

Open Source collaboration tools are good for you!

Bertrand Delacrétaz, Senior Developer

Day Software, www.day.com

bdelacretaz@apache.org

ApacheCon EU 2008, Amsterdam, April 9th

slides revision: 2008-08-09



using the right (types of) collaboration tools in the right way...



revision control system



blogs



mailing lists + archives



IRC



issue tracker



Instant messaging



Wikis



automated builds

logos: Adium, Roller, Colloquy, MoinMoin

ApacheCon



The **Apache Software Foundation**

<http://www.apache.org/>

More than 60 projects, many are
“industry standards”

About 1600 committers

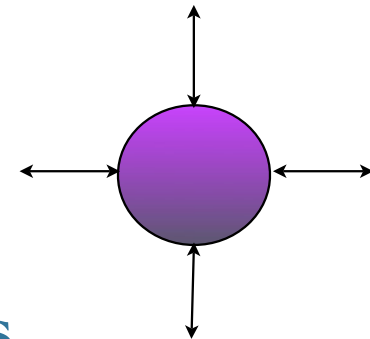
Close to 300 members

Tens of releases every year

No offices

Almost no f2f meetings

All decisions on mailing lists



Leading the Wave
of Open Source

● Day

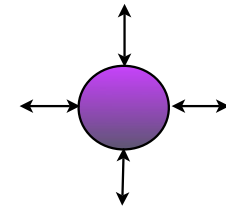
ApacheCon



The **Apache Software Foundation**

<http://www.apache.org/>

It works for us!



revision control system



blogs



mailing lists + archives



IRC



issue tracker



Instant messaging



automated builds



Wikis

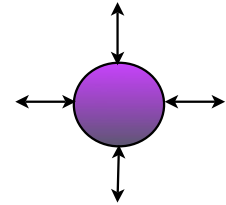


Leading the Wave
of Open Source

● Day



Can we define “requirements” for a set of collaboration tools?



we could, but what are the key questions?

ApacheCon



what?

who?

how?

why?

Without a vision...



Leading the Wave
of Open Source

● Day

ApacheCon



What's our status right now?



