

CLR Via C

Microsoft .NET-Framework-Programmierung

h2\u003e Kommentare, Formatierung, Strukturierung Fehler-Handling und Unit-Tests Zahlreiche Fallstudien, Best Practices, Heuristiken und Code Smells Clean Code - Refactoring, Patterns, Testen und Techniken für sauberen Code Aus dem Inhalt: Lernen Sie, guten Code von schlechtem zu unterscheiden Sauberen Code schreiben und schlechten Code in guten umwandeln Aussagekräftige Namen sowie gute Funktionen, Objekte und Klassen erstellen Code so formatieren, strukturieren und kommentieren, dass er bestmöglich lesbar ist Ein vollständiges Fehler-Handling implementieren, ohne die Logik des Codes zu verschleiern Unit-Tests schreiben und Ihren Code testgesteuert entwickeln Selbst schlechter Code kann funktionieren. Aber wenn der Code nicht sauber ist, kann er ein Entwicklungsunternehmen in die Knie zwingen. Jedes Jahr gehen unzählige Stunden und beträchtliche Ressourcen verloren, weil Code schlecht geschrieben ist. Aber das muss nicht sein. Mit Clean Code präsentiert Ihnen der bekannte Software-Experte Robert C. Martin ein revolutionäres Paradigma, mit dem er Ihnen aufzeigt, wie Sie guten Code schreiben und schlechten Code überarbeiten. Zusammen mit seinen Kollegen von Object Mentor destilliert er die besten Praktiken der agilen Entwicklung von sauberem Code zu einem einzigartigen Buch. So können Sie sich die Erfahrungswerte der Meister der Software-Entwicklung aneignen, die aus Ihnen einen besseren Programmierer machen werden – anhand konkreter Fallstudien, die im Buch detailliert durchgearbeitet werden. Sie werden in diesem Buch sehr viel Code lesen. Und Sie werden aufgefordert, darüber nachzudenken, was an diesem Code richtig und falsch ist. Noch wichtiger: Sie werden herausgefordert, Ihre professionellen Werte und Ihre Einstellung zu Ihrem Beruf zu überprüfen. Clean Code besteht aus drei Teilen: Der erste Teil beschreibt die Prinzipien, Patterns und Techniken, die zum Schreiben von sauberem Code benötigt werden. Der zweite Teil besteht aus mehreren, zunehmend komplexeren Fallstudien. An jeder Fallstudie wird aufgezeigt, wie Code gesäubert wird – wie eine mit Problemen behaftete Code-Basis in eine solide und effiziente Form umgewandelt wird. Der dritte Teil enthält den Ertrag und den Lohn der praktischen Arbeit: ein umfangreiches Kapitel mit Best Practices, Heuristiken und Code Smells, die bei der Erstellung der Fallstudien zusammengetragen wurden. Das Ergebnis ist eine Wissensbasis, die beschreibt, wie wir denken, wenn wir Code schreiben, lesen und säubern. Dieses Buch ist ein Muss für alle Entwickler, Software-Ingenieure, Projektmanager, Team-Leiter oder Systemanalytiker, die daran interessiert sind, besseren Code zu produzieren. Über den Autor: Robert C. »Uncle Bob« Martin entwickelt seit 1970 professionell Software. Seit 1990 arbeitet er international als Software-Berater. Er ist Gründer und Vorsitzender von Object Mentor, Inc., einem Team erfahrener Berater, die Kunden auf der ganzen Welt bei der Programmierung in und mit C++, Java, C#, Ruby, OO, Design Patterns, UML sowie Agilen Methoden und eXtreme Programming helfen.

