



Sakai K2

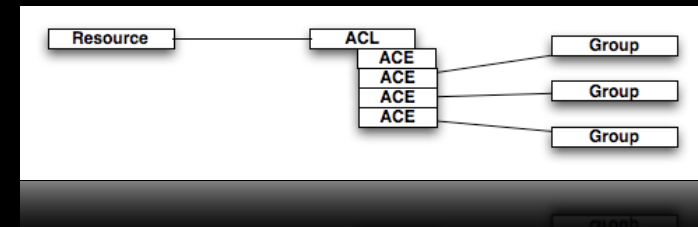
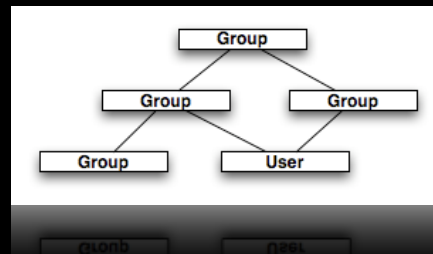
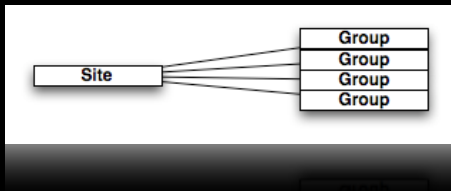
Ian Boston, University of Cambridge
Carl Hall, GATech

Motivation

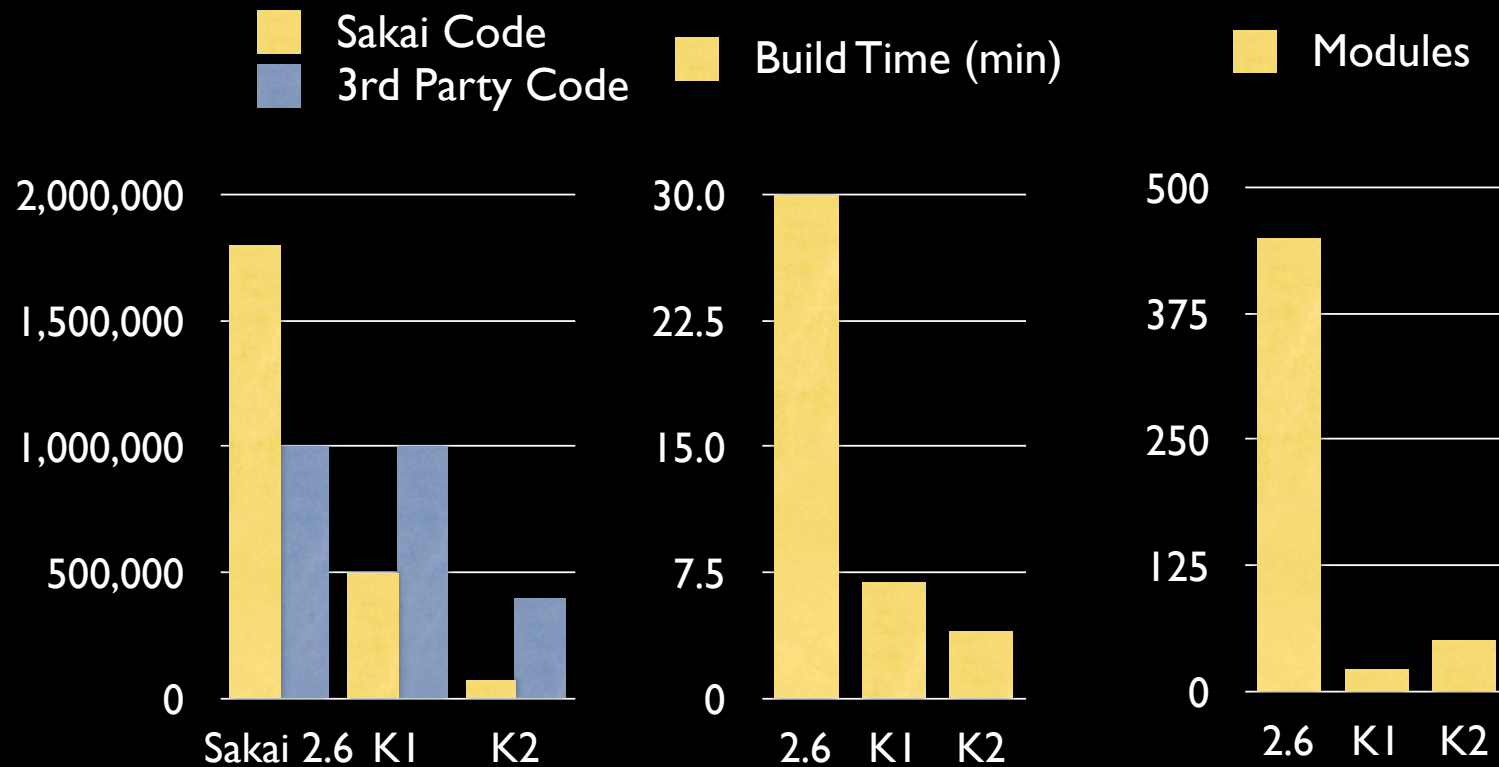
- Improve usability
- Simplify code base
- Improve quality
- Reduce resource usage
- Improve scalability
- Improve resilience

