Perl 6 Fundamentals A Primer With Examples Projects And Case Studies

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Raku Fundamentals - Moritz Lenz 2020-09-06 Gain the skills to begin developing Raku applications from the ground up in this hands-on compact book, which includes a foreword from Larry Wall, creator of Perl. You'll learn enough to get started building with Raku, using Raku's

gradual typing, handy object orientated features, powerful parsing capabilities, and human-usable concurrency. This book has been updated to include the latest version of Raku based upon the Perl 6.d major version which includes over 3,400 new commits in its specification. After a short introduction, each chapter develops a small example project, explaining the Raku features used. When the example is done, you'll explore another aspect, such as optimizing further for readability or testing the code. Along the way you'll see Raku basics, such as variables and scoping; subroutines; classes and objects; regexes; and code testing. When you've mastered the basics, Raku Fundamentals moves onto more advanced topics to give you a deeper understanding of the language. You'll learn, amongst other things, how to work with persistent storage, how to generate good error messages, and how to write tricky applications such as a file and directory usage graph and a Unicode search tool. What You Will Learn Get coding with latest version of Raku Work on several hands-on examples and projects Integrate Python libraries into your Raku-based programs Parse INI files using regexes and grammars Build a date-time converter Carry out refactoring and other automated tests Who This Book Is For If you already know one or more programming languages, and want to learn about Raku, then this book is for you.

Python - Oswald Campesato 2012-12-15 As part of the new Pocket Primer series, this book provides an overview of the major aspects and the source code to use Python 2. It covers the latest Python developments, built-in functions and custom classes, data visualization, graphics, databases, and more. It includes a companion disc with appendices, source code, and figures. This Pocket Primer is primarily for self-directed learners who want to learn Python 2 and it serves as a starting point for deeper exploration of Python programming. Features: +Includes a companion disc with appendices,

source code, and figures +Contains material devoted to Raspberry Pi, Roomba, JSON, and Jython +Includes latest Python 2 developments, built-in functions and custom classes, data visualization, graphics, databases, and more +Provides a solid introduction to Python 2 via complete code samples On the CD-ROM: +Appendices (HTML5 and JavaScript Toolkits, Jython, SPA) +Source code samples +All images from the text (including 4-color) +Solutions to Odd-Numbered Exercises

Python for Data Analysis - Wes McKinney 2017-09-25
Get complete instructions for manipulating, processing, cleaning, and crunching datasets in Python. Updated for Python 3.6, the second edition of this hands-on guide is packed with practical case studies that show you how to solve a broad set of data analysis problems effectively. You'll learn the latest versions of pandas, NumPy, IPython, and Jupyter in the process. Written by Wes McKinney, the creator of the Python pandas project, this book is a practical, modern introduction to data science tools in Python. It's ideal for analysts new to Python and for Python programmers new to data science and scientific computing. Data files and related material are available on GitHub. Use the IPython shell and Jupyter notebook for exploratory computing Learn basic and advanced features in NumPy (Numerical Python) Get started with data analysis tools in the pandas library Use flexible tools to load, clean, transform, merge, and reshape data Create informative visualizations with matplotlib Apply the pandas groupby facility to slice, dice, and summarize datasets Analyze and manipulate regular and irregular time series data Learn how to solve real-world data analysis problems with thorough, detailed examples

C++ Primer Plus - Stephen Prata 2011-10-18
C++ Primer Plus, Sixth Edition New C++11 Coverage C++ Primer Plus is a carefully crafted, complete tutorial on one of the most significant

and widely used programming languages today. An accessible and easy-to-use self-study guide, this book is appropriate for both serious students of programming as well as developers already proficient in other languages. The sixth edition of C++ Primer Plus has been updated and expanded to cover the latest developments in C++, including a detailed look at the new C++11 standard. Author and educator Stephen Prata has created an introduction to C++ that is instructive, clear, and insightful. Fundamental programming concepts are explained along with details of the C++ language. Many short, practical examples illustrate just one or two concepts at a time, encouraging readers to master new topics by immediately putting them to use. Review questions and programming exercises at the end of each chapter help readers zero in on the most critical information and digest the most difficult concepts. In C++ Primer Plus, you'll find depth, breadth, and a variety of teaching techniques and tools to enhance your learning: A new detailed chapter on the changes and additional capabilities introduced in the C++11 standard Complete, integrated discussion of both basic C language and additional C++ features Clear guidance about when and why to use a feature Hands-on learning with concise and simple examples that develop your understanding a concept or two at a time Hundreds of practical sample programs Review questions and programming exercises at the end of each chapter to test your understanding Coverage of generic C++ gives you the greatest possible flexibility Teaches the ISO standard, including discussions of templates, the Standard Template Library, the string class, exceptions, RTTI, and namespaces Table of Contents 1: Getting Started with C++ 2: Setting Out to C++ 3: Dealing with Data 4: Compound Types 5: Loops and Relational Expressions 6: Branching Statements and Logical Operators 7: Functions: C++'s Programming Modules 8: Adventures in