Leading the Wave
of Open Source

● Day

ApacheCon

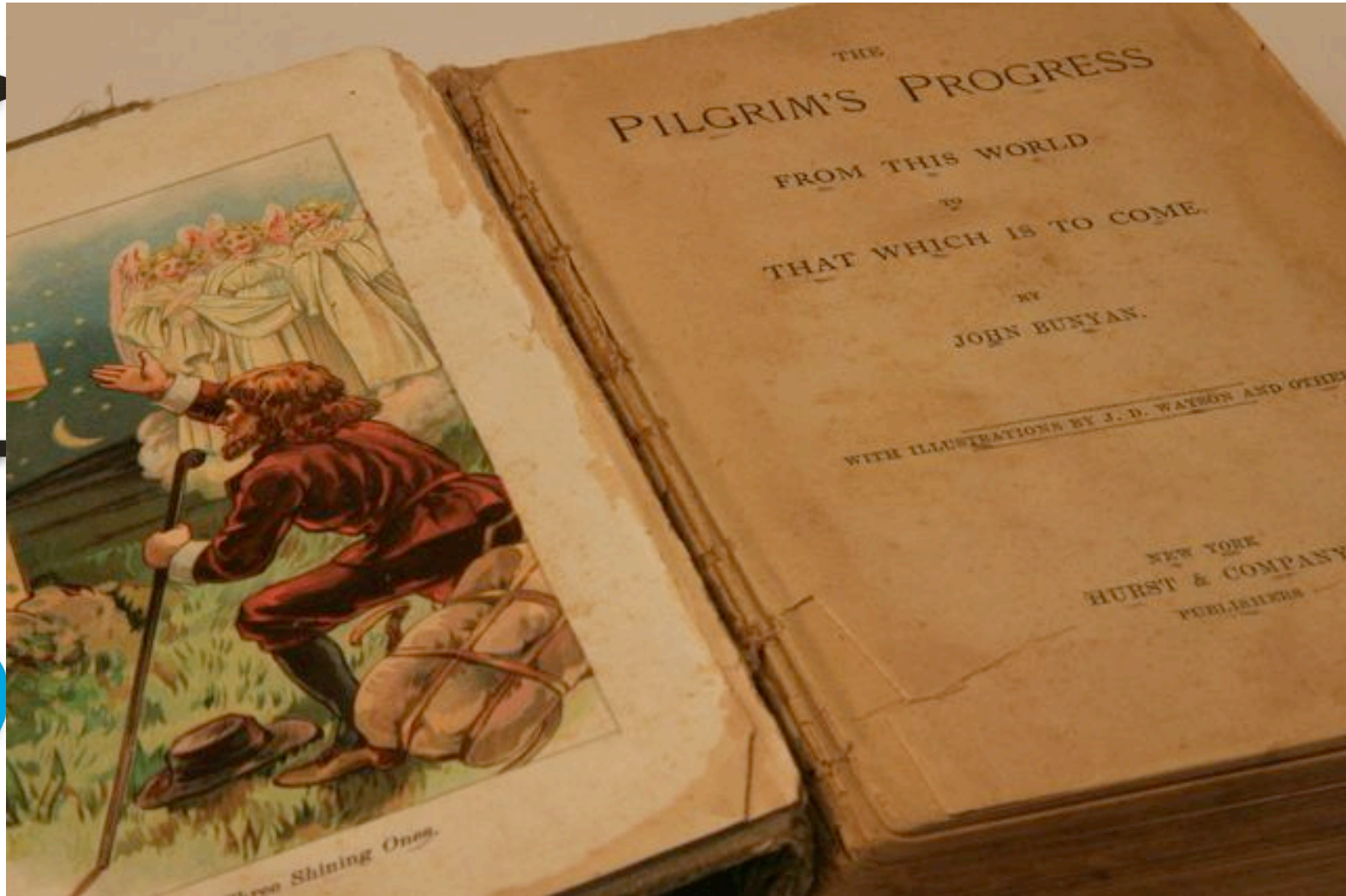


Where can I help?



Leading the Wave
of Open Source

● Day



Why did we do this?



ApacheCon



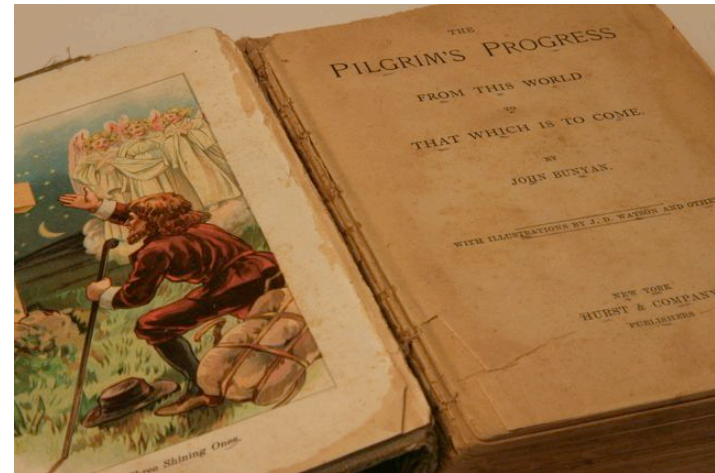
Shared vision



Real-time updates



Real-time help requests



Self-service archives

Leading the Wave
of Open Source

● Day

ApacheCon



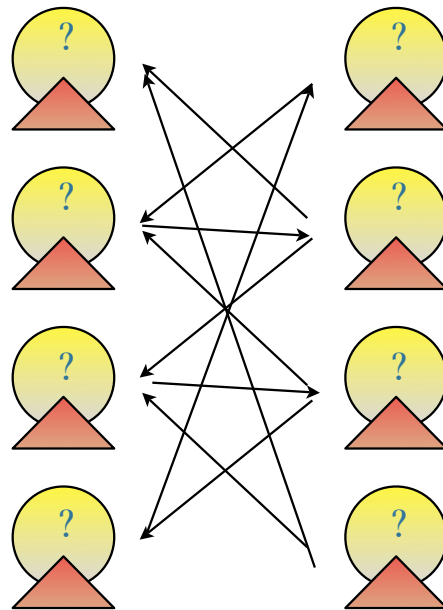
Sharing the Vision

Leading the Wave
of Open Source

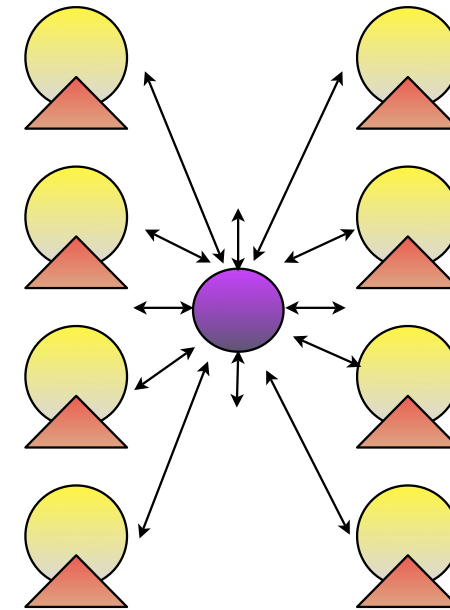
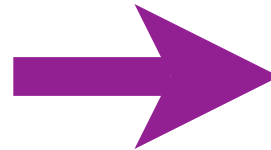
● Day



Sharing the vision?



Mess Media?
oral tradition?



Central Hub
permanent record

Sharing the vision. *verba volant, scripta manent...*



mailing lists + archives



Wikis



blogs

Searchable mailing lists
instead of 1-to-1 email

Wikis instead of email
attachments

Blogs help for out-of-
band conversations

Information stays around, available to all!

