

Building a Textual Domain-Specific Language with Eclipse

Duration	3 days
Audience	Software architects, software engineers/developers and language designers
Pre-requisites	Participants should be familiar with the principles of software modeling and have some experience with Java programming and Eclipse
Brief Description	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.

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