



INDOQA

Cocoon 2.2 - Back to the Future

Keynote - Cocoon GetTogether 2006 - October 4th

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What has happened since GT2005? ^[1]

- new Cocoon PMC chair
- new committers
 - Max Pfingsthorn (Germany)
 - Arje Cahn (The Netherlands)
 - Jean-Baptiste Quenot (France)
 - Simone Gianni (Italy)
 - Peter Hunsberger (U.S.)
 - Jason Johnston (U.S.)
 - Ard Schrijvers (The Netherlands)
 - Andreas Hochsteger (Austria)
 - Lars Trieloff (Germany) ... at least, almost ;-)



What has happened since GT2005? [2]

- Main discussion topics
 - Blocks
 - OSGi
 - Simplify Cocoon
 - Mavenization (aka m10n)
 - Spring
 - ... and why does Sylvain have green hair ... ?
- Mails (10.2005 - 09.2006 / 10.2004 - 09.2005)
 - users: 6,276 (9,560)
 - dev: 10,959 (13,517)
 - commits: 3,939 (4,307)



What has happened since GT2005? ^[3]

- Releases:
 - Cocoon 2.1.9 (7 April 2006)
 - Cocoon 2.1.8 (18 November 2005)



Back to the future!

- Cocoon 2.2M1 + several blocks have already been released
... but not announced because of the missing documentation ...
- Bootstrapping your own Cocoon-based web application has never been so easy!
- Everything is a block



Bootstrapping your Cocoon 2.2 based project

- **use the block archetype to bootstrap your project:**

```
mvn archetype:create
```

```
-DarchetypeGroupId=org.apache.cocoon  
-DarchetypeArtifactId=cocoon-22-archetype-block  
-DarchetypeVersion=1.0.0-M3  
-DgroupId=com.mycompany  
-DartifactId=myBlock
```

- **run your block**

```
mvn cocoon:deploy jetty6:run
```

- **point your browser to**

```
http://localhost:8888
```

- **start to work**

```
mvn eclipse:eclipse
```



What does Cocoon 2.2 already bring? ^[1]

- standardised directory structure for blocks

[block]

```
/COB-INF/sitemap.xmap ..... the block's root sitemap
/COB-INF/* ..... Cocoon application
/COB-INF/config/spring .... Spring beans (LA)
/META-INF/spring ..... Spring beans (GA)
/META-INF/legacy/xconf .... Avalon component configs (GA)
/META-INF/legacy/sitemap-additions
                               Sitemap components (GA)
/META-INF/legacy/xweb ..... patch files for web.xml
```

GA ... globally available LA ... locally available

- distributed configurations
- also block-local component configurations are possible



What does Cocoon 2.2 already bring? ^[2]

- we go towards „convention over configuration“
- Cocoon 2.2 applications should (but don't need to) be blocks
- a „normal“ web application is only used to assemble your blocks - „auto detection“ mechanism by the Cocoon deployer (a Maven plugin)
 - this is achieved by adding all block you need as dependencies to the pom.xml (Maven project descriptor) of your web application module
- backwards compatibility still given



What does Cocoon 2.2 already bring? ^[3]

- based on Spring
 - no bridging or other „tricks“
 - Cocoon is set up by Spring following the traditional Spring way of using the Spring context listener
- Property management
- log4j as default
- distribution of binary artifacts
- Mavenized
- backwards compatibility still given



So what's missing?

- documentation, documentation, documentation
- articles (xml.com, TSS, blog entries, ...)

Everybody here can contribute!



What will Cocoon 2.2 bring in the near future?

- Spring-based sitemap blocks
- a stable Javaflow block again, which depends on Jakarta Commons javaflow
- Re-Integration of the reloading classloader (scripting Java)
- splitting the core of Cocoon into even smaller chunks and reduce dependencies (e.g. make the use of Flowscript optional)
- Virtual sitemap components



(My) Vision

- I want to use Cocoon from within any Java application
- I want to choose which parts of Cocoon I want to use
- I want to see even more powerful XML processing using pipelines



Possible future goals ^[2]

- remove the dependencies on Avalon and Excalibur
- Java API as an alternative to the sitemap language in XML
- dynamic, content-aware pipelines
remember: currently a pipeline is created before it is executed - you can't react on the content
- pull pipelines
e.g. by using Axiom as base technology



Possible future goals ^[2]

- OSGi - some good news:
 - Oracle, BEA and Interface 21 are very interested in providing Spring capabilities on top of the OSGi Service Platform.
 - ... some well know OSGi developers/evangelists BJ Hargrave, Richard Hall, Peter Kriens also joined this OSGi/Spring team
 - by this initiative not all but a lot of work will be done for us :-)



Possible future goals ^[3]

- OSGi - some good news:
 - read more:
 - http://www.osgi.org/blog/2006/08/osgi-and-spring_29.html
 - <http://opensource.atlassian.com/projects/spring/browse/SPR-1802>
 - <https://svn.sourceforge.net/svnroot/springframework/spring-osgi/trunk/>



