

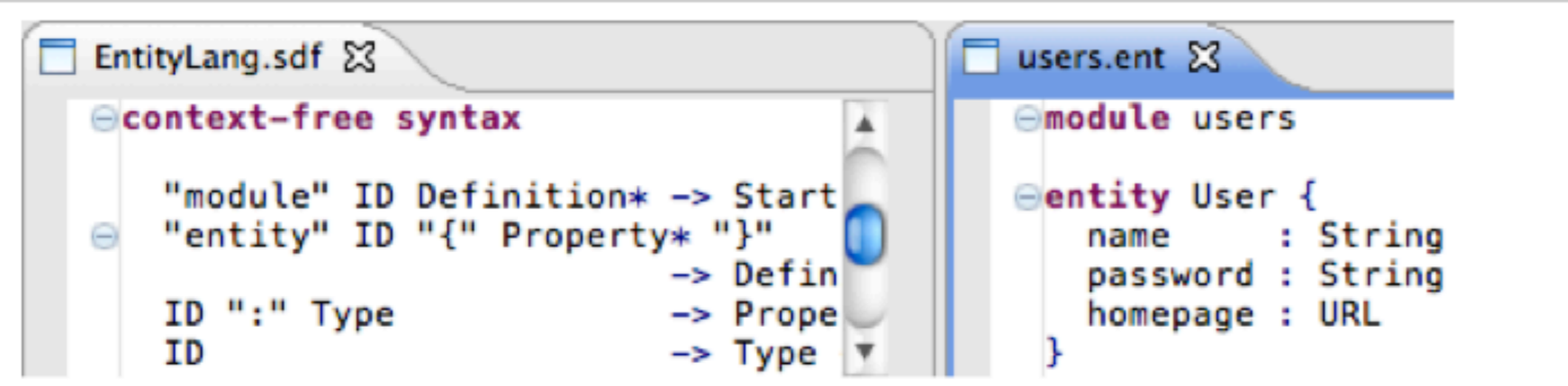
# The Spoofox Language Workbench

## Rules for Declarative Specification of Languages and IDEs

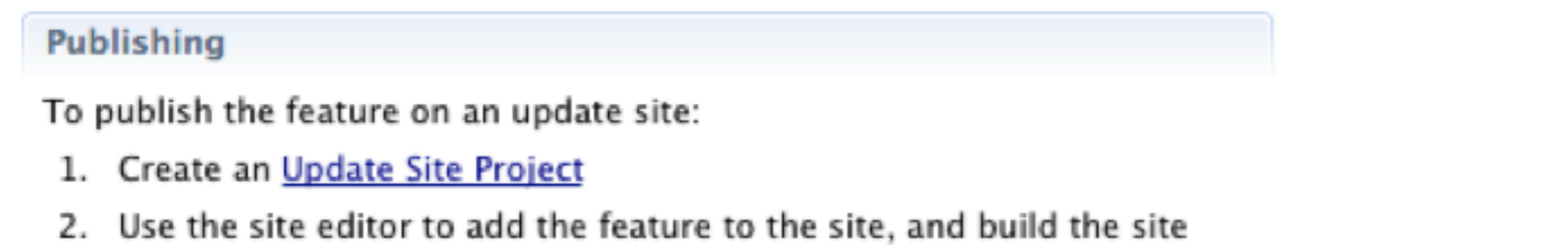
Lennart C. L. Kats, Eelco Visser  
Delft University of Technology, The Netherlands  
{l.c.l.kats,e.visser}@tudelft.nl

Spoofox is a *language workbench* for efficient, agile development of textual *domain-specific languages* with state-of-the-art *IDE support*. It provides a comprehensive environment that integrates syntax definition, program transformation, code generation, and declarative specification of IDE components.