Functions 9: Memory Models and Namespaces 10: Objects and Classes 11: Working with Classes 12: Classes and Dynamic Memory Allocation 13: Class Inheritance 14: Reusing Code in C++ 15: Friends, Exceptions, and More 16: The string Class and the Standard Template Library 17: Input, Output, and Files 18: The New C++11 Standard A Number Bases B C++ Reserved Words C The ASCII Character Set D Operator Precedence E Other Operators F The stringTemplate Class G The Standard Template Library Methods and Functions H Selected Readings and Internet Resources I Converting to ISO Standard C++ J Answers to Chapter Reviews

Text Mining with R - Julia Silge 2017-06-12 Chapter 7. Case Study : Comparing Twitter Archives; Getting the Data and Distribution of Tweets; Word Frequencies; Comparing Word Usage; Changes in Word Use; Favorites and Retweets; Summary; Chapter 8. Case Study : Mining NASA Metadata; How Data Is Organized at NASA; Wrangling and Tidying the Data; Some Initial Simple Exploration; Word Co-ocurrences and Correlations; Networks of Description and Title Words; Networks of Keywords; Calculating tf-idf for the Description Fields; What Is tf-idf for the Description Field Words?; Connecting Description Fields to Keywords; Topic Modeling.
Advanced Linux Programming - CodeSourcery LLC 2001-06-11
This is the eBook version of the printed book. If the print book includes a CD-ROM, this content is not included within the eBook version. Advanced Linux Programming is divided into two parts. The first covers generic UNIX system services, but with a particular eye towards Linux specific information. This portion of the book will be of use even to advanced programmers who have worked with other Linux systems since it will cover Linux specific details and differences. For programmers without UNIX experience, it will be even more valuable. The second section covers material that is entirely Linux specific.

These are truly advanced topics, and are the techniques that the gurus use to build great applications. While this book will focus mostly on the Application Programming Interface (API) provided by the Linux kernel and the C library, a preliminary introduction to the development tools available will allow all who purchase the book to make immediate use of Linux.

Bash Guide for Beginners (Second Edition) - Machtelt Garrels 2010
The Bash Guide for Beginners (Second Edition) discusses concepts useful in the daily life of the serious Bash user. While a basic knowledge of shell usage is required, it starts with a discussion of shell building blocks and common practices. Then it presents the grep, awk and sed tools that will later be used to create more interesting examples. The second half of the course is about shell constructs such as loops, conditional tests, functions and traps, and a number of ways to make interactive scripts. All chapters come with examples and exercises that will help you become familiar with the theory.

Learning Perl 6 - brian d foy 2018-08-24
f you're ready to get started with Raku (formerly Perl 6), this is the book you want, whether you're a programmer, system administrator, or web hacker. Raku is a new language—a modern reinvention of Perl suitable for almost any task, from short fixes to complete web applications. This hands-on tutorial gets you started. Author brian d foy (Mastering Perl) provides a sophisticated introduction to this new programming language. Each chapter in this guide contains exercises to help you practice what you learn as you learn it. Other books may teach you to program in Raku, but this book will turn you into a Raku programmer. Learn how to work with: Numbers, strings, blocks, and positionals Files and directories and input/output Associatives, subroutines, classes, and roles Junctions and sets Regular expressions and built-in grammars Concurrency features: Promises, supplies, and channels Controlling

