

SOFTWARE LANGUAGE ENGINEERING

CREATING DOMAIN-SPECIFIC
LANGUAGES USING METAMODELS

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Software Language Engineering Creating Domain Specific Languages Using Metamodels

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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

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

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 Language Engineering Dragan Gašević, Ralf Lämmel, Eric Van Wyk, 2009-04-02 This book constitutes the thoroughly refereed post conference proceedings of the First International Conference on Software Language Engineering SLE 2008 held in Toulouse France in September 2008 The 16 revised full papers and 1 revised short paper presented together with 1 tool demonstration paper and 2 keynote lectures were carefully reviewed and selected from 106 initial submissions The papers are organized in topical sections on language and tool analysis and evaluation concrete and abstract syntax language engineering techniques language integration and transformation language implementation and analysis as well as language engineering pearls

Software Language Engineering Martin Erwig, Richard F. Paige, Eric Van Wyk, 2013-10-21 This book constitutes the refereed proceedings of the 6th International Conference on Software Language Engineering SLE 2013 held in Indianapolis IN USA in October 2013 The 17 technical papers presented together with 2 tool demonstration papers and one keynote were carefully reviewed and selected from 56 submissions SLE's foremost mission is to encourage synthesize and organize communication between communities that have traditionally looked at software languages from different and yet complementary perspectives The papers are organized in topical sections on domain specific languages language patterns and evolution grammars tools language analysis and meta and megamodelling

Domain-Specific Modelling for Coordination Engineering Stefan Gudenkauf, 2012-11-29

Model Driven Engineering Languages and Systems Dorina C. Petriu, Nicolas Rouquette, Øystein Haugen, 2010-09-27 This book is part II of a two volume work that contains the refereed proceedings of the 13th International Conference on Model Driven Engineering Languages and Systems MODELS 2010 held in Oslo Norway during October 3 8 2010 The 54 revised full papers presented were carefully reviewed and selected from 252

submissions The papers are organized in topical sections on genericity and generalization model migration and incremental manipulation modeling model transformations verifying consistency and conformance taming modeling complexity modeling user system interaction model driven quality assurance managing variability multi modeling approaches distributed embedded software development de composition and refactoring model change meta models at runtime requirements engineering slicing and model transformations incorporating quality concerns in MDD model driven engineering in practice and modeling architecture

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 Methods for Model-Driven Engineering Marco Bernardo, Vittorio Cortellessa, Alfonso Pierantonio, 2012-06-26 This book presents 11 tutorial lectures by leading researchers given at the 12th edition of the International School on Formal Methods for the Design of Computer Communication and Software Systems SFM 2012 held in Bertinoro Italy in June 2012 SFM 2012 was devoted to model driven engineering and covered several topics including modeling languages model transformations functional and performance modeling and analysis and model evolution management

Whispering the Strategies of Language: An Mental Quest through **Software Language Engineering Creating Domain Specific Languages Using Metamodels**

In a digitally-driven world wherever displays reign great and immediate conversation drowns out the subtleties of language, the profound secrets and emotional nuances concealed within words often go unheard. Yet, set within the pages of **Software Language Engineering Creating Domain Specific Languages Using Metamodels** a charming fictional prize blinking with organic feelings, lies a fantastic journey waiting to be undertaken. Published by a skilled wordsmith, that charming opus invites readers on an introspective trip, delicately unraveling the veiled truths and profound influence resonating within ab muscles material of every word. Within the psychological depths of the moving evaluation, we can embark upon a genuine exploration of the book is key subjects, dissect their fascinating writing design, and fail to the effective resonance it evokes deep within the recesses of readers hearts.

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