



# eclipse Modeling Project

A Domain-Specific  
Language (DSL) Toolkit

Richard C. Gronback

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# Eclipse Modeling Project A Domain Specific Language Dsl Toolkit Richard C Gronback

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## **Eclipse Modeling Project A Domain Specific Language Dsl Toolkit Richard C Gronback:**

**Eclipse Modeling Project** Richard C. Gronback, 2009-03-06 Achieve Breakthrough Productivity and Quality with MDD and Eclipse Based DSLs Domain specific languages DSLs and model driven development MDD offer software engineers powerful new ways to improve productivity enhance quality and insulate systems from rapid technological change Now there s a pragmatic start to finish guide to creating DSLs and using MDD techniques with the powerful open source Eclipse platform In Eclipse Modeling Project Richard C Gronback illuminates both the principles and techniques software professionals need to master offering insights that will be invaluable to developers working with any tool or platform As coleader of the Eclipse Modeling Project Gronback is singularly well positioned to demonstrate DSLs and MDD at work in Eclipse Gronback systematically introduces each of the Eclipse technologies that can be used in DSL and MDD development Throughout he introduces key concepts and technologies in the context of a complete worked example and presents new best practices and never before published techniques He also covers Eclipse projects discussed in no other book including Query View Transformation QVT and the Graphical Modeling Framework GMF a project the author personally leads Eclipse Modeling Project gives software practitioners all the knowledge they need to explore the remarkable potential of DSLs and MDD and includes coverage of Why a model based approach enables the rapid customization of high quality solutions within the product line paradigm How the Eclipse Modeling Project s capabilities can be used to efficiently create new DSLs Powerful techniques for developing DSL abstract syntax graphical notation and textual syntax How to build Model to Model M2M and Model to Text M2T transformations including a powerful new M2M implementation of the Object Management Group s QVT Operational Mapping Language OML Efficiently packaging and deploying DSLs with Eclipse Complete reference sections for the Graphical Editing Framework GEF GMF runtime and tooling QVT OML Xpand and more

**Eclipse Modeling Project** Richard C. Gronback, 2009 the first end to end guide to Domain Specific Language DSL and Model Driven Development MDD with Eclipse Shows software developers how to leverage the Eclipse open source platform to gain the state of the art productivity and quality benefits of DSLs and MDD Thoroughly covers the Eclipse Modeling Framework EMF As well as Eclipse projects covered in no other book including GMF and QVT Includes comprehensive examples and code readers can learn from and apply in their own projects Domain Specific Languages DSLs and model driven development MDD offer software engineers powerful new ways to improve productivity enhance quality and insulate systems from rapid technological change Now For the first time there s a pragmatic start to finish guide to creating DSLs and using MDD techniques with Eclipse In Eclipse Modeling Project Richard Gronback illuminates both the principles and techniques software professionals need to master offering insights that will be invaluable to developers working with any tool or platform As co leader of Eclipse s Modeling project and project lead for Eclipse s Graphical Modeling Framework GMF Gronback is singularly well positioned to demonstrate DSLs and MDD at work in Eclipse Gronback systematically introduces

each of the Eclipse technologies that can be used in DSL and MDD development including Eclipse Modeling Framework EMF Model to Text Transformation M2T and many more In particular he presents new best practices for using the Graphical Modeling Framework GMF and neverbefore published techniques for Model to Model Transformation M2M utilizing the Eclipse Query View Transformation component Throughout Gronback introduces key concepts and technologies in the context of a start to finish worked example The result is a book that any software practitioner can use to explore the remarkable potential of DSLs and MDD and to start using these approaches in real world projects

