

Working in and with the Apache Software Foundation

Meet the Communities, Luxembourg, 12.6.2008

Bertrand Delacrétaz, ASF member and board member

Senior developer, Day Software, www.day.com

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

Find the slides at <http://www.slideshare.net/bdelacretaz>

slides revision: 2008-06-10

Let's talk about...

The ASF structure.

How Day works with the ASF.

How the ASF works with Day.

ECM? Sling, Jackrabbit.

Why me?

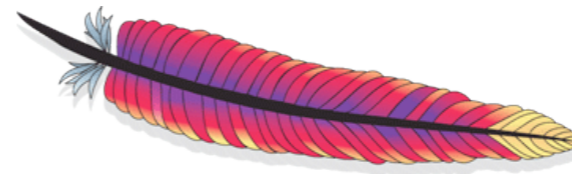
ASF member and (since last week) board member - though not officially representing the ASF today. 

Day hired be based on my ASF activities.

Not a marketing/business strategy person.

I speak french ;-)

The ASF in 2008



65 projects (+ incubator)

1765 committers

close to 300 members

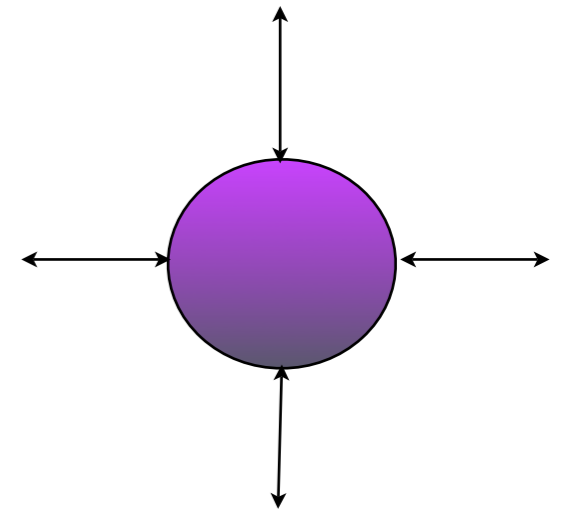
3 TB/day www traffic

Tens of releases every year

No offices

almost no f2f meetings

all decisions on mailing lists



The ASF backbone?



revision control system



blogs



IRC



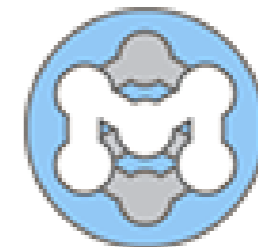
mailing lists + archives



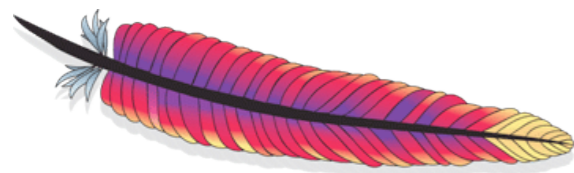
issue tracker



Instant messaging



Wikis

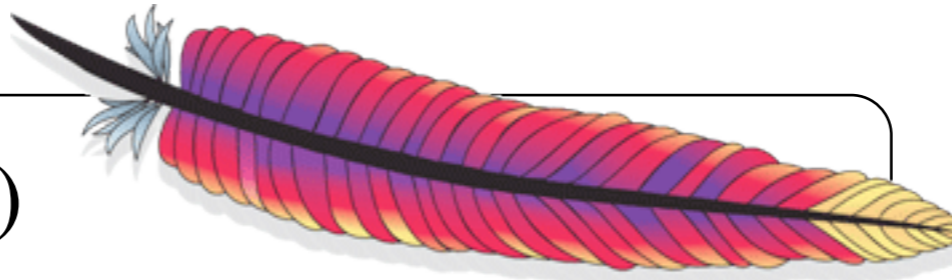


httpd (of course)

logos: Adium, Roller, Colloquy, MoinMoin

Collaboration

ASF structure



Contributors (thousands)

Committers (~2000)

PMC members
(~500?)

ASF members
(~300)

Board of
directors (9)

Public Relations
committee

Legal
advisors

Hired
personnel (3)

Sponsors

Collaboration

but how?

Collaboration



Without a vision...

Collaboration



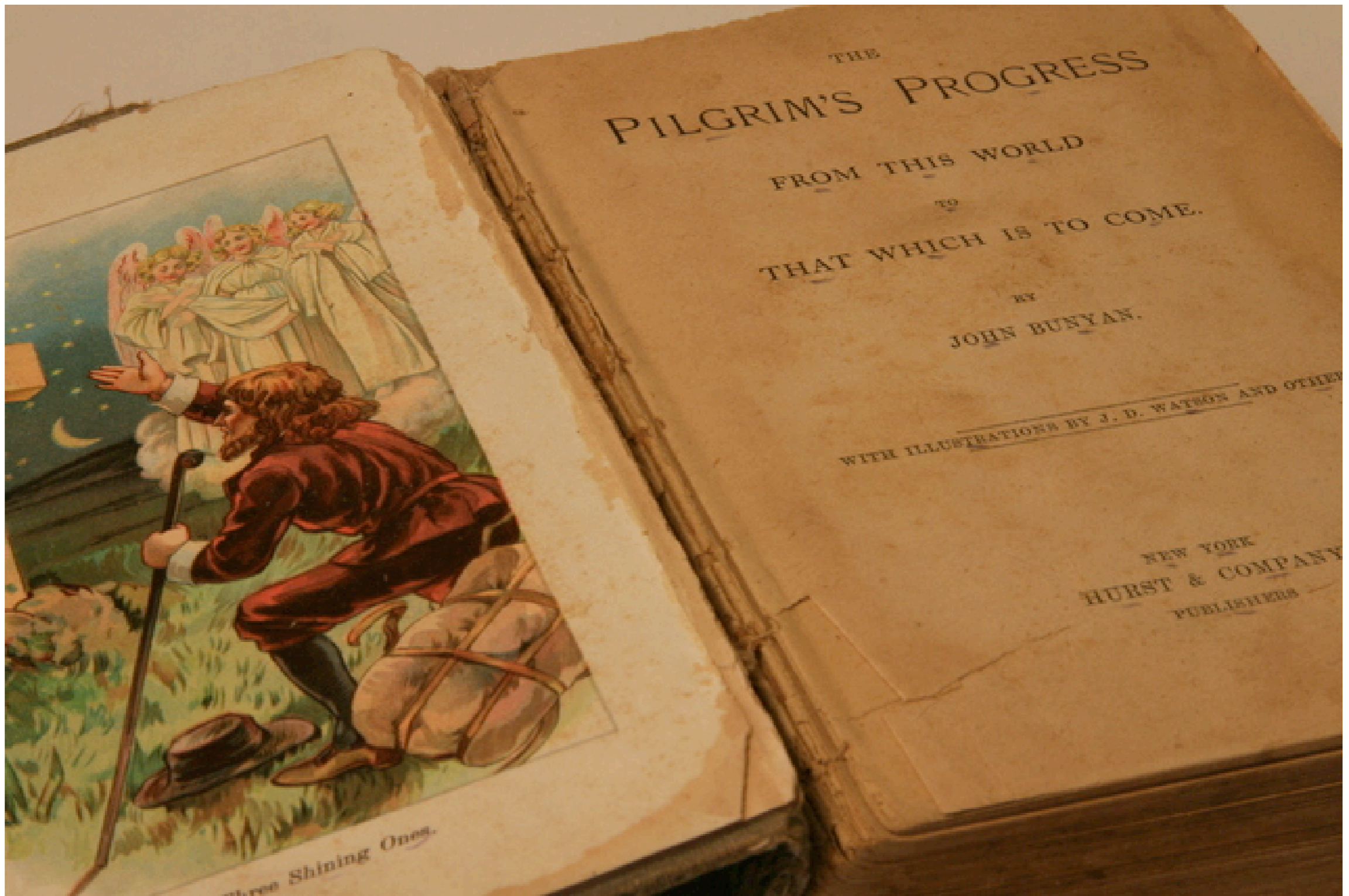
What's our status right now?

Collaboration



Where can I help?

Collaboration



Why did we do this?

