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DOMAIN-SPECIFIC LANGUAGES

MARTIN FOWLER
WITH REBECCA PARSONS



Domain Specific Languages By Martin Fowler

Mernik, Marjan



Domain Specific Languages By Martin Fowler:

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

Domain Specific Languages Martin Fowler, 2010 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

Implementing Domain-Specific Languages with Xtext and Xtend Lorenzo Bettini, 2013-01-01 A step by step guide that enables you to quickly implement a DSL with Xtext and Xtend in a test driven way with the aid of simplified examples This book is for programmers who want to learn about Xtext and how to use it to implement a DSL or a programming language together with Eclipse IDE tooling It assumes that the user is familiar with Eclipse and its

functionality Existing basic knowledge of a compiler implementation would be useful though not strictly required since the book will explain all the stages of the development of a DSL

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

DSLs in Boo Oren Eini, 2009-12-31 A general purpose language like C is designed to handle all programming tasks By contrast the structure and syntax of a Domain Specific Language are designed to match a particular applications area A DSL is designed for readability and easy programming of repeating problems Using the innovative Boo language it s a breeze to create a DSL for your application domain that works on NET and does not sacrifice performance DSLs in Boo shows you how to design extend and evolve DSLs for NET by focusing on approaches and patterns You learn to define an app in terms that match the domain and to use Boo to build DSLs that generate efficient executables And you won t deal with the awkward XML laden syntax many DSLs require The book concentrates on writing internal textual DSLs that allow easy extensibility of the application and framework And if you don t know Boo don t worry you ll learn right here all the techniques you need Purchase of the print book comes with an offer of a free PDF ePub and Kindle eBook from Manning Also available is all code from the book

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 **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.

Domain-Specific Computer Architectures for Emerging Applications Chao Wang, 2024-06-04 With the end of Moore's Law, domain-specific architecture (DSA) has become a crucial mode of implementing future computing architectures. This book discusses the system-level design methodology of DSAs and their applications, providing a unified design process that guarantees functionality, performance, energy efficiency, and real-time responsiveness for the target application. DSAs often start from domain-specific algorithms or applications, analyzing the characteristics of algorithmic applications such as computation, memory access, and communication, and proposing the heterogeneous accelerator architecture suitable for that particular application. This book places particular focus on accelerator hardware platforms and distributed systems for various novel applications such as machine learning, data mining, neural networks, and graph algorithms, and also covers RISC-V open-source instruction sets. It briefly describes the system design methodology based on DSAs and presents the latest research results in academia around domain-specific acceleration architectures. Providing cutting-edge discussion of big data and artificial intelligence scenarios in contemporary industry and typical DSA applications, this book appeals to industry professionals as well as academicians researching the future of computing in these areas.

