

Regex Matching Exact String With Javascript Stack Overflow

ASP.NET MVC insiders cover the latest updates to the technology in this popular Wrox reference MVC 5 is the newest update to the popular Microsoft technology that enables you to build dynamic, data-driven websites. Like previous versions, this guide shows you step-by-step techniques on using MVC to best advantage, with plenty of practical tutorials to illustrate the concepts. It covers controllers, views, and models; forms and HTML helpers; data annotation and validation; membership, authorization, and security. MVC 5, the latest version of MVC, adds sophisticated features such as single page applications, mobile optimization, and adaptive rendering A team of top Microsoft MVP experts, along with visionaries in the field, provide practical advice on basic and advanced MVC topics Covers controllers, views, models, forms, data annotations, authorization and security, Ajax, routing, ASP.NET web API, dependency injection, unit testing, real-world application, and much more Professional ASP.NET MVC 5 is the comprehensive resource you need to make the best use of the updated Model-View-Controller technology.

DuBois organizes his cookbook's recipes into sections on the problem, the solution stated simply, and the solution implemented in code and discussed. The implementation and discussion sections are the most valuable, as they contain the command sequences, code listings, and design explanations that can be transferred to outside projects. This book constitutes the refereed proceedings of the 7th Annual Symposium on Combinatorial Pattern Matching, CPM '96, held in Laguna Beach, California, USA, in June 1996. The 26 revised full papers included were selected from a total of 48 submissions; also included are two invited papers. Combinatorial pattern matching has become a full-fledged area of algorithmics with important applications in recent years. The book addresses all relevant aspects of combinatorial pattern matching and its importance in information retrieval, pattern recognition, compiling, data compression, program analysis, and molecular biology and thus describes the state of the art in the area.

Completely revised and updated, this best-selling introduction to programming in JavaScript focuses on writing real applications. JavaScript lies at the heart of almost every modern web application, from social apps like Twitter to browser-based game frameworks like Phaser and Babylon. Though simple for beginners to pick up and play with, JavaScript is a flexible, complex language that you can use to build full-scale applications. This much anticipated and thoroughly revised third edition of Eloquent JavaScript dives deep into the JavaScript language to show you how to write beautiful, effective code. It has been updated to reflect the current state of Java-Script and web browsers and includes brand-new material on features like class notation, arrow functions, iterators, async functions, template strings, and block scope. A host of new exercises have also been added to test your skills and keep you on track. As with previous editions, Havecke continues to teach through extensive examples and immerses you in code from the start, while exercises and full-chapter projects give you hands-on experience with writing your own programs. You start by learning the basic structure of the JavaScript language as well as control structures, functions, and data structures to help you write basic programs. Then you'll learn about error handling and bug fixing, modularity, and asynchronous programming before moving on to web browsers and how JavaScript is used to program them. As you build projects such as an artificial life simulation, a simple programming language, and a paint program, you'll learn how to: - Understand the essential elements of programming, including syntax, control, and data - Organize and clarify your code with object-oriented and functional programming techniques - Script the browser and make basic web applications - Use the DOM effectively to interact with browsers - Harness Node.js to build servers and utilities Isn't it time you became fluent in the language of the Web? * All source code is available online in an inter-active sandbox, where you can edit the code, run it, and see its output instantly.

18th Annual Symposium, CPM 2007, London, Canada, July 9-11, 2007, Proceedings

Import, Tidy, Transform, Visualize, and Model Data

Tcl/Tk

From DNA to Twitter

Prepare for the IZO-804 exam

This book presents emerging trends in intelligent computing and informatics. This book presents the papers included in the proceedings of the 6th International Conference of Reliable Information and Communication Technology 2021 (IRICT 2021) that was held virtually, on Dec. 22-23, 2021. The main theme of the book is [Advances on Intelligent Informatics and Computing]. A total of 87 papers were submitted to the conference, but only 66 papers were accepted and published in this book. The book presents several hot research topics which include health informatics, artificial intelligence, soft computing, data science, big data analytics, Internet of Things (IoT), intelligent communication systems, cybersecurity, and information systems.