ApacheCon



MARK Mail Search 1,827 lists for: Search ?

Home Refine Search

Sort by Relevance 1 to 10 of about 1890

Re: Rethinking Exceptions in Sling
...he exceptions in the **Sling** API and wrote a wiki page on this subject [3].
17 Jan 2008 - Felix Meschberger - org.apache.incubator.sling-dev

Re: How does one build Sling?
...t HEAD revision (see **SLING-154**), if you want to try it before we fix that pl...
21 Jan 2008 - Bertrand Delacretaz - org.apache.incubator.sling-dev

Re: Sling JSON format
...If **Sling** support writing server-side scripts in Rhino, cou ... rite a serve-side javascript which access internal **Sling** APIs, build the structure, and outputs the correct format?... ..t place based on the **sling:resourceType** of the node that you're dumping, and...
19 Jan 2008 - Bertrand Delacretaz - org.apache.incubator.sling-dev

Re: [VOTE] Sling API
[X] +1 **Sling** API is good enough to refactor S
02 Nov 2007 - Bertrand Delacretaz - org.apa

[jira] Commented: (**SLING-88**) Use the **SLING-28...**
Bertrand Delacretaz commented on **SLING-8**
01 Nov 2007 - Bertrand Delacretaz (JIRA) - org.apache.incubator.sling-dev

[jira] Commented: (**SLING-47**) Microsli
Bertrand Delacretaz commented on **SLING-4**
11 Oct 2007 - Bertrand Delacretaz (JIRA)

Re: How does one build Sling? 12 messages in org.apache.incubator.sling-

From	Sent On	Attachments
Peter Svensson	21 Jan 2008 15:41	
Bertrand Delacretaz	21 Jan 2008 15:55	
Bertrand Delacretaz	21 Jan 2008 18:06	
Peter Svensson	21 Jan 2008 18:14	
Bertrand Delacretaz	21 Jan 2008 21:51	
Peter Svensson	22 Jan 2008 08:00	

Subject: Re: How does one build **Sling**?
From: Bertrand Delacretaz (bdela...@apache.org)
Date: 01/21/2008 09:06:19 AM
List: org.apache.incubator.sling-dev

...Checkout with an svn client from
<http://svn.apache.org/repos/asf/incubator/sling/trunk/>..

Note that the chpad stuff is broken in the current HEAD revision (see **SLING-154**), if you want to try it before we fix that please use revision 613894, i.e:

svn co -r 613894 <http://svn.apache.org/repos/asf/incubator/sling/trunk/> **sling**
cd **sling**
and then "mvn clean install" etc...

Added value through links...

