Implementing Domain-Specific Languages with Xtext and Xtend

Learn how to implement a DSL with Xtext and Xtend using easy-to-understand examples and best practices

Lorenzo Bettini

Implementing Domain Specific Languages With Xtext And Xtend

Juergen Dingel,Wolfram Schulte,Isidro Ramos,Silvia Abrahao,Emilio Insfran

Implementing Domain Specific Languages With Xtext And Xtend:

   Implementing Domain-Specific Languages with Xtext and Xtend Lorenzo Bettini,2016-08-31 Learn how to implement a DSL with Xtext and Xtend using easy to understand examples and best practices About This Book Leverage the latest features of Xtext and Xtend to develop a domain specific language Integrate Xtext with popular third party IDEs and get the best out of both worlds Discover how to test a DSL implementation and how to customize runtime and IDE aspects of the DSL Who This Book Is For This book is targeted at programmers and developers who want to create a domain specific language with Xtext They should have a basic familiarity with Eclipse and its functionality Previous experience with compiler implementation can be helpful but is not necessary since this book will explain all the development stages of a DSL What You Will Learn Write Xtext grammar for a DSL Use Xtend as an alternative to Java to write cleaner easier to read and more maintainable code Build your Xtext DSLs easily with Maven Tycho and Gradle Write a code generator and an interpreter for a DSL Explore the Xtext scoping mechanism for symbol resolution Test most aspects of the DSL implementation with JUnit Understand best practices in DSL implementations with Xtext and Xtend Develop your Xtext DSLs using Continuous Integration mechanisms Use an Xtext editor in a web application In Detail Xtext is an open source Eclipse framework for implementing domain specific languages together with IDE functionalities It lets you implement languages really quickly most of all it covers all aspects of a complete language infrastructure including the parser code generator interpreter and more This book will enable you to implement Domain Specific Languages DSL efficiently together with their IDE tooling with Xtext and Xtend Opening with brief coverage of Xtext features involved in DSL implementation including integration in an IDE the book will then introduce you to Xtend as this language will be used in all the examples throughout the book You will then explore the typical programming development workflow with Xtext when we modify the grammar of the DSL Further the Xtend programming language a fully featured Java like language tightly integrated with Java will be introduced We then explain the main concepts of Xtext such as validation code generation and customizations of runtime and UI aspects You will have learned how to test a DSL implemented in Xtext with JUnit and will progress to advanced concepts such as type checking and scoping You will then integrate the typical Continuous Integration systems built in to Xtext DSLs and familiarize yourself with Xbase By the end of the book you will manually maintain the EMF model for an Xtext DSL and will see how an Xtext DSL can also be used in IntelliJ Style and approach A step by step tutorial with illustrative examples that will let you master using Xtext and implementing DSLs with its custom language Xtend   **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 *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

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   Variable Domain-specific Software Languages with DjDSL Stefan Sobernig,2020-07-09 This book details the conceptual foundations design and implementation of the domain specific language DSL development system DjDSL DjDSL facilitates design decision making on and implementation of reusable DSL and DSL product lines and represents the state of the art in language based and composition based DSL development As such it unites elements at the crossroads between software language engineering model driven software engineering and feature oriented software engineering The book is divided into six chapters Chapter 1 DSL as Variable Software explains the notion of DSL as variable software in greater detail and introduces readers to the idea of software product line engineering for DSL based software systems Chapter 2 Variability Support in DSL Development sheds light on a number of interrelated dimensions of DSL variability variable development processes variable design decisions and variability implementation techniques for DSL The three subsequent chapters are devoted to the key conceptual and technical contributions of DjDSL Chapter 3 Variable Language Models explains how to design and implement the abstract syntax of a DSL in a variable manner Chapter 4 Variable Context Conditions then provides the means to refine an abstract syntax language model by using composable context conditions invariants Next Chapter 5 Variable Textual Syntaxes details solutions to implementing variable textual syntaxes for different types of DSL In closing Chapter 6 A Story of a DSL Family shows how to develop a mixed DSL in a step by step manner demonstrating how the previously introduced