**Eclipse Plug-ins** Eric Clayberg, Dan Rubel, 2008-12-11 Producing a commercial quality plug in means going above and beyond the minimal requirements needed to integrate with Eclipse It means attending to all those details that contribute to the fit and polish of a commercial offering This comprehensive guide covers the entire process of plug in development including all the extra steps needed to achieve the highest quality results Building on two internationally best selling previous editions Eclipse Plug ins Third Edition has been fully revised to reflect the powerful new capabilities of Eclipse 3.4 Leading Eclipse experts Eric Clayberg and Dan Rubel present detailed practical coverage of every aspect of plug in development as well as specific proven solutions for the challenges developers are most likely to encounter All code examples relevant API listings diagrams and screen captures have been thoroughly updated to reflect both the Eclipse 3.4 API and the latest Java syntax In addition Clayberg and Rubel have completely revamped their popular Favorites View case study reworking much of its content and recreating its code from scratch The authors carefully cover new functionality added to existing Eclipse features such as views and editors and fully explain brand new features such as Commands GEF and PDE Build This extensively revised edition Thoroughly covers Eclipse s new preferences Illuminates the powerful new Eclipse Command Framework which replaces Eclipse s older Action Framework Presents extensive new discussions of using commands with views and editors Introduces Mylyn the new task focused interface that reduces information overload and simplifies multi tasking Contains an all new chapter on using the Graphical Editing Framework GEF to build dynamic interactive graphical user interface elements Walks you step by step through the entire PDE Build process Shows how to create update sites with p2 which replaces Eclipse s old Update Manager This book is designed for every experienced developer interested in extending the Eclipse platform the Rational Software Development Platform or any other platform that supports Eclipse plug ins

*Efficiently Conducting Quality-of-Service Analyses by Templating Architectural Knowledge* Lebrig, Sebastian Michael, 2018-04-06 Previously software architects were unable to effectively and efficiently apply reusable knowledge e.g architectural styles and patterns to architectural analyses This work tackles this problem with a novel method to create and apply templates for reusable knowledge These templates capture reusable knowledge formally and can efficiently be integrated in architectural analyses

*Domain-Specific Languages* Andrzej Wąsowski, Thorsten Berger, 2023-02-01 This textbook describes the theory and the pragmatics of using and engineering high level software languages also known as

modeling or domain specific languages DSLs for creating quality software This includes methods design patterns guidelines and testing practices for defining the syntax and the semantics of languages While remaining close to technology the book covers multiple paradigms and solutions avoiding a particular technological silo It unifies the modeling the object oriented and the functional programming perspectives on DSLs The book has 13 chapters Chapters 1 and 2 introduce and motivate DSLs Chapter 3 kicks off the DSL engineering lifecycle describing how to systematically develop abstract syntax by analyzing a domain Chapter 4 addresses the concrete syntax including the systematic engineering of context free grammars Chapters 5 and 6 cover the static semantics with basic constraints as a starting point and type systems for advanced DSLs Chapters 7 Transformation 8 Interpretation and 9 Generation describe different paradigms for designing and implementing the dynamic semantics while covering testing and other kinds of quality assurance Chapter 10 is devoted to internal DSLs Chapters 11 to 13 show the application of DSLs and engage with simpler alternatives to DSLs in a highly distinguished domain software variability These chapters introduce the underlying notions of software product lines and feature modeling The book has been developed based on courses on model driven software engineering MDSE and DSLs held by the authors It aims at senior undergraduate and junior graduate students in computer science or software engineering Since it includes examples and lessons from industrial and open source projects as well as from industrial research practitioners will also find it a useful reference The numerous examples include code in Scala 3 ATL Alloy C F Groovy Java JavaScript Kotlin OCL Python QVT Ruby and Xtend The book contains as many as 277 exercises The associated code repository facilitates learning and using the examples in a course

*Eclipse Modeling Project* Richard C. Gronback, 1900 This is the eBook version of the printed book If the print book includes a CD ROM this content is not included within the eBook version Achieve Breakthrough Productivity and Quality with MDD and Eclipse based DSLs Domain Specific Languages DSLs and model driven development MDD offer software engineers powerful new ways to improve productivity enhance quality and insulate systems from rapid technological change Now there s a pragmatic start to finish guide to creating DSLs and using MDD techniques with the powerful open source Eclipse platform In Eclipse Modeling Project Richa

**Fundamental Approaches to Software Engineering** Reiner Hähnle, Wil van der Aalst, 2019-04-03 This book is Open Access under a CC BY licence This book constitutes the proceedings of the 22nd International Conference on Fundamental Approaches to Software Engineering FASE 2019 which took place in Prague Czech Republic in April 2019 held as Part of the European Joint Conferences on Theory and Practice of Software ETAPS 2019 The 24 papers presented in this volume were carefully reviewed and selected from 94 submissions The papers are organized in topical sections named software verification model driven development and model transformation software evolution and requirements engineering specification design and implementation of particular classes of systems and software testing

