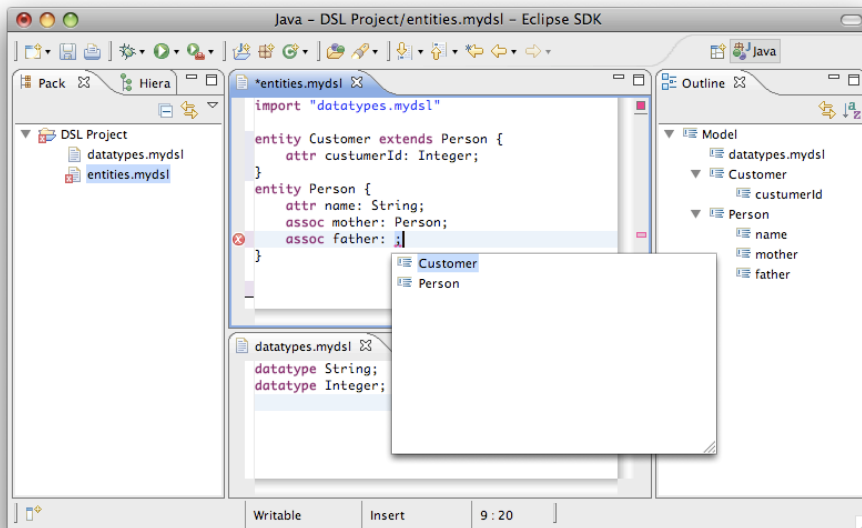


# Xtext

Language development has never been so easy!

Xtext is a framework for development of textual domain specific languages (DSLs). Just describe your very own DSL using Xtext's simple EBNF grammar language and the generator will create a parser, an AST-meta model (implemented in EMF) as well as a full-featured Eclipse text editor from that.

The Framework integrates with technology from Eclipse Modeling such as EMF, GMF, M2T and parts of EMFT. Development with Xtext is optimized for short turn-arounds, so that adding new features to an existing DSL is a matter of minutes. Still sophisticated programming languages can be implemented.



## Eclipse Technology

### EMF Integration

Xtext implements an EMF Resource that can read your textual models into a given or an inferred Ecore meta model that matches your grammar. And it can link these objects with other resources, too. When modifying loaded objects and saving back such resources Xtext will produce the textual representation according to your language again.

### Editor

Together with optional configuration data your grammar will be transformed into a fully-blown editor similar to those of programming languages. It integrates seamlessly into the workbench and can be deployed as a stand-alone solution as well.

### Highly Customizable

Xtext follows a loosely coupled architecture that is wired by the dependency injection framework Google Guice. This allows you to replace virtually any aspect of the runtime behavior with your own implementation without duplicating an unmanageable amount of code.

## Key Features

### EMF Read/Write

Xtext can read and write textual models into Ecore meta models be they dynamic or static.

### Semantic Models

When loading textual models Xtext establishes crosslinks where needed. Doing so your objects build an interconnected domain model.

### Code Generation

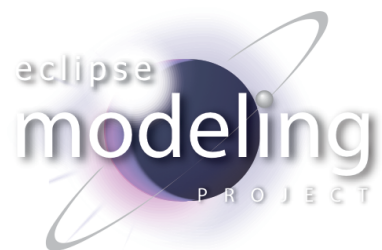
Xtext integrates with EMF-based code generator frameworks. It is fully supported by openArchitectureWare.

### User Experience

Editors created with Xtext support the author of textual models with features like content assist and template proposals in a way you know from modern IDEs. Semantic syntax highlighting, an outline view or hyperlinks simplify the navigation effort and make working with text files great fun. Constraint violations will show up as markers in the editor and in the Eclipse problems view as you type.

### and much more...

Read the documentation at the website and join the discussion at the news-group to understand how powerful Xtext is.



## Get in touch

Xtext is open-source and can easily be accessed via:

WEBSITE <http://www.Xtext.org>

DISTRO <http://Xtext.itemis.com>

...and follow Xtext on TWITTER!