external programs and other advanced features
Think Perl 6 - Laurent Rosenfeld 2017-05-08
Want to learn how to program and think like a computer scientist? This practical guide gets you started on your programming journey with the help of Perl 6, the younger sister of the popular Perl programming language. Ideal for beginners, this hands-on book includes over 100 exercises with multiple solutions, and more than 1,000 code examples so you can quickly practice what you learn. Experienced programmers—especially those who know Perl 5—will also benefit. Divided into two parts, Think Perl 6 starts with basic concepts that every programmer needs to know, and then focuses on different programming paradigms and some more advanced programming techniques. With two semesters' worth of lessons, this book is the perfect teaching tool for computer science beginners in colleges and universities. Learn basic concepts including variables, expressions, statements, functions, conditionals, recursion, and loops Understand commonly used basic data structures and the most useful algorithms Dive into object-oriented programming, and learn how to construct your own types and methods to extend the language Use grammars and regular expressions to analyze textual content Explore how functional programming can help you make your code simpler and more expressive
Parsing with Perl 6 Regexes and Grammars - Moritz Lenz 2017-12-04
Write good regexes and parsers with the Perl 6 programming language. You'll see how regexes are used for searching, parsing, and validation: in particular the grammar extension makes them uniquely suitable for parsing, the main focus of this book. Written by Perl 6 expert Moritz Lenz, a core contributor of Rakudo, Parsing with Perl 6 Regexes and Grammars starts from the very basics of regular expressions, and then explores how they integrate with regular Perl 6 code. Then follows a deeper exploration of how regexes work under the hood and a discussion of

common techniques for constructing regexes and exploring the data under scrutiny. Later material goes beyond relatively simple formats to reusable named regexes and grammars, which permit code reuse in grammars, and shows how to write parsers for more involved data formats. Error reporting and case studies wrap up the topic. While regexes allow you to search for patterns in text and validate input, Perl 6 regexes advance that concept: you'll see how they are easier to read, yet much more powerful, than the traditional "Perl-compatible regular expression". With improved reusability and backtracking control, you will be able to write complete parsers with the help of this book. What You'll Learn Discover the building blocks of Perl 6 regexes Handle regex mechanics and master useful regex techniques Extract data and work with patterns among these use cases Reuse named regexes and other grammars as components or templates Write full parsers, including advanced error reporting and data extraction Learn how to parse nested scopes and indention-based formats Who This Book Is For Those with at least some prior experience with Perl programming, but who may be new to Perl 6 as well as searching and parsing.

Head First Python - Paul Barry 2010-11-22
A guide to the programming language describes how to build Python-enabled Web servers and applications, write mobile apps on the Android platform, develop sophisticated games, build GUI-based programs, and write Python scripts to automate tasks.

Programming Perl - Larry Wall 2000-07-14
Perl is a powerful programming language that has grown in popularity since it first appeared in 1988. The first edition of this book, Programming Perl, hit the shelves in 1990, and was quickly adopted as the undisputed bible of the language. Since then, Perl has grown with the times, and so has this book.Programming Perl is not just a book about Perl. It is also a unique introduction to the language and its

culture, as one might expect only from its authors. Larry Wall is the inventor of Perl, and provides a unique perspective on the evolution of Perl and its future direction. Tom Christiansen was one of the first champions of the language, and lives and breathes the complexities of Perl internals as few other mortals do. Jon Orwant is the editor ofThe Perl Journal, which has brought together the Perl community as a common forum for new developments in Perl.Any Perl book can show the syntax of Perl's functions, but only this one is a comprehensive guide to all the nooks and crannies of the language. Any Perl book can explain typeglobs, pseudohashes, and closures, but only this one shows how they really work. Any Perl book can say that my is faster than local, but only this one explains why. Any Perl book can have a title, but only this book is affectionately known by all Perl programmers as "The Camel."This third edition of Programming Perl has been expanded to cover version 5.6 of this maturing language. New topics include threading, the compiler, Unicode, and other new features that have been added since the previous edition.

Teach Yourself Java for Macintosh in 21 Days - Laura Lemay 1996-01-01
Takes a tutorial approach towards developing and serving Java applets, offering step-by-step instruction on such areas as motion pictures, animation, applet interactivity, file transfers, sound, and type. Original. (Intermediate).

Sams Teach Yourself Perl in 24 Hours - Clinton Pierce 2005
Offers a tutorial explaining how to use Perl scripts and modules to create such CGI Web applications as data collection, shopping cart, server push, and e-mail forms.

PHP 5 Power Programming - Andi Gutmans 2005
Written by the authors of the actual PHP code! The authoritative developer's guide to mastering advanced PHP 5 techniques.

WebSphere MQ V6 Fundamentals - Saida

Davies 2005-12-15
This IBM Redbooks publication describes the fundamental concepts and benefits of message queuing technology. This book is an update of a very popular Redpaper (REDP-0021) based on IBM WebSphere MQ Versions 5.0 to 5.2. This publication provides a design-level overview and technical introduction for the established and reliable WebSphere MQ product. A broad technical understanding of the WebSphere MQ product can improve design and implementation decisions for WebSphere MQ infrastructures and applications. To reduce the time required to gain this understanding, this book summarizes relevant information from across the WebSphere MQ product documentation. We also include hands-on security and troubleshooting sections to aid understanding and provide a reference for common administrative actions performed when building and maintaining WebSphere MQ infrastructures. In the appendix, we provide a summary of the new features in WebSphere MQ

Version 6.0.