techniques can be employed in an advanced example of developing a DSL family The book is intended for readers interested in language oriented as well as model driven software development including software engineering researchers and advanced software developers alike An understanding of software engineering basics architecture design implementation testing and software patterns is essential Readers should especially be familiar with the basics of object oriented modelling UML MOF Ecore and programming e g Java   Model-Driven Engineering Languages and Systems Juergen Dingel,Wolfram Schulte,Isidro Ramos,Silvia Abrahao,Emilio Insfran,2014-09-19 This book constitutes the refereed proceedings of the 17th International Conference on Model Driven Engineering Languages and Systems MODELS 2014 held in Valencia Spain in September October 2014 The 41 full papers presented in this volume were carefully reviewed and selected from a total of 126 submissions The scope of the conference series is broad encompassing modeling languages methods tools and applications considered from theoretical and practical angles and in academic and industrial settings The papers report on the use of modeling in a wide range of cloud mobile and web computing model transformation behavioral modeling MDE past present future formal semantics specification and verification models at runtime feature and variability modeling composition and adaptation practices and experience modeling for analysis pragmatics model extraction manipulation and persistence querying and reasoning   Leveraging Applications of Formal Methods, Verification and Validation: Engineering Principles Tiziana Margaria,Bernhard Steffen,2020-10-26 The three volume set LNCS 12476 12478 constitutes the refereed proceedings of the 9th International Symposium on Leveraging Applications of Formal Methods ISoLA 2020 which was planned to take place during October 20 30 2020 on Rhodes Greece The event itself was postponed to 2021 due to the COVID 19 pandemic 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 Verification Principles Modularity and De Composition in Verification X by Construction Correctness meets Probability 30 Years of Statistical Model Checking Verification and Validation of Concurrent and Distributed Systems Part II Engineering Principles Automating Software Re Engineering Rigorous Engineering of Collective Adaptive Systems Part III Applications Reliable Smart Contracts State of the art Applications Challenges and Future Directions Automated Verification of Embedded Control Software Formal methods for DIStributed COmputing in future RAILway systems   Software Technologies Pascal Lorenz,Jorge Cardoso,Leszek A. Maciaszek,Marten van Sinderen,2016-02-24 This book constitutes the thoroughly refereed proceedings of the 10th International Joint Conference on Software Technologies ICSOFT 2015 held in Colmar France in July 2015 The 23 revised full papers presented were carefully reviewed and selected from 117 submissions The papers are organized around the following conference tracks enterprise software technologies software project management software engineering methods and techniques distributed and mobile software systems   **Model Management and Analytics for Large Scale Systems** Bedir Tekinerdogan,Önder Babur,Loek Cleophas,Mark van den Brand,Mehmet Aksit,2019-09-14 Model Management and

Analytics for Large Scale Systems covers the use of models and related artefacts such as metamodels and model transformations as central elements for tackling the complexity of building systems and managing data With their increased use across diverse settings the complexity size multiplicity and variety of those artefacts has increased Originally developed for software engineering these approaches can now be used to simplify the analytics of large scale models and automate complex data analysis processes Those in the field of data science will gain novel insights on the topic of model analytics that go beyond both model based development and data analytics This book is aimed at both researchers and practitioners who are interested in model based development and the analytics of large scale models ranging from big data management and analytics to enterprise domains The book could also be used in graduate courses on model development data analytics and data management Identifies key problems and offers solution approaches and tools that have been developed or are necessary for model management and analytics Explores basic theory and background current research topics related challenges and the research directions for model management and analytics Provides a complete overview of model management and analytics frameworks the different types of analytics descriptive diagnostics predictive and prescriptive the required modelling and method steps and important future directions   Information Systems Architecture and Technology: Proceedings of 38th International Conference on Information Systems Architecture and Technology – ISAT 2017 Jerzy Świątek,Leszek Borzemski,Zofia Wilimowska,2017-09-04 This three volume set of books presents advances in the development of concepts and techniques in the area of new technologies and contemporary information system architectures It guides readers through solving specific research and analytical problems to obtain useful knowledge and business value from the data Each chapter provides an analysis of a specific technical problem followed by the numerical analysis simulation and implementation of the solution to the problem The books constitute the refereed proceedings of the 2017 38th International Conference Information Systems Architecture and Technology or ISAT 2017 held on September 17 19 2017 in Szklarska Por ba Poland The conference was organized by the Computer Science and Management Systems Departments Faculty of Computer Science and Management Wroclaw University of Technology Poland The papers have been organized into topical parts Part I includes discourses on topics including but not limited to Artificial Intelligence Methods Knowledge Discovery and Data Mining Big Data Knowledge Discovery and Data Mining Knowledge Based Management Internet of Things Cloud Computing and High Performance Computing Distributed Computer Systems Content Delivery Networks and Service Oriented Computing Part II addresses topics including but not limited to System Modelling for Control Recognition and Decision Support Mathematical Modelling in Computer System Design Service Oriented Systems and Cloud Computing and Complex Process Modeling Part III deals with topics including but not limited to Modeling of Manufacturing Processes Modeling an Investment Decision Process Management of Innovation Management of Organization   Software Technologies Hans-Georg Fill,Marten van Sinderen,Leszek A. Maciaszek,2022-07-17 This book constitutes the refereed