Usability

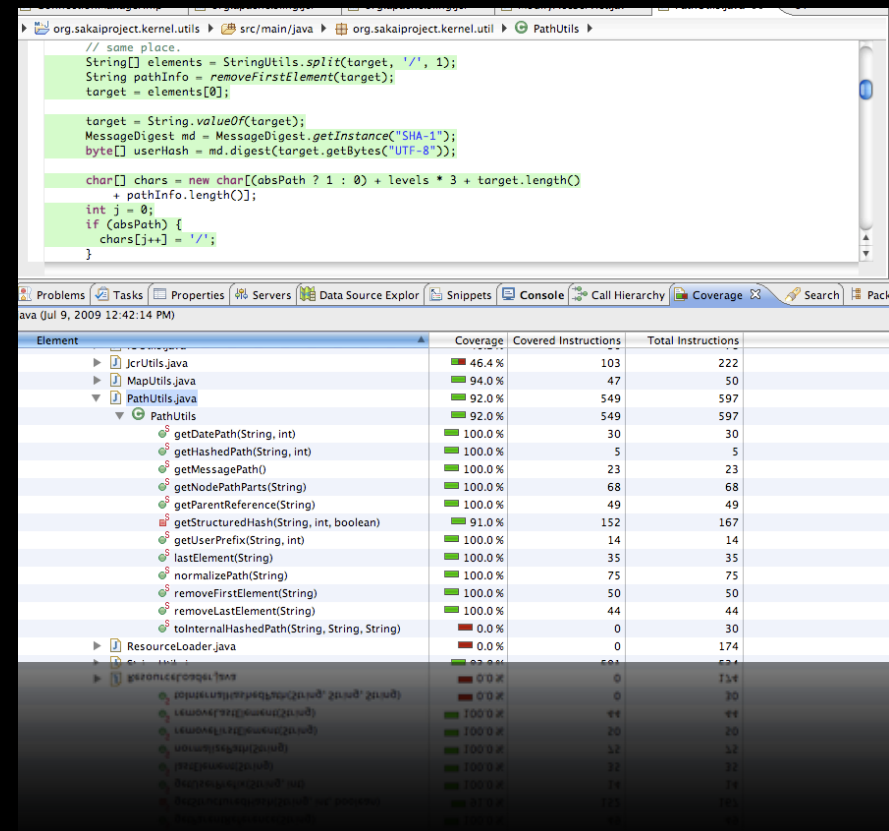
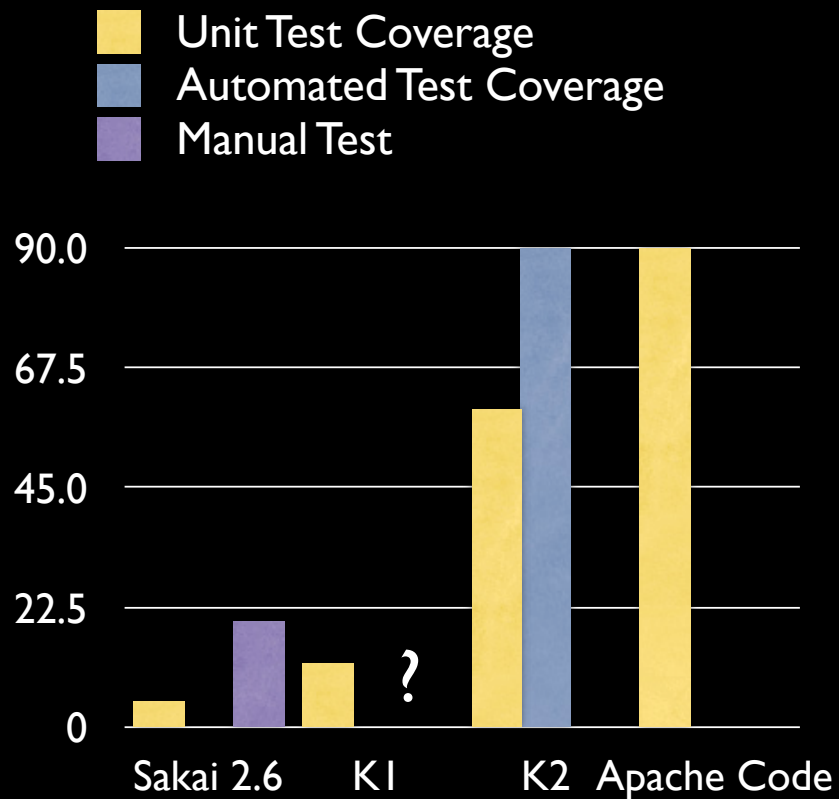
- No silos
- Permissions separate from membership
- Content everywhere