Pro Perl - Peter Wainwright 2006-11-01
*Condensed, readable style; delivers tremendous value in just one book. This book offers *THE resource for focused and pragmatic industrial solutions in Perl, while the competing *best-sellers are older, quirkier and shallower treatments of Perl. *Thorough discussion of Perl—from installations to applications development; ideal for working Perl programmers in 2005. *Wainwright is a respected Perl expert and author of industry-respected Pro Apache title.

Data Visualization - Kieran Healy 2018-12-18
An accessible primer on how to create effective graphics from data This book provides students and researchers a hands-on introduction to the principles and practice of data visualization. It explains what makes some graphs succeed while others fail, how to make high-quality figures from data using powerful and reproducible methods, and how to think about data

visualization in an honest and effective way. Data Visualization builds the reader's expertise in ggplot2, a versatile visualization library for the R programming language. Through a series of worked examples, this accessible primer then demonstrates how to create plots piece by piece, beginning with summaries of single variables and moving on to more complex graphics. Topics include plotting continuous and categorical variables; layering information on graphics; producing effective "small multiple" plots; grouping, summarizing, and transforming data for plotting; creating maps; working with the output of statistical models; and refining plots to make them more comprehensible. Effective graphics are essential to communicating ideas and a great way to better understand data. This book provides the practical skills students and practitioners need to visualize quantitative data and get the most out of their research findings. Provides hands-on instruction using R and ggplot2 Shows how the "tidyverse" of data analysis tools makes working with R easier and more consistent Includes a library of data sets, code, and functions

Learning SQL - Alan Beaulieu 2009-04-11 Updated for the latest database management systems -- including MySQL 6.0, Oracle 11g, and Microsoft's SQL Server 2008 -- this introductory guide will get you up and running with SQL quickly. Whether you need to write database applications, perform administrative tasks, or generate reports, Learning SQL, Second Edition, will help you easily master all the SQL fundamentals. Each chapter presents a self-contained lesson on a key SQL concept or technique, with numerous illustrations and annotated examples. Exercises at the end of each chapter let you practice the skills you learn. With this book, you will: Move quickly through SQL basics and learn several advanced features Use SQL data statements to generate, manipulate, and retrieve data Create database objects, such as tables, indexes, and constraints,

using SQL schema statements Learn how data sets interact with queries, and understand the importance of subqueries Convert and manipulate data with SQL's built-in functions, and use conditional logic in data statements Knowledge of SQL is a must for interacting with data. With Learning SQL, you'll quickly learn how to put the power and flexibility of this language to work.

Groovy Programming - Kenneth Barclay 2010-07-27
Groovy Programming is an introduction to the Java-based scripting language Groovy. Groovy has much in common with popular scripting languages such as Perl, Python, and Ruby, but is written in a Java-like syntax. And, unlike these other languages, Groovy is sanctioned by the Java community for use on the Java platform. Since it is based on Java, applications written in Groovy can make full use of the Java Application Programmer Interfaces (APIs). This means Groovy can integrate seamlessly with applications written in Java, while avoiding the complexities of the full Java language. This bare-bones structure also means Groovy can be used as an introduction to Java and to programming in general. Its simpler constructions and modern origins make it ideal as a first language and for introducing principles such as object-oriented programming. This book introduces all the major aspects of Groovy development and emphasizes Groovy's potential as a learning tool. Case studies and exercises are included, along with numerous programming examples. The book begins assuming only a general familiarity with Java programming, and progresses to discuss advanced topics such as GUI builders, Groovlets, Unit Testing, and Groovy SQL. The first comprehensive book on Groovy programming that shows how writing applications and scripts for the Java platform is fast and easy Written by leading software engineers and acclaimed computing instructors Offers numerous programming examples, code samples, detailed

case studies, exercises for self-study, and a companion website with a Windows-based Groovy editor

Essential C++ - Stanley B. Lippman 2000 Finally, a great introduction to ANCI C++ for working programmers! Lippmann--who worked under the leadership of Bjarne Stroustrup, wrote the classic "C++ Primer", and now works as a C++ programmer at DreamWorks--teaches programmers exactly what they need to know to get immediate results. From start to finish, each concept and technique is presented through real programs designed to solve the problems C++ programmers are most likely to encounter.