This open access book is a step-by-step introduction on how shell scripting can help solve many of the data processing tasks that Health and Life scientists face everyday with minimal software dependencies. The examples presented in the book show how simple command line tools can be used and combined to retrieve data and text from web resources, to filter and mine literature, and to explore the semantics encoded in biomedical ontologies. To store data this book relies on open standard text file formats, such as TSV, CSV, XML, and OWL, that can be open by any text editor or spreadsheet application. The first two chapters, Introduction and Resources, provide a brief introduction to the shell scripting and describe popular data sources in Health and Life Sciences. The third chapter, Data Retrieval, starts by introducing a common data processing task that involves multiple data resources. Then, this chapter explains how to automate each step of that task by introducing the required commands line tools one by one. The fourth chapter, Text Processing, shows how to filter and analyze text by using simple string matching techniques and regular expressions. The last chapter, Semantic Processing, shows how XPath queries and shell scripting is able to process complex data, such as the graphs used to specify ontologies. Besides being almost immutable for more than four decades and being available in most of our personal computers, shell scripting is relatively easy to learn by Health and Life specialists as a sequence of independent commands. Comprehending them is like conducting a new laboratory protocol by testing and understanding its procedural steps and variables, and combining their intermediate results. Thus, this book is particularly relevant to Health and Life specialists or students that want to easily learn how to process data and text, and which in return may facilitate and inspire them to acquire deeper bioinformatics skills in the future.

Strengthen your understanding of data structures and their algorithms for the foundation you need to successfully design, implement and maintain virtually any software system. Theoretical, yet practical, DATA STRUCTURES AND ALGORITHMS IN C++, 4E by experienced author Adam Drozdek highlights the fundamental connection between data structures and their algorithms, giving equal weight to the practical implementation of data structures and the theoretical analysis of algorithms and their efficiency. This edition provides critical new coverage of treaps, k-d trees and k-d B-trees, generational garbage collection, and other advanced topics such as sorting methods and a new hashing technique. Abundant C++ code examples and a variety of case studies provide valuable insights into data structures implementation. DATA STRUCTURES AND ALGORITHMS IN C++ provides the balance of theory and practice to prepare readers for a variety of applications in a modern, object-oriented paradigm. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

Explains how to use Python to blend the interactive qualities of Python with the pre-existing libraries and classes of Java, covering topics including flow control, objects, modules, and functions. Automate everyday data science tasks using command-line tools

Modern C++: Efficient and Scalable Application Development

Java Cookbook

An Approximate String Matching Based on an Exact String Matching with Constant Pattern Length

Leverage the modern features of C++ to overcome difficulties in various stages of application development

Unraveling Regular Expressions, Step-by-Step

Written with the advanced undergraduate in mind, this book introduces into the field of Bioinformatics. The authors explain the computational and conceptual background to the analysis of large-scale sequence data. Many of the corresponding analysis methods are rooted in evolutionary thinking, which serves as a common thread throughout the book. The focus is on methods of comparative genomics and subjects covered include: alignments, gene finding, phylogeny, and the analysis of single nucleotide polymorphisms (SNPs). The volume contains exercises, questions & answers to selected problems.

This is a fair overview of the basic problems in Solar Physics. The authors address not only the physics that is well understood but also discuss many open questions. The lecturers' involvement in the SOHO mission guarantees a modern and up-to-date analysis of observational data and makes this volume an extremely valuable source for further research.