ApacheCon



Leading the Wave
of Open Source



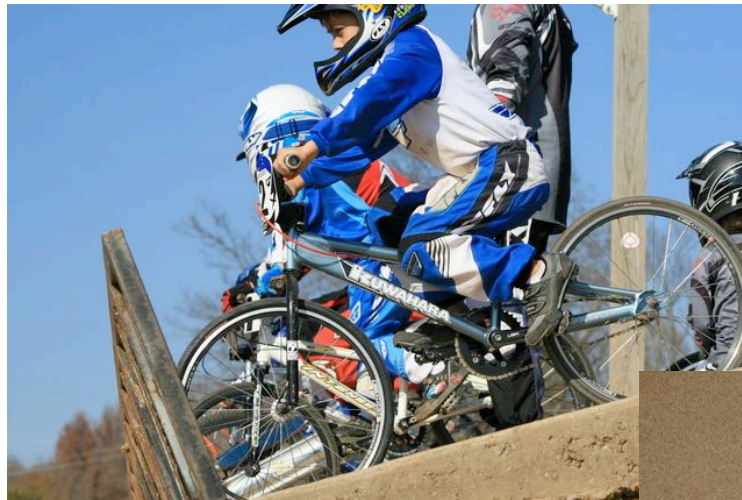
Real-time updates

● Day

ApacheCon

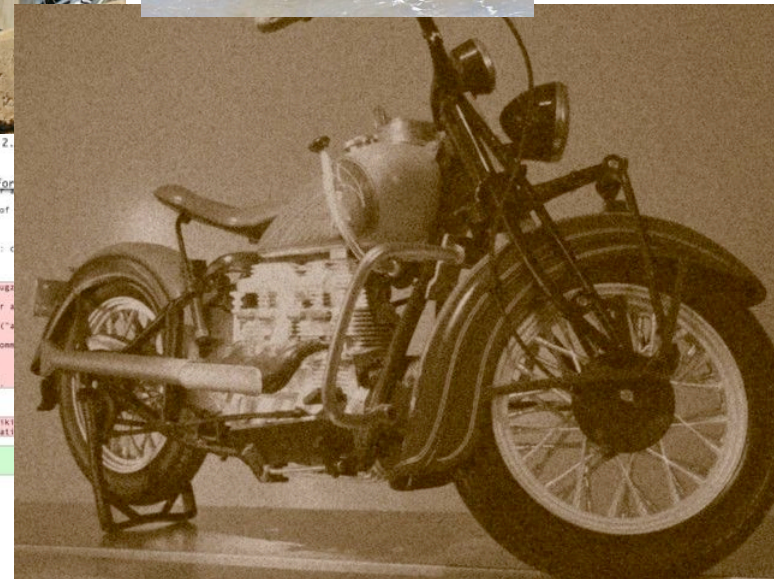


We need fast feedback



```
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>
revision 1.151 1.151 (sylvain 24-Sep-03): <action dev="SM" type="add">
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
lide: Part One: Tools 46
int-style: LittleText 47
- quick refresher about CVS 48
ote: User view of these too 49
lide: CVS 50
OOO screenshots: commit/mer 51
lide: Bugzilla 52
OOO screenshots: task lists 53
lide: Wiki 54
OOO screenshots: Wiki links 55
lide: Weblogs 56
OOO screenshots: stories 57
lide: Part Two: analysis 58
int-style: LittleText 59
What does each tool bring? 60
```

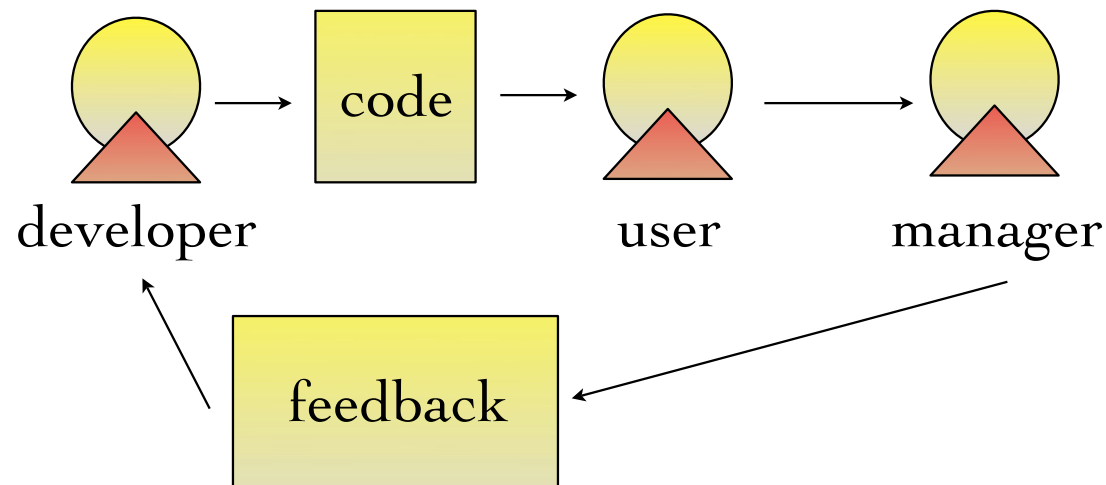
Why not for code?



Leading the Wave
of Open Source

● Day

Feedback loop

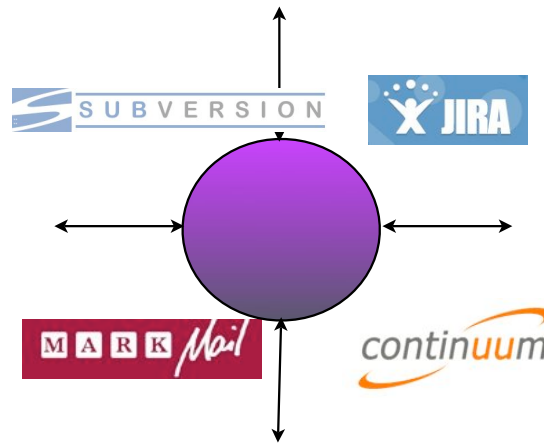


How fast is your loop?
Seconds? Weeks?



Real-time updates?

code
tests
bugs
decisions



Collaboration hub

subscriptions
email events
RSS feeds





Real-time updates.



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



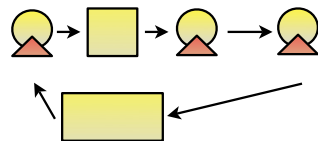
Issue tracker events instead of “what did you do today”?