Programming in Scala - Martin Odersky 2008 Presents an introduction to the new programming language for the Java Platform.

IPv6 Fundamentals - Rick Graziani 2017-06-06 Organizations are increasingly transitioning to IPv6, the next generation protocol for defining how devices of all kinds communicate over networks. Now fully updated, IPv6 Fundamentals offers a thorough, friendly, and easy-to-understand introduction to the knowledge and skills you need to deploy and operate IPv6 networks. Leading networking instructor Rick Graziani explains all the basics simply and clearly, step-by-step, providing all the details you'll need to succeed. You'll learn why IPv6 is necessary, how it was created, how it works, and how it has become the protocol of choice in environments ranging from cloud to mobile and IoT. Graziani thoroughly introduces IPv6 addressing, configuration options, and routing protocols, including EIGRP for IPv6, and OSPFv3 (traditional configuration and with address families). Building on this coverage, he then includes more in-depth information involving these protocols and processes. This edition contains a completely revamped discussion of deploying IPv6 in your network, including IPv6/IPv4 integration, dynamic address allocation, and understanding IPv6 from the perspective of the network and host. You'll

also find improved coverage of key topics such as Stateless Address Autoconfiguration (SLAAC), DHCPv6, and the advantages of the solicited node multicast address. Throughout, Graziani presents command syntax for Cisco IOS, Windows, Linux, and Mac OS, as well as many examples, diagrams, configuration tips, and updated links to white papers and official RFCs for even deeper understanding. Learn how IPv6 supports modern networks encompassing the cloud, mobile, IoT, and gaming devices Compare IPv6 with IPv4 to see what has changed and what hasn't Understand and represent IPv6 addresses for unicast, multicast, and anycast environments Master all facets of dynamic IPv6 address allocation with SLAAC, stateless DHCPv6, and stateful DHCPv6 Understand all the features of deploying IPv6 addresses in the network including temporary addresses and the privacy extension Improve operations by leveraging major enhancements built into ICMPv6 and ICMPv6 Neighbor Discovery Protocol Configure IPv6 addressing and Access Control Lists using a common topology Implement routing of IPv6 packets via static routing, EIGRP for IPv6, and OSPFv3 Walk step-by-step through deploying IPv6 in existing networks, and coexisting with or transitioning from IPv4

Software Testing and Analysis - Mauro Pezze 2008
Teaches readers how to test and analyze software to achieve an acceptable level of quality at an acceptable cost Readers will be able to minimize software failures, increase quality, and effectively manage costs Covers techniques that are suitable for near-term application, with sufficient technical background to indicate how and when to apply them Provides balanced coverage of software testing & analysis approaches By incorporating modern topics and strategies, this book will be the standard software-testing textbook

The Book of R - Tilman M. Davies 2016-07-16

The Book of R is a comprehensive, beginner-friendly guide to R, the world's most popular programming language for statistical analysis. Even if you have no programming experience and little more than a grounding in the basics of mathematics, you'll find everything you need to begin using R effectively for statistical analysis. You'll start with the basics, like how to handle data and write simple programs, before moving on to more advanced topics, like producing statistical summaries of your data and performing statistical tests and modeling. You'll even learn how to create impressive data visualizations with R's basic graphics tools and contributed packages, like ggplot2 and ggvis, as well as interactive 3D visualizations using the rgl package. Dozens of hands-on exercises (with downloadable solutions) take you from theory to practice, as you learn: –The fundamentals of programming in R, including how to write data frames, create functions, and use variables, statements, and loops –Statistical concepts like exploratory data analysis, probabilities, hypothesis tests, and regression modeling, and how to execute them in R –How to access R's thousands of functions, libraries, and data sets –How to draw valid and useful conclusions from your data –How to create publication-quality graphics of your results Combining detailed explanations with real-world examples and exercises, this book will provide you with a solid understanding of both statistics and the depth of R's functionality. Make The Book of R your doorway into the growing world of data analysis. *Penetration Testing* - Georgia Weidman 2014-06-14 Penetration testers simulate cyber attacks to find security weaknesses in networks, operating systems, and applications. Information security experts worldwide use penetration techniques to evaluate enterprise defenses. In Penetration Testing, security expert, researcher, and trainer Georgia Weidman introduces you to the core skills and techniques that every pentester needs.