Collaboration



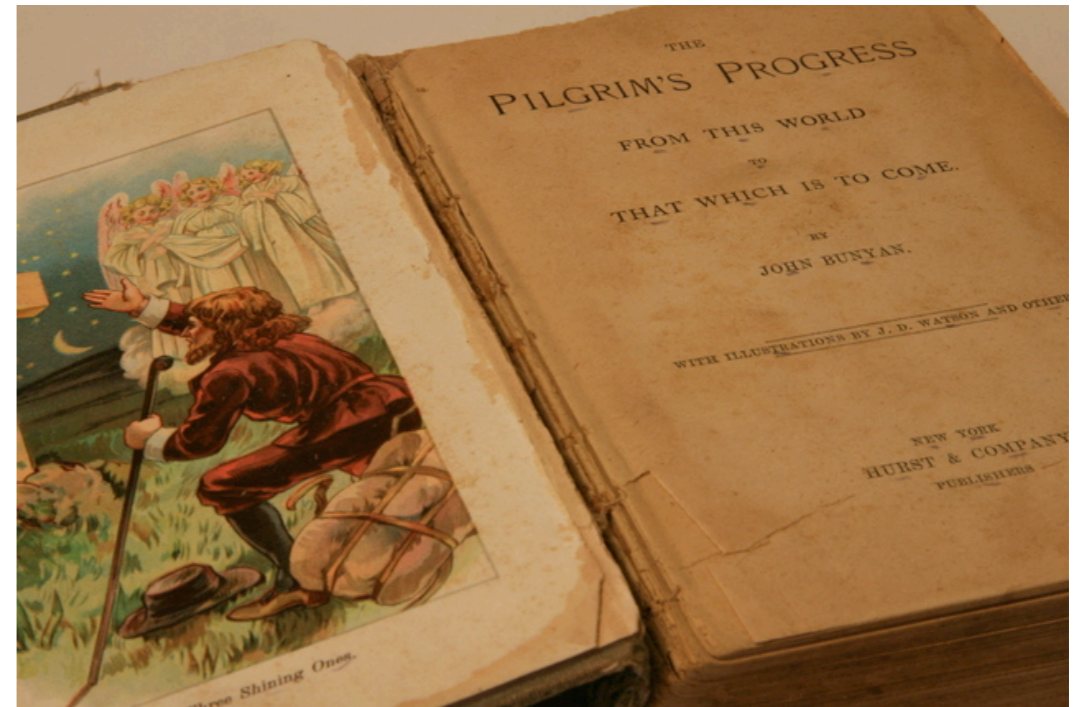
Shared vision



Real-time updates



Real-time help requests

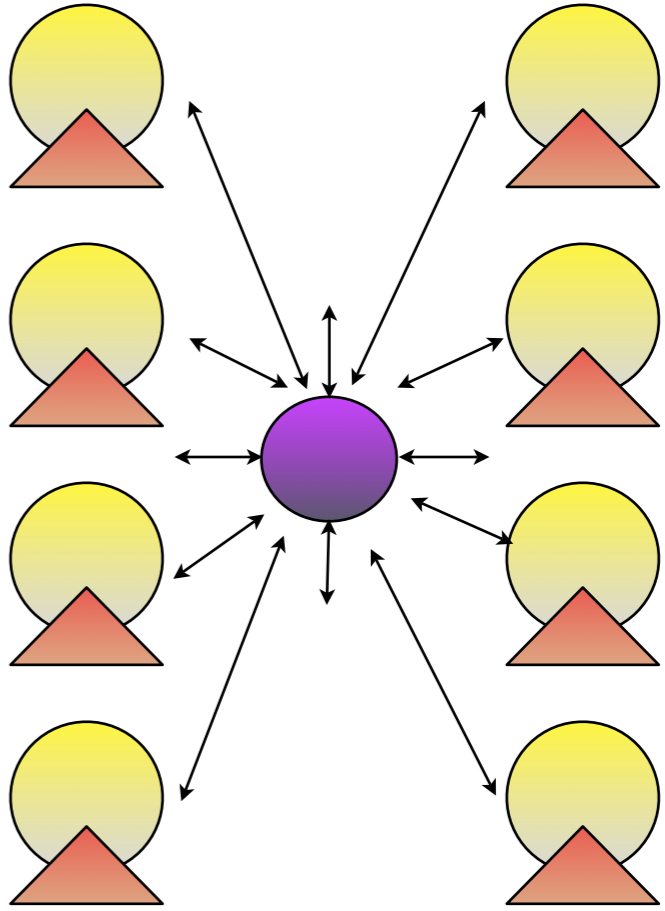
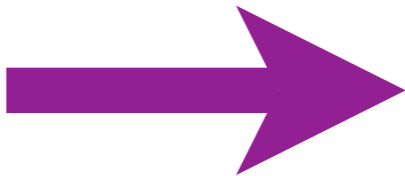
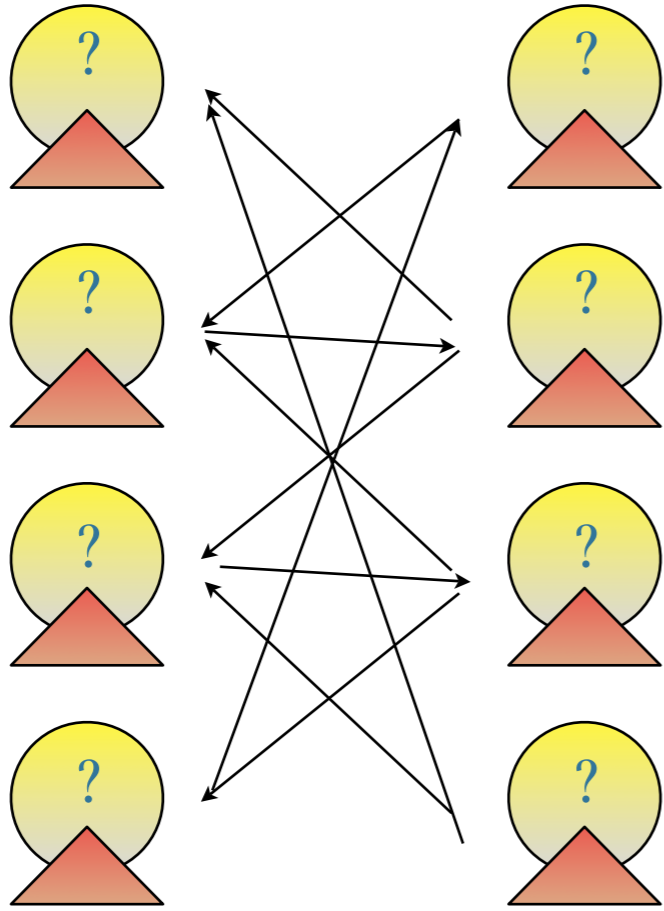


Self-service archives



Sharing the Vision

Sharing the vision?



Mess Media?
oral tradition?

Central Hub
permanent record

Sharing the vision.

verba volant, scripta manent...



