

Domain-Specific Languages



Domain Specific Languages Martin Fowler

Ralf Lämmel



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Domain-Specific Languages Martin Fowler,2010-09-23 When carefully selected and used Domain Specific Languages DSLs may simplify complex code promote effective communication with customers improve productivity and unclog development bottlenecks In Domain Specific Languages noted software development expert Martin Fowler first provides the information software professionals need to decide if and when to utilize DSLs Then where DSLs prove suitable Fowler presents effective techniques for building them and guides software engineers in choosing the right approaches for their applications This book s techniques may be utilized with most modern object oriented languages the author provides numerous examples in Java and C as well as selected examples in Ruby Wherever possible chapters are organized to be self standing and most reference topics are presented in a familiar patterns format Armed with this wide ranging book developers will have the knowledge they need to make important decisions about DSLs and where appropriate gain the significant technical and business benefits they offer The topics covered include How DSLs compare to frameworks and libraries and when those alternatives are sufficient Using parsers and parser generators and parsing external DSLs Understanding comparing and choosing DSL language constructs Determining whether to use code generation and comparing code generation strategies Previewing new language workbench tools for creating DSLs

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Dynamic Language Embedding With Homogeneous Tool Support Lukas Renggli,2010

Dynamic Language Embedding Lukas Renggli,2010-09-24 In this dissertation we present Helvetia a novel approach to embed languages into an existing host language by leveraging the underlying representation of the host language used by these tools We introduce Language Boxes an approach that offers a simple modular mechanism to encapsulate i

compositional changes to the host language ii transformations to address various concerns such as compilation and syntax highlighting and iii scoping rules to control visibility of fine grained language changes We describe the design and implementation of Helvetia and Language Boxes discuss the required infrastructure of a host language enabling language embedding and validate our approach by case studies that demonstrate different ways to extend or adapt the host language syntax and semantics

Domain Specific Languages Martin Fowler,2010 [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

Progressions and Innovations in Model-Driven Software Engineering Díaz, Vicente García,2013-06-30 Users increasingly demand more from their software than ever before more features fewer errors faster runtimes To deliver the best quality products possible software engineers are constantly in the process of employing novel tools in developing the latest software applications Progressions and Innovations in Model Driven Software Engineering investigates the most recent and relevant research on model driven engineering Within its pages researchers and professionals in the field of software development as well as academics and students of computer science will find an up to date discussion of scientific literature on the topic identifying opportunities and advantages and complexities and challenges inherent in the future of software engineering

ECOOP 2010 -- Object-Oriented Programming Theo D'Hondt,2010-06-29 Annotation This book constitutes the refereed proceedings of the 24th European Conference on Object Oriented Programming ECOOP 2010 held in Maribor Slovenia in June 2010 The 24

revised full papers presented together with one extended abstract were carefully reviewed and selected from a total of 108 submissions The papers cover topics such as programming environments and tools theoretical foundations of programming languages formal methods concurrency models in Java empirical methods type systems language design and implementation concurrency abstractions and experiences

Computer Applications for Software Engineering, Disaster Recovery, and Business Continuity Tai-hoon Kim, Carlos Ramos, Haeng-kon Kim, Akingbehin Kiumi, Sabah Mohammed, Dominik Slezak, 2012-11-07 This book comprises the refereed proceedings of the International Conferences ASE and DRBC 2012 held in conjunction with GST 2012 on Jeju Island Korea in November December 2012 The papers presented were carefully reviewed and selected from numerous submissions and focus on the various aspects of advanced software engineering and its applications and disaster recovery and business continuity

From Requirements to Java in a Snap Michał Śmiałek, Wiktor Nowakowski, 2015-01-14 This book provides a coherent methodology for Model Driven Requirements Engineering which stresses the systematic treatment of requirements within the realm of modelling and model transformations The underlying basic assumption is that detailed requirements models are used as first class artefacts playing a direct role in constructing software To this end the book presents the Requirements Specification Language RSL that allows precision and formality which eventually permits automation of the process of turning requirements into a working system by applying model transformations and code generation to RSL The book is structured in eight chapters The first two chapters present the main concepts and give an introduction to requirements modelling in RSL The next two chapters concentrate on presenting RSL in a formal way suitable for automated processing Subsequently chapters 5 and 6 concentrate on model transformations with the emphasis on those involving RSL and UML Finally chapters 7 and 8 provide a summary in the form of a systematic methodology with a comprehensive case study Presenting technical details of requirements modelling and model transformations for requirements this book is of interest to researchers graduate students and advanced practitioners from industry While researchers will benefit from the latest results and possible research directions in MDRE students and practitioners can exploit the presented information and practical techniques in several areas including requirements engineering architectural design software language construction and model transformation Together with a tool suite available online the book supplies the reader with what it promises the means to get from requirements to code in a snap