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



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





[continuum] BUILD SUCCESSFUL: Sling Launchpad

00-sling-svn | X

★ **Continuum VMBuild Server** to sling-commits [show details](#) Apr 5 (4 c

Online report : <http://vmbuild.apache.org/continuum/buildResult.action?buildId=>

Build statistics:

State: Ok

Previous State: Failed

Started at: Sat 5 Apr 2008 09:52:15 -0700

Finished at: Sat 5 Apr 2008 09:53:02 -0700

Total time: 47s

Build Trigger: Schedule

Build Number: 54

Exit code: 0

Building machine hostname: vmbuild.apache.org

Operating system : Linux(unknown)

Java Home version : java version "1.6.0_05"

Java(TM) SE Runtime Environment (build 1.6.0_05-b13)

Java HotSpot(TM) Client VM (build 10.0-b10, mixed mode, shared)

Author: bdelacretaz

Date: Sat Apr 5 03:08:44 2008

New Revision: 645059

URL: <http://svn.apache.org/viewvc?rev=645059&view=rev>

Log:

SLING-355 - empty parameters are not stored anymore

Modified:

incubator/sling/trunk/launchpad/content/src/main/resources/content/sling-test/sling/sling-test.html

Modified: incubator/sling/trunk/launchpad/content/src/main/resources/content/sling-test/sling/sling-test.html

URL: <http://svn.apache.org/viewvc/incubator/sling/trunk/launchpad/content/src/main/resources/content/sling-test/sling/sling-test.html?rev=645059&r1=645058&r2=645059&view=diff>

=====



[show details](#) Apr 5 (4 days ago)

[Reply](#)



Real-time events
With rich links

ApacheCon



Real-time help requests

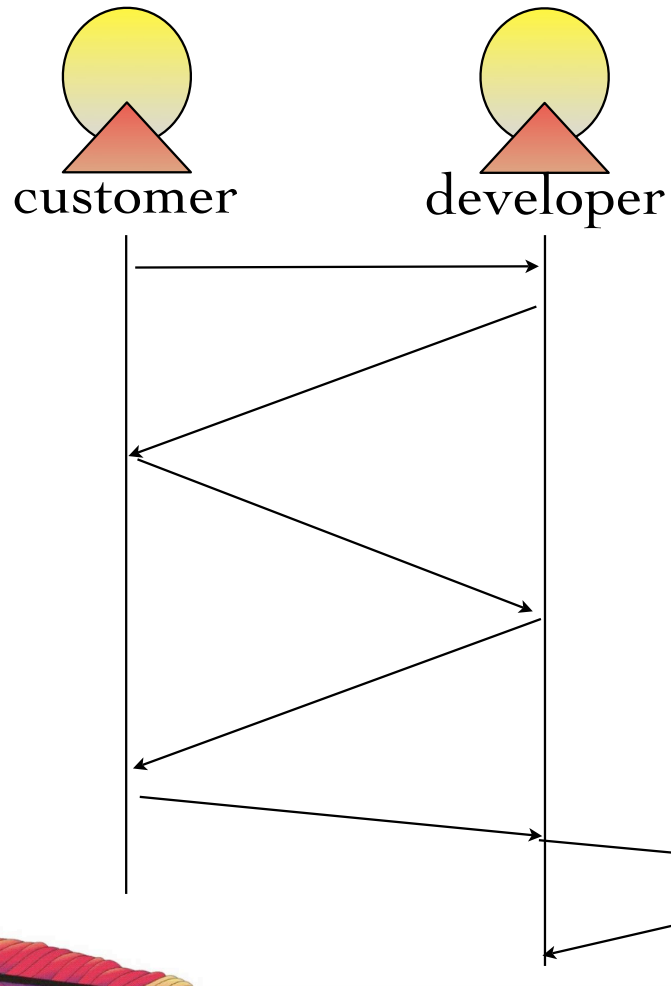


Leading the Wave
of Open Source

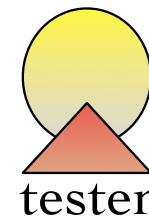
● Day



Real-time help requests?



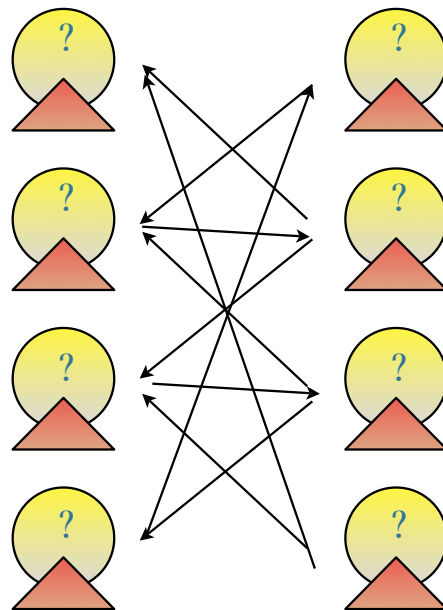
A help request
is a dialog, and
history is
important.



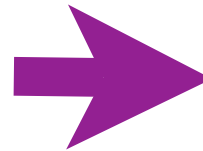
tester



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-2	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 Trolhoff		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-180	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-198	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-246	After reinstalling sling core, server shutdown hangs	Unassigned	Tobias Bocanegra		Open	UNRESOLVED
	SLING-31	SLING-77 Add write-support to Javascript API for JCR	Unassigned	Lars Trolhoff		Open	UNRESOLVED
	SLING-249	Allow mapping nodes to internet domains	Unassigned	Vidar S. Randal		Open	UNRESOLVED
	SLING-251	Add mapping for user homes	Unassigned	Tobias Bocanegra		Open	UNRESOLVED
	SLING-268	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”.