Searchable mailing lists
instead of 1-to-1 email



Wikis

Wikis instead of email
attachments



blogs

Blogs help for out-of-
band conversations

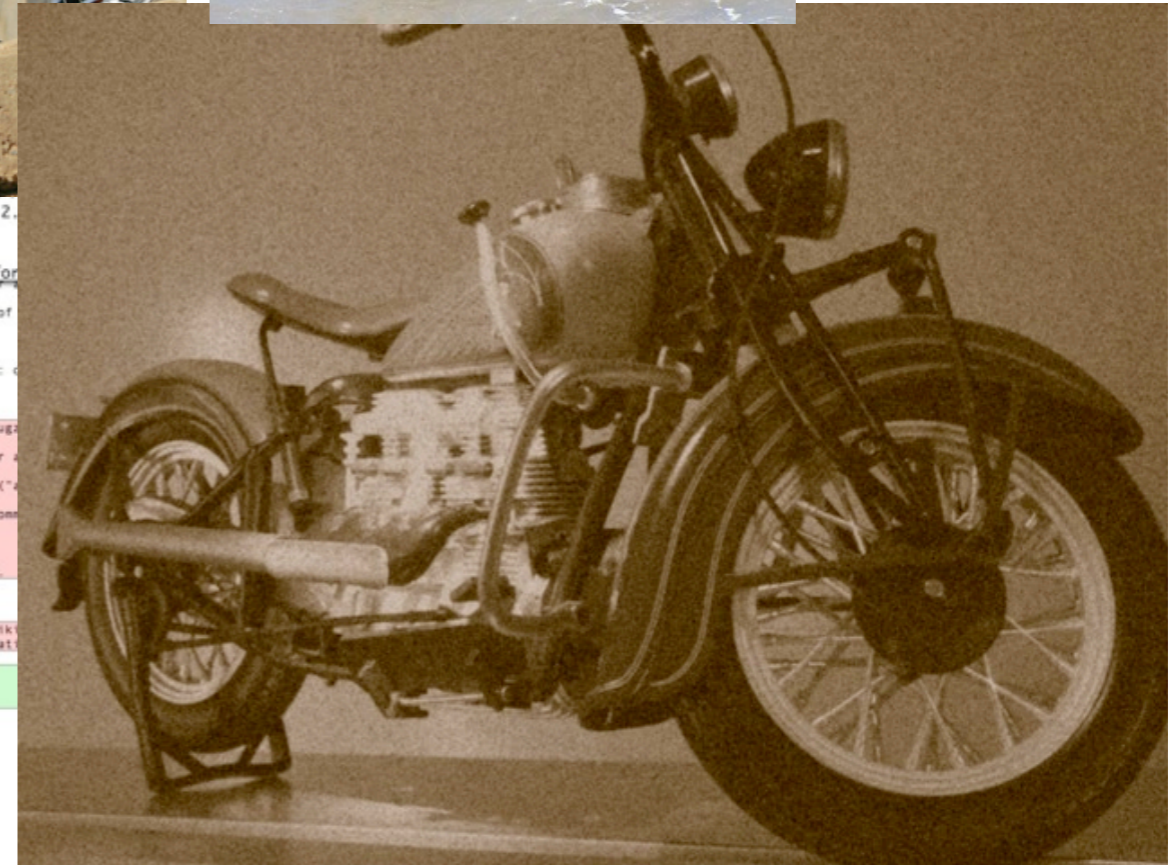


Real-time updates

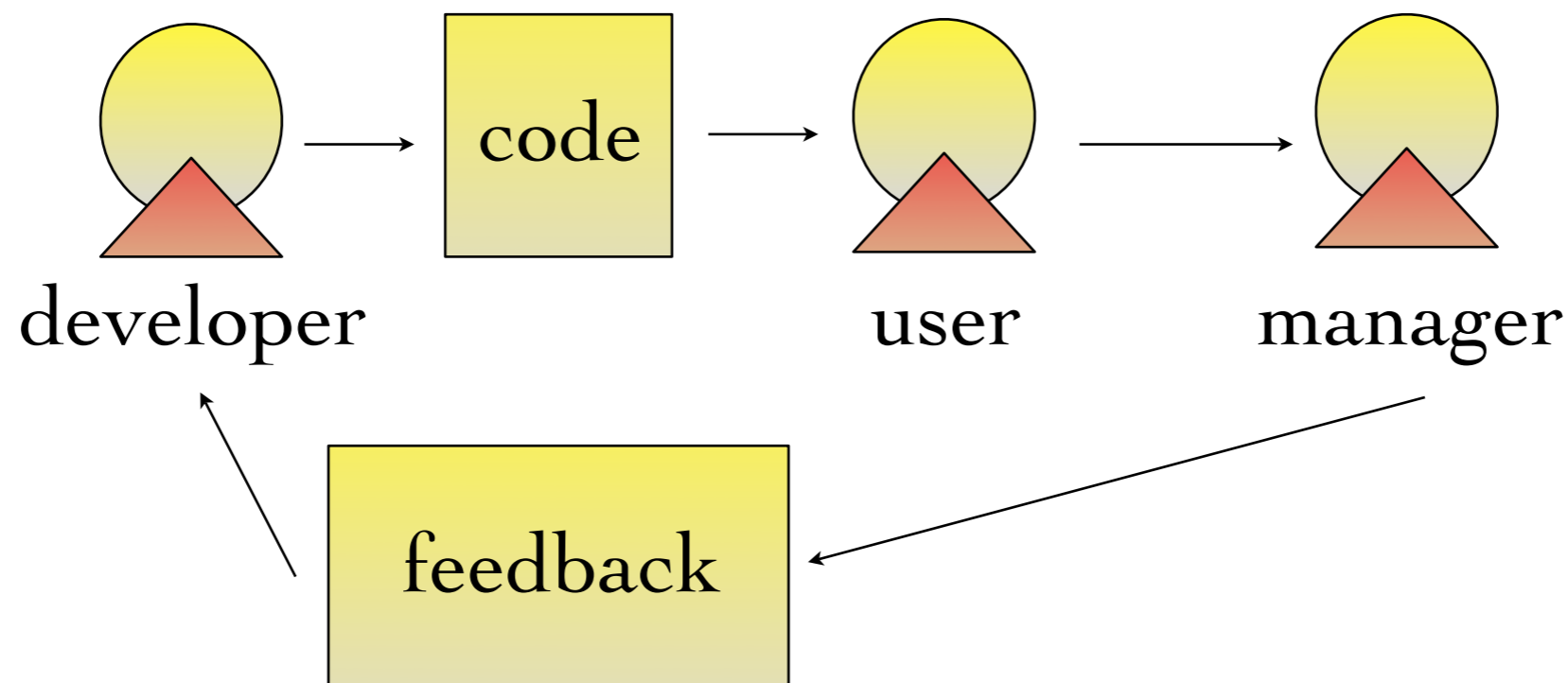
We need fast feedback!



```
Working file: status.xml 1.155 (antonio 25-Sep-03): Update lib commons-lang to 2.
head: 1.158 1.154 (antonio 25-Sep-03): </action>
----- 1.151 (sylvain 24-Sep-03): <action dev="SW" type="add">
revision 1.158 1.151 (sylvain 24-Sep-03): New event-handling system for
date: 2003/09/28 05:01:05; author: a
Update status.xml
-----
revision 1.157
date: 2003/09/26 14:46:23; author: b
YAPT presentation tool sample added
-----
revision 1.156
date: 2003/09/25 16:57:44; author: c
<action dev="CZ" type="add" fixes-
services.com">
Fixing release of Source in the
-----
slide: Part One: Tools 46 49
-int-style: LittleText 47 50 note: User view of
48 51
49 52 slide: CVS
- quick refresher about CVS. 50 53
date: User view of these toc 51 54 TODD screenshots: c
slide: CVS 52 55
53 56 slide: Bugzilla
54 57
55 58 img_rightHalf: bugz
56 59
57 60 Structured author a
58 61
59 62 Simple workflow ("
60 63
61 64 Task history ("com
62 65
63 66 Attachments
64 67
65 68 Powerful queries.
66 69
67 70 slide: Wiki
68 71
72 72 img_rightHalf: wiki
70 73 Easy content creat
71 74
72 75 Easy linking.
73 76
74 77 Fully open.
75 78
```

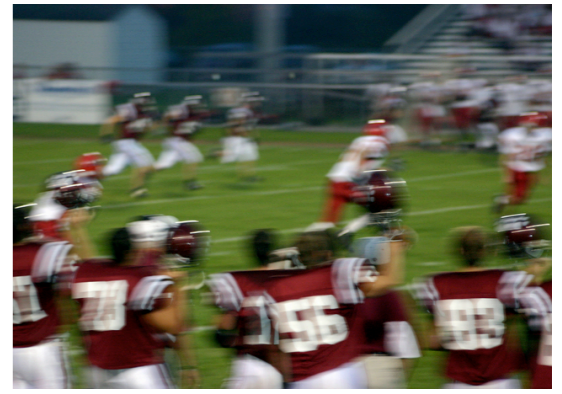


Feedback loop

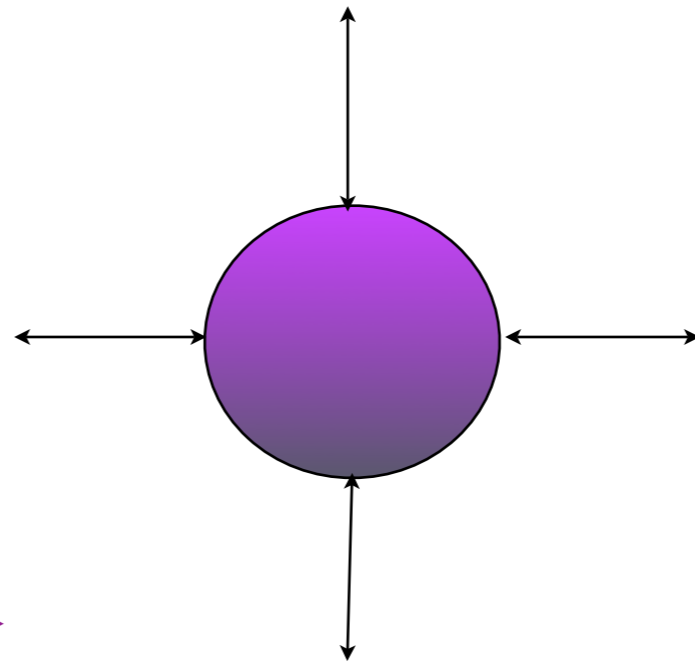


How fast is your loop?
Seconds? Weeks?

Real-time updates?



code →
tests →
bugs →
decisions →



subscriptions
email events →
RSS feeds →

Collaboration hub!

Real-time updates



Source code control system instead of “code on the fileserver”.



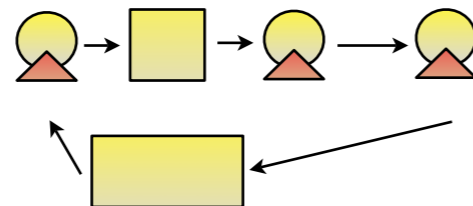
Issue tracker events instead of “what did you do today”?



Mailing list “events” instead of “yell around the office”.



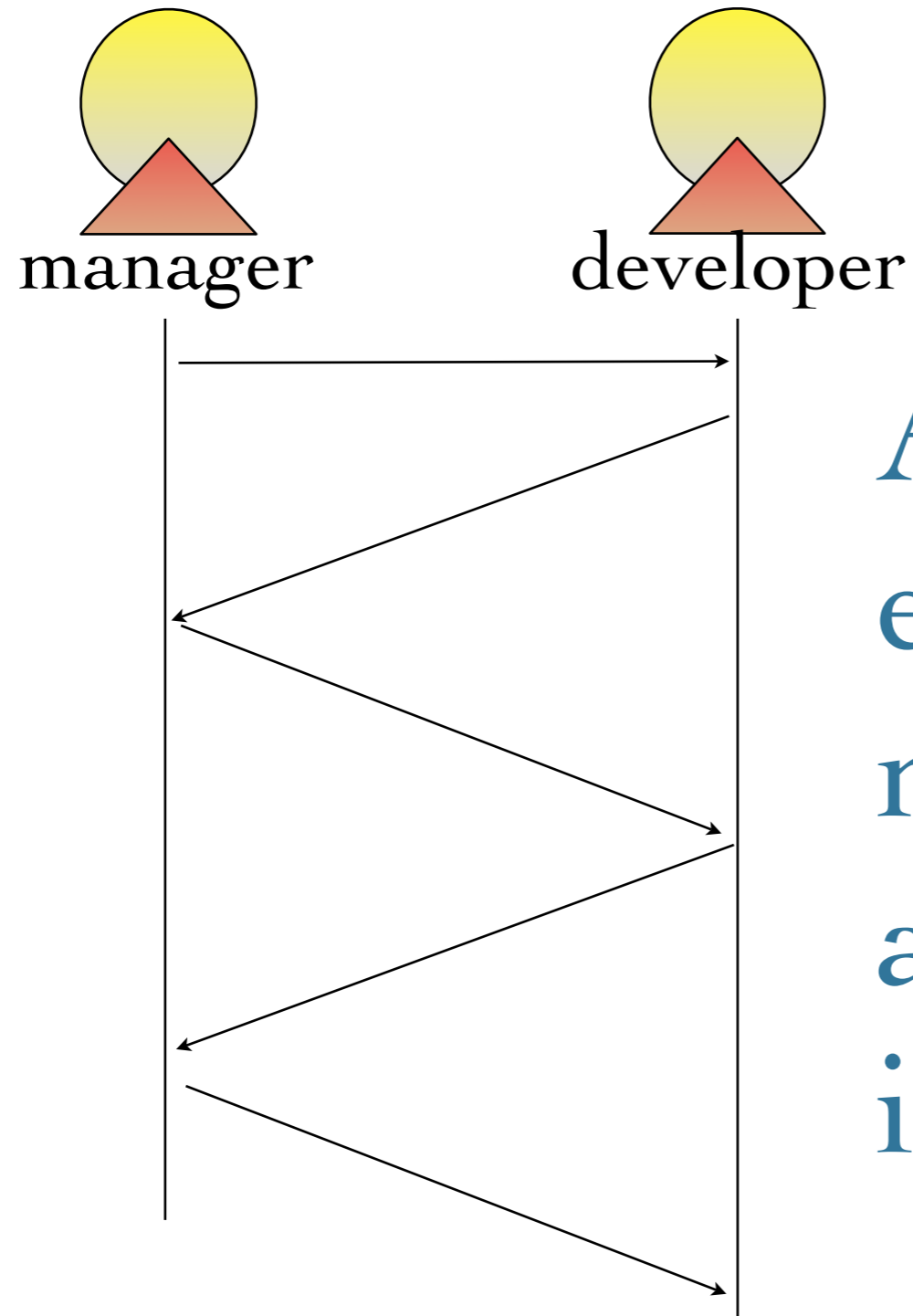
Automated builds instead of “wait for Bob to build it on Linux”.