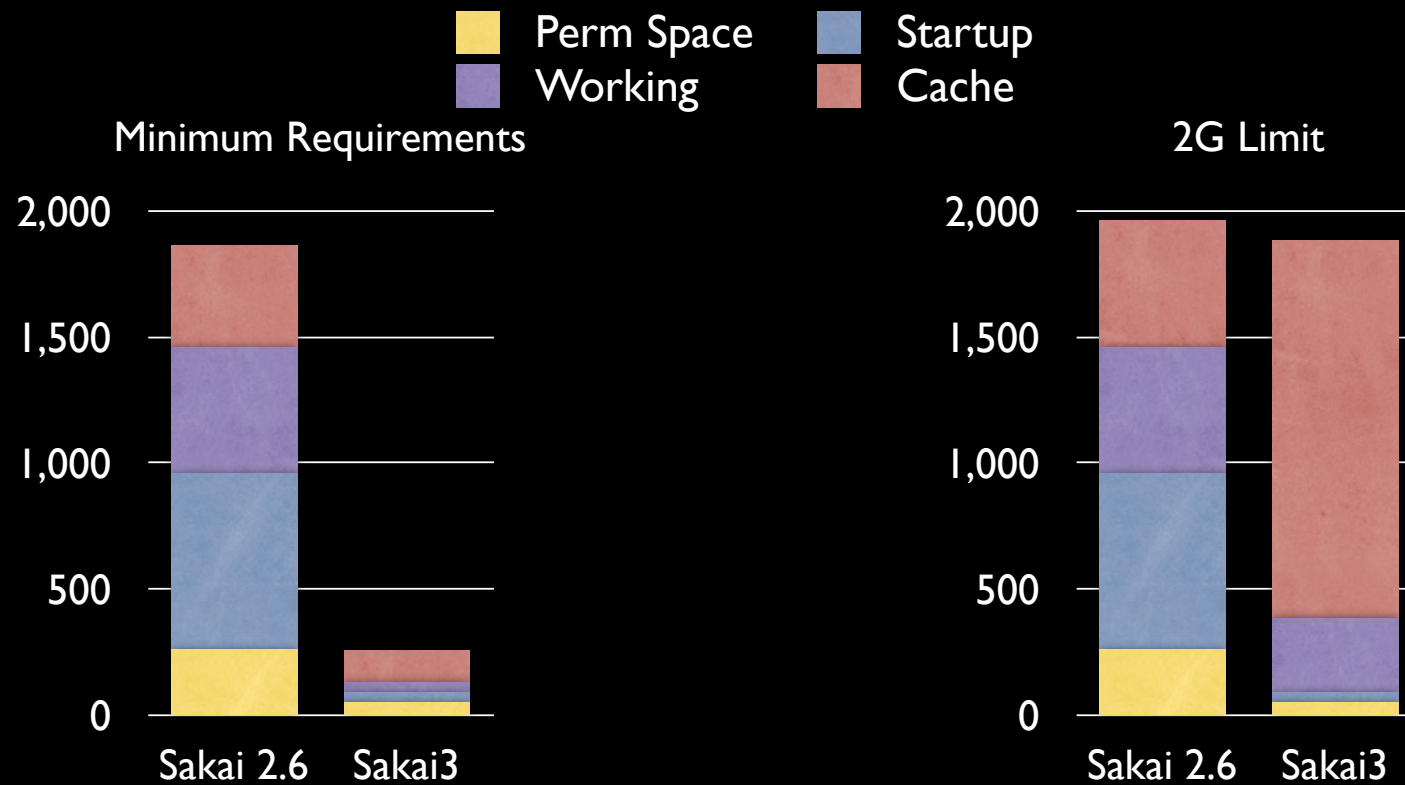
Code base



Code Coverage



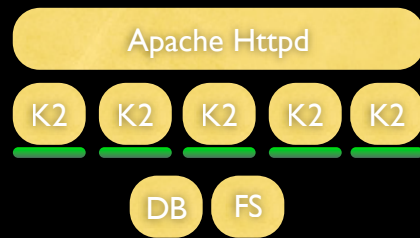
Resource Usage



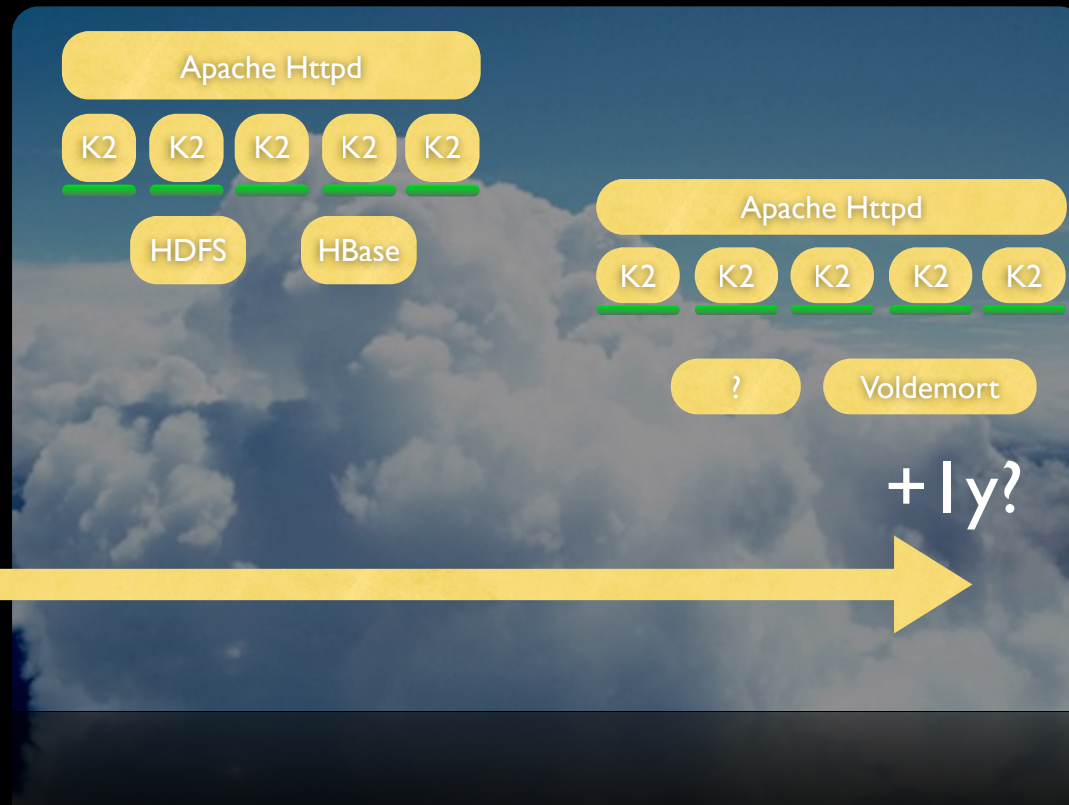
Scaleability

- Almost no session usage (REST)
 - sessions clusterable
- Sharded Storage size assumptions
 - 255, 65K, 16M, 4E9
 - users, groups, messages, connections