Take the guesswork out of using regular expressions. With more than 140 practical recipes, this cookbook provides everything you need to solve a wide range of real-world problems. Novices will learn basic skills and tools, and programmers and experienced users will find a wealth of detail. Each recipe provides samples you can use right away. This revised edition covers the regular expression flavors used by C#, Java, JavaScript, Perl, PHP, Python, Ruby, and VB.NET. You'll learn powerful new tricks, avoid flavor-specific gotchas, and save valuable time with this huge library of practical solutions. Learn regular expressions basics through a detailed tutorial Use code listings to implement regular expressions with your language of choice Understand how regular expressions differ from language to language Handle common user input with recipes for validation and formatting Find and manipulate words, special characters, and lines of text Detect integers, floating-point numbers, and other numerical formats Parse source code and process log files Use regular expressions in URLs, paths, and IP addresses Manipulate HTML, XML, and data exchange formats Discover little-known regular expression tricks and techniques

Whether one is an amateur programmer or knows a wide range of algorithms in other languages, this book will illustrate how to carry out traditional programming tasks in a high-powered, efficient, easy-to-maintain manner with Perl. Topics range in complexity from sorting and searching to statistical algorithms, numerical analysis, and encryption.

Data and Text Processing for Health and Life Sciences

Running Weblogs with Slash

A Developer's Guide

Python Essentials

Advances on Intelligent Informatics and Computing

Practical On-Line Search Algorithms for Texts and Biological Sequences

Summary More than ever, the web is a universal platform for all types of applications, and JavaScript is the language of the web. If you're serious about web development, it's not enough to be a decent JavaScript coder. You need to be ninja-stealthy, efficient, and ready for anything. This book shows you how. Purchase of the print book includes a free eBook in PDF, Kindle, and ePub formats from Manning Publications. About the Technology JavaScript is rapidly becoming a universal language for every type of application, whether on the web, on the desktop, in the cloud, or on mobile devices. When you become a JavaScript pro, you have a powerful skill set that's usable across all these domains. About the Book Secrets of the JavaScript Ninja, Second Edition uses practical examples to clearly illustrate each core concept and technique. This completely revised edition shows you how to master key JavaScript concepts such as Functions, closures, objects, prototypes, and promises. It covers APIs such as the DOM, events, and timers. You'll discover best practice techniques such as testing, and cross-browser development, all taught from the perspective of skilled JavaScript practitioners. What's Inside Writing more effective code with functions, objects, and closures Learning to avoid JavaScript application pitfalls Using regular expressions to write succinct text processing code Managing asynchronous code with promises Fully revised to cover concepts from ES6 and ES7 About the Reader You don't have to be a ninja to read this book—just be willing to become one. Are you ready? About the Authors John Resig is an acknowledged JavaScript authority and the creator of the jQuery Library. Bear Bibeault is a web developer and author of the first edition, as well as coauthor of Ajax in Practice, Prototype and Scriptaculous in Action, and jQuery in Action from Manning. Josip Maras is a post-doctoral researcher and teacher. Table of Contents PART 1 - WARNING! UP JavaScript is everywhere Building the page at runtime PART 2 - UNDERSTANDING FUNCTIONS First-class functions for the novice: definitions and arguments Functions for the journeyman: understanding function invocation Functions for the master: closures and scopes Functions for the future: generators and promises PART 3 - DIGGING INTO OBJECTS AND FORTIFYING YOUR CODE Object orientation with prototypes Controlling access to objects Dealing with collections Wrangling regular expressions Code modularization techniques PART 4 - BROWSER RECONNAISSANCE Working the DOM Surviving events Developing cross-browser strategies

Prepare for the future of Microsoft automation with this no-nonsense guide Windows PowerShell 2 is the scripting language that enables automation within the Windows operating system. Packed with powerful new features, this latest version is complex, and Windows Powershell 2 For Dummies is the perfect guide to help system administrators get up to speed. Written by a Microsoft MVP with direct access to the program managers and developers, this book covers every new feature of Windows PowerShell 2 in a friendly, easy-to-follow format. Windows PowerShell 2 is the updated scripting language that enables system administrators to automate Windows operating systems System administrators with limited scripting experience will find this book helps them learn the fundamentals of Windows PowerShell 2 quickly and easily Translates the jargon and complex syntax of Windows PowerShell 2 Covers script debugging improvements, the ability to invoke commands remotely, and the new user interface Uses real-world applications to clarify the theory, fundamentals, and techniques of the scripting language Written by a Microsoft MVP with direct access to the developers of Windows PowerShell 2 Windows PowerShell 2 For Dummies makes this tool easily accessible to administrators of every experience level.