**Leveraging Applications of Formal Methods, Verification and Validation. Modeling** Tiziana Margaria, Bernhard Steffen, 2018-10-28 The four volume set LNCS 11244 11245 11246 and 11247

constitutes the refereed proceedings of the 8th International Symposium on Leveraging Applications of Formal Methods Verification and Validation ISOFA 2018 held in Limassol Cyprus in October November 2018 The papers presented were carefully reviewed and selected for inclusion in the proceedings Each volume focusses on an individual topic with topical section headings within the volume Part I Modeling Towards a unified view of modeling and programming X by construction STRESS 2018 Part II Verification A broader view on verification from static to runtime and back evaluating tools for software verification statistical model checking RERS 2018 doctoral symposium Part III Distributed Systems rigorous engineering of collective adaptive systems verification and validation of distributed systems and cyber physical systems engineering Part IV Industrial Practice runtime verification from the theory to the industry practice formal methods in industrial practice bridging the gap reliable smart contracts state of the art applications challenges and future directions and industrial day

*Research Anthology on Agile Software, Software Development, and Testing* Management Association, Information Resources, 2021-11-26 Software development continues to be an ever evolving field as organizations require new and innovative programs that can be implemented to make processes more efficient productive and cost effective Agile practices particularly have shown great benefits for improving the effectiveness of software development and its maintenance due to their ability to adapt to change It is integral to remain up to date with the most emerging tactics and techniques involved in the development of new and innovative software The Research Anthology on Agile Software Software Development and Testing is a comprehensive resource on the emerging trends of software development and testing This text discusses the newest developments in agile software and its usage spanning multiple industries Featuring a collection of insights from diverse authors this research anthology offers international perspectives on agile software Covering topics such as global software engineering knowledge management and product development this comprehensive resource is valuable to software developers software engineers computer engineers IT directors students managers faculty researchers and academicians

The Data Bonanza Malcolm Atkinson, Rob Baxter, Peter Brezany, Oscar Corcho, Michelle Galea, Mark Parsons, David Snelling, Jano van Hemert, 2013-03-19 Complete guidance for mastering the tools and techniques of the digital revolution With the digital revolution opening up tremendous opportunities in many fields there is a growing need for skilled professionals who can develop data intensive systems and extract information and knowledge from them This book frames for the first time a new systematic approach for tackling the challenges of data intensive computing providing decision makers and technical experts alike with practical tools for dealing with our exploding data collections Emphasizing data intensive thinking and interdisciplinary collaboration The Data Bonanza Improving Knowledge Discovery in Science Engineering and Business examines the essential components of knowledge discovery surveys many of the current research efforts worldwide and points to new areas for innovation Complete with a wealth of examples and DISPEL based methods demonstrating how to gain more from data in real world systems the book Outlines the concepts and rationale for implementing data intensive

computing in organizations Covers from the ground up problem solving strategies for data analysis in a data rich world Introduces techniques for data intensive engineering using the Data Intensive Systems Process Engineering Language DISPEL Features in depth case studies in customer relations environmental hazards seismology and more Showcases successful applications in areas ranging from astronomy and the humanities to transport engineering Includes sample program snippets throughout the text as well as additional materials on a companion website The Data Bonanza is a must have guide for information strategists data analysts and engineers in business research and government and for anyone wishing to be on the cutting edge of data mining machine learning databases distributed systems or large scale computing