Using a virtual machine–based lab that includes Kali Linux and vulnerable operating systems, you'll run through a series of practical lessons with tools like Wireshark, Nmap, and Burp Suite. As you follow along with the labs and launch attacks, you'll experience the key stages of an actual assessment—including information gathering, finding exploitable vulnerabilities, gaining access to systems, post exploitation, and more. Learn how to: –Crack passwords and wireless network keys with brute-forcing and wordlists –Test web applications for vulnerabilities –Use the Metasploit Framework to launch exploits and write your own Metasploit modules –Automate social-engineering attacks –Bypass antivirus software –Turn access to one machine into total control of the enterprise in the post exploitation phase You'll even explore writing your own exploits. Then it's on to mobile hacking—Weidman's particular area of research—with her tool, the Smartphone Pentest Framework. With its collection of hands-on lessons that cover key tools and strategies, Penetration Testing is the introduction that every aspiring hacker needs.

Learning Perl - Randal Schwartz 2011-06-23
Shows how to write, debug, and run a Perl program, describes CGI scripting and data manipulation, and describes scalar values, basic operators, and associative arrays.

Programming from the Ground Up - Jonathan Bartlett 2009-09-01
Programming from the Ground Up uses Linux assembly language to teach new programmers the most important concepts in programming. It takes you a step at a time through these concepts: * How the processor views memory * How the processor operates * How programs interact with the operating system * How computers represent data internally * How to do low-level and high-level optimization Most beginning-level programming books attempt to shield the reader from how their computer really works. Programming from the Ground Up starts

by teaching how the computer works under the hood, so that the programmer will have a sufficient background to be successful in all areas of programming. This book is being used by Princeton University in their COS 217 "Introduction to Programming Systems" course.
Beginning Perl for Bioinformatics - James Tisdall 2001-10-22
With its highly developed capacity to detect patterns in data, Perl has become one of the most popular languages for biological data analysis. But if you're a biologist with little or no programming experience, starting out in Perl can be a challenge. Many biologists have a difficult time learning how to apply the language to bioinformatics. The most popular Perl programming books are often too theoretical and too focused on computer science for a non-programming biologist who needs to solve very specific problems.Beginning Perl for Bioinformatics is designed to get you quickly over the Perl language barrier by approaching programming as an important new laboratory skill, revealing Perl programs and techniques that are immediately useful in the lab. Each chapter focuses on solving a particular bioinformatics problem or class of problems, starting with the simplest and increasing in complexity as the book progresses. Each chapter includes programming exercises and teaches bioinformatics by showing and modifying programs that deal with various kinds of practical biological problems. By the end of the book you'll have a solid understanding of Perl basics, a collection of programs for such tasks as parsing BLAST and GenBank, and the skills to take on more advanced bioinformatics programming. Some of the later chapters focus in greater detail on specific bioinformatics topics. This book is suitable for use as a classroom textbook, for self-study, and as a reference.The book covers: Programming basics and working with DNA sequences and strings Debugging your code Simulating gene mutations

using random number generators Regular expressions and finding motifs in data Arrays, hashes, and relational databases Regular expressions and restriction maps Using Perl to parse PDB records, annotations in GenBank, and BLAST output

The Librarian's Introduction to Programming Languages - Beth Thomsett-Scott 2016-06-21
The Librarian's Introduction to Programming Languages presents case studies and practical applications for using the top programming languages in library and information settings. While there are books and Web sites devoted to teaching programming, there are few works that address multiple programming languages or address the specific reasons why programming is a critical area of learning for library and information science professionals. There are many books on programming languages but no recent items directly written for librarians that span a variety of programs. Many practicing librarians see programming as something for IT people or beyond their capabilities. This book will help these librarians to feel comfortable discussing programming with others by providing an understanding of when the language might be useful, what is needed to make it work, and relevant tools to extend its application. Additionally, the inclusion of practical examples lets readers try a small "app" for the language. This also will assist readers who want to learn a language but are unsure of which language would be the best fit for them in terms of learning curve and application. The languages covered are JavaScript, PERL, PHP, SQL, Python, Ruby, C, C#, and Java. This book is designed to provide a basic working knowledge of each language presented. Case studies show the programming language used in real ways, and resources for exploring each language in more detail are also included.

