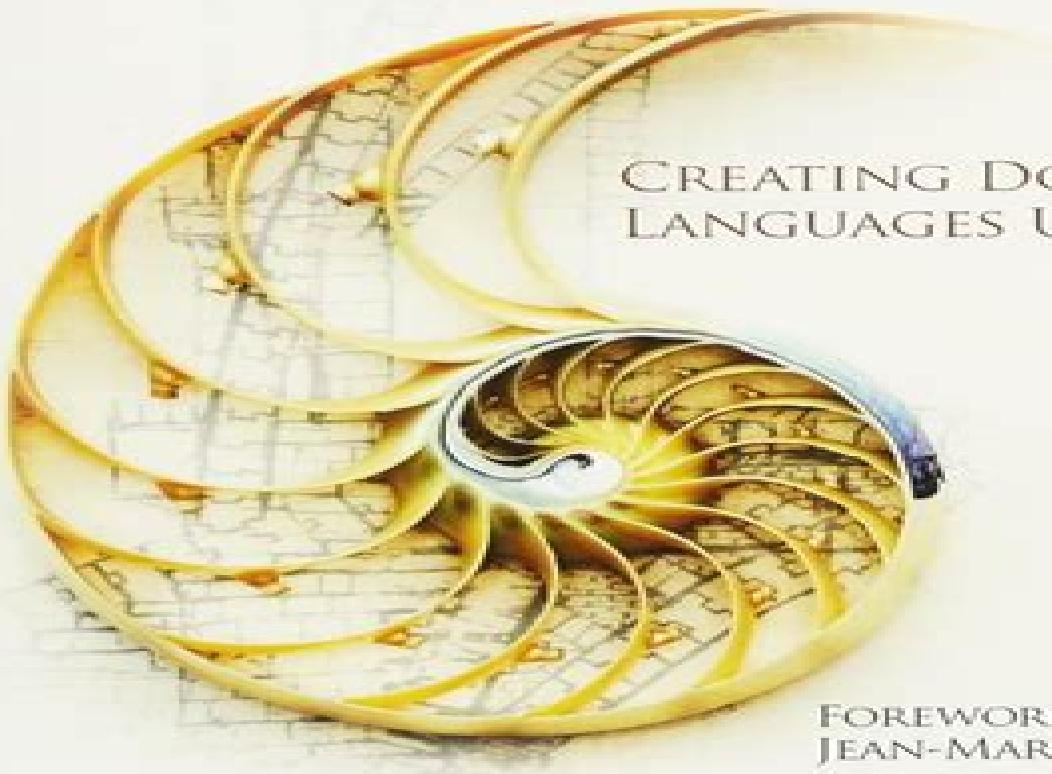




# SOFTWARE LANGUAGE ENGINEERING



CREATING DOMAIN-SPECIFIC  
LANGUAGES USING METAMODELS

ANNEKE KLEPPE

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# Software Language Engineering Creating Domain Specific Languages Using Metamodels

**Mário Marques Freire,Manuela Periera**

## **Software Language Engineering Creating Domain Specific Languages Using Metamodels:**

### **Software Language Engineering: Creating Domain-Specific Languages Using Metamodels** Anneke G.

Kleppe,2008 *Software Language Engineering* Anneke Kleppe,2008-12-09 Software practitioners are rapidly discovering the immense value of Domain Specific Languages DSLs in solving problems within clearly definable problem domains Developers are applying DSLs to improve productivity and quality in a wide range of areas such as finance combat simulation macro scripting image generation and more But until now there have been few practical resources that explain how DSLs work and how to construct them for optimal use Software Language Engineering fills that need Written by expert DSL consultant Anneke Kleppe this is the first comprehensive guide to successful DSL design Kleppe systematically introduces and explains every ingredient of an effective language specification including its description of concepts how those concepts are denoted and what those concepts mean in relation to the problem domain Kleppe carefully illuminates good design strategy showing how to maximize the flexibility of the languages you create She also demonstrates powerful techniques for creating new DSLs that cooperate well with general purpose languages and leverage their power Completely tool independent this book can serve as the primary resource for readers using Microsoft DSL tools the Eclipse Modeling Framework openArchitectureWare or any other DSL toolset It contains multiple examples an illustrative running case study and insights and background information drawn from Kleppe's leading edge work as a DSL researcher Specific topics covered include Discovering the types of problems that DSLs can solve and when to use them Comparing DSLs with general purpose languages frameworks APIs and other approaches Understanding the roles and tools available to language users and engineers Creating each component of a DSL specification Modeling both concrete and abstract syntax Understanding and describing language semantics Defining textual and visual languages based on object oriented metamodeling and graph transformations Using metamodels and associated tools to generate grammars Integrating object oriented modeling with graph theory Building code generators for new languages Supporting multilanguage models and programs This book provides software engineers with all the guidance they need to create DSLs that solve real problems more rapidly and with higher quality code