Clean Code - Refactoring, Patterns, Testen und Techniken für sauberen Code

Dig deep and master the intricacies of the common language runtime, C#, and .NET development. Led by programming expert Jeffrey Richter, a longtime consultant to the Microsoft .NET team - you'll gain pragmatic insights for building robust, reliable, and responsive apps and components. Fully updated for .NET Framework 4.5 and Visual Studio 2012 Delivers a thorough grounding in the .NET Framework architecture, runtime environment, and other key topics, including asynchronous programming and the new Windows Runtime Provides extensive code samples in Visual C# 2012 Features authoritative, pragmatic guidance on difficult development concepts such as generics and threading

CLR via C#

Schnappen Sie sich einen Stift, werfen Sie Ihren Rechner an und begeben Sie sich auf eine Erlebnistour durch C#, bei der sowohl Ihre beiden Gehirnhälften als auch Ihre Lachmuskeln stimuliert werden. C# von Kopf bis Fuß ist ein anregendes Arbeitsbuch für die C# 3.0-Programmierung mit Visual Studio 2008, das alle zentralen Themen von den Sprachgrundlagen bis zur Garbage Collection behandelt. Und Sie lernen auch LINQ, die neueste Syntax von C#, kennen. Wenn Sie dieses Buch durchgearbeitet haben, werden Sie kompetent auch umfangreiche C#-Anwendungen entwickeln können. C# von Kopf bis Fuß ist in einem visuell abwechslungsreichen Format gestaltet, das sich an den neuesten Forschungsergebnissen aus Kognitionswissenschaft und Lerntheorie orientiert und Ihnen das Lernen so einfach wie möglich machen soll. Das Buch bietet Ihnen ein unterhaltsames Lernerlebnis und spielt Ihnen C# direkt ins Hirn - und zwar so, dass es sitzt.

Entwurfsmuster

Dieses Buch ist für vielbeschäftigte Programmierer gedacht, die eine knappe, aber dennoch gut verständliche Beschreibung von C# 6.0 suchen. C# 6.0 – kurz & gut informiert Sie über genau das, was Sie wissen müssen, um schnell durchstarten zu können. Behandelt werden: - alle Aspekte der C#-Syntax, vordefinierte Typen, Ausdrücke und Operatoren - das Erstellen von Klassen, Structs, Delegates und Events, Enums, Generics und Constraints, Exception Handling und Iteratoren - die Feinheiten des Boxing, das Überladen von Operatoren, Lambda-Ausdrücke, die Delegate-Kovarianz oder das Auflösen von Erweiterungsmethoden - dynamische Bindung und asynchrone Funktionen - LINQ – von den Standard-Abfrageoperatoren bis zu einer vollständigen Referenz der Query-Syntax Trotz seines erstaunlich kompakten Formats bietet dieses Buch eine Fülle von Details. Es unterstützt Sie optimal, die konzeptionellen Herausforderungen beim Lernen von C# 6.0 schnell zu meistern. Wenn Sie bereits mit Java, C++ oder einer älteren Version von C# vertraut sind, ist C# 6.0 – kurz & gut die ideale Wahl.

C# von Kopf bis Fuß

Dieses Buch ist für vielbeschäftigte Programmierer gedacht, die eine knappe, aber dennoch gut verständliche Beschreibung von C# 5.0 und LINQ suchen. C# 5.0 – kurz & gut informiert Sie über genau das, was Sie wissen müssen, um schnell durchstarten zu können. Behandelt werden: die neuen Features von C# 5.0: vereinfachte asynchrone Programmierung mit async und Aufrufer-Info-Attribute; alle Aspekte der C#-Syntax, vordefinierte Typen, Ausdrücke und Operatoren; das Erstellen von Klassen, Structs, Delegates und Events, Enums, Generics und Constraints, Exception Handling und Iteratoren; die Feinheiten des Boxing, das Überladen von Operatoren, die Delegate-Kovarianz oder das Auflösen von Extension-Methoden; LINQ – von den Standard-Abfrage-Operatoren bis zu einer vollständigen Referenz der Query-Syntax. Trotz seines erstaunlich kompakten Formats vernachlässigt dieses Buch keine Details. Es unterstützt Sie optimal, die konzeptionellen Herausforderungen beim Lernen von C# 5.0 und LINQ schnell zu meistern. Wenn Sie schon mit Java, C++ oder einer früheren Version von C# vertraut sind, ist C# 5.0 - kurz & gut die ideale Wahl.