A Primer on Scientific Programming with Python - Hans Petter Langtangen 2016-07-28
The book serves as a first introduction to

computer programming of scientific applications, using the high-level Python language. The exposition is example and problem-oriented, where the applications are taken from mathematics, numerical calculus, statistics, physics, biology and finance. The book teaches "Matlab-style" and procedural programming as well as object-oriented programming. High school mathematics is a required background and it is advantageous to study classical and numerical one-variable calculus in parallel with reading this book. Besides learning how to program computers, the reader will also learn how to solve mathematical problems, arising in various branches of science and engineering, with the aid of numerical methods and programming. By blending programming, mathematics and scientific applications, the book lays a solid foundation for practicing computational science. From the reviews: Langtangen ... does an excellent job of introducing programming as a set of skills in problem solving. He guides the reader into thinking properly about producing program logic and data structures for modeling real-world problems using objects and functions and embracing the object-oriented paradigm. ... Summing Up: Highly recommended. F. H. Wild III, Choice, Vol. 47 (8), April 2010 Those of us who have learned scientific programming in Python 'on the streets' could be a little jealous of students who have the opportunity to take a course out of Langtangen's Primer." John D. Cook, The Mathematical Association of America, September 2011 This book goes through Python in particular, and programming in general, via tasks that scientists will likely perform. It contains valuable information for students new to scientific computing and would be the perfect bridge between an introduction to programming and an advanced course on numerical methods or computational science. Alex Small, IEEE, CiSE Vol. 14 (2), March /April 2012 "This fourth edition is a wonderful, inclusive textbook that

covers pretty much everything one needs to know to go from zero to fairly sophisticated scientific programming in Python..." Joan Horvath, Computing Reviews, March 2015
Fundamentals of Computer Programming with C# - Svetlin Nakov 2013-09-01 The free book "Fundamentals of Computer Programming with C#" is a comprehensive computer programming tutorial that teaches programming, logical thinking, data structures and algorithms, problem solving and high quality code with lots of examples in C#. It starts with the first steps in programming and software development like variables, data types, conditional statements, loops and arrays and continues with other basic topics like methods, numeral systems, strings and string processing, exceptions, classes and objects. After the basics this fundamental programming book enters into more advanced programming topics like recursion, data structures (lists, trees, hash-tables and graphs), high-quality code, unit testing and refactoring, object-oriented principles (inheritance, abstraction, encapsulation and polymorphism) and their implementation the C# language. It also covers fundamental topics that each good developer should know like algorithm design, complexity of algorithms and problem solving. The book uses C# language and Visual Studio to illustrate the programming concepts and explains some C# / .NET specific technologies like lambda expressions, extension methods and LINQ. The book is written by a team of developers lead by Svetlin Nakov who has 20+ years practical software development experience. It teaches the major programming concepts and way of thinking needed to become a good software engineer and the C# language in the meantime. It is a great start for anyone who wants to become a skillful software engineer. The books does not teach technologies like databases, mobile and web development, but shows the true way to master the basics of programming

regardless of the languages, technologies and tools. It is good for beginners and intermediate developers who want to put a solid base for a successful career in the software engineering industry. The book is accompanied by free video lessons, presentation slides and mind maps, as well as hundreds of exercises and live examples. Download the free C# programming book, videos, presentations and other resources from http://introprogramming.info. Title: Fundamentals of Computer Programming with C# (The Bulgarian C# Programming Book) ISBN: 9789544007737 ISBN-13: 978-954-400-773-7 (9789544007737) ISBN-10: 954-400-773-3 (9544007733) Author: Svetlin Nakov & Co. Pages: 1132 Language: English Published: Sofia, 2013 Publisher: Faber Publishing, Bulgaria Web site: http://www.introprogramming.info License: CC-Attribution-Share-Alike Tags: free, programming, book, computer programming, programming fundamentals, ebook, book programming, C#, CSharp, C# book, tutorial, C# tutorial; programming concepts, programming fundamentals, compiler, Visual Studio, .NET, .NET Framework, data types, variables, expressions, statements, console, conditional statements, control-flow logic, loops, arrays, numeral systems, methods, strings, text processing, StringBuilder, exceptions, exception handling, stack trace, streams, files, text files, linear data structures, list, linked list, stack, queue, tree, balanced tree, graph, depth-first search, DFS, breadth-first search, BFS, dictionaries, hash tables, associative arrays, sets, algorithms, sorting algorithm, searching algorithms, recursion, combinatorial algorithms, algorithm complexity, OOP, object-oriented programming, classes, objects, constructors, fields, properties, static members, abstraction, interfaces, encapsulation, inheritance, virtual methods, polymorphism, cohesion, coupling, enumerations, generics, namespaces, UML, design patterns, extension methods, anonymous

types, lambda expressions, LINQ, code quality, high-quality code, high-quality classes, high-quality methods, code formatting, self-documenting code, code refactoring, problem solving, problem solving methodology, 9789544007737, 9544007733

