

Acceleo Training



Goals :

- To be able to use Acceleo efficiently following the MDA approach
- To be able to develop Acceleo generation modules

Our advantages :

- Training created by Eclipse committers and real EMF experts
- Many practical exercises (50%)

Duration : 2 days

Public : Architects, Developers

Pre-requisite : Good knowledge of Java. Basic knowledge of Eclipse's plugin programming.

1 - MDA approach and Acceleo presentations

- MDA Approach and the meta models
- Structure of the Eclipse Modeling Project
- Acceleo presentation and its community

Exercises :

- Setting up Acceleo
- Discovery of the web site and available documents

Duration : 1,5 h

2 - Acceleo from a user point of view

- Acceleo modules import and Module Launcher
- Module parameterization and how to launch chains
- User code management – incremental generation

Exercises :

- Introduction on the UML meta model
- Practice on module exemple: JavaEE/Struts generation from UML2 or UML1.4 models

Duration : 2 h

3 - Generation modules realization

- Acceleo syntax and template editor

Acceleo Training



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- Acceleo model requestor
 - reflective editor
 - services
 - templates Indentation and generated code
 - profiles and UML profiles

Exercises :

- First XHTML generator
- Navigation and advanced requests with system services
- Generating Java classes from a UML Class model
- Generation using others UML diagrams (activities, uses cases, ...)

Duration: 5 h

4 - Advanced topics

- Extending existing modules and scripts inheritance
- Advanced usage : the debugger
- Packaging and deployment

Exercises :

- Generalization and templates reuse
- Deploying Acceleo modules as plug-ins
- ChainCall and CustomAction design
- Generation launched by Java code

Duration: 3,5 h

5 - Meta-modeling with Acceleo

- Meta-modeling introduction
- DSL approach with Ecore
- Introduction to EMF and XMI

Exercises :

- meta model and editors, design using EMF
- Carry over JavaEE generator from UML2 towards this meta model

Duration : 2 h