

UML Profiling and DSL Guide

UML is a general purpose visual modeling language for specifying, constructing and documenting the artifacts of systems to be used with all major application domains and implementation platforms. It has been widely adopted by both industry and academia as the standard language for describing software systems.

The MagicDraw UML tool provides the ability to use the DSL engine to adapt domain-specific profiles, enabling you to create your own custom diagrams, custom specification dialogs, custom real-time semantic rules, etc. In other words, you can create a low-budget specialized domain-specific tool and hide the UML underneath.

DSL customization is a model-driven approach, based on UML profiling.

Demo

Related pages

- [Basic Concepts](#)
- [Working with Profiles](#)
 - [Creating Profiles](#)
 - [Specifying Invisible Stereotypes, Tags, and Constraints](#)
 - [Initializing opposite association end](#)
 - [Applying Different Icons for the Same Stereotype](#)
 - [Grouping Tags inside Stereotype](#)
 - [Creating Tags with Default Values](#)
 - [Creating Structured Expression Tags](#)
 - [Applying Stereotypes](#)
 - [Modifying Profile](#)
- [Customizing diagrams](#)
 - [Creating new diagram type](#)
 - [Creating new dependency matrix type](#)
 - [Customizing diagram palette](#)
 - [Creating new relation map type](#)
 - [Creating new generic table type](#)
- [Domain Specific Language customization](#)

- Creating Customization Data
 - Creating your First Customization
 - Customization Elements
 - Cu
 - Cu
 - Do
 - Hid
 - Do
 - Ab
 - Ad
 - Su
 - Sta
 - Sy
 - Pr
 - Customization Element Properties
 - Rules of Stereotypes that cannot be Allowed to Apply
 - Creating Inheritance of DSL Customization
- Using Customization Data
 - Customizing Specification Window
 - Us
 - Alw
 - Me
 - Customizing Element Shortcut Menu
 - Customizing Drag-and-Drop
 - Ca
 - Ca
 - Se
 - Creating Custom Rules for Relationships
 - Defining Preferred Metatype
 - Initializing a Custom Model

- Creating a DSL Element from the Customized Category in the Shortcut Menu
- Customizing Possible Owned Elements
- Creating Element - Specific Help Topics
- Creating a DSL Element from the Shortcut Menu and Other Locations
- Customizing Symbols
- Creating Property Groups and Subgroups
 - «p
 - Ty
 - Me
 - De
- Creating Numbering Customizations
 - Cr
 - Nu
- Extending Metamodel with Derived Properties
 - Cr
 - De
 - Re
 - Ex
 - De

- Distributing custom diagrams
- Distributing Profiles