Prepare recent advances for simple, multiple and extended strings, regular expressions, exact and approximate matches. The papers contained in this volume were presented at the 13th Annual S- posium on Combinatorial Pattern Matching, held July 3–5, 2002 at the Hotel Uminonakamichi, in Fukuoka, Japan. They were selected from 37 abstracts s- mitted in response to the call for papers. In addition, there were invited lectures by Shinichi Morishita (University of Tokyo) and Hiroki Arimura (Kyushu U- versity). Combinatorial Pattern Matching (CPM) addresses issues of searching and matching strings and more complicated patterns such as trees, regular expr- sions, graphs, point sets, and arrays, in various formats. The goal is to derive n- trivial combinatorial properties of such structures and to exploit these properties in order to achieve superior performance for the corresponding computational problems. On the other hand, an important goal is to analyze and pinpoint the properties and conditions under which searches cannot be performed e?ciently. Over the past decade a steady ?ow of high-quality research on this subject has changed a sparse set of isolated results into a full-?edged area of algorithmics. This area is continuing to grow even further due to the increasing demand for speed and e?ciency that stems from important applications such as the World Wide Web, computational biology, computer vision, and multimedia systems. These involve requirements for information retrieval in heterogeneous databases, data compression, and pattern recognition. The objective of the annual CPM gathering is to provide an international forum for research in combinatorial p- tern matching and related applications.

R for Data Science

Regular Expressions Cookbook

7th Annual Symposium, CPM '96, Laguna Beach, California, June 10-12, 1996, Proceedings

Detailed Solutions in Eight Programming Languages

Computational Processing of the Portuguese Language

Professional ASP.NET MVC 5

This is written for system administrators who may not have the time to learn about Slash by reading the source code. It collects all the current Slash knowledge from the code, Website and mailing lists and organizes it into a coherent package.

Learn in C++ and leverage the latest features using modern programming techniques. Key FeaturesDevelop strong C++ skills to build a variety of applicationsExplore features of C++17, such as containers, algorithms, and threadsGrasp the standard support for threading and concurrency and use them in basic daily tasksBook Description C++ is one of the most widely used programming languages. It is fast, flexible, and used to solve many programming problems. This Learning Path gives you an in-depth and hands-on experience of working with C++, using the latest recipes and understanding most recent developments. You will explore C++ programming constructs by learning about language structures, functions, and classes, which will help you identify the execution flow through code. You will also understand the importance of the C++ standard library as well as memory allocation for writing better and faster programs. Modern C++: Efficient and Scalable Application Development deals with the challenges faced with advanced C++ programming. You will work through advanced topics such as multithreading, networking, concurrency, lambda expressions, and many more recipes. By the end of this Learning Path, you will have all the skills to become a master C++ programmer. This Learning Path includes content from the following Packt products: Beginning C++ Programming by Richard GrimesModern C++ Programming Cookbook by Marius BancilaThe Modern C++ Challenge by Marius Bancila What you will learnBecome familiar with the structure of C++ projectsIdentify the main structures in the language: functions and classesLearn to debug your programsLeverage C++ features to obtain increased robustness and performanceExplore functions and callable objects with a focus on modern featuresSerialize and deserialize JSON and XML dataCreate client-server applications that communicate over TCP/IPUse design patterns to solve real-world problemsWho this book is for This Learning Path is designed for developers who want to gain a solid foundation in C++. The desire to learn how to code in C++ is all you need to get started with this Learning Path.