Edit and use your language in one Eclipse window



Deploy your editor as a portable Eclipse plugin



Specify custom errors, warnings, and notes



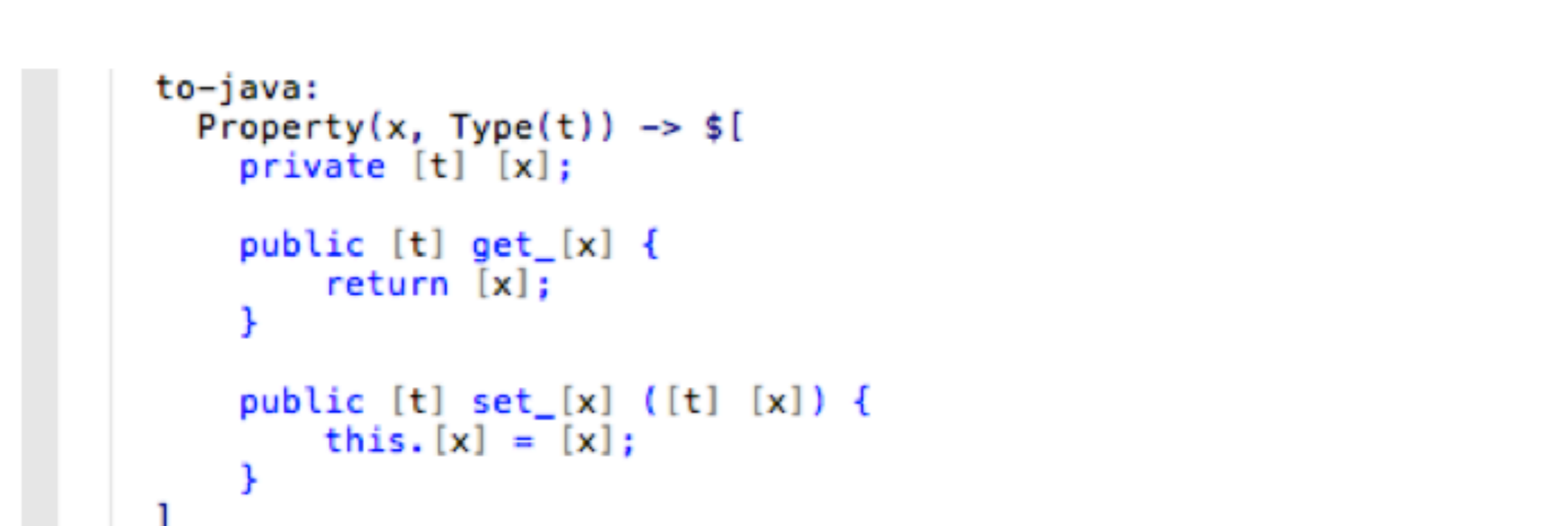
Support content completion



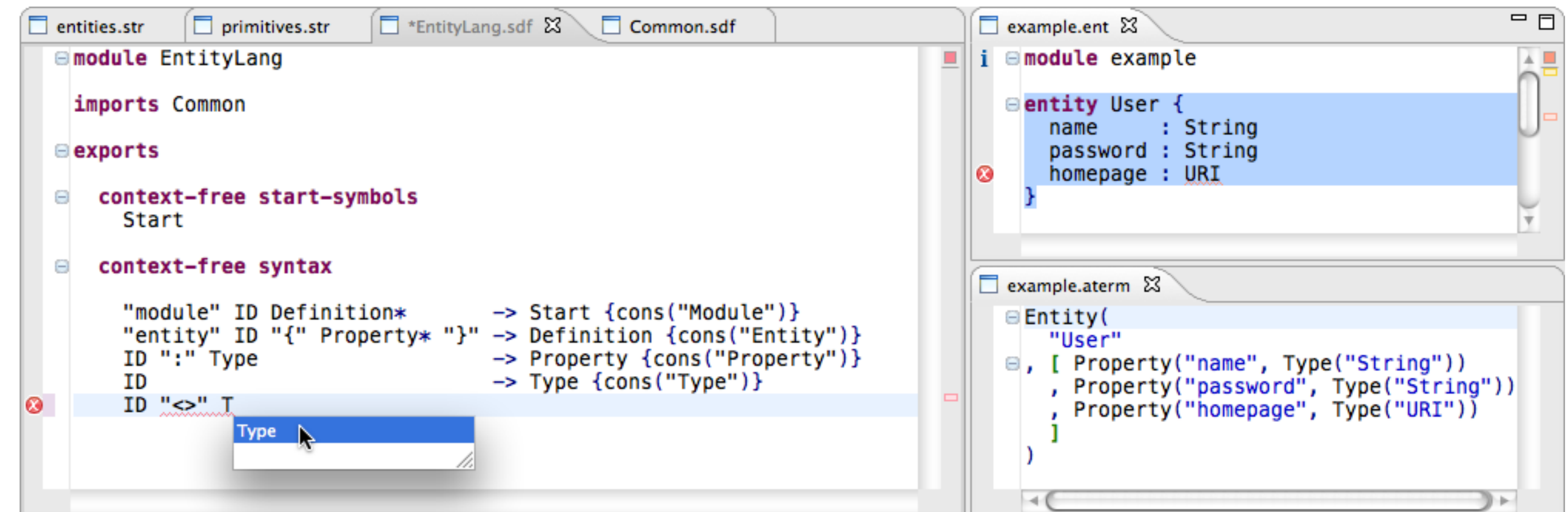
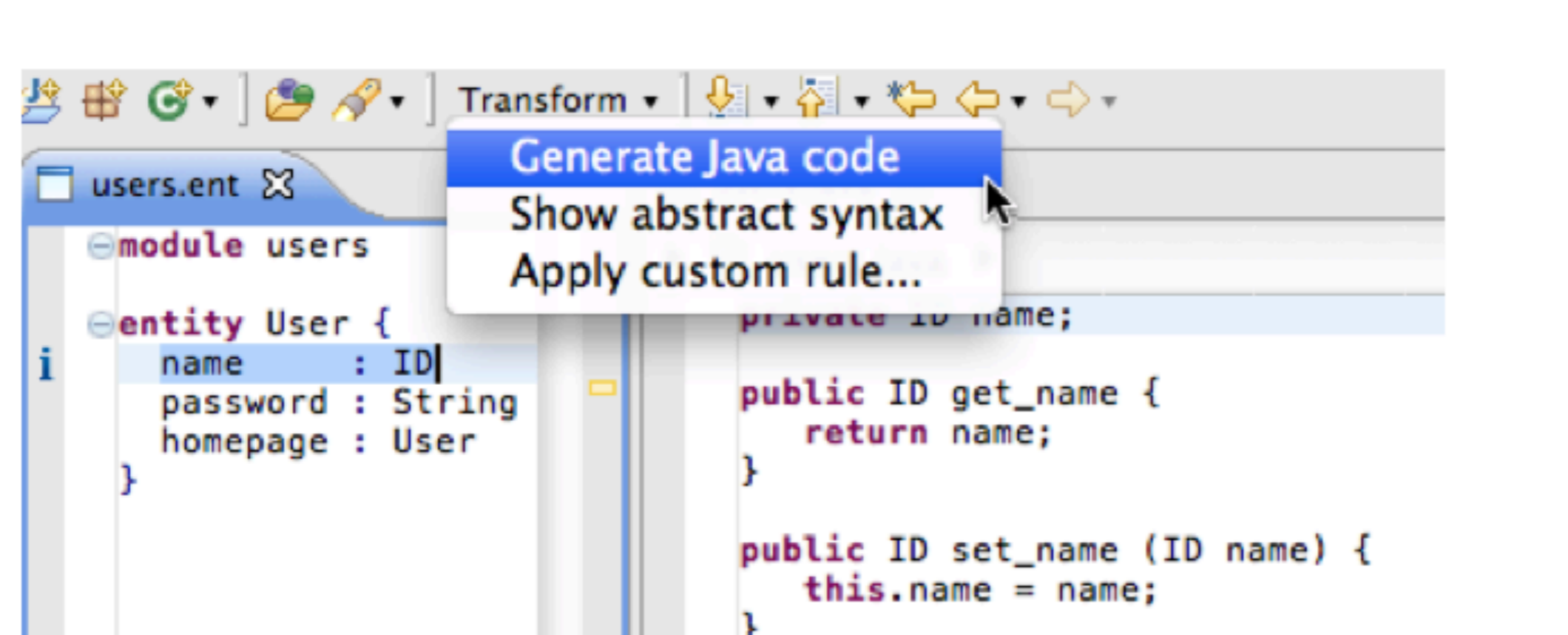
Support reference resolving



