

Future of OpenEdge build process

a.k.a. Why Ant/PCT should die

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History

- PCT was born in 2003
 - Consistent builds across OpenEdge versions, operating systems, DB types, ...
 - No Jenkins at this time

 - Soon adopted by many companies, and got improvement requests and patches from multiple vendors
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What's wrong

- XML syntax is quite cumbersome
 - Conditional behavior is hard to write and maintain (additional libraries required)
 - Specific to a directory structure
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What happened in the Java world ?

- Initial release of Maven in 2004
 - Quickly became the de facto build standard for open source Java projects
 - And widely used in commercial projects, in-house development...
 - Brought two key features :
 - Convention over configuration
 - Dependency management
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Convention over configuration

- The directory structure is imposed by the Maven builder
 - Java source code stored in `src/main/java`
 - Unit tests stored in `src/test/java`
 - Web application stored in `src/main/web`
 - As long as you follow the conventions, Maven will be able to build your project
 - You only have to describe exceptions
 - « Maven turn complex things easy, but easy things can become a nightmare »
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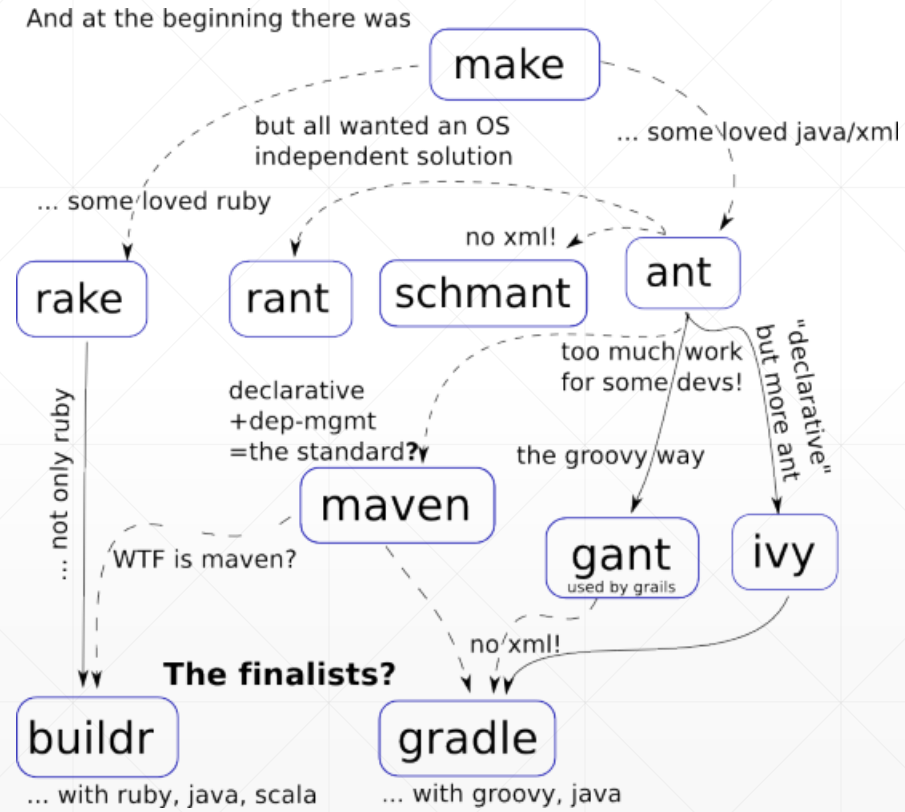
Dependency management

- Use public and/or private repositories
 - A project only needs to declare its main dependencies
 - Dependency on commons-fileutils 1.0.1 and slf4j 2.6
 - Which are downloaded during the build
 - Hierarchy generated on the fly
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From Eclipse

- Maven projects are configured on the fly
 - Classpath is set up automatically
 - Source and test entries automatically added
 - Initial Maven build is executed
 - Dependency management done on the fly
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Summary



With OpenEdge

- Huge monolithic projects are the norm rather than the exception
 - Long build times
 - Large build scripts – Reusability is quite limited
 - No code convention
 - Developer Studio setup is long
 - No dependencies
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What could we do ?

