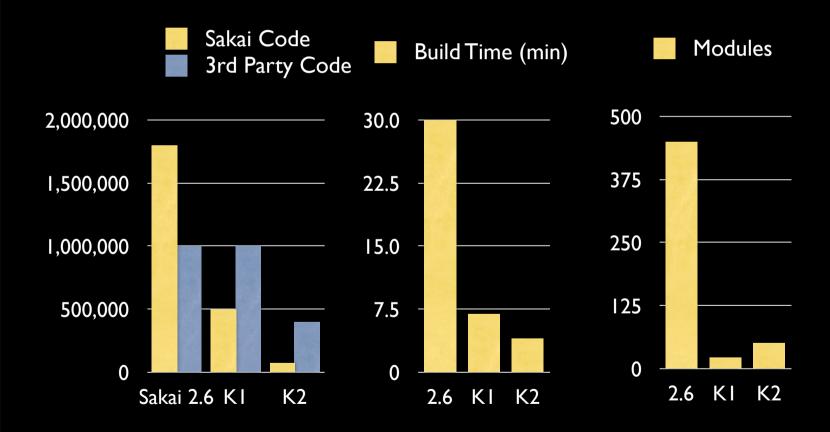
- No silos
- Permissions separate from membership
- Content everywhere





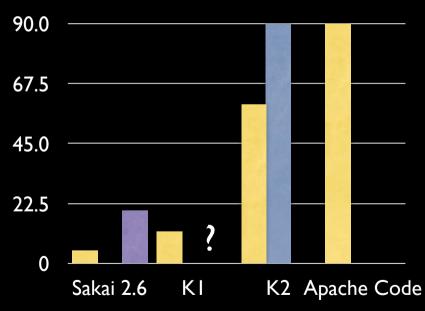


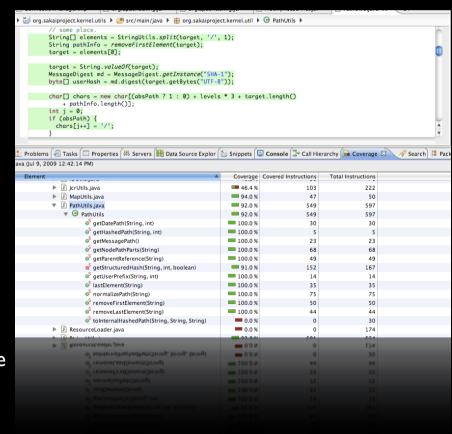
Code base



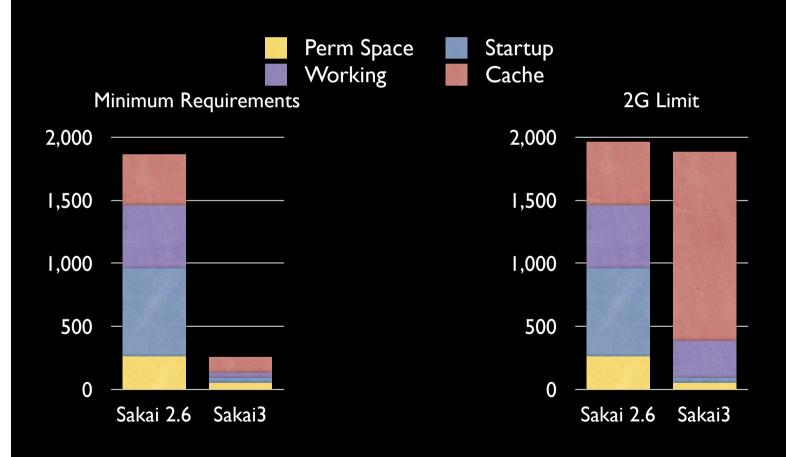
Code Coverage

- Unit Test Coverage
- Automated Test Coverage
- Manual Test





Resource Usage



Scaleability

- Almost no session usage (REST)
 - sessions clusterable
- Sharded Storage size assumptions
 - 255, 65K, I6M, 4E9
 - users, groups, messages, connections

Resilience

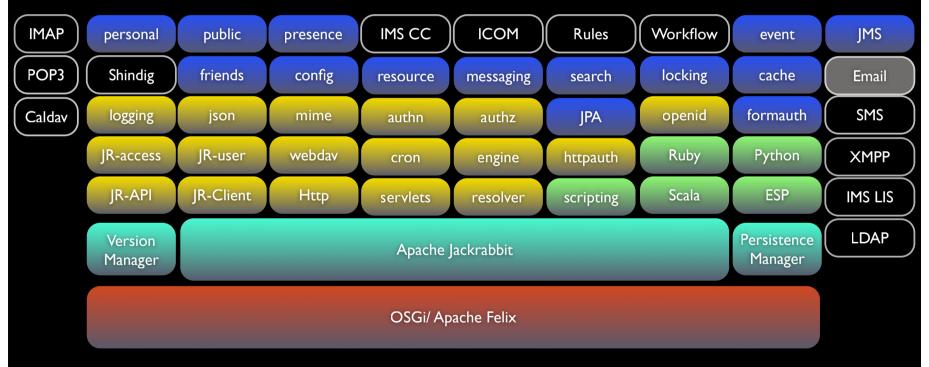


No UI

- K2 provides No UI
- K2 provides data feeds to support a UI
 - REST over HTTP
- UI/UX is part of the UX project
 - HTML/JS/CSS+JSON

