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DOMAIN- SPECIFIC LANGUAGES

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Domain Specific Languages Martin Fowler



Martin Fowler

Domain Specific Languages 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

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>

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

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

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

Basiswissen Softwarearchitektur Torsten Posch,Klaus Birken,Michael Gerdorn,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

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

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

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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 de mystify 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

Domain-Specific Languages in Practice Antonio Bucchiarone, Antonio Cicchetti, Federico Ciccuzzi, 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

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

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 f r die Java Virtual Machine JVM Sie vereint die Vorz ge funktionaler und objektorientierter Programmierung ist typischer als Java l sst sich nahtlos in die Java Welt integrieren und eine in Scala entwickelte Anwendung ben tigt oft nur einen Bruchteil der Codezeilen ihres Java Pendants Kein Wunder dass immer mehr Firmen deren gro e gesch ftskritische Anwendungen auf Java basieren auf Scala umsteigen um ihre Produktivit t und die Skalierbarkeit ihrer Software zu erh hen 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 k nnen 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 Verf gung dazu Kommandozeilen Tools Plugins f r Editoren Werkzeuge von Drittanbietern und nat rlich Ihre Programmiererfahrung In Programmieren mit Scala erfahren Sie wie Sie sich all das zunutze machen Das Hybridmodell Die Paradigmen funktional und objektorientiert sind keine Gegens tze sondern erg nzen 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 f r n tig halten Futter f r die Profis Skalierbare Nebenl ufigkeit 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 **Dynamic Language Embedding With Homogeneous Tool Support** Lukas Renggli,2010

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

Advanced R Hadley Wickham,2015-09-15 An Essential Reference for Intermediate and Advanced R Programmers Advanced R presents useful tools and techniques for attacking many types of R programming problems helping you avoid mistakes and dead ends With more than ten years of experience programming in R the author illustrates the elegance beauty and flexibility at the heart of R The book develops the necessary skills to produce quality code that can be used in a variety of circumstances You will learn The fundamentals of R including standard data types and functions Functional programming as a useful framework for solving wide classes of problems The positives and negatives of metaprogramming How to write fast memory efficient code This book not only helps current R users become R programmers but also shows existing programmers what's special about R Intermediate R programmers can dive deeper into R and learn new strategies for solving diverse problems while programmers from other languages can learn the details of R and understand why R works the way it does 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 **Software-Architektur** Oliver Vogel,Ingo Arnold,Arif Chughtai,Edmund Ihler,Timo Kehrler,Uwe

Mehlig,Uwe Zdun,2009-02-01 Als Architekt arbeiten Sie in einem sehr vielfältigen und dynamischen Umfeld Neue Technologien drängen auf den Markt neue Werkzeuge versprechen Effizienz und Produktivitätssteigerungen und neue Trends

wie serviceorientierte Architekturen SOA und modellgetriebene Verfahren sollen Ihnen helfen mit der inhärenten Komplexität von IT Systemen umzugehen. All diese Entwicklungen und Neuerungen müssen Sie als Architekt verstehen, einordnen und letztlich beurteilen können, um die Spreu vom Weizen zu trennen und für Ihre konkrete Problemstellung die passende Lösung zu wählen. Dieses Buch hilft Ihnen dabei, indem es das Thema Software Architektur umfassend behandelt und mit Hilfe eines architektonischen Ordnungsrahmens strukturiert. Es stellt Sie als Architekten in den Mittelpunkt und bietet Ihnen langfristige Orientierung. Das Buch vermittelt hierzu essenzielles Architektur Wissen und zeigt Ihnen, wie Sie dieses Wissen konkret und in entsprechenden Projekten einsetzen können. Zu diesem Zweck enthält das Buch Anwendungsszenarien und Fallstudien aus verschiedenen Industriezweigen und Anwendungsdomänen. Software Entwickler und Studenten erhalten mit diesem Buch eine wertvolle Hilfestellung, um in das Thema Software Architektur einzusteigen. In der zweiten Auflage finden sich neue wichtige Architektur Themen wie beispielsweise SOA und Sicherheitsarchitekturen. Ferner leitet Sie dieses Buch jetzt noch besser bei Ihrer Tätigkeit als Architekt, indem es Ihnen konkrete Handlungsanweisungen und Checklisten bietet. Darüber hinaus ermöglicht das Buch aufgrund seiner erhöhten didaktischen Qualität Konsistenz sowie thematischen Vernetzung eine noch effizientere Orientierung in der Software Architektur. Weiterführende Informationen finden Sie unter www.software-architektur-buch.de. Bei der neuen Auflage dieses Buches freue ich mich sehr. Es ist außerordentlich empfehlenswert für alle, die die Notwendigkeit erkannt haben, sich mit dem Thema Software Architektur auseinanderzusetzen. Es bietet einen umfassenden Einstieg in das bewusste Architektur Denken.