The second edition of this best-selling Python book (over 500,000 copies sold!) uses Python 3 to teach even the technically unclined how to write programs that do in minutes what would take hours to do by hand. There is no prior programming experience required and the book is loved by liberal arts majors and geeks alike. If you've ever spent hours renaming files or updating hundreds of spreadsheet cells, you know how tedious tasks like these can be. But what if you could have your computer do them for you? In this fully revised second edition of the best-selling classic Automate the Boring Stuff with Python, you'll learn how to use Python to write programs that do in minutes what would take you hours to do by hand--no prior programming experience required. You'll learn the basics of Python's rich library of modules for performing specific tasks, like scraping data off websites, reading PDF and Word documents, and automating clicking and typing tasks. The second edition of this international fan favorite includes a brand-new chapter on input validation, as well as tutorials on automating Gmail and Google Sheets, plus tips on automatically updating CSV files. You'll learn how to create programs that effortlessly perform useful feats of automation to: • Search for text in a file or across multiple files • Create, update, move, and rename files and folders • Search the Web and download online content • Update and format data in Excel spreadsheets of any size • Split, merge, watermark, and encrypt PDFs • Send email responses and text notifications • Fill out online forms Step-by-step instructions walk you through each program, and updated practice projects at the end of each chapter challenge you to improve those programs and use your newfound skills to automate similar tasks. Don't spend your time doing work a well-trained monkey could do. Even if you've never written a line of code, you can make your computer do the grunt work. Learn how in Automate the Boring Stuff with Python, 2nd Edition.

The science of gathering and extracting information from data-intensive applications bring in the challenge of writing complex libraries and efficient programs using high level languages like Python, R, so on. This book aims to explore the power of "Unix-styled" scripting tools like awk, bash, grep and package them as highly efficient built-in ...

OCF Java SE 7 Programmer II Certification Guide

13th Annual Symposium, CPM 2002 Fukuoka, Japan, July 3-5, 2002 Proceedings

Solutions and Examples for Java Developers

Windows Script Host

14th Annual Symposium, CPM 2003, Morelia, Michoacán, Mexico, June 25-27, 2003, Proceedings

Combinatorial Pattern Matching

Learn how to use R to turn raw data into insight, knowledge, and understanding. This book introduces you to R, RStudio, and the tidyverse, a collection of R packages designed to work together to make data science fast, fluent, and fun. Suitable for readers with no previous programming experience, R for Data Science is designed to get you doing data science as quickly as possible. Authors Hadley Wickham and Garrett Grolemund guide you through the steps of importing, wrangling, exploring, and modeling your data and communicating the results. You'll get a complete, big-picture understanding of the data science cycle, along with basic tools you need to manage the details. Each section of the book is paired with exercises to help you practice what you've learned along the way. You'll learn how to: Wrangle—transform your datasets into a form convenient for analysis Program—learn powerful R tools for solving data problems with greater clarity and ease Explore—examine your data, generate hypotheses, and quickly test them Model—provide a low-dimensional summary that captures true "signals" in your dataset Communicate—learn R Markdown for integrating prose, code, and results

Summary OCP Java SE 7 Programmer I Certification Guide is a concise, focused study guide that prepares you to pass the OCP Java SE 7 Programmer II exam (1Z0-804) the first time you take it. The book systematically guides you through each exam objective, teaching and reinforcing the Java skills you need through examples, exercises, and cleverly constructed visual aids. In every chapter you'll find questions just like the ones you'll face in the real exam. Exam tips, diagrams, and review notes structure the learning process for easy retention. Purchase of the print book includes a free eBook in PDF, Kindle, and ePub formats from Manning Publications. About the Book The OCP Java 7 certification tests potential employers that you've mastered the language skills you need to design and build professional-quality Java software. Passing the OCP isn't just about knowing your Java, though. You have to also know what to expect on the exam and how to beat the built-in tricks and traps. OCP Java SE 7 Programmer II Certification Guide is a comprehensive, focused study guide that prepares you to pass the OCP exam the first time you take it. It systematically guides you through each exam objective, teaching and reinforcing the Java skills you need through examples, exercises, and cleverly constructed visual aids. In every chapter you'll find questions just like the ones you'll face on the real exam. Exam tips, diagrams, and review notes give structure to the learning process to improve your retention. Designed for readers with intermediate-level Java skills, What's Inside 100% coverage of the OCP Java SE 7 Programmer II exam (1Z0-804) Flowcharts, UML diagrams, and other visual aids Hands-on coding exercises Focuses on passing the exam, not the Java language itself About the Author Mala Gupta has been training programmers to pass Java certification exams since 2006. She holds the OCP Java SE 7 Programmer, SCWCD, and SCJP certifications and is the author of OCA Java SE 7 Programmer, I Certification Guide (Manning 2013). Table of Contents Java class design Advanced class design Object-oriented design principles Generics and collections String processing Exceptions and assertions Java I/O fundamentals Java file I/O (NIO.2) Building database applications with JDBC Threads Concurrency Localization Bonus online chapter - Mock exam