Use concise rewrite rules for code generation

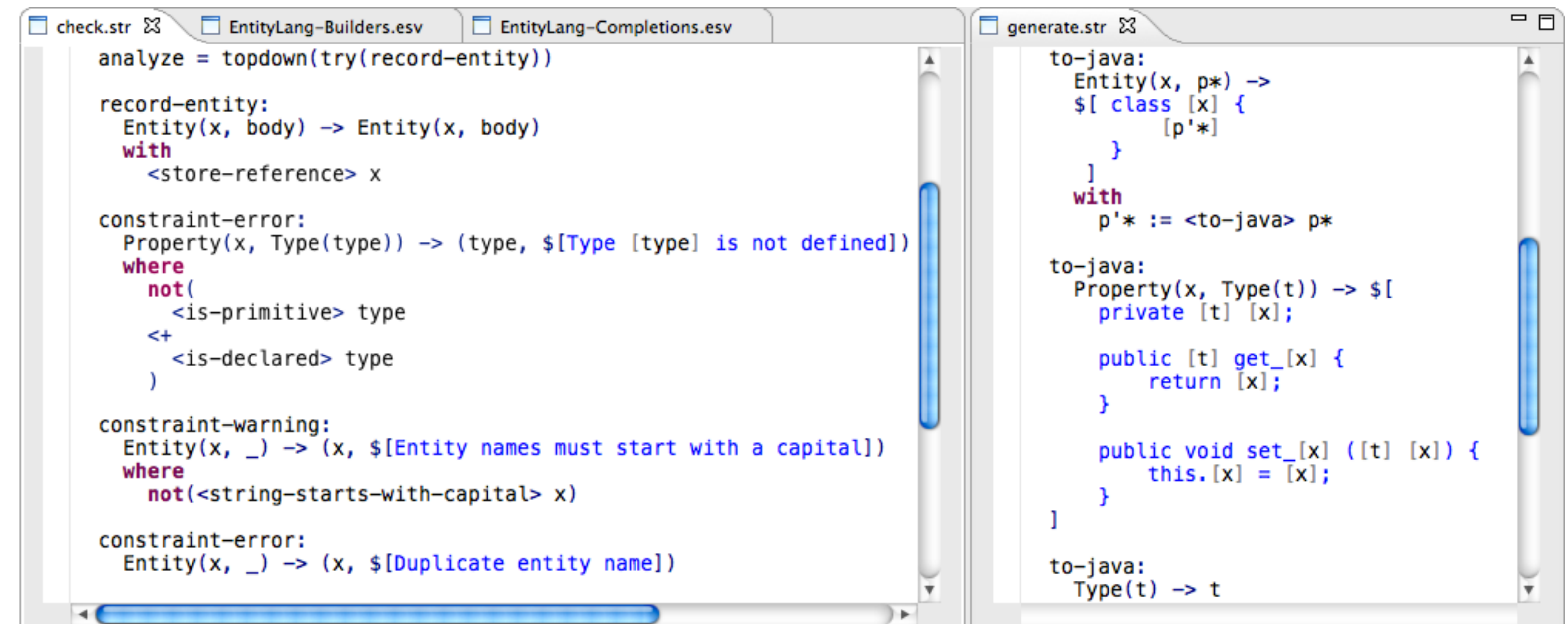


Generate code directly from any editor or selection



Syntax definition with modular, composable SDF grammars

Live abstract syntax view and custom views for transformations



Use Stratego rewrite rules and strategies to define semantic editor services such as error markers, code generation, reference resolving, and content completion.

Other features of Spoofox include:

- Supports the full set of context-free grammars and language composition using SDF and SGLR
- Uses the Eclipse IDE Meta-tooling Platform ([www.eclipse.org/imp](http://www.eclipse.org/imp))
- Plugins created with Spoofox can be extended using pure-Java components when needed