Karin Dörmeyer, IBM Distinguished Engineer, IBM IOT Northeast IT Architect, Profession Leader. Das Buch bietet eine hervorragende strukturierte und ebenso grundlegende wie umfassende Orientierung zu dem komplexen Thema Software Architektur. Mir gefällt, dass es statt auf konkrete Technologien mehr auf Konzepte eingeht und auch die Menschen und soziale Aspekte explizit berücksichtigt werden.

Bernd Oestereich, oose.de

The Top Books of the Year Domain Specific Languages Martin Fowler The year 2023 has witnessed a noteworthy surge in literary brilliance, with numerous compelling novels captivating the hearts of readers worldwide. Lets delve into the realm of bestselling books, exploring the fascinating narratives that have enthralled audiences this year. Domain Specific Languages Martin Fowler : Colleen Hoover "It Ends with Us" This heartfelt tale of love, loss, and resilience has gripped readers with its raw and emotional exploration of domestic abuse. Hoover masterfully weaves a story of hope and healing, reminding us that even in the darkest of times, the human spirit can triumph. Domain Specific Languages Martin Fowler : Taylor Jenkins Reids "The Seven Husbands of Evelyn Hugo" This spellbinding historical fiction novel unravels the life of Evelyn Hugo, a Hollywood icon who defies expectations and societal norms to pursue her dreams. Reids absorbing storytelling and compelling characters transport readers to a bygone era, immersing them in a world of glamour, ambition, and self-discovery. Domain Specific Languages Martin Fowler : Delia Owens "Where the Crawdads Sing" This mesmerizing coming-of-age story follows Kya Clark, a young woman who grows up alone in the marshes of North Carolina. Owens crafts a tale of resilience, survival, and the transformative power of nature, captivating readers with its evocative prose and mesmerizing setting. These top-selling novels represent just a fraction of the literary treasures that have emerged in 2023. Whether you seek tales of romance, adventure, or personal growth, the world of literature offers an abundance of compelling stories waiting to be discovered. The novel begins with Richard Papen, a bright but troubled young man, arriving at Hampden College. Richard is immediately drawn to the group of students who call themselves the Classics Club. The club is led by Henry Winter, a brilliant and charismatic young man. Henry is obsessed with Greek mythology and philosophy, and he quickly draws Richard into his world. The other members of the Classics Club are equally as fascinating. Bunny Corcoran is a wealthy and spoiled young man who is always looking for a good time. Charles Tavis is a quiet and reserved young man who is deeply in love with Henry. Camilla Macaulay is a beautiful and intelligent young woman who is drawn to the power and danger of the Classics Club. The students are all deeply in love with Morrow, and they are willing to do anything to please him. Morrow is a complex and mysterious figure, and he seems to be manipulating the students for his own purposes. As the students become more involved with Morrow, they begin to commit increasingly dangerous acts. The Secret History is a masterful and gripping novel that will keep you speculating until the very end. The novel is a warning tale about the dangers of obsession and the power of evil.

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Domain Specific Languages Martin Fowler Introduction

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