From lambda expressions and JavaFX 8 to new support for network programming and mobile development, Java 8 brings a wealth of changes. This cookbook helps you get up to speed right away with hundreds of hands-on recipes across a broad range of Java topics. You'll learn useful techniques for everything from debugging and data structures to GUI development and functional programming. Each recipe includes self-contained code solutions that you can freely use, along with a discussion of how and why they work. If you are familiar with Java basics, this cookbook will bolster your knowledge of the language in general and Java 8's main APIs in particular. Recipes include: Methods for compiling, running, and debugging Manipulating, comparing, and rearranging text Regular expressions for string- and pattern-matching Handling numbers, dates, and times Structuring data with collections, arrays, and other types Object-oriented and functional programming techniques Directory and filesystem operations Working with graphics, audio, and video GUI development, including JavaFX and handlers Network programming on both client and server Database access, using JPA, Hibernate, and JDBC Processing JSON and XML for data storage Multithreading and concurrency

A technical expert offers critical information on using the scripting tool that is native to Windows NT/2000 and designed to automate Windows applications and administrative tasks.

MySQL Cookbook

A Modern Introduction to Programming

An Evolutionary Approach

26th Annual Symposium, CPM 2015, Ischia Island, Italy, June 29 -- July 1, 2015, Proceedings

Analytic Pattern Matching

Secrets of the JavaScript Ninja

One of Springer' s renowned Major Reference Works, this awesome achievement provides a comprehensive set of solutions to important algorithmic problems for students and researchers interested in quickly locating useful information. This first edition of the reference focuses on high-impact solutions from the most recent decade, while later editions will widen the scope of the work. All entries have been written by experts, while links to Internet sites that outline their research work are provided. The entries have all been peer-reviewed. This defining reference is published both in print and on line.

A unique probabilistic approach to studying pattern matching problems in computer science, telecommunications, molecular biology and more.

Machine generated contents note: Chapter 1: Tcl/Tk Features Chapter 2: The Mechanics of Using the Tcl and Tk Interpreters Chapter 3: Introduction to the Tcl Language Chapter 4: File System, Disk I/O and Sockets Chapter 5: Using Strings and Lists Chapter 6: Basic list, array and dict Chapter 7: Advanced List, array and dict Chapter 8: Procedure Techniques Chapter 9: Namespaces Chapter 10: Basic TclOO Chapter 11: Advanced TclOO Chapter 12: Packages and modules Chapter 13: Introduction to Tk Graphics Chapter 14: Overview of the canvas Widget Chapter 15: The text widget and htmlib Chapter 16: Themed Widgets Chapter 17: Tk Megawidgets Chapter 18: Writing a Tcl Extension Chapter 19: Extensions and Packages Chapter 20: Programming Tools Chapter 21: Debugging and Optimization techniques Chapter 22: Tips and Techniques .