Architecture

HTTP REST + JSON













Message Store

```
Box

Type

chat

inbox

email

outbox

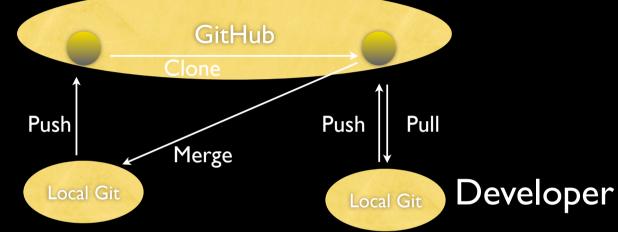
folders

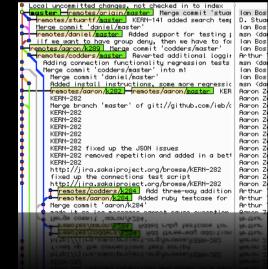
post
```

```
/_user/message[ sling:resourceType = sakai/messagestore ]
   /_group/message
   /physics/week34/messages
```

Development







Added in JVM Lock manager and JCRService su | Ian Boston <iebRtfd.co.uk> Correct stray unix command in code. Added SessionManager Service API.
Added Filters into the app-bundle. Added the Sakai Filter to manage Transactio | Ian Boston <ieb@tfd.co.uk> Merge commit 'daniel/master Modifications needed to have the sustem stalmsn <daniel@caret.cam.ac.uk Adjusted the paths. Fixed startup of the JAXRS servlet that was u Moved the JAXRS bundle to a Dynamic Serivice. Bmoved UXLoader as its functionality is replice nmoves unloader as its functionality is replic | Ian Boston (lebbtfd.co.uk) Fixed the readme, now that boot deligation is | Ian Boston (lebbtfd.co.uk) Resolved all (hopefully) the issues with depen | Ian Boston (lebbtfd.co.uk) Herge commit 'stuartf/master' | Ian Boston (lebbtfd.co.uk) make annotation available at runtime Added JSR-311 support from Opencast, will proba Added Jetty configuration to avoid an extender. Added FsReource Bundle in so that we can map fi Added Ruby and Python support to the scripting JPA now working. Switch JSR173 implementation to one that doesn! Added repackaging of the EclipseLink bundles to Restructured the startup to ensure that the Persis Removed the static factories that I think are caus | Ian Boston (ieb@tfd.co.uk)

2009-04-16 12:54:41 Ian Boston (ieb@tfd.co.uk) lan Boston (ieb@tfd.co.uk) 2009-04-16 00:50:17 Ian Boston (ieb@tfd.co.uk) 2009-04-16 08:09:29 Ian Boston (ieb@tfd.co.uk) 2009-04-16 07:48:47 Ian Boston (ieb@tfd.co.uk) Ian Boston (jeb@tfd.co.uk) 2009-04-16 05:10:27 2009-04-16 02:11:37 2009-04-15 08:12:57 Ian Boston (ieb@tfd.co.uk) Ian Boston (jeb@tfd.co.uk) 2009-04-14 19:45:00 2009-04-14 19:39:33 2009-04-14 12:41:08 2009-04-14 12:22:36 D. Stuart Freeman (stuart, | Ian Boston <ieb@tfd.co.uk | Ian Boston <ieb@tfd.co.uk 2009-04-14 12:39:16 2009-04-14 12:10:44 Ian Boston (ieb@tfd.co.uk) 2009-04-14 09:50:09 Ian Boston (ieb@tfd.co.uk) 2009-04-14 08:44:02 Ian Boston Kieb@tfd.co.uki 2000-04-14 09:24:14 Ian Boston (ieb@tfd.co.uk) Ian Boston (ieb@tfd.co.uk)
Ian Boston (ieb@tfd.co.uk) 2009-04-13 20:41:38 2009-04-12 03:33:05

Committer Team

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- Nicolaas Matthijs (UCam) (UI Requirements)

- Paul Bristow (CSU)
- Anthony Whyte (UMich)
- Aaron Zeckoski (UCam)
- Thomas Amsler (UCD)
- Tony Stephenson (UCam) (DOCS)
- Ian Boston (UCam)

Next

- Join the documentation team. (User Requirement, Manuals)
- Clone, branch, contribute back.
- Questions.