C# 6.0 – kurz & gut

"Your hands-on guide to developing applications with the common language runtime (CLR) and Microsoft .NET Framework 2.0, with examples in Microsoft Visual C# 2005"--Resource description page.

C# 7.0

Dig deep and master the intricacies of the common language runtime (CLR) and the .NET Framework. Written by a highly regarded programming expert and consultant to the Microsoft .NET team, this guide is ideal for developers building any kind of application--including Microsoft ASP.NET, Windows Forms, Microsoft SQL Server, Web services, and console applications. You'll get hands-on instruction and extensive code C# code samples to help you tackle the tough topics and develop high-performance applications. Discover how to: Build, deploy, administer, and version applications, components, and shared assemblies

Design types using constants, fields, constructors, methods, properties, and events Work effectively with the CLR's special types including enumerators, arrays, and strings Declare, create, and use delegates to expose callback functions Define and employ re-usable algorithms with interfaces and generics Define, use, and detect custom attributes Use exception handling to build robust, reliable, and security-enhanced components Manage memory automatically with the garbage collector and work with native resources Apply CLR Hosting, AppDomains, assembly loading, and reflection to build dynamically extensible applications PLUS-- Get code samples on the Web

C# 5.0 kurz & gut

Wer seine Brötchen mit Software-Entwicklung verdient, braucht Strategien, um besser, schneller und kostengünstiger zu programmieren. Dieses Buch bietet Ihnen erprobte Hilfsmittel, die Zeit sparen, Ihre Produktivität erhöhen, und die Sie unabhängig von der.

CLR Via C?

Master the intricacies of application development with unmanaged C++ code—straight from the experts. Jeffrey Richter's classic book is now fully revised for Windows XP, Windows Vista, and Windows Server 2008. You get in-depth, comprehensive guidance, advanced techniques, and extensive code samples to help you program Windows-based applications. Discover how to: Architect and implement your applications for both 32-bit and 64-bit Windows Create and manipulate processes and jobs Schedule, manage, synchronize and destroy threads Perform asynchronous and synchronous device I/O operations with the I/O completion port Allocate memory using various techniques including virtual memory, memory-mapped files, and heaps Manipulate the default committed physical storage of thread stacks Build DLLs for delay-loading, API hooking, and process injection Using structured exception handling, Windows Error Recovery, and Application Restart services

CLR Via C#

Delve inside the Windows Runtime - and learn best ways to design and build Windows Store apps. Guided by Jeffrey Richter, a recognized expert in Windows and .NET programming, along with principal Windows consultant Maarten van de Bospoort, you'll master essential concepts. And you'll gain practical insights and tips for how to architect, design, optimize, and debug your apps. With this book, you will: Learn how to consume Windows Runtime APIs from C# Understand the principles of architecting Windows Store apps See how to build, deploy, and secure app packages Understand how apps are activated and the process model controlling their execution Study the rich features available when working with files and folders Explore how to transfer, compress, and encrypt data via streams Design apps that give the illusion of running using live tiles, background transfers, and background tasks Share data between apps using the clipboard and the Share charm Get advice for monetizing your apps through the Windows Store About This Book Requires working knowledge of Microsoft .NET Framework, C#, and the Visual Studio IDE Targeted to programmers building Windows Store apps Some chapters also useful to those building desktop apps Technologies Covered Windows 8.1 Microsoft Visual Studio 2013