Handbuch Infrastructure as Code Kief Morris, 2021-11-29 Cloud Infrastrukturen

erfolgreich automatisieren Strategien für die Praxis Mithilfe von Patterns und Antipatterns Automatisierung verstehen und erfolgreich umsetzen Pseudocode Beispiele veranschaulichen die konkrete Umsetzung Diese Auflage beschreibt neben dem Managen von Servern jetzt auch komplexe Container Plattformen Kief Morris von ThoughtWorks zeigt in diesem Praxisbuch wie Sie die von DevOps Teams entwickelte Prinzipien Praktiken und Patterns effektiv verwenden um in der Cloud sicher und flexibel Infrastruktur zu managen Es vermittelt wie nicht nur Server sondern auch komplexe Container Plattformen Stacks aufgesetzt werden Sie erfahren wie sie mithilfe von Cloud und Automatisierungstechnologien Änderungen einfach sicher und schnell vornehmen Sie lernen wie Sie nahezu alles als Code definieren und setzen Praktiken aus dem Softwaredesign ein um ein System aus kleinen lose gekoppelten Elementen aufzubauen Zielgruppen sind Mitarbeiterinnen und Mitarbeiter in der Systemadministration Infrastruktur Entwicklung Softwareentwicklung und Architektur *Programmieren mit Scala* Dean Wampler,Alex Payne,2010-10-31 Sie ist elegant schlank modern und flexibel Die Rede ist von Scala der neuen Programmiersprache für die Java Virtual Machine JVM Sie vereint die Vorzüge funktionaler und objektorientierter Programmierung ist typsicherer als Java lässt sich nahtlos in die Java Welt integrieren und eine in Scala entwickelte Anwendung benützt oft nur einen Bruchteil der Codezeilen ihres Java Pendantes Kein Wunder dass immer mehr Firmen deren große geschäftskritische Anwendungen auf Java basieren auf Scala umsteigen um ihre Produktivität und die Skalierbarkeit ihrer Software zu erhöhen Das wollen Sie auch Dann lassen Sie sich von den Scala Profis Dean Wampler und Alex Payne zeigen wie es geht Ihre Werkzeugkiste Schon bevor Sie loslegen sind Sie weiter als Sie denken Sie können Ihre Java Programme weiter verwenden Java Bibliotheken nutzen Java von Scala aus aufrufen und Scala von Java aus Auch Ihre bevorzugten Entwicklungswerkzeuge wie NetBeans IntelliJ IDEA oder Eclipse stehen Ihnen weiter zur Verfügung dazu Kommandozeilen Tools Plugins für Editoren Werkzeuge von Drittanbietern und natürlich Ihre Programmiererfahrung In Programmieren mit Scala erfahren Sie wie Sie sich all das zunutze machen Das Hybridmodell Die Paradigmen funktional und objektorientiert sind keine Gegensätze sondern ergänzen sich unter dem Scala Dach zu einem sehr produktiven Ganzen Nutzen Sie die Vorteile funktionaler Programmierung wann immer sich das anbietet und seien Sie so frei auf die guten alten Seiteneffekte zu bauen wenn Sie das für nötig halten Futter für die Profis Skalierbare Nebenläufigkeit mit Aktoren Aufzucht und Pflege von XML mit Scala Domainspezifische Sprachen Tipps zum richtigen Anwendungsdesign das sind nur ein paar der fortgeschrittenen Themen in die Sie mit den beiden Autoren eintauchen Danach sind Sie auch Profi im Programmieren mit Scala *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

Groovy for Domain-specific Languages Fergal Dearle, 2015-09-28 Extend and enhance your Java applications with domain specific scripting in Groovy About This Book Build domain specific mini languages in Groovy that integrate seamlessly with your Java apps with this hands on guide Increase stakeholder participation in the development process with domain specific scripting in Groovy Get up to speed with the newest features in Groovy using this second edition and integrate Groovy based DSLs into your existing Java applications Who This Book Is For This book is for Java software developers who have an interest in building domain scripting into their Java applications No knowledge of Groovy is required although it will be helpful This book does not teach Groovy but quickly introduces the basic ideas of Groovy An experienced Java developer should have no problems with these and move quickly on to the more involved aspects of creating DSLs with Groovy No experience of creating a DSL is required What You Will Learn Familiarize yourself with Groovy scripting and work with Groovy closures Use the meta programming features in Groovy to build mini languages Employ Groovy mark up and builders to simplify application development Familiarize yourself with Groovy mark up and build your own Groovy builders Build effective DSLs with operator overloading command chains builders and a host of other Groovy language features Integrate Groovy with your Java and JVM based applications In Detail The times when developing on the JVM meant you were a Java programmer have long passed The JVM is now firmly established as a polyglot development environment with many projects opting for alternative development languages to Java such as Groovy Scala Clojure and JRuby In this pantheon of development languages Groovy stands out for its excellent DSL enabling features which allows it to be manipulated to produce mini languages that are tailored to a project s needs A comprehensive tutorial on designing and developing mini Groovy based Domain Specific Languages this book will guide you through the development of several mini DSLs that will help you gain all the skills needed to develop your own Groovy based DSLs with confidence and ease Starting with the bare basics this book will focus on how Groovy can be used to construct domain specific mini languages and will go through the more complex meta programming features of Groovy including using the Abstract Syntax Tree AST Practical examples are used throughout this book to demystify these seemingly complex language features and to show how they can be used to create simple and elegant DSLs Packed with examples including several fully worked DSLs this book will serve as a springboard for developing your own DSLs Style and approach This book is a hands on guide that will walk you through examples for building DSLs with Groovy rather than just talking about metaprogramming with Groovy The examples in this book have been designed to help you gain a good working knowledge of the techniques involved and apply these to producing your own Groovy based DSLs