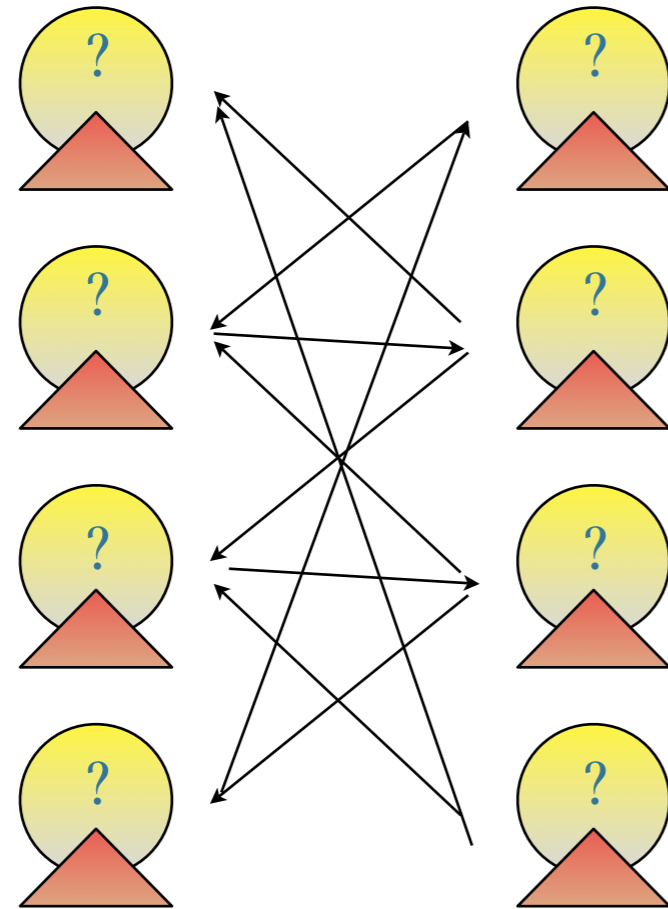
Real-time help requests

Real-time help requests?



A help (feature, enhancement) request is a dialog, and history is important.

Real-time help requests



Mess Media?

Issue Navigator

Displaying issues 1 to 50 of 51 matching issues.

Current View:

Browser ([Current Fields](#) | [Printable](#) | [Full Content](#)) | [XML](#) | [RSS](#) ([Issues](#) | [Comments](#)) | [Word](#) | [Excel](#) ([All fields](#) | [Current fields](#)) | [Charts](#)

Bulk Change: [all 51 issue fields](#) | [Configure](#) your Issue Nav

1 | 2 | [Next >>](#)

T	Key	Summary	Assignee	Reporter	Pr	Status	Res
	SLING-7	Implement better Node Type Management	Unassigned	Felix Meschberger		Open	UNRESOLVED
	SLING-3	Use RequestProgressTracker to log request processing steps	Unassigned	Felix Meschberger		Open	UNRESOLVED
	SLING-53	Add request filter for method overwrite	Unassigned	Felix Meschberger		Open	UNRESOLVED
	SLING-77	Provide an easy-to-use Javascript API for JCR	Unassigned	Lars Trierloff		Open	UNRESOLVED
	SLING-147	Add support for org.osgi.framework.system.packages enhancement	Unassigned	Felix Meschberger		Open	UNRESOLVED
	SLING-158	JSTL Bundle	Unassigned	Carsten Ziegeler		Open	UNRESOLVED
	SLING-168	JavaScript: Enable request processing limitation	Unassigned	Felix Meschberger		Open	UNRESOLVED
	SLING-160	Group bundles by symbolic name rather than by bundle id.	Unassigned	Tobias Bocanegra		Open	UNRESOLVED
	SLING-190	The Sling class of the launcher should verify minimum JDK requirement and fail properly	Felix Meschberger	Felix Meschberger		Open	UNRESOLVED
	SLING-196	allow custom handlers in repository loader	Unassigned	Tobias Bocanegra		Open	UNRESOLVED
	SLING-199	Implement Request Filter management in the virtual resource tree	Unassigned	Felix Meschberger		Open	UNRESOLVED
	SLING-247	Provide Scripting variables as request attributes for JSP	Unassigned	Felix Meschberger		Open	UNRESOLVED
	SLING-245	After reinstalling sling core, server shutdown hangs	Unassigned	Tobias Bocanegra		Open	UNRESOLVED
	SLING-81	SLING-77 Add write-support to Javascript API for JCR	Unassigned	Lars Trierloff		Open	UNRESOLVED
	SLING-249	Allow mapping nodes to internet domains	Unassigned	Vidar S. Ramdal		Open	UNRESOLVED
	SLING-251	Add mapping for user homes	Unassigned	Tobias Bocanegra		Open	UNRESOLVED
	SLING-266	Replace old JSON content import by new importer	Unassigned	Felix Meschberger		Open	UNRESOLVED
	SLING-284	Use bundle context of scripts for service locator aka sling script helper	Unassigned	Carsten Ziegeler		Open	UNRESOLVED