Produktiv programmieren

This is the eBook version of the print title, Framework Design Guidelines, Second Edition . Access to all the samples, applications, and content on the DVD is available through the product catalog page www.informit.com/title/9780321545619 Navigate to the "Downloads" tab and click on the "DVD Contents" links - see instructions in back pages of your eBook. Framework Design Guidelines, Second Edition, teaches developers the best practices for designing reusable libraries for the Microsoft .NET Framework. Expanded and updated for .NET 3.5, this new edition focuses on the design issues that directly affect the programmability of a class library, specifically its publicly accessible APIs. This book can improve the work

of any .NET developer producing code that other developers will use. It includes copious annotations to the guidelines by thirty-five prominent architects and practitioners of the .NET Framework, providing a lively discussion of the reasons for the guidelines as well as examples of when to break those guidelines. Microsoft architects Krzysztof Cwalina and Brad Abrams teach framework design from the top down. From their significant combined experience and deep insight, you will learn The general philosophy and fundamental principles of framework design Naming guidelines for the various parts of a framework Guidelines for the design and extending of types and members of types Issues affecting—and guidelines for ensuring—extensibility How (and how not) to design exceptions Guidelines for—and examples of—common framework design patterns Guidelines in this book are presented in four major forms: Do, Consider, Avoid, and Do not. These directives help focus attention on practices that should always be used, those that should generally be used, those that should rarely be used, and those that should never be used. Every guideline includes a discussion of its applicability, and most include a code example to help illuminate the dialogue. Framework Design Guidelines, Second Edition, is the only definitive source of best practices for managed code API development, direct from the architects themselves. A companion DVD includes the Designing .NET Class Libraries video series, instructional presentations by the authors on design guidelines for developing classes and components that extend the .NET Framework. A sample API specification and other useful resources and tools are also included.

Windows® via C/C++

Build on your existing programming skills and upskill to professional-level C# programming. Summary In Code Like A Pro in C# you will learn: Unit testing and test-driven development Refactor a legacy .NET codebase Principles of clean code Essential backend architecture skills Query and manipulate databases with LINQ and Entity Framework Core Critical business applications worldwide are written in the versatile C# language and the powerful .NET platform, running on desktops, cloud systems, and Windows or Linux servers. Code Like a Pro in C# makes it easy to turn your existing abilities in C# or another OO language (such as Java) into practical C# mastery. There's no "Hello World" or Computer Science 101 basics—you'll learn by refactoring an out-of-date legacy codebase, using new techniques, tools, and best practices to bring it up to modern C# standards. Purchase of the print book includes a free eBook in PDF, Kindle, and ePub formats from Manning Publications. About the technology You know the basics, now get ready for the next step! Pro-quality C# code is efficient, clean, and fast. Whether you're building user-facing business applications or writing data-intensive backend services, the experience-based, practical techniques in this book will take your C# skills to a new level. About the book Code Like a Pro in C# teaches you to how write clean C# code that's suitable for enterprise applications. In this book, you'll refactor a legacy codebase by applying modern C# techniques. You'll explore tools like Entity Framework Core, design techniques like dependency injection, and key practices like testing and clean coding. It's a perfect path to upgrade your existing C# skills or shift from another OO language into C# and the .NET ecosystem. What's inside Unit testing and test-driven development Refactor a legacy .NET codebase Principles of clean code Query and manipulate databases with LINQ and Entity Framework Core About the reader For developers experienced with object-oriented programming. No C# experience required. About the author Jort Rodenburg is a software engineer who has taught numerous courses on getting up to speed with C# and .NET. Table of Contents PART 1 USING C# AND .NET 1 Introducing C# and .NET 2 .NET and how it compiles PART 2 THE EXISTING CODEBASE 3 How bad is this code? 4 Manage your unmanaged resources! PART 3 THE DATABASE ACCESS LAYER 5 Setting up a project and database with Entity Framework Core PART 4 THE REPOSITORY LAYER 6 Test-driven development and dependency injection 7 Comparing objects 8 Stubbing, generics, and coupling 9 Extension methods, streams, and abstract classes PART 5 THE SERVICE LAYER 10 Reflection and mocks 11 Runtime type checking revisited and error handling 12 Using IAsyncEnumerable and yield return PART 6 THE CONTROLLER LAYER 13 Middleware, HTTP routing, and HTTP responses 14 JSON serialization/deserialization and custom model binding