Software Languages Ralf Lämmel,2018-05-17 This book identifies defines and illustrates the fundamental concepts and engineering techniques relevant to applications of software languages in software development It presents software languages primarily from a software engineering perspective i e it addresses how to parse analyze transform generate format and otherwise process software artifacts in different software languages as they appear in software development To this end it covers a wide range of software languages most notably programming languages domain specific languages modeling languages exchange formats and specifically also language definition languages Further different languages are leveraged to illustrate software language engineering concepts and techniques The functional programming language Haskell dominates the book while the mainstream programming languages Python and Java are

additionally used for illustration By doing this the book collects and organizes scattered knowledge from software language engineering focusing on application areas such as software analysis software reverse engineering software transformation software re engineering software composition modularity and domain specific languages It is designed as a textbook for independent study as well as for bachelor s advanced level or master s university courses in Computer Science An additional website provides complementary material for example lecture slides and videos This book is a valuable resource for anyone wanting to understand the fundamental concepts and important engineering principles underlying software languages allowing them to acquire much of the operational intelligence needed for dealing with software languages in software development practice This is an important skill set for software engineers as languages are increasingly permeating software development

**Formal and Practical Aspects of Domain-Specific Languages: Recent Developments** Mernik, Marjan,2012-09-30 This book presents current research on all aspects of domain specific language for scholars and practitioners in the software engineering fields providing new results and answers to open problems in DSL research

Software Technologies: Applications and Foundations Martina Seidl,Steffen Zschaler,2018-01-29 This book contains the thoroughly refereed technical papers presented in six workshops collocated with the International Conference on Software Technologies Applications and Foundations STAF 2017 held in Marburg Germany in July 2017 The 15 full and 22 short papers presented were carefully reviewed and selected from 37 submissions The events whose papers are included in this volume are BigMDE 2017 5th International Workshop on Scalable Model Driven Engineering GCM 2017 8th International Workshop on Graph Computation Models GRAND 2017 1st International Workshop on Grand Challenges in Modeling MORSE 2017 4th International Workshop on Model driven Robot Software Engineering OCL 2017 17th International Workshop in OCL and Textual Modeling STAF Projects Showcase 2017 3rd event dedicated to international and national project dissemination and cooperation

Software Design and Development: Concepts, Methodologies, Tools, and Applications Management Association, Information Resources,2013-07-31 Innovative tools and techniques for the development and design of software systems are essential to the problem solving and planning of software solutions Software Design and Development Concepts Methodologies Tools and Applications brings together the best practices of theory and implementation in the development of software systems This reference source is essential for researchers engineers practitioners and scholars seeking the latest knowledge on the techniques applications and methodologies for the design and development of software systems

**SOFSEM 2017: Theory and Practice of Computer Science** Bernhard Steffen,Christel Baier,Mark van den Brand,Johann Eder,Mike Hinchey,Tiziana Margaria,2017-01-09 This book constitutes the refereed proceedings of the 43rd International Conference on Current Trends in Theory and Practice of Computer Science SOFSEM 2017 held in Limerick Ireland in January 2017 The 34 papers presented in this volume were carefully reviewed and selected from 41 submissions They were organized in topical sections named foundations in computer science semantics

specification and compositionality theory of mobile and distributed systems verification and automated system analysis petri nets games and relaxed data structures graph theory and scheduling algorithms quantum and matrix algorithms planar and molecular graphs coloring and vertex covers algorithms for strings and formal languages data information and knowledge engineering and software engineering methods tools applications