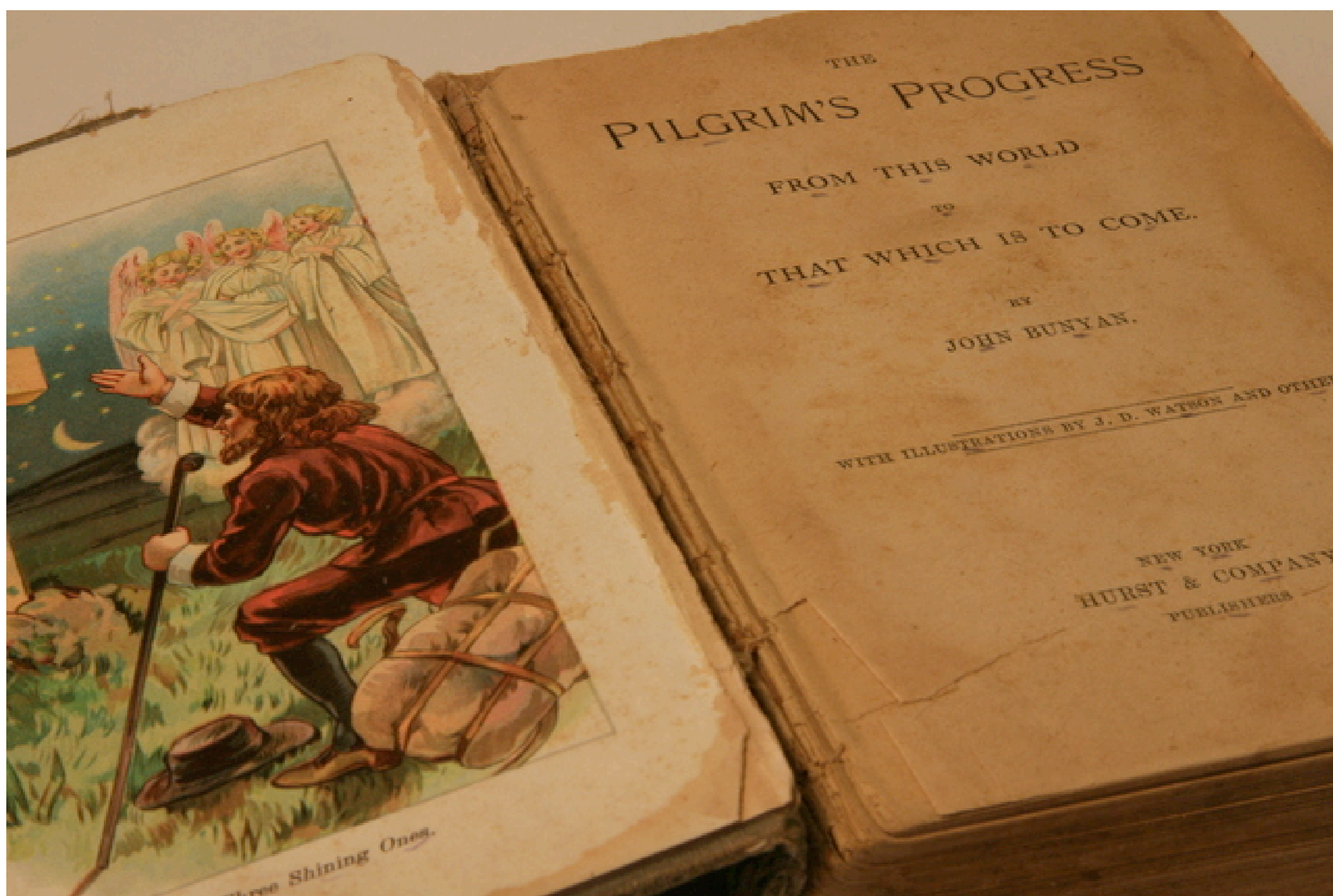
Issue Tracking

Real-time help requests



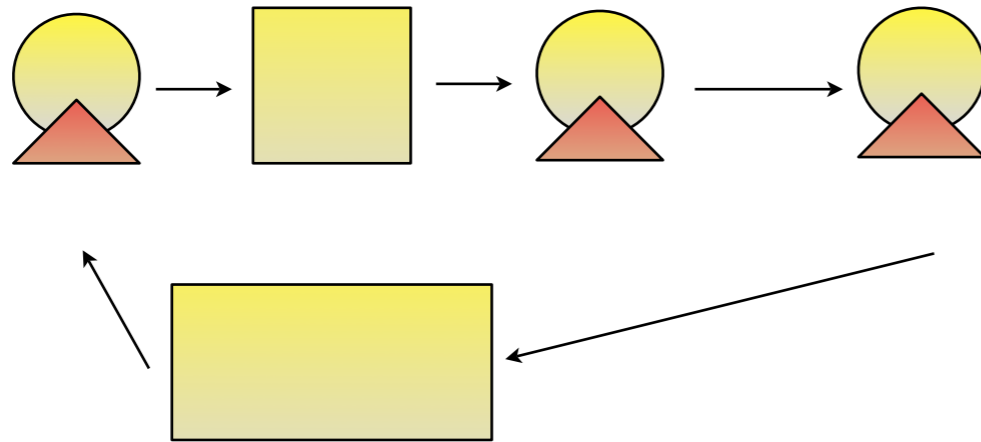
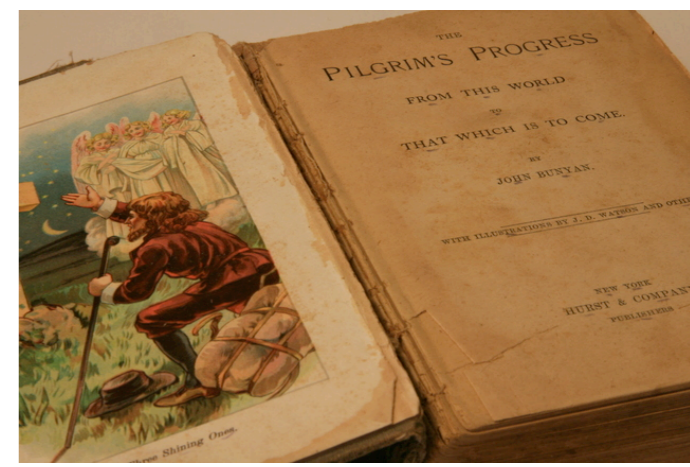
issue tracker

Issue tracker instead of
“just ask Bob to fix
this”.



Self-service archives

Self-service archives?

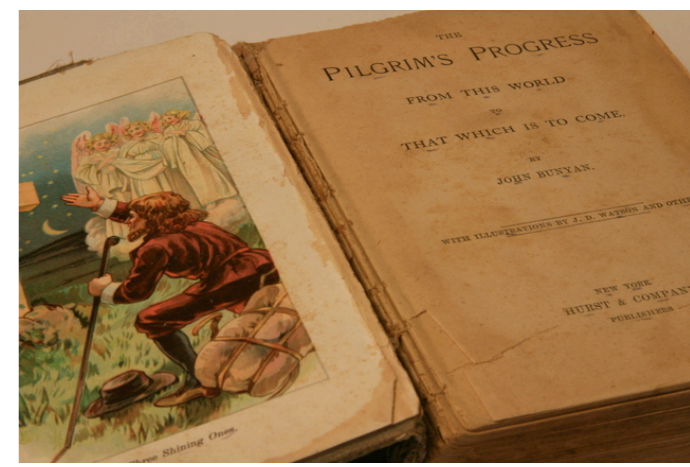


No time to document everything that happens.

But new project members need the information, self-service.



Self-service archives



Subversion logs, traceability of code.



Structured and searchable issue tracker data.



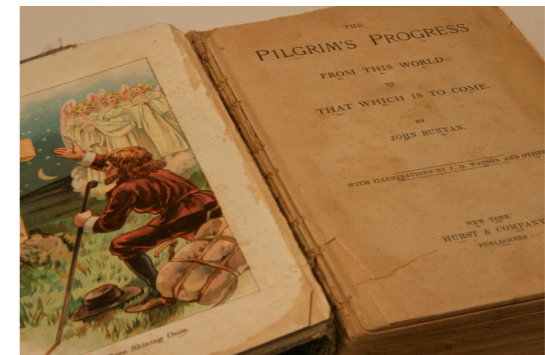
Semi-structured and searchable mailing lists.



Blogs and Wikis stay around.

Zero effort if using the rights tools!

Are We There Yet?



Collaboration



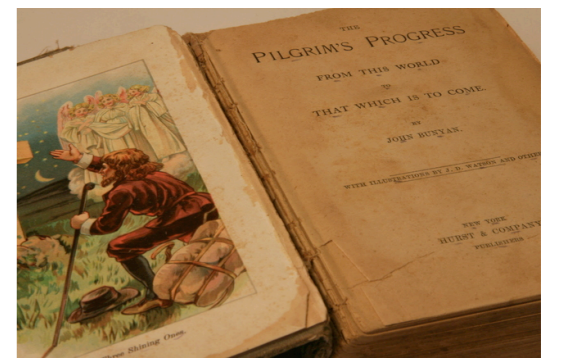
Vision



Updates



Help



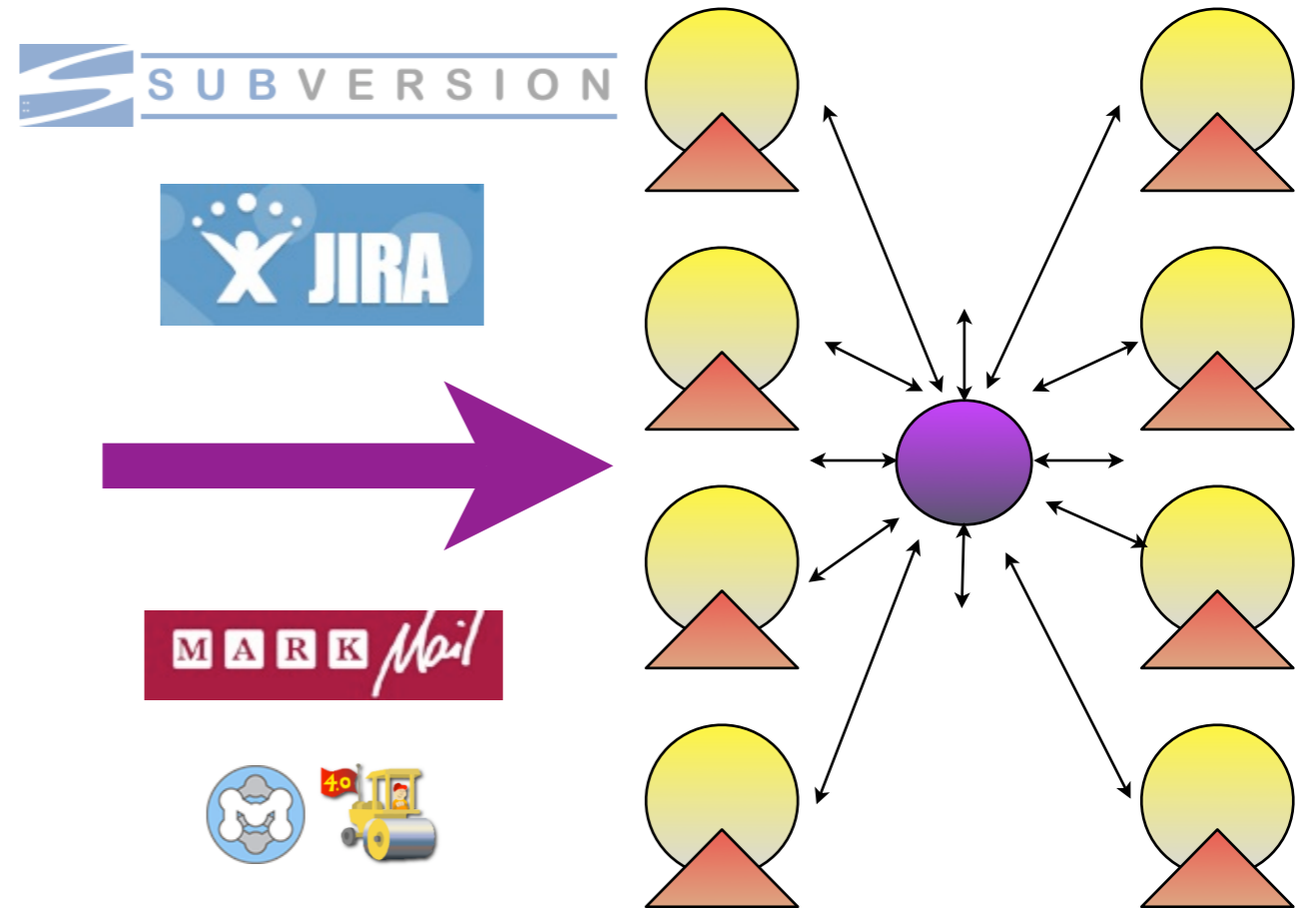
Archives



Extra tools:



Migration path?



Will your team buy it?

Why would you work with the ASF?

Collaboration

Learn
Practice
Integrate

Day and the ASF



Apache **Jackrabbit**

alexkli, angela, dpfister, fielding [1], fmeschbe, jukka, mreutegg, ppiegaze, stefan, tripod, uncled

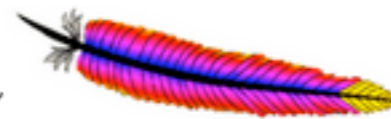
● Day™



bdelacretaz [2], cziegeler, fmeschbe



Apache Tika



Committers, PMC members and mentors on these projects, and others

[1] httpd project and Apache Group cofounder

[2] member of the Board of directors

What does Day get out of this?