ApacheCon



Leading the Wave
of Open Source

[HOME](#) [BROWSE PROJECT](#) [FIND ISSUES](#) [CREATE NEW ISSUE](#) [ADMINISTRATION](#) **QUICK SEARCH:**

Issue Details [\(XML\)](#) [Word](#) [Printable](#)

Key: [SLING-157](#)

Type: Bug

Status: Closed

Resolution: Fixed

Priority: Minor

Assignee: [Felix Meschberger](#)

Reporter: [David Nuescheler](#)

Votes: 0

Watchers: 0

Available Workflow Actions

- ☐ [Reopen Issue](#)
- Operations**
- ☐ [Assign](#) this issue [\(to me\)](#)
- ☐ [Attach file](#) to this issue
- ☐ [Attach screenshot](#) to this issue
- ☐ [Clone](#) this issue
- ☐ [Comment](#) on this issue
- ☐ Create [sub-task](#)
- ☐ [Delete](#) this issue
- ☐ [Edit](#) this issue
- ☐ [Link](#) this issue to another issue
- ☐ [Move](#) this issue
- ☐ [Convert](#) to sub-task

Sling

output of primitives using <%= %> in .esp does not work

Created: 15/Jan/08 06:56 AM Updated: 16/Feb/08 05:33 AM

Component/s: [Scripting](#)

Affects Version/s: None

Fix Version/s: [2.0.0](#)

Time Tracking: Not Specified

Description

while trying to output a non string value using the <%= %> syntax I stumbled over an issue that somehow prevented the output without an error.

SO:

<%= 1 %>

does not produce output, while

<%= "1" %>

works fine.

a workaround for the application developer of course would be to convert the output to a string first, but i think it would be great to fix that, since people output counters and other non string variables frequently.

```
sequenceDiagram
    participant customer
    participant developer
    participant tester
    customer->>developer
    developer->>tester
```

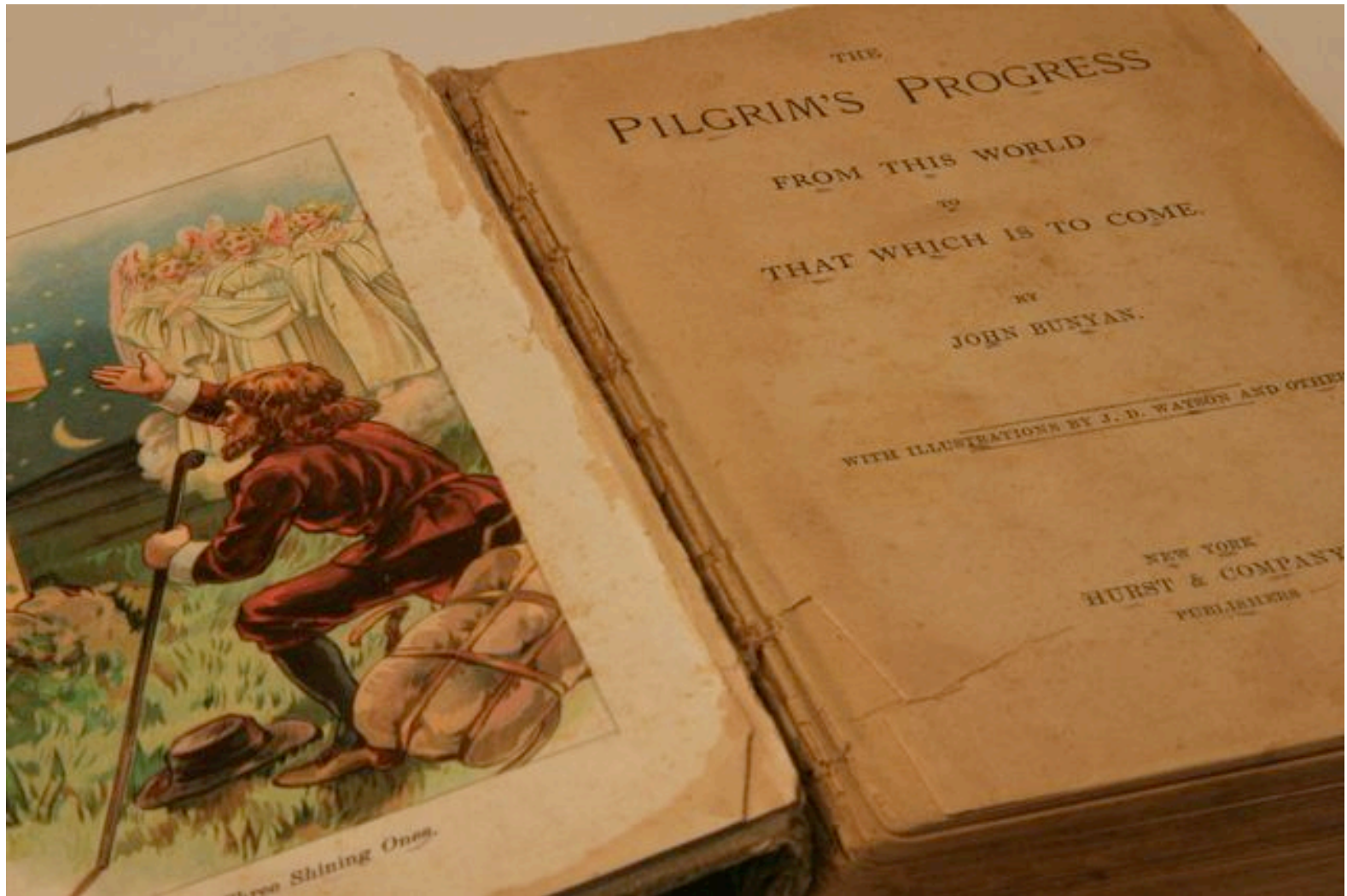
Repository	Revision	Date	User	Message
ASF	#612405	Wed Jan 16 01:59:50 PST 2008	fmeschbe	SLING-157 Add a wrapper for the java PrintWriter providing customized