Resilience



Now



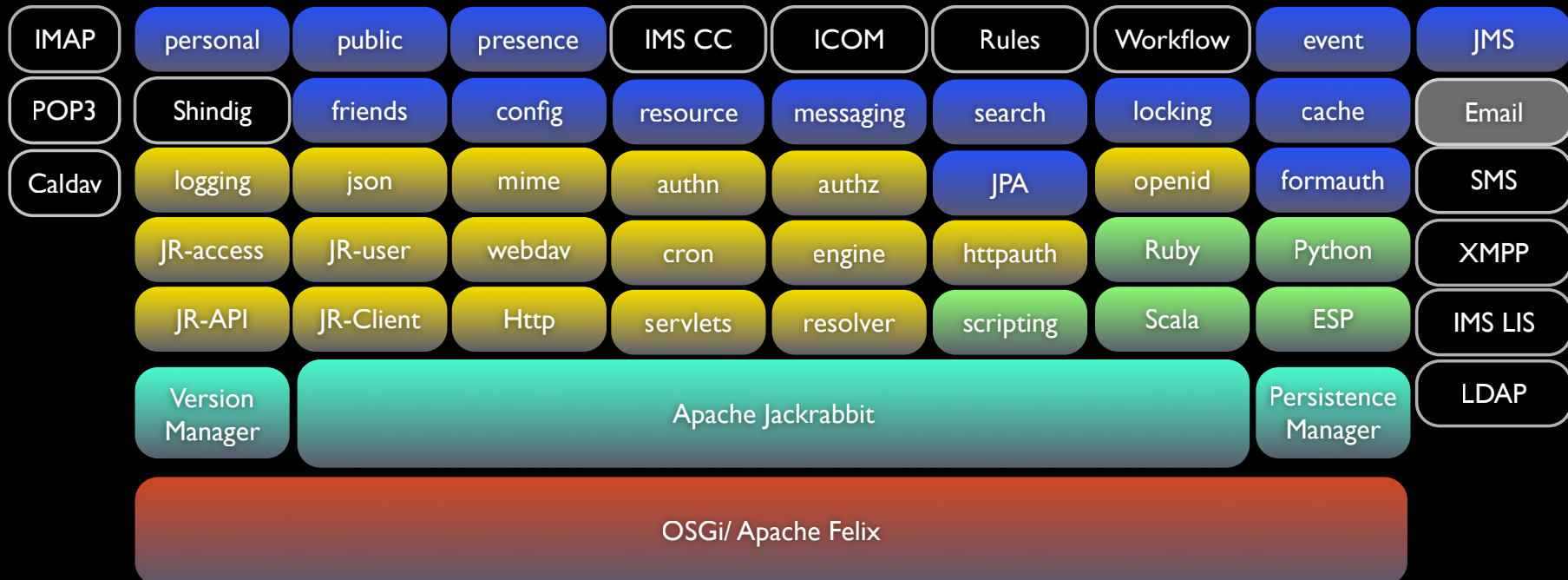
+1y?

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

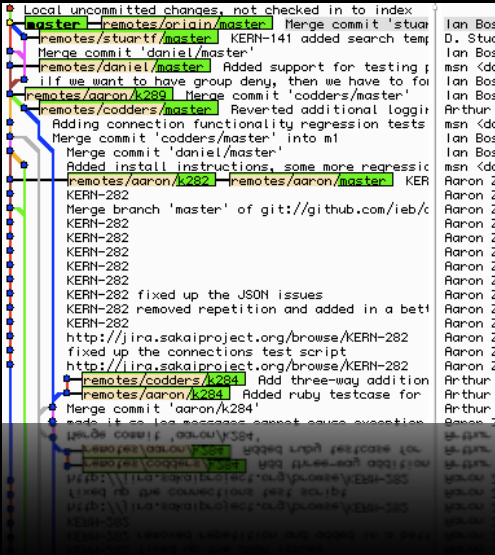


Message Store

Box	Type
inbox	chat
outbox	email
folders	announce
	post

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

Development



Committer Team

- Daniel Parry (UCam) (QA)
- Carl Hall (GATech)
- Jon Gorrone (UCD)
- Stuart Freeman (GATech)
- Arthur Taylor (UCam)
- 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.