proceedings of the 16th International Conference on Software Technologies ICSOFT 2021 Virtual Event July 6 8 2021 The conference was held virtually due to the COVID 19 crisis The 10 full papers included in this book were carefully reviewed and selected from 117 submissions   **Modelling Foundations and Applications** Andrzej Wąsowski,Henrik Lönn,2016-06-22 This book constitutes the proceedings of the 12th European Conference on Modelling Foundations and Applications ECMFA 2016 held as part of STAF 2016 in Vienna Austria in July 2016 The 16 papers presented in this volume were carefully reviewed and selected from 47 submissions The committee decided to accept 16 papers 12 papers for the Foundations Track and 4 papers for the Applications Track Papers on a wide range of MBE aspects were accepted including topics such as multi and many models language engineering UML and meta modeling experience reports and case studies and variability and uncertainty   **Intelligent Information and Database Systems** Ngoc Thanh Nguyen,Duong Hung Hoang,Tzung-Pei Hong,Hoang Pham,Bogdan Trawiński,2018-03-03 The two volume set LNAI 10751 and 10752 constitutes the refereed proceedings of the 10th Asian Conference on Intelligent Information and Database Systems ACIIDS 2018 held in Dong Hoi City Vietnam in March 2018 The total of 133 full papers accepted for publication in these proceedings was carefully reviewed and selected from 423 submissions They were organized in topical sections named Knowledge Engineering and Semantic Web Social Networks and Recommender Systems Text Processing and Information Retrieval Machine Learning and Data Mining Decision Support and Control Systems Computer Vision Techniques Advanced Data Mining Techniques and Applications Multiple Model Approach to Machine Learning Sensor Networks and Internet of Things Intelligent Information Systems Data Structures Modeling for Knowledge Representation Modeling Storing and Querying of Graph Data Data Science and Computational Intelligence Design Thinking Based R Intelligent and Contextual Systems Intelligent Systems and Algorithms in Information Sciences Intelligent Applications of Internet of Thing and Data Analysis Technologies Intelligent Systems and Methods in Biomedicine Intelligent Biomarkers of Neurodegenerative Processes in Brain Analysis of Image Video and Motion Data in Life Sciences Computational Imaging and Vision Computer Vision and Robotics Intelligent Computer Vision Systems and Applications Intelligent Systems for Optimization of Logistics and Industrial Applications

Model Checking Software Fabrizio Biondi,Thomas Given-Wilson,Axel Legay,2019-10-02 This book constitutes the refereed proceedings of the 26th International Symposium on Model Checking Software SPIN 2019 held in Beijing China in July 2019 The 11 full papers presented and 2 demo tool papers were carefully reviewed and selected from 29 submissions Topics covered include formal verification techniques for automated analysis of software formal analysis for modeling languages such as UML state charts formal specification languages temporal logic design by contract model checking automated theorem proving including SAT and SMT verifying compilers abstraction and symbolic execution techniques and much more   *Perspectives of System Informatics* Manuel Mazzara,Andrei Voronkov,2016-06-27 This book constitutes the refereed proceedings of the 10th International Andrei Ershov Informatics Conference PSI 2015 held in Kazan and Innopolis

Russia in August 2015 The 2 invited and 23 full papers presented in this volume were carefully reviewed and selected from 56 submissions The papers cover various topics related to the foundations of program and system development and analysis programming methodology and software engineering and information technologies **End-User Development** Carmen Santoro,Albrecht Schmidt,Maristella Matera,Andrea Bellucci,2025-07-14 This book constitutes the refereed proceedings of the 10th International Symposium on End User Development IS EUD 2025 held in Munich Germany during June 16 18 2025 The 13 full papers and 8 short papers included in this book were carefully reviewed and selected from 25 submissions These papers have been organized under the following topical sections Automation Sustainability and Smart Environments Democratizing AI and Programming AI for End User Empowerment Personalization andWellbeing and EUD Principles Methodologies and Participatory Cultures Model-Driven Engineering and Software Development Slimane Hammoudi,Luís Ferreira Pires,Bran Selic,2019-01-31 This book constitutes thoroughly revised and selected papers from the 6th International Conference on Model Driven Engineering and Software Development MODELSWARD 2018 held in Funchal Madeira Portugal in January 2018 The 22 thoroughly revised and extended papers presented in this volume were carefully reviewed and selected from 101 submissions They contribute to the development of highly relevant research trends in model driven engineering and software development such as innovative methods for MDD based development and testing of web based applications and user interfaces support for development of Domain Specific Languages DSLs MDD based application development on multiprocessor platforms advances in MDD tooling formal semantics and behaviour modelling and MDD based product line engineering SDL 2017: Model-Driven Engineering for Future Internet Tibor Csöndes,Gábor Kovács,György Réthy,2017-09-25 This book constitutes the proceedings of the 18th International System Design Language Forum SDL 2017 held in Budapest Hungary in October 2017 The 10 full papers presented in this volume were carefully reviewed and selected from 17 submissions The selected papers cover a wide spectrum of topics related to system design languages ranging from the system design language usage to UML and GRL models model driven engineering of database queries network service design and regression testing and modeling for Internet of Things IoT data processing