Great infrastructure software.
Many eyeballs.



Industry recognition (+ JSR-170)



Credibility with world-class people.



The Open Source way of working.
Works inside the company as well.



Contacts. Networks. Ideas.

Conclusions...

it's all about

Collaboration

and being

Open

as opposed to being

Closed

to ideas, people and collaboration

And by the way, what are these?



Apache **Jackrabbit**



Jackrabbit in a few words...



Apache **Jackrabbit**

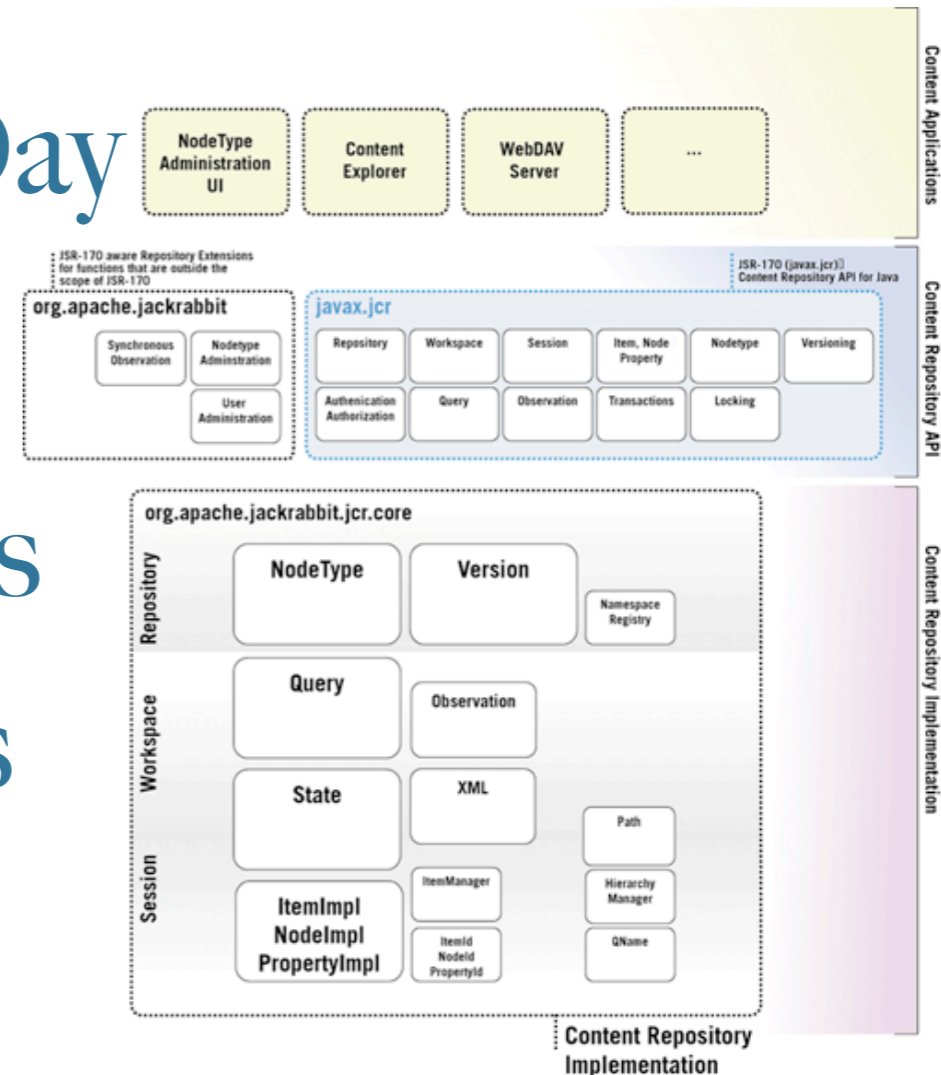
JSR-170 (JCR) reference implementation

Codebase initially donated by Day

No user interface, few tools

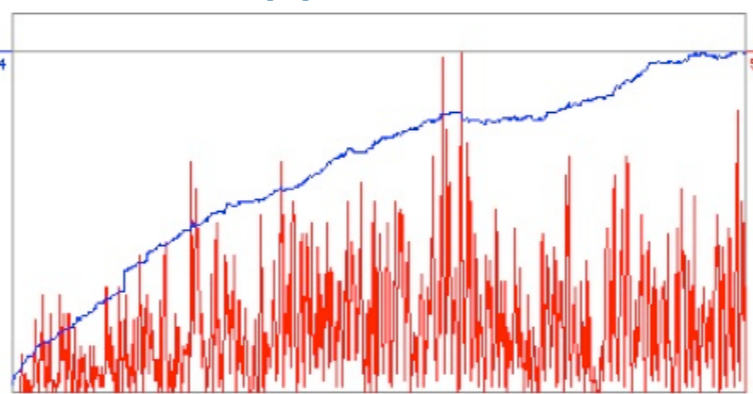
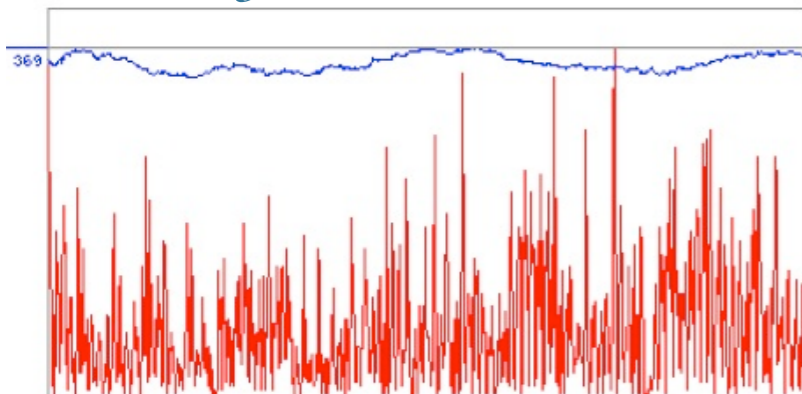
Infrastructure for Day's products

Used in more and more projects
(ASF and elsewhere)



dev@ (360)

users@ (440)



Sling in a few words...

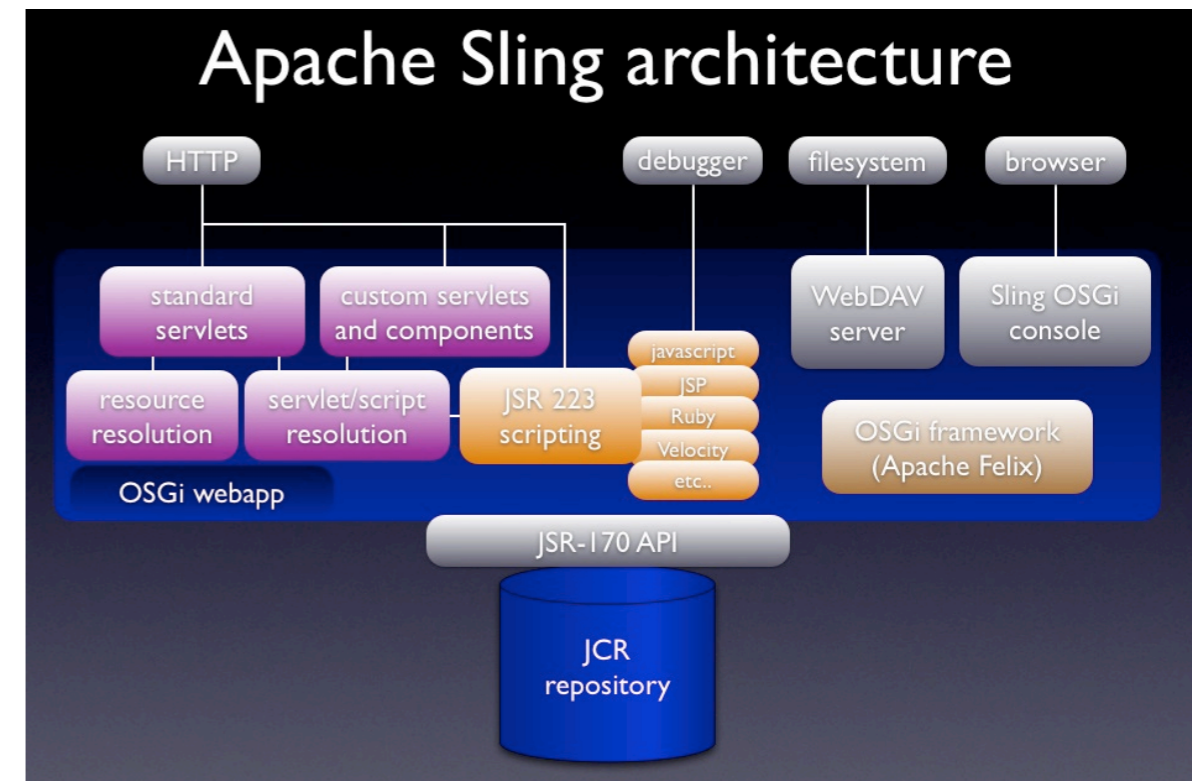


RESTful application layer for JCR repositories.