**Code Generation, Analysis Tools, and Testing for Quality** Alexandre Peixoto de Queirós, Ricardo Simões, Alberto Pinto, Mário Teixeira, 2019-01-11 Despite the advances that have been made in programming there is still a lack of sufficient methods for quality control While code standards try to force programmers to follow a specific set of rules few tools exist that really deal with automatic refactoring of this code and evaluation of the coverage of these tests is still a challenge Code Generation Analysis Tools and Testing for Quality is an essential reference source that discusses the generation and writing of computer programming and methods of quality control such as analysis and testing Featuring research on topics such as programming languages quality assessment and automated development this book is ideally designed for academicians practitioners computer science teachers enterprise developers and researchers seeking coverage on code auditing strategies and methods HDI2010 - Tagungsband der 4. Fachtagung zur "Hochschuldidaktik Informatik" Dieter Engbring, 2010 Mit der 4 Tagung zur Hochschuldidaktik Informatik wird eine Reihe fortgesetzt die ihren Anfang 1998 in Stuttgart unter der berschrift Informatik und Ausbildung genommen hat Seither dienen diese Tagungen den Lehrenden im Bereich der Hochschul informatik als Forum der Information und des Diskurses ber aktuelle didaktische und bildungspolitische Entwicklungen im Bereich der Informatikausbildung Aktuell z hlen dazu insbesondere Fragen der Bildungsrelevanz informatischer Inhalte und der Herausforderung durch eine st rkere Kompetenzorientierung in der Informatik Die eingereichten Beitr ge zur HDI 2010 in Paderborn veranschaulichen unterschiedliche Bem hungen sich mit relevanten Problemen der Informatikdidaktik an Hochschulen in Deutschland und z T auch im Ausland auseinanderzusetzen Aus der Breite des Spektrums der Einreichungen ergaben sich zugleich Probleme bei der Begutachtung Letztlich konnten von den zahlreichen Einreichungen nur drei die Gutachter so berzeugen dass sie uneingeschr nkt in ihrer Langfassung akzeptiert wurden Neun weitere Einreichungen waren trotz Kritik berwiegend positiv begutachtet worden so dass wir diese als Kurzfassung bzw Diskussionspapier in die Tagung aufgenommen haben **Eclipse Modeling Project** Gronback, 2009

*Domain-Specific Development with Visual Studio DSL Tools* Steve Cook, Gareth Jones, Stuart Kent, Alan Cameron Wills, 2007-05-24 Domain Specific Languages DSLs languages geared to specific vertical or horizontal areas of interest are generating growing excitement from software engineers and architects DSLs bring new agility to the creation and evolution

of software allowing selected design aspects to be expressed in terms much closer to the system requirements than standard program code significantly reducing development costs in large scale projects and product lines In this breakthrough book four leading experts reveal exactly how DSLs work and how you can make the most of them in your environment With Domain Specific Development with Visual Studio DSL Tools you ll begin by mastering DSL concepts and techniques that apply to all platforms Next you ll discover how to create and use DSLs with the powerful new Microsoft DSL Tools a toolset designed by this book s authors Learn how the DSL Tools integrate into Visual Studio and how to define DSLs and generate Visual Designers using Visual Studio s built in modeling technology In depth coverage includes Determining whether DSLs will work for you Comparing DSLs with other approaches to model driven development Defining tuning and evolving DSLs models presentation creation updates serialization constraints validation and more Creating Visual Designers for new DSLs with little or no coding Multiplying productivity by generating application code from your models with easy to use text templates Automatically generating configuration files resources and other artifacts Deploying Visual Designers across the organization quickly and easily Customizing Visual Designers for specialized process needs List of Figures List of Tables Foreword Preface About the Authors Chapter 1 Domain Specific Development Chapter 2 Creating and Using DSLs Chapter 3 Domain Model Definition Chapter 4 Presentation Chapter 5 Creation Deletion and Update Behavior Chapter 6 Serialization Chapter 7 Constraints and Validation Chapter 8 Generating Artifacts Chapter 9 Deploying a DSL Chapter 10 Advanced DSL Customization Chapter 11 Designing a DSL Index

**Domain-Specific Modeling** Steven Kelly, Juha-Pekka Tolvanen, 2008-04-11 The authors are pioneers Few in our industry have their breadth of knowledge and experience From the Foreword by Dave Thomas Bedarra Labs Domain Specific Modeling DSM is the latest approach to software development promising to greatly increase the speed and ease of software creation Early adopters of DSM have been enjoying productivity increases of 500 1000% in production for over a decade This book introduces DSM and offers examples from various fields to illustrate to experienced developers how DSM can improve software development in their teams Two authorities in the field explain what DSM is why it works and how to successfully create and use a DSM solution to improve productivity and quality Divided into four parts the book covers background and motivation fundamentals in depth examples and creating DSM solutions There is an emphasis throughout the book on practical guidelines for implementing DSM including how to identify the necessary language constructs how to generate full code from models and how to provide tool support for a new DSM language The example cases described in the book are available the book s Website [www.dsmbook.com](http://www.dsmbook.com) along with an evaluation copy of the MetaEdit tool for Windows Mac OS X and Linux which allows readers to examine and try out the modeling languages and code generators Domain Specific Modeling is an essential reference for lead developers software engineers architects methodologists and technical managers who want to learn how to create a DSM solution and successfully put it into practice