Secure Programming with Static Analysis - Brian Chess 2007-06-29
The First Expert Guide to Static Analysis for Software Security! Creating secure code requires more than just good intentions. Programmers need to know that their code will be safe in an almost infinite number of scenarios and configurations. Static source code analysis gives users the ability to review their work with a fine-toothed comb and uncover the kinds of errors that lead directly to security vulnerabilities. Now, there's a complete guide to static analysis: how it works, how to integrate it into the software development processes, and how to make the most of it during security code review. Static analysis experts Brian Chess and Jacob West look at the most common types of security defects that occur today. They illustrate main points using Java and C code examples taken from real-world security incidents, showing how coding errors are exploited, how they could have been prevented, and how static analysis can rapidly uncover similar mistakes. This book is for everyone concerned with building more secure software: developers, security engineers, analysts, and testers.

Extending and Embedding Perl - Tim Jenness 2002
Extending and Embedding Perl explains how to expand the functionality and usefulness of the Perl programming language and how to use Perl from C programs. It begins simply but also covers complex issues using real code examples from the Perl source.

Perl 6 Fundamentals - Moritz Lenz 2017-07-19
Gain the skills to begin developing Perl 6 applications from the ground up in this hands-on compact book, which includes a foreword from

Larry Wall, creator of Perl. You'll learn enough to get started building with Perl 6, using Perl 6's gradual typing, handy object orientation features, powerful parsing capabilities, and human-usable concurrency. After a short introduction, each chapter develops a small example project, explaining the Perl 6 features used. When the example is done, you'll explore another aspect, such as optimizing further for readability or testing the code. Along the way you'll see Perl 6 basics, such as variables and scoping; subroutines; classes and objects; regexes; and code testing. When you've mastered the basics, Perl 6 Fundamentals moves onto more advanced topics to give you a deeper understanding of the language. You'll learn, amongst other things, how to work with persistent storage, how to generate good error messages, and how to write tricky applications such as a file and directory usage graph and a Unicode search tool. What You'll Learn Get coding with Perl 6 Work on several hands-on examples and projects Integrate Python libraries into your Perl 6 programs Parse INI files using regexes and grammars Build a date time converter Carry out refactoring and other automated tests Who This Book Is For If you already know one or more programming languages, and want to learn about Perl 6, this book is for you.

Programming Web Services with Perl - Randy J. Ray 2003
"Practical solutions for rapid Web services development"--Cover.
Learning MySQL - Saied M.M. Tahaghoghi 2007-11-28
Presents instructions on using MySQL, covering such topics as installation, querying, user management, security, and backups and recovery.
Advanced Perl Programming - Sriram Srinivasan 1997
Covers advanced features of Perl, how the Perl interpreter works, and presents areas of modern

computing technology such as networking, user interfaces, persistence, and code generation.

Sams Teach Yourself HTML, CSS, and JavaScript All in One - Julie C. Meloni 2011-11-21
Sams Teach Yourself HTML, CSS and JavaScript All in One The all-in-one HTML, CSS and JavaScript beginner's guide: covering the three most important languages for web development. Covers everything beginners need to know about the HTML and CSS standards and today's JavaScript and Ajax libraries - all in one book, for the first time Integrated, well-organized coverage expertly shows how to use all these key technologies together Short, simple lessons teach hands-on skills readers can apply immediately By best-selling author Julie Meloni Mastering HTML, CSS, and JavaScript is vital for any beginning web developer - and the importance of these technologies is growing as web development moves away from proprietary alternatives such as Flash. Sams Teach Yourself HTML, CSS, and JavaScript All in One brings together everything beginners need to build powerful web applications with the HTML and CSS standards and the latest JavaScript and Ajax libraries. With this book, beginners can get all the modern web development knowledge you need from one expert source. Bestselling author Julie Meloni (Sams Teach Yourself PHP, MySQL and Apache All in One) teaches simply and clearly, through brief, hands-on lessons focused on knowledge you can apply immediately. Meloni covers all the building blocks of practical web design and development, integrating new techniques and features into every chapter. Each lesson builds on what's come before, showing you exactly how to use HTML, CSS, and JavaScript together to create great web sites.

Oracle PL/SQL Programming - Steven Feuerstein 2002
The authors have revised and updated this bestseller to include both the Oracle8i and new Oracle9i Internet-savvy database products.