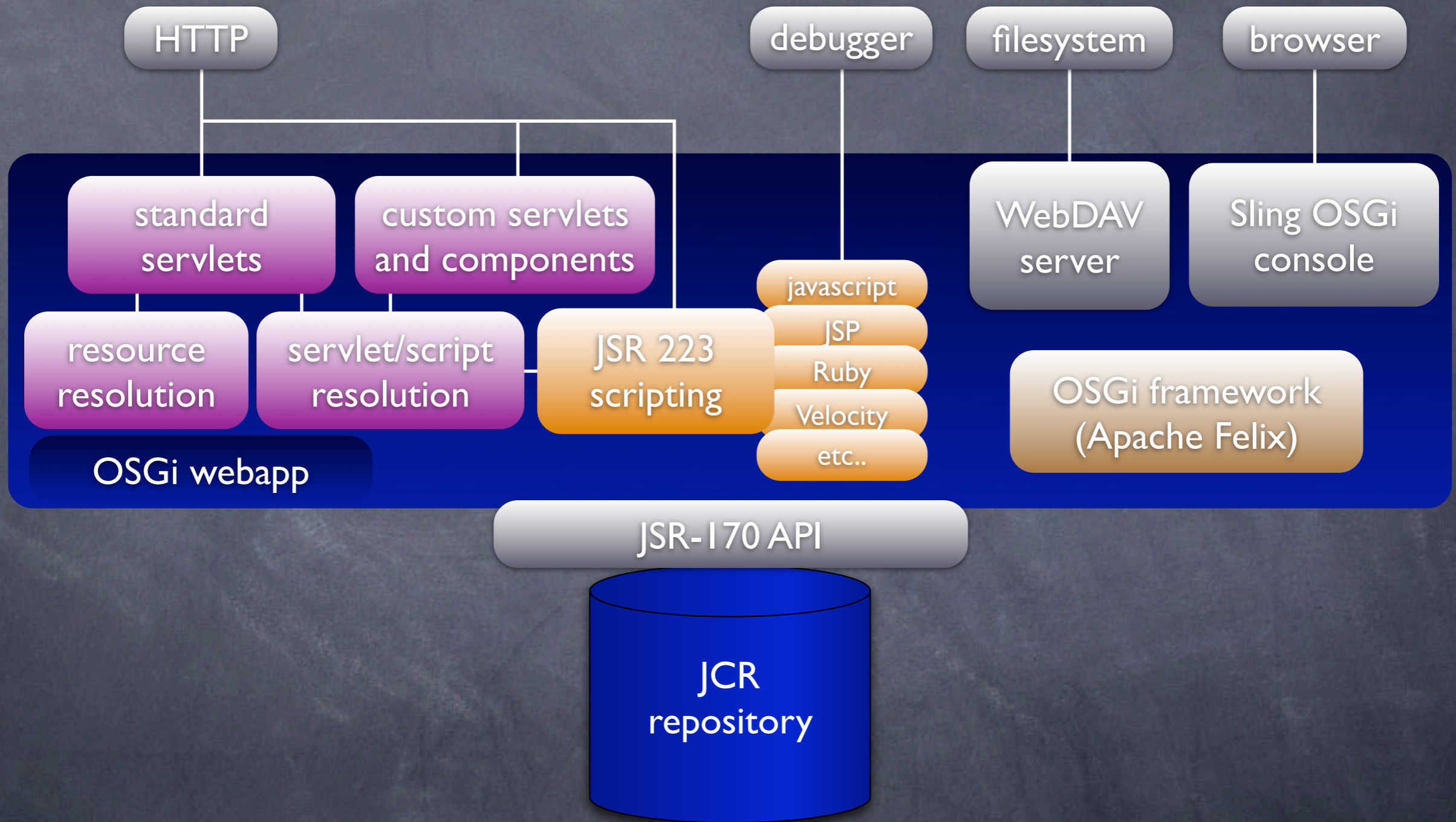
Scriptable, simple things are simple to implement.

Servlet API - to the max.

OSGi framework - extreme modularity, enterprise-ready.

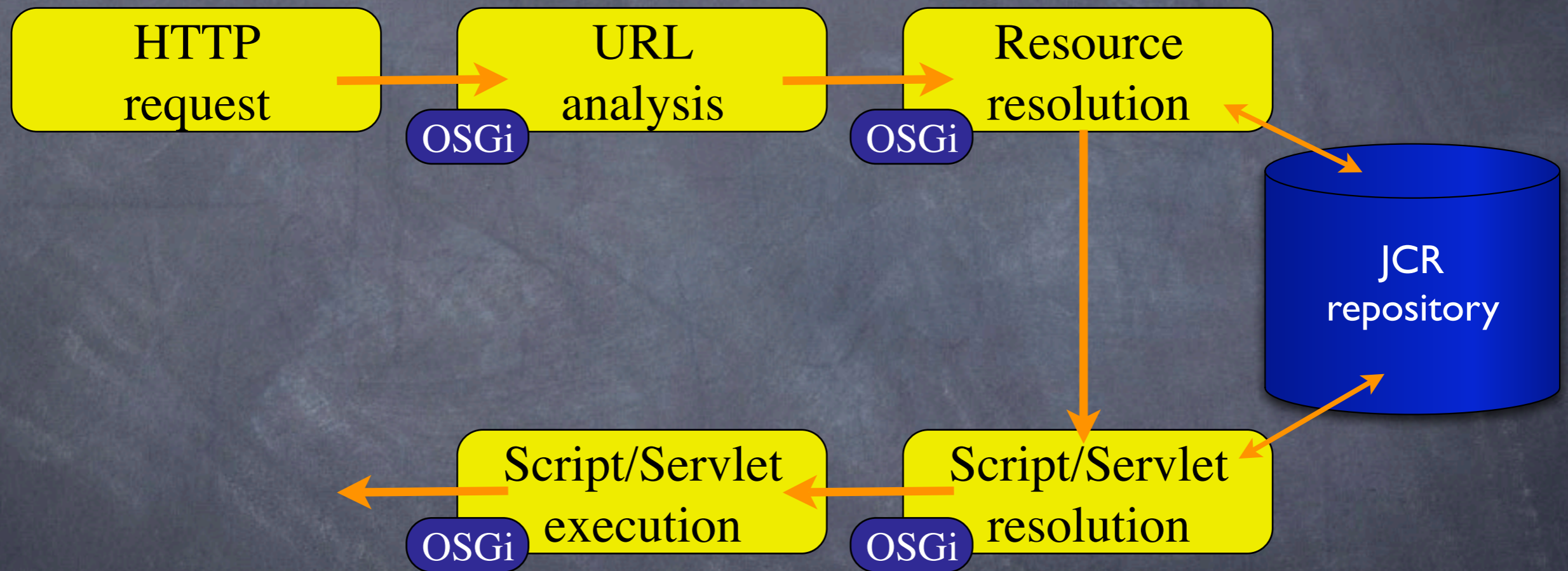


Apache Sling architecture



OSGI and JCR based scriptable applications framework

Sling request processing



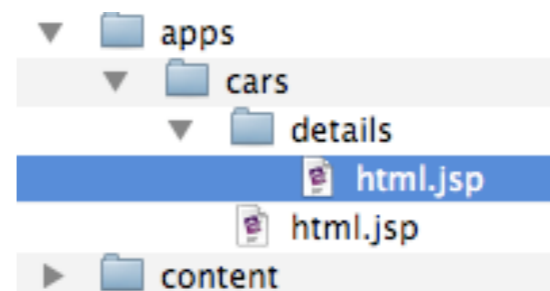
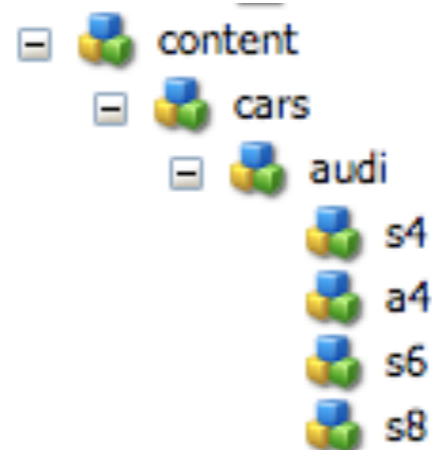
Reclaiming the web: Sling URL decomposition

/cars/audi/s4.details.html

Reclaiming the web: Sling URL decomposition

/cars/audi/s4.details.html

Repository

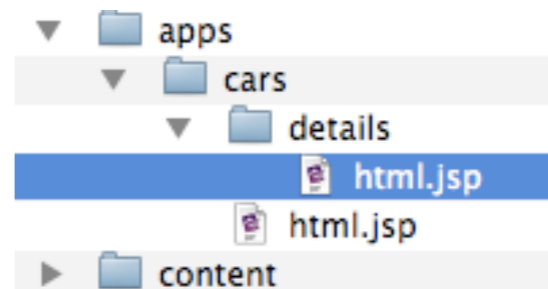
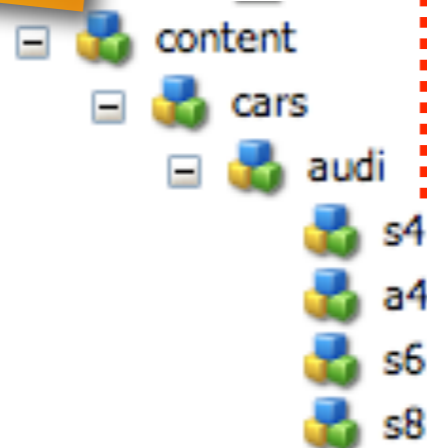