**The French School of Programming** Bertrand Meyer, 2024-04-29 The French School of Programming is a collection of insightful discussions of programming and software engineering topics by some of the most prestigious names of French computer science. The authors include several of the originators of such widely acclaimed inventions as abstract interpretation the Caml OCaml and Eiffel programming languages the Coq proof assistant agents and modern testing techniques. The book is divided into four parts Software Engineering A Programming Language Mechanisms and Type Systems B Theory C and Language Design and Programming Methodology D. They are preceded by a Foreword by Bertrand Meyer the editor of the volume a Preface by Jim Woodcock providing an outsider's appraisal of the French school's contribution and an overview chapter by Gérard Berry recalling his own intellectual journey. Chapter 2 by Marie Claude Gaudel presents a 30 year perspective on the evolution of testing starting with her own seminal work. In chapter 3 Michel Raynal covers distributed computing with an emphasis on simplicity. Chapter 4 by Jean Marc Jazergel former director of IRISA presents the evolution of modeling from CASE tools to SLE and Machine Learning. Chapter 5 by Joëlle Coutaz is a comprehensive review of the evolution of Human Computer Interaction. In part B chapter 6 by Jean Pierre Briot describes the sequence of abstractions that led to the concept of agent. Chapter 7 by Pierre Louis Curien is a personal account of a journey through fundamental concepts of semantics syntax and types. In chapter 8 Thierry Coquand presents some remarks on dependent type theory. Part C begins with Patrick Cousot's personal historical perspective on his well known creation abstract interpretation in chapter 9. Chapter 10 by Jean Jacques Lévy is devoted to tracking redexes in the Lambda Calculus. The final chapter of that part chapter 11 by Jean Pierre Jouannaud presents advances in rewriting systems specifically the confluence of terminating rewriting computations. Part D contains two longer contributions Chapter 12 is a review by Giuseppe Castagna of a broad range of programming topics relying on union intersection and negation types. In the final chapter Bertrand Meyer covers ten choices in language design for object oriented programming distinguishing between right and wrong resolutions of these issues and explaining the rationale behind Eiffel's decisions. This book will be of special interest to anyone with an interest in modern views of programming on such topics as programming language design the relationship between programming and type theory object oriented principles distributed systems testing techniques rewriting systems human computer interaction software verification and in the insights of a brilliant group of innovators in the field.

*Enterprise, Business-Process and Information Systems Modeling* Khaled Gaaloul, Rainer Schmidt, Selmin Nurcan, Sérgio Guerreiro, Qin Ma, 2015-05-26 This book contains the refereed proceedings of the 16th International Conference on Business Process Modeling Development and Support BPMDS 2015 and the 20th

International Conference on Exploring Modeling Methods for Systems Analysis and Design EMMSAD 2015 held together with the 27th International Conference on Advanced Information Systems Engineering CAiSE 2015 in Stockholm Sweden in June 2015 The 17 full papers accepted for BPMDS were selected from 43 submissions and cover a wide spectrum of issues related to business process development modeling and support They are grouped into topical sections on enabling value creation human centric paradigms mining for processes declarative approaches understanding and sharing quality and security issues and new areas for BPMDS The 12 full and three short papers accepted for EMMSAD were chosen from 33 submissions and focus on exploring evaluating and enhancing modeling methods and methodologies for the analysis and design of information systems enterprises and business processes They are grouped into topical sections on fundamental issues in modeling requirements and regulations enterprise and software ecosystem modeling information and process model quality meta modeling and domain specific modeling and model composition modeling of architecture and design and novel applications of modeling

**Proceedings, 11th IEEE International Conference and Workshop on the Engineering of Computer-Based Systems** Vaclav Dvorak,Miroslav Sveda,2004

**Domain-Specific Languages in Practice** Antonio

Buccharone,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

*The British National Bibliography* Arthur James Wells,2009

**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

**ACM Transactions on Software Engineering and Methodology** ,2005 Proceedings, IEEE Control Systems Society ... Symposium on Computer-Aided Control System Design (CACSD) ,2000

**Object-oriented Technology** ,2004 **Encyclopedia of Internet Technologies and Applications**

Mário Marques Freire, Manuela Periera, 2008 This book is the single source for information on the world's greatest network and provides a wealth of information for the average Internet consumer as well as for experts in the field of networking and Internet technologies. It provides the most thorough examination of Internet technologies and applications for researchers in a variety of related fields. Provided by publisher

*Working Notes from the 1992 AAAI Workshop on Automating Software Design. Theme: Domain Specific Software Design* ,1992 **Dissertation Abstracts International**

,1999 **Global Business** Mehdi Khosrowpour, Information Resources Management Association, 2011-01-01 This multi volume reference examines critical issues and emerging trends in global business with topics ranging from managing new information technology in global business operations to ethics and communication strategies. Provided by publisher

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