**Domain-Specific Languages in Practice** Antonio Bucchiarone, Antonio



Cicchetti, Federico Ciccozzi, Alfonso Pierantonio, 2021-06-24 This book covers several topics related to domain specific language DSL engineering in general and how they can be handled by means of the JetBrains Meta Programming System MPS an open source language workbench developed by JetBrains over the last 15 years The book begins with an overview of the domain of language workbenches which provides perspectives and motivations underpinning the creation of MPS Moreover technical details of the language underneath MPS together with the definition of the tool s main features are discussed The remaining ten chapters are then organized in three parts each dedicated to a specific aspect of the topic Part I MPS in Industrial Applications deals with the challenges and inadequacies of general purpose languages used in companies as opposed to the reasons why DSLs are essential together with their benefits and efficiency and summarizes lessons learnt by using MPS Part II about MPS in Research Projects covers the benefits of text based languages the design and development of gamification applications and research fields with generally low expertise in language engineering Eventually Part III focuses on Teaching and Learning with MPS by discussing the organization of both commercial and academic courses on MPS MPS is used to implement languages for real world use Its distinguishing feature is projectional editing which supports practically unlimited language extension and composition possibilities as well as a flexible mix of a wide range of textual tabular mathematical and graphical notations The number and diversity of the presented use cases demonstrate the strength and malleability of the DSLs defined using MPS The selected contributions represent the current state of the art and practice in using JetBrains MPS to implement languages for real world applications

Eclipse Modeling Project A Domain Specific Language Dsl Toolkit Richard C Gronback: Bestsellers in 2023 The year 2023 has witnessed a remarkable surge in literary brilliance, with numerous compelling novels enthraling the hearts of readers worldwide. Lets delve into the realm of bestselling books, exploring the fascinating narratives that have captivated audiences this year. Eclipse Modeling Project A Domain Specific Language Dsl Toolkit Richard C Gronback : Colleen Hoovers "It Ends with Us" This poignant tale of love, loss, and resilience has captivated readers with its raw and emotional exploration of domestic abuse. Hoover masterfully weaves a story of hope and healing, reminding us that even in the darkest of times, the human spirit can succeed. Uncover the Best : Taylor Jenkins Reids "The Seven Husbands of Evelyn Hugo" This captivating historical fiction novel unravels the life of Evelyn Hugo, a Hollywood icon who defies expectations and societal norms to pursue her dreams. Reids absorbing storytelling and compelling characters transport readers to a bygone era, immersing them in a world of glamour, ambition, and self-discovery. Eclipse Modeling Project A Domain Specific Language Dsl Toolkit Richard C Gronback : Delia Owens "Where the Crawdads Sing" This captivating coming-of-age story follows Kya Clark, a young woman who grows up alone in the marshes of North Carolina. Owens crafts a tale of resilience, survival, and the transformative power of nature, captivating readers with its evocative prose and mesmerizing setting. These top-selling novels represent just a fraction of the literary treasures that have emerged in 2023. Whether you seek tales of romance, adventure, or personal growth, the world of literature offers an abundance of captivating stories waiting to be discovered. The novel begins with Richard Papen, a bright but troubled young man, arriving at Hampden College. Richard is immediately drawn to the group of students who call themselves the Classics Club. The club is led by Henry Winter, a brilliant and charismatic young man. Henry is obsessed with Greek mythology and philosophy, and he quickly draws Richard into his world. The other members of the Classics Club are equally as fascinating. Bunny Corcoran is a wealthy and spoiled young man who is always looking for a good time. Charles Tavis is a quiet and reserved young man who is deeply in love with Henry. Camilla Macaulay is a beautiful and intelligent young woman who is drawn to the power and danger of the Classics Club. The students are all deeply in love with Morrow, and they are willing to do anything to please him. Morrow is a complex and mysterious figure, and he seems to be manipulating the students for his own purposes. As the students become more involved with Morrow, they begin to commit increasingly dangerous acts. The Secret History is a masterful and suspenseful novel that will keep you wondering until the very end. The novel is a warning tale about the dangers of obsession and the power of evil.

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