John K. Ousterhout 's: Definitive Introduction to Tcl/Tk – Now Fully Updated for Tcl/Tk 8.5 Tcl and the Tk Toolkit, Second Edition, is the fastest way for newcomers to master Tcl/Tk and is the most authoritative resource for experienced programmers seeking to gain from Tcl/Tk 8.5 ' s powerful enhancements. Written by Tcl/Tk creator John K. Ousterhout and top Tcl/Tk trainer Ken Jones, this updated volume provides the same extraordinary clarity and careful organization that made the first edition the world ' s number one Tcl/Tk tutorial. Part I introduces Tcl/Tk through simple scripts that demonstrate its value and offer a flavor of the Tcl/Tk scripting experience. The authors then present detailed, practical guidance on every feature necessary to build effective, efficient production applications—including variables, expressions, strings, lists, dictionaries, control flow, procedures, namespaces, file and directory management, interprocess communication, error and exception handling, creating and using libraries, and more. Part II turns to the Tk extension and Tk 8.5 ' s new themed widgets, showing how to organize sophisticated user interface elements into modern GUI applications for Tcl. Part III presents incomparable coverage of Tcl ' s C functions, which are used to create new commands and packages and to integrate Tcl with existing C software – thereby leveraging Tcl ' s simplicity while accessing C libraries or executing performance-intensive tasks. Throughout, the authors illuminate all of Tcl/Tk 8.5 ' s newest, most powerful improvements. You ' ll learn how to use new Startkits and Starpacks to distribute run-time environments and applications through a single file; how to take full advantage of the new virtual file system support to treat entities such as zip archives and HTTP sites as mountable file systems; and more. From basic syntax to simple Tcl commands, user interface development to C integration, this fully updated classic covers it all. Whether you ' re using Tcl/Tk to automate system/network administration, streamline testing, control hardware, or even build desktop or Web applications, this is the one Tcl/Tk book you ' ll always turn to for answers.

Automate the Boring Stuff with Python, 2nd Edition

9th Annual Symposium, CPM'98, Piscataway, New Jersey, USA, July 20-22, 1998, Proceedings

Discrete Algorithms

Handbook of Research on Evolving Designs and Innovation in ICT and Intelligent Systems for Real-World Applications

Health Informatics, Intelligent Systems, Data Science and Smart Computing

Groovy for Domain-specific Languages

JavaScript is an essential language for creating modern, interactive websites, but its complex rules challenge even the most experienced web designers. With JavaScript: The Missing Manual, you'll quickly learn how to use JavaScript in sophisticated ways -- without pain or frustration -- even if you have little or no programming experience. JavaScript expert David McFarland first teaches you the basics by having you build a simple program. Then you'll learn how to work with jQuery, a popular library of pre-built JavaScript components that's free and easy to use. With jQuery, you can quickly build modern, interactive web pages -- without having to script everything from scratch! Learn how to add scripts to a web page, store and manipulate information, communicate with the browser window, respond to events like mouse clicks and form submissions, and identify and modify HTML. Get real-world examples of JavaScript in action Learn to build pop-up navigation bars, enhance HTML tables, create an interactive photo gallery, and make web forms more usable Create interesting user interfaces with tabbed panels, accordion panels, and pop-up dialog boxes Learn to avoid the ten most common errors new programmers make, and how to find and fix them Use JavaScript with Ajax to communicate with a server so that your web pages can receive information without having to reload

Regular Expressions CookbookDetailed Solutions in Eight Programming Languages"O'Reilly Media, Inc."

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 it 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 JVM meant you were a Java programmer have done. 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.

If you're a programmer new to regular expressions, this easy-to-follow guide is a great place to start. You'll learn the fundamentals step-by-step with the help of numerous examples, discovering first-hand how to match, extract, and transform text by matching specific words, characters, and patterns. Regular expressions are an essential part of a programmer's toolkit, available in various Unix utilities as well as programming languages such as Perl, Java, JavaScript, and C#. When you've finished this book, you'll be familiar with the most commonly used syntax in regular expressions, and you'll understand how using them will save you considerable time. Discover what regular expressions are and how they work Learn many of the differences between regular expressions used with command-line tools and in various programming languages Apply simple methods for finding patterns in text, including digits, letters, Unicode characters, and string literals Learn how to use zero-width assertions and lookarounds Work with groups, backreferences, character classes, and quantifiers Use regular expressions to mark up plain text with HTML5

JavaScript: The Missing Manual

The Missing Manual

Introduction to Computational Biology

Hands-On Data Science with the Command Line

Mastering Algorithms with Perl

Flexible Pattern Matching in Strings

The refereed proceedings of the 14th Annual Symposium on Combinatorial Pattern Matching, CPM 2003, held in Morelia, Michoacán, Mexico in June 2003. The 28 revised full papers presented were carefully reviewed and selected from 57 submissions. The papers are devoted to current theoretical and computational aspects of searching and matching strings and more complicated patterns, such as trees, regular expressions, graphs, point sets, and arrays. Among the application fields addressed are computational biology, bioinformatics, genomics, the Web, data compression, coding, multimedia, information retrieval, pattern recognition, and computer vision.