Files Changed

- ADD**
[/incubator/sling/trunk/scripting/javascript/src/main/java/org/apache/slin](#)
- MODIFY**
[/incubator/sling/trunk/scripting/javascript/src/main/java/org/apache/slin](#)

[Felix Meschberger](#) - 16/Jan/08 02:15 AM

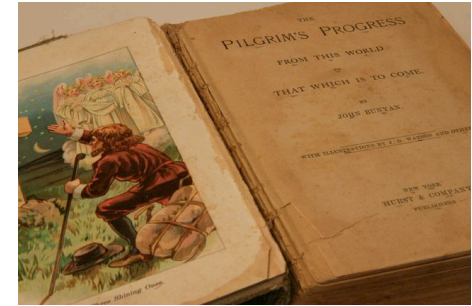
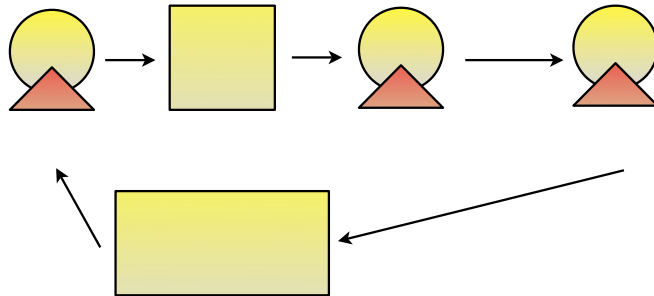
Resolved in Rev. 612405 (with minor fix in 612407) by wrapping the PrintWriter with a ScriptablePrintwriter, provic



Self-service archives



Self-service archives?



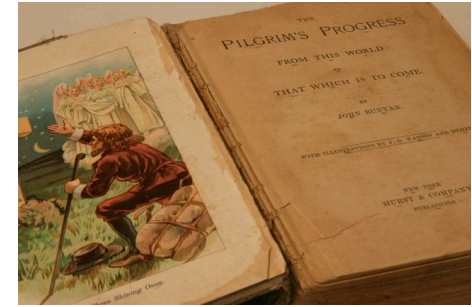
No time to document everything that happens.

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



Self-service archives.

URIspeak adds value!



Subversion logs and diffs,
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!



Parlez-vous URI?

...Checkout with an svn client from
[http://svn.apache.org/repos/asf/incubator/sling/trunk/...](http://svn.apache.org/repos/asf/incubator/sling/trunk/)

Note that the launchpad stuff is broken in the current 😊AD revision (see **SLING-154** 😊), if you want to try it before we fix that please use revision 613894 😊, i.e:

```
svn co -r 613894 http://svn.apache.org/repos/asf/incubator/sling/trunk/ sling  
cd sling 😊  
and then "mvn clean install" etc...
```

Include as much permanent links as possible!
“The current revision” dies quickly, 613894
stays forever...

Are We There Yet?



