

The Nuxeo Way

Building a world-class ECM platform, the open source way

Stefane Fermigier | NUXEO DEV DAY 2008

Herzlich willkommen!

Welcome!

Välkommen!

Bine ați venit!

Bienvenue!

Degemer mad!

Welkom!

Bienvenidos!

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A Bit of History

- Company started in 2000
- 2002-2005: Zope-based CPS project
- 2005: First Eclipse RCP based project
- 2005: Zope/Java hybrid: CPS4
- 2006-now: Full switch to Java

Our Original Goals

- Address the full **ECM scope**
 - Initial focus on Document Management
 - Architecture must be extensible and modular
- Enable and sustain the **Ecosystem**
 - Easy to work with, design for participation

Our Original Vision

- Don't reinvent the wheel
 - Leverage existing **standards**, work on new ones (ex: JCR2, CMIS)
 - Build on proven **open source libraries** and components (JBoss, Apache, Sun, Eclipse)
- Use a robust software engineering **process**
 - Make it **transparent** for our community

Lesson Learned

- Zope Era
 - Value of components-based architectures
 - Basics of ECM
- Eclipse
 - OSGi and extension points
- Java Era
 - Value of standards (Java EE, additional JSRs, OSGi)
 - With proper tools, you can be as productive and have better quality w/ Java 5 than w/ Python

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Process and Tools

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Process Goals


- Must enable the participations of third party contributors (partners, community)
- Must improve synchronisation between custom developments and open source projects
- Agile development practices (XP, TDD) already used at Nuxeo since 2001 or so
- Must complement them with simple, efficient and scalable project management practices

Scrum























2008

TDD and Continuous Integration



Build History of Hudson

Build	Date ↑	Status
 Nuxeo RCP - update site (nightlybuild) #185	12 min ?	
 Nuxeo Distribution #278	16 hr broken since #276	
 org.nuxeo.ecm.platform:nuxeo-platform-documentlink-tests #212	16 hr stable	
 org.nuxeo.ecm.platform:nuxeo-platform-documentlink-tests #234	16 hr stable	
 org.nuxeo.ecm.platform:nuxeo-platform-userworkspace-facade #183	16 hr stable	
 org.nuxeo.ecm.platform:nuxeo-platform-metadataext-facade #211	16 hr stable	
 org.nuxeo.ecm.platform:nuxeo-platform-imagingq-web #224	16 hr stable	
 org.nuxeo.ecm.platform:nuxeo-platform-imagingq-transform #224	16 hr stable	
 org.nuxeo.ecm.platform:nuxeo-platform-documentlink-core #212	16 hr stable	
 org.nuxeo.ecm.platform:nuxeo-platform-userworkspace-facade #211	16 hr stable	

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Tools

- Mercurial

- Distributed SCM rules!



- Maven

- Dependency mngt, build, packaging, releasing

The Maven logo consists of the word "maven" in a bold, lowercase, sans-serif font. The letter "a" is colored orange, while the other letters are black.

- Hudson

- Continuous integration



- Jira

- Bug / task tracking, Scrum iteration backlogs



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More Tools

- IDEs
 - Eclipse mostly, should also support NetBeans and IDEA
- Testing
 - JUnit, Selenium
- Static code analysis
 - FindBugs, IDEA inspections, Checkstyle, Enerjy
- Various profilers and debuggers
 - JXInsight, YourKit

Where do we go from here?

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Driving Forces

- Market needs
 - Enterprise 2.0 collaboration, move to the cloud, etc.
- Developers feedback
 - First developer survey
- R&D
 - Several starting projects

First Developer Survey

- From 12 Nov. to 29 Nov. 2008
- 73 answers from the Community
 - Mostly technical people
 - Thanks to everyone who took some time to answer the poll!
- **Overall satisfaction: 3.8 / 5 :)**

Strongest Points

- Ease of installation: **4.3** / 5
- Breadth of functionality: **4.3** / 5
- Standards support: **4.2** / 5

Areas of Improvement

- Usability of default interface: **3.2** / 5
- Documentation: **3.1** / 5

Most Important Use Cases for You

- Document management: 100%
- Search: 100%
- Records management: 95%
- Collaboration: 87%
- Workflow: 83%

What We've Done Best

- Choice of technologies: **4.3** / 5
- Conceptual model: **4.1** / 5
- Architecture (plugins, ext. points): **3.9** / 5
- API: **3.5** / 5

Needs More Work

- Ease and speed of development: **2.9** / 5
- Tools support: **2.9** / 5
- Developer documentation: **2.9** / 5

Your Preferred Deployment Platform

- Open source Java EE app servers:
 - JBoss: 81%
 - GlassFish: 64%
- Lightweight web containers:
 - Jetty: 45%
 - Tomcat (alone): 40%
- Proprietary app servers:
 - Oracle, WebSphere, WebLo: ~10%

Your Preferred Database

- PostgreSQL: 83%
- MySQL: 56%
- Oracle: 37%
- MS-SQL: 15%

(Cooperative) R&D Projects

- SCRIBO (System@tic competitiveness cluster)
 - Semantic annotations, ontologies
- Nuxeo 2010 (Eureka), w/ Yerbabuena
 - Infrastructure work: Runtime and Core improvements
 - Storage, synchronisation, mobility, semantic tech...
- IKS (European Project, FP7)
 - Semantic technologies applied to CMS providers

It's your turn to get involved!

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How You Can Help

- Test, file bug reports or RFEs
- Comment on proposed new API or API refactorings
- Write or improve pieces of documentation (FAQ, howtos, Nuxeo Books...)
 - Use our Wiki for easier collaboration
- Write or improve translation files
 - Already: EN, FR, DE, IT, ES, VN, CN

How You Can Help (contd.)

- Become a commiter
 - First, submit your patches to the Jira
 - You must adhere to the projects coding rules and quality standards
 - We will give you direct access after a while
- You're also free to develop your own extensions
 - We can host them if you want
 - Including putting them under CI, etc.

Thank you!

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