During the past two decades there has been a considerable growth in interest in problems of pattern recognition and image processing (PRIP). This inter est has created an increasing need for methods and techniques for the design of PRIP systems. PRIP involves analysis, classification and interpretation of data. Practical applications of PRIP include character recognition, rote sensing, analysis of medical signals and images, fingerprint and face identification, target recognition and speech understanding. One difficulty in making PRIP systems practically feasible, and hence, more popularly used, is the requirement of computer time and storage. This situation is particularly serious when the patterns to be analyzed are quite complex. Thus it is of the utmost importance to investigate special comput er architectures and their implementations for PRIP. Since the advent of VLSI technology, it is possible to put thousands of components on one chip. This reduces the cost of processors and increases the processing speed. VLSI algorithms and their implementations have been recently developed for PRIP. This book is intended to document the recent major progress in VLSI system design for PRIP applications.

String matching is a very important subject in the wider domain of text processing. It consists of finding one, or more generally, all the occurrences of a string (more generally called a pattern) in a text. The Handbook of Exact String Matching Algorithms presents 38 methods for solving this problem. For each, it gives the main features, a description, its C code, an example and references.

This proceedings is designed for computer scientists, engineers and mathematicians interested in the use, design and analysis of algorithms, with special emphasis on questions of efficiency.

VLSI for Pattern Recognition and Image Processing

15th International Conference, PROPOR 2022, Fortaleza, Brazil, March 21–23, 2022, Proceedings

Windows PowerShell 2 For Dummies

Handbook of Exact String Matching Algorithms

Practical Programming for Total Beginners

Eloquent JavaScript, 3rd Edition

The relentless advances in all areas of information and communication technology, intelligent systems, and related domains have continued to drive innovative research. Most of these works have attempted to contribute in some form towards improving human life in general and have become indispensable elements of our day-to-day lives. The evolution continues at an accelerated pace while the world faces innumerable challenges and rapid advances in artificial intelligence, wireless communication, sensors, cloud and edge computing, and biomedical sciences. These advances must be documented and studied further in order to ensure society's continual development. The Handbook of Research on Evolving Designs and Innovation in ICT and Intelligent Systems for Real-World Applications disseminates details of works undertaken by various groups of researchers in emerging areas related to information and communication technology, electronics engineering, intelligent systems, and allied disciplines with real-world applications. Covering a wide range of topics such as augmented reality and wireless sensor networks, this major reference work is ideal for industry professionals, researchers, scholars, practitioners, academicians, engineers, instructors, and students.

This book constitutes the refereed proceedings of the 26th Annual Symposium on Combinatorial Pattern Matching, CPM 2015, held on Ischia Island, Italy, in June/July 2015. The 34 revised full papers presented together with 3 invited talks were carefully reviewed and selected from 83 submissions. The papers address issues of searching and matching strings and more complicated patterns such as trees; regular expressions; graphs; point sets; and arrays. The goal is to derive combinatorial properties of such structures and to exploit these properties in order to achieve superior performance for the corresponding computational problems. The meeting also deals with problems in computational biology; data compression and data mining; coding; information retrieval; natural language processing; and pattern recognition.

This volume features select refereed proceedings from the 18th Annual Symposium on Combinatorial Pattern Matching. Collectively, the papers provide great insights into the most recent advances in combinatorial pattern matching. They are organized into topical sections covering algorithmic techniques, approximate pattern matching, data compression, computational biology, pattern analysis, suffix arrays and trees, and algorithmic techniques.

Tcl and the Tk Toolkit

Encyclopedia of Algorithms

Introducing Regular Expressions

Data Structures and Algorithms in C++