ApacheCon



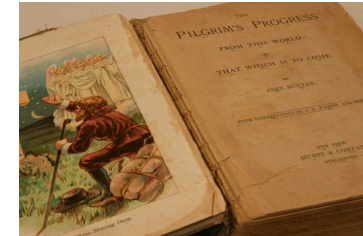
Vision



Updates



Help



Archives



Extra tools:



Leading the Wave
of Open Source

● Day

ApacheCon



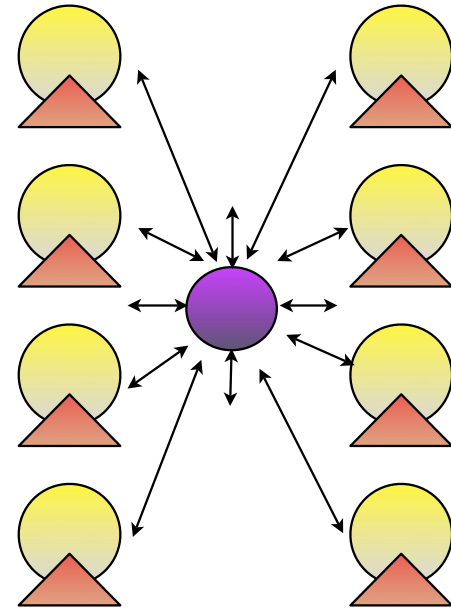
that's the ASF
but what about me?

Leading the Wave
of Open Source

● Day



Migration path



Migration step 1

Working without a source code
control system?

GET ONE - NOW!!

“Commit early, commit often “
“Whatever’s not in the source
code repository does not exist”

Which tool you use does not matter much.





Migration step 2

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-63	Add request filter for method overwrite	Unassigned	Felix Meschberger	☆	Open	UNRESOLVED
	SLING-77	Provide an easy-to-use Javascript API for JCR	Unassigned	Lars Trolhoff	☆	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-180	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-198	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 Trolhoff	☆	Open	UNRESOLVED
	SLING-249	Allow mapping nodes to internet domains	Unassigned	Vidar S. Randal	☆	Open	UNRESOLVED
	SLING-251	Add mapping for user homes	Unassigned	Tobias Bocanegra	☆	Open	UNRESOLVED
	SLING-268	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

Bring structure to the “what are you working on”, “where do we stand” and “what brings us from A to B” questions.

Document the many micro-decisions that shape your project.

Review and update priorities and assignments at will.

Remember URIspeak.

Migration step 3



Repeatable, automated builds instead of “just configure your IDE like mine”.

Speed up the feedback loop.

Moving to automated builds might require a sizeable initial effort.

Remember URIspeak.



Migration steps 4..N



Archived discussions should be next.

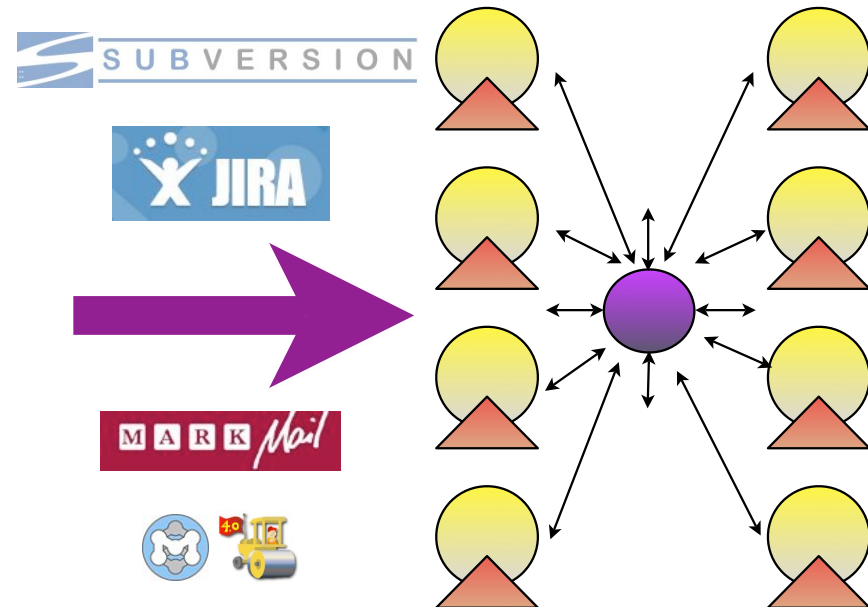


Wikis and blogs help a lot, but are not as critical.



Instant messaging and IRC are very useful, but have less impact on the overall way of working.

Migration path



Really?

Need to convince people, in small steps



Conclusions

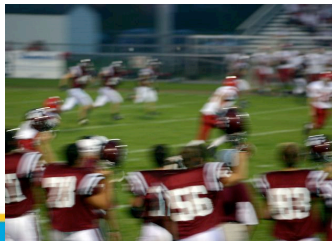
Focus on the goals, not on the tools...
Source code control system and issue tracker bring the most value.
Repeatable builds come right after.
Remember URLSpeak.

This works!

Vision



Updates



Help



Archives



photo credits

All photographs come from the morguefile.com public image archive, used according to the morguefile license. Thanks to users gracey, click, jusben, taliesin, wallyir, peekaysee, jpkwitter, ppdigital.

Original URLs:

<http://morguefile.com/archive/?display=127643>

<http://morguefile.com/archive/?display=186412>

<http://morguefile.com/archive/?display=180641>

<http://morguefile.com/archive/?display=188806>

<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://www.morguefile.com/archive/?display=57435&>