Reliability, Safety, and Security of Railway Systems. Modelling, Analysis, Verification, and Certification Simon Collart-Dutilleul,Thierry Lecomte,Alexander Romanovsky,2019-05-28 This book constitutes the refereed proceedings of the Third International Conference on Reliability Safety and Security of Railway Systems RSSRail 2019 held in Lille France in June 2019 The 18 full papers presented in this book were carefully reviewed and selected from 38 submissions They cover a range of topics including railways system and infrastructure advance modelling scheduling and track planning safety process and validation modelling formal verification and security *Software Architecture* Anton Jansen,Ivano Malavolta,Henry Muccini,Ipek Ozkaya,Olaf Zimmermann,2020-09-09 This book constitutes the refereed proceedings of the 14th International Conference on Software Architecture ECSA 2020 held in A quila Italy in September 2020 In the Research Track 12 full

papers presented together with 5 short papers were carefully reviewed and selected from 103 submissions They are organized in topical sections as follows microservices uncertainty self adaptive and open systems model based approaches performance and security engineering architectural smells and source code analysis education and training experiences and learnings from industrial case studies and architecting contemporary distributed systems In the Industrial Track 11 submissions were received and 6 were accepted to form part of these proceedings In addition the book contains 3 keynote talks Due to the Corona pandemic ECSA 2020 was held as an virtual event

The book delves into Implementing Domain Specific Languages With Xtext And Xtend. Implementing Domain Specific Languages With Xtext And Xtend is an essential topic that must be grasped by everyone, ranging from students and scholars to the general public. The book will furnish comprehensive and in-depth insights into Implementing Domain Specific Languages With Xtext And Xtend, encompassing both the fundamentals and more intricate discussions.

1. The book is structured into several chapters, namely:

   - Chapter 1: Introduction to Implementing Domain Specific Languages With Xtext And Xtend
   - Chapter 2: Essential Elements of Implementing Domain Specific Languages With Xtext And Xtend
   - Chapter 3: Implementing Domain Specific Languages With Xtext And Xtend in Everyday Life
   - Chapter 4: Implementing Domain Specific Languages With Xtext And Xtend in Specific Contexts
   - Chapter 5: Conclusion

2. In chapter 1, the author will provide an overview of Implementing Domain Specific Languages With Xtext And Xtend. The first chapter will explore what Implementing Domain Specific Languages With Xtext And Xtend is, why Implementing Domain Specific Languages With Xtext And Xtend is vital, and how to effectively learn about Implementing Domain Specific Languages With Xtext And Xtend.
3. In chapter 2, this book will delve into the foundational concepts of Implementing Domain Specific Languages With Xtext And Xtend. The second chapter will elucidate the essential principles that need to be understood to grasp Implementing Domain Specific Languages With Xtext And Xtend in its entirety.
4. In chapter 3, the author will examine the practical applications of Implementing Domain Specific Languages With Xtext And Xtend in daily life. This chapter will showcase real-world examples of how Implementing Domain Specific Languages With Xtext And Xtend can be effectively utilized in everyday scenarios.
5. In chapter 4, the author will scrutinize the relevance of Implementing Domain Specific Languages With Xtext And Xtend in specific contexts. The fourth chapter will explore how Implementing Domain Specific Languages With Xtext And Xtend is applied in specialized fields, such as education, business, and technology.
6. In chapter 5, the author will draw a conclusion about Implementing Domain Specific Languages With Xtext And Xtend. The final chapter will summarize the key points that have been discussed throughout the book.
   The book is crafted in an easy-to-understand language and is complemented by engaging illustrations. It is highly recommended for anyone seeking to gain a comprehensive understanding of Implementing Domain Specific Languages With Xtext And Xtend.

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