Practical Scala DSLs Pierluigi Riti, 2017-11-30 Build domain specific languages DSLs using Java s most popular functional programming language Scala This book introduces the basics of Scala and DSLs using a series of practical examples In Practical Scala DSLs you ll learn to create pragmatic and complete code examples that explain the actual use of DSLs with Scala a web API and microservices a custom language a mobile app a Forex system a game and cloud applications At the end of this unique book you ll be able to describe the differences between external and internal DSLs understand when and how to apply DSLs create DSLs using Scala and even create a DSL using another programming

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DSL Engineering Markus Voelter, 2013 The definitive resource on domain specific languages based on years of real world experience relying on modern language workbenches and full of examples Domain Specific Languages are programming languages specialized for a particular application domain By incorporating knowledge about that domain DSLs can lead to more concise and more analyzable programs better code quality and increased development speed This book provides a thorough introduction to DSL relying on today's state of the art language workbenches The book has four parts introduction DSL design DSL implementation as well as the role of DSLs in various aspects of software engineering Part I Introduction This part introduces DSLs in general and discusses their advantages and drawbacks It also defines important terms and concepts and introduces the case studies used in the most of the remainder of the book Part II DSL Design This part discusses the design of DSLs independent of implementation techniques It reviews seven design dimensions explains a number of reusable language paradigms and points out a number of process related issues Part III DSL Implementation This part provides details about the implementation of DSLs with lots of code It uses three state of the art but quite different language workbenches JetBrains MPS Eclipse Xtext and TU Delft's Spoofox Part IV DSLs and Software Engineering This part discusses the use of DSLs for requirements architecture implementation and product line engineering as well as their roles as a developer utility and for implementing business logic The book is available as a printed version the one you are looking at and as a PDF For details see the book's companion website at <http://dslbook.org>

Real-World Functional Programming Tomas Petricek, Jon Skeet, 2010-01-25 Real World Functional Programming is a unique tutorial that explores the functional programming model through the F and C languages *No Fluff, Just Stuff Anthology* Neal Ford, 2006 A traveling conference series for software developers that visits 27 cities a year staging over 75 symposia throughout the U S and Canada No Fluff Just Stuff now makes the seminar's high quality technical presentations available in print for the first time

The Robert C. Martin Clean Code Collection (Collection) Robert Martin, 2011-12-09 The Robert C Martin Clean Code Collection consists of two bestselling eBooks Clean Code A Handbook of Agile Software Craftmanship The Clean Coder A Code of Conduct for Professional Programmers In Clean Code legendary software expert Robert C Martin has teamed up with his colleagues from Object Mentor to distill their best agile practice of cleaning code on the fly into a book that will instill within you the values of a software craftsman and make you a better programmer but only if you work at it You will be challenged to think about what's right about that code and what's wrong with it More important you will be challenged to reassess your professional values and your commitment to your craft In The Clean Coder Martin introduces the disciplines

techniques tools and practices of true software craftsmanship This book is packed with practical advice about everything from estimating and coding to refactoring and testing It covers much more than technique It is about attitude Martin shows how to approach software development with honor self respect and pride work well and work clean communicate and estimate faithfully face difficult decisions with clarity and honesty and understand that deep knowledge comes with a responsibility to act Readers of this collection will come away understanding How to tell the difference between good and bad code How to write good code and how to transform bad code into good code How to create good names good functions good objects and good classes How to format code for maximum readability How to implement complete error handling without obscuring code logic How to unit test and practice test driven development What it means to behave as a true software craftsman How to deal with conflict tight schedules and unreasonable managers How to get into the flow of coding and get past writer s block How to handle unrelenting pressure and avoid burnout How to combine enduring attitudes with new development paradigms How to manage your time and avoid blind alleys marshes bogs and swamps How to foster environments where programmers and teams can thrive When to say No and how to say it When to say Yes and what yes really means

IBM Systems Journal International Business Machines Corporation,2006

Pattern Languages of Program Design 3 Robert C. Martin,Dirk Riehle,Frank Buschmann,1998 A collection of current best practices and trends in reusable design patterns in software engineering system design and development providing tested software design solutions for developers in all domains and organizations Patterns are arranged by topic with sections on general purpose design patterns and variations and architectural distribution persistence user interface programming domain specific and process patterns with a final chapter on a pattern language for pattern writing Based on papers from American and European conferences held in 1996 Annotation copyrighted by Book News Inc Portland OR

Proceedings of the ... ACM Workshop on Secure Web Services ,2005

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