Basiswissen Softwarearchitektur Torsten Posch, Klaus Birken, Michael Gerdorf, 2012-05-02 Dieses Buch vermittelt das grundlegende Wissen um Softwarearchitekturen zu entwerfen und richtig

einzusetzen Es beantwortet u a die Fragen Was ist Softwarearchitektur Was ist eine gute Softwarearchitektur Wie wird sie entwickelt Ausf hrlich werden Aufgaben und Werkzeuge des Softwarearchitekten wie Dokumentation mit UML 2 Architekturstile und muster behandelt Ein weiterer Schwerpunkt ist Software im industriellen Ma stab Produktlinienans tze MDA und neu in der 3 Auflage dom nenspezifische Sprachen Das Buch richtet sich an Softwareentwickler und Projektleiter

Domain-Specific Languages in Practice Antonio Bucchiarone, Antonio Cicchetti, Federico Cicciozzi, 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 Dynamic Language Embedding With Homogeneous Tool Support Lukas Renggli, 2010

Agile Entwicklungspraktiken mit Scrum Roman Pichler, Stefan Roock, 2011-12-02 Scrum ist ein agiles Management Framework das keine Entwicklungspraktiken empfiehlt oder gar vorschreibt Auswahl und Einsatz der richtigen Praktiken fallen unter die Selbstorganisation des Teams Ohne den Einsatz geeigneter Entwicklungspraktiken und tools ist der Einsatz von Scrum in der Softwareentwicklung jedoch nicht dauerhaft erfolgreich Dieses Buch beschreibt praxisnah die wichtigsten Praktiken wie Architekturvision inkrementeller Entwurf Continuous Integration testgetriebene Entwicklung Refactoring Akzeptanztests sowie modellgetriebene und verteilte Entwicklung mit Scrum **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 megamodeling

[Java Pocket Guide](#) Robert Liguori, Patricia Liguori, 2017-08-28 Any time you need quick answers for developing or debugging Java programs this pocket guide is the ideal reference to standard features of the Java programming language and its platform You'll find helpful programming examples tables figures and lists fast including Java 9 features such as modular source code and the new JShell interactive command line REPL It's a handy companion whether you're in the office in the lab or on the road This book also provides material to help you prepare for the Oracle Certified Associate Java Programmer exam Quickly find Java language details such as naming conventions types statements and blocks and object oriented programming Get details on the Java SE platform including development basics memory management concurrency and generics Use new features in Java 9 including modular source code and JShell Browse through information on basic input output NIO 2.0 the Java collections framework and the Java Scripting API Get supplemental references to fluent APIs third party tools and basics of the Unified Modeling Language UML

EuroPLoP 2009 Proceedings Allan Kelly, 2011

Model Driven Engineering Languages and Systems Andy Schürr, Bran Selic, 2009-09-15 The pioneering organizers of the first UML workshop in Mulhouse France in the summer of 1998 could hardly have anticipated that in little over a decade their initiative would blossom into today's highly successful MODELS conference series the premier annual gathering of researchers and practitioners focusing on a very important new technical discipline model based software and system engineering This expansion is of course a direct consequence of the growing significance and success of model based methods in practice The conferences have contributed greatly to the heightened interest in the field attracting much young talent and leading to the gradual emergence of its corresponding scientific and engineering foundations The proceedings from the MODELS conferences are one of the primary references for anyone interested in a more substantive study of the domain The 12th conference took place in Denver in the USA October 4-9 2009 along with numerous satellite workshops and tutorials as well as several other related scientific gatherings The conference was exceptionally fortunate to have three eminent invited keynote speakers from industry Stephen Mellor Larry Constantine and Grady Booch

This book delves into Domain Specific Languages By Martin Fowler. Domain Specific Languages By Martin Fowler 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 Domain Specific Languages By Martin Fowler, encompassing both the fundamentals and more intricate discussions.

1. This book is structured into several chapters, namely:
 - Chapter 1: Introduction to Domain Specific Languages By Martin Fowler
 - Chapter 2: Essential Elements of Domain Specific Languages By Martin Fowler
 - Chapter 3: Domain Specific Languages By Martin Fowler in Everyday Life
 - Chapter 4: Domain Specific Languages By Martin Fowler in Specific Contexts
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 6. In chapter 5, this book will draw a conclusion about Domain Specific Languages By Martin Fowler. 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 Domain Specific Languages By Martin Fowler.

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Domain Specific Languages By Martin Fowler Introduction

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