Reclaiming the web: Sling URL decomposition

/cars/audi/s4 . details.html

Repository

Content
Repository Path

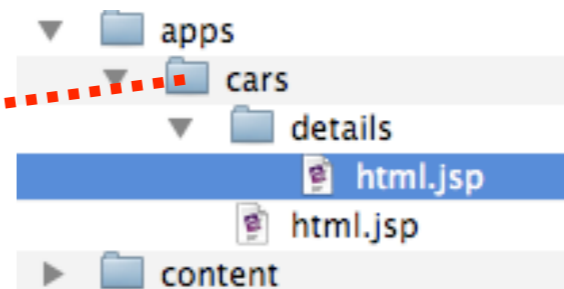
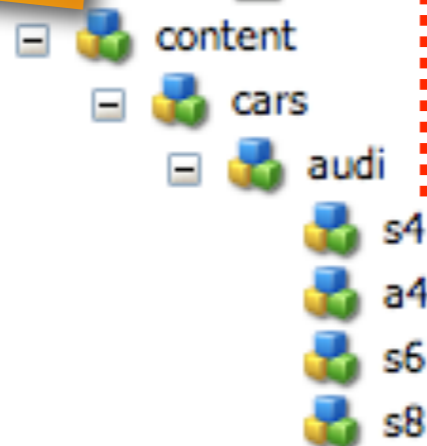


Reclaiming the web: Sling URL decomposition

/cars/audi/s4 . details.html

Repository

Content
Repository Path



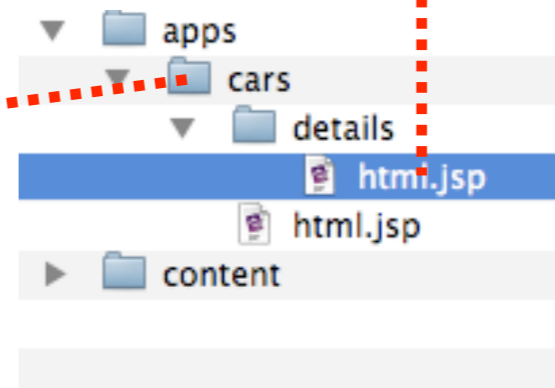
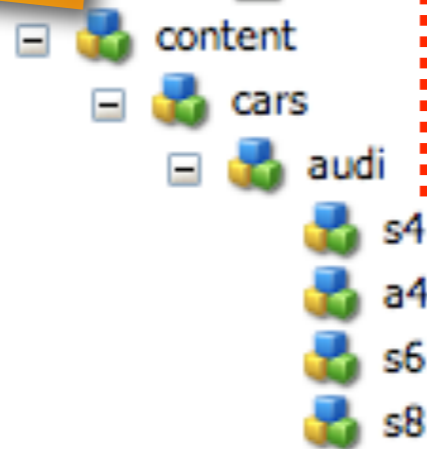
Reclaiming the web: Sling URL decomposition

/cars/audi/s4.details.html

Repository

**Content
Repository Path**

**...selects a
particular script**



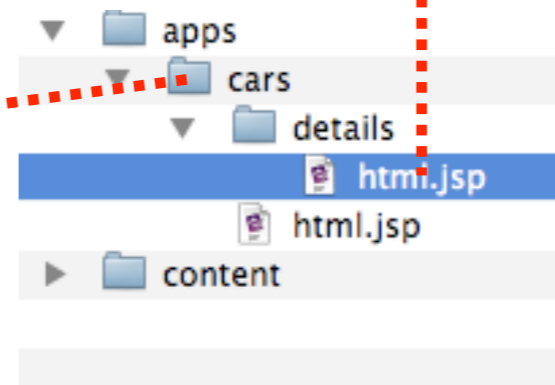
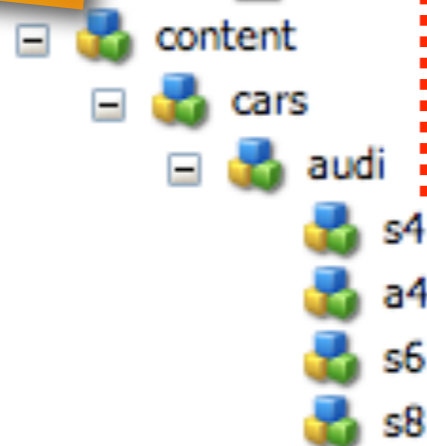
Reclaiming the web: Sling URL decomposition

/cars/audi/s4.details.html

Repository

**Content
Repository Path**

**...selects a
particular script**



Data First!

simple write example

Browser window: rjax: simple write example

Form fields:

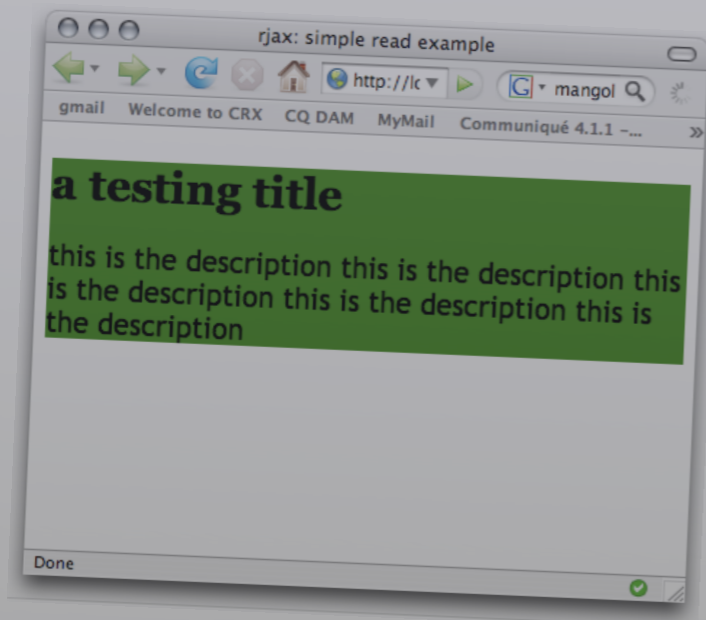
- Title:
- Description:
- Color:

write me!

http://localhost:7402/apps/firststeps/1_write.html

```
<html>
<head><title>slings: simple write example</title>
</head><body>
  <form action="/content/firststeps" method="POST">
    <!-- title -->
    <h2>Title</h2>
    <input type="text" name="Title" />
    <!-- description -->
    <h2>Description</h2>
    <textarea rows="5" name="Description">
    </textarea>
    <!-- color -->
    <h2>Color</h2>
    <select name="Color">
      <option value="red">red
      <option value="green">green
    </select>
  </form>
</body>
</html>
```

simple read example



read me!

http://localhost:7402/apps/firststeps/2_read.html

```
<html>
<head><title>slings: simple read example</title>
</head>
<body>
  <script src="/system/sling.js"></script>
  <script>
    var node=Sling.getContent("/content/firststeps");
    var div='<div style="background-color:'+node.Color+'>';
    document.write(div);
  </script>
  <h2><script>
    document.write(node.Title);
  </script></h2>
  <p><script>
    document.write(node.Description);
  </script></p>
</div>
</body>
</html>
```


add new entry

Browser window: rjax: add new entry example
URL: http://localhost:7402/apps/firststeps/3_addnew.html

Title: a new title

Description: this is a description

Color: red

Image: Browse...

Submit Query

[go to the list of entries](#)

add new

http://localhost:7402/apps/firststeps/3_addnew.html

```
<html>
<head><title>slingshot: add new entry example</title>
</head><body>
  <form action="/content/firststeps/entries/*"
    method="POST" >
    <h2>Title</h2>
    <input type="text" name="Title" />
    <h2>Description</h2>
    <textarea rows="5" name="Description"></textarea>
    <h2>Color</h2>
    <select name="Color">
      <option value="red">red
      <option value="green">green
    </select>
    <p><input type="submit"></p>
  </form>
</body>
</html>
```

list entries

```
<html>
<head><title>slings: list entries example</title>
[...]
```

```
<script>
var entries=Sling.getContent("/content/firststeps/entries", 2);
</script>
<div>
<script>
for (var a in entries) {
var entry=entries[a];
document.write('<div style="background-color:'+entry.Color+'">');
document.write('<h2>'+entry.Title+'</h3>');
document.write(entry.Description);

if(entry.Image) {
[...]
```

```
document.write('</div>');
document.write('<a href="4_list.html"
onclick="ujax.removeContent(\'/mydata/entries/\'+at'\')">
remove</a>');

}
</script>
<a href="3_addnew.html">add new</a>
</div>
```



list entries

http://localhost:7402/apps/firststeps/4_list.html

Sling's unique selling points

Tight integration with JCR.



RESTful processing

Convention over configuration - convention over code!

Scriptable (javascript, JSP, Ruby, Velocity, etc.)

Both client-side and server-side javascript.

Servlets and scripts are interchangeable.

Integrated OSGi framework

Extensible, hackable, reconfigurable and future-proof.

O Day

● Day

Win a
MacBook
Pro!

**THE
DAY
JCR CUP
'08**

○ Day

● Day

Win a
MacBook
Pro!

**THE
DAY
JCR CUP
'08**

see
dev.day.com

○ Day

● Day

Win a
MacBook
Pro!

THE DAY JCR CUP '08

see
dev.day.com

Essentially:
Re-build
"TSS++" as a
content app.

Final words

Day is very happy about our relationship with the ASF.

The open source way of doing things works for us, both internally and externally.

Jackrabbit + Sling = solid foundation for all our products: WCM, DAM, Wiki, blogs, and more to come.

Balance between open source and making a living is still a work in progress.

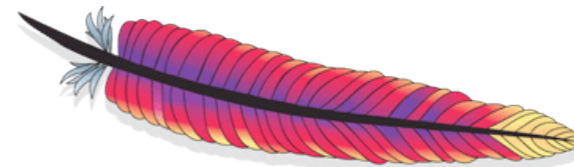


incubator.apache.org/sling



Apache **Jackrabbit**

jackrabbit.apache.org



www.apache.org

photo credits

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<http://morguefile.com/archive/?display=189113>

<http://morguefile.com/archive/?display=192078>

<http://morguefile.com/archive/?display=119042>

<http://morguefile.com/archive/?display=199947>

<http://morguefile.com/archive/?display=196923>

<http://morguefile.com/archive/?display=212718>