Building a Textual Domain-Specific Language with Eclipse

<table>
<thead>
<tr>
<th>Duration</th>
<th>3 days</th>
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<tbody>
<tr>
<td>Audience</td>
<td>Software architects, software engineers/developers and language designers</td>
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<tr>
<td>Pre-requisites</td>
<td>Participants should be familiar with the principles of software modeling and have some experience with Java programming and Eclipse</td>
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<td>Brief Description</td>
<td>A hands-on course that introduces the participants to developing a domain-specific language in Eclipse including language definition and generating code or other artifacts from it.</td>
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**Description**

Provide attendees with the foundations for developing a textual domain-specific language (DSL) with Eclipse. The course will cover defining the abstract syntax of the DSL with the Eclipse Modeling Framework (EMF), the concrete syntax of the DSL with XText and transforming the models created with the language into other artifacts with XPand and QVT.

**Target Audience**

Software architects and software engineers

**Course level**

Intermediate

**Course Pre-requisites**

Participants should be familiar with the principles of software modeling and have some experience with Java programming and Eclipse.

**Course Objectives**

Provide attendees with the necessary skills to develop domain-specific languages with Eclipse.

**Course Outline**

- Computer languages and models
- Domain-specific languages
- Eclipse Modeling Framework (EMF)
- Xtext
- XPand
- QVT