Windows Runtime via C#

Dieses eBook: \"Manifest der Kommunistischen Partei\" ist mit einem detaillierten und dynamischen Inhaltsverzeichnis versehen und wurde sorgfältig korrekturgelesen. Das Manifest der Kommunistischen Partei, auch Das Kommunistische Manifest genannt, wurde von Karl Marx und Friedrich Engels um die Jahreswende 1847/48 im Auftrag des Bundes der Kommunisten verfasst. Das Manifest der Kommunistischen Partei wurde in mehr als 100 Sprachen übersetzt. Im Juni 2013 wurde es in das UNESCO-Dokumentenerbe aufgenommen. Das Programm, in dem Marx und Engels bereits große Teile der später als \"Marxismus\" bezeichneten Weltanschauung entwickeln, beginnt mit dem heute geflügelten Wort: \"Ein Gespenst geht um in Europa – das Gespenst des Kommunismus\" und endet mit dem bekannten Aufruf: \"Proletarier aller Länder, vereinigt euch!\" Mit dem Kommunistischen Manifest wollte der Bund der Kommunisten seine Anschauungen darlegen. Das etwa 30 Seiten umfassende Werk beginnt mit einer Einleitung, gefolgt von vier Kapiteln. Karl Marx (1818-1883) war ein deutscher Philosoph, Ökonom, Gesellschaftstheoretiker, politischer Journalist, Protagonist der Arbeiterbewegung sowie Kritiker der bürgerlichen Gesellschaft und der Religion. Zusammen mit Friedrich Engels wurde er zum einflussreichsten Theoretiker des Sozialismus und Kommunismus. Bis heute werden seine Theorien kontrovers diskutiert.

Framework Design Guidelines

CD-ROM includes practice exercises and e-book.

Code like a Pro in C#

This handy reference guide to modern '74'- series and '4000'- series digital ICs presents 620 useful and carefully selected circuits, diagrams, graphs and tables, supported by informative text and captions. Detailed descriptions of and practical applications information on more than 185 TTL and CMOS ICs are provided. This wealth of information is clearly and logically arranged so that specific information can be quickly and easily located. Fifteen chapters cover from IC basics and TTL and CMOS principles, to the practical circuitry of logic ICs, waveform generators and multiplexers. While aimed at practical design engineers and technicians, this pocket book will also be of use to amateurs and students of electronics. The subject is dealt with in a readable and essentially non-mathematical manner, with the emphasis on practical 'user' information and circuitry.

Manifest der Kommunistischen Partei

Not only does this book describe the goals and architecture of the .NET Framework, but it also demonstrates how it implements facilities and services to meet these goals. This book shows developers how to produce generic frameworks, libraries, classes, and tools to be used in the .NET Framework.

Microsoft SQL Server 2005 Analysis Services Step by Step

Today's smartphones utilize a rapidly developing range of sophisticated applications, pushing the limits of mobile processing power. The increased demand for cell phone applications has necessitated the rise of mobile cloud computing, a technological research arena which combines cloud computing, mobile computing, and wireless networks to maximize the computational and data storage capabilities of mobile devices. Enabling Real-Time Mobile Cloud Computing through Emerging Technologies is an authoritative and accessible resource that incorporates surveys, tutorials, and the latest scholarly research on cellular technologies to explore the latest developments in mobile and wireless computing technologies. With its exhaustive coverage of emerging techniques, protocols, and computational structures, this reference work is an ideal tool for students, instructors, and researchers in the field of telecommunications. This reference work features astute articles on a wide range of current research topics including, but not limited to, architectural communication components (cloudlets), infrastructural components, secure mobile cloud computing, medical cloud computing, network latency, and emerging open source structures that optimize and accelerate smartphones.

Newnes Digital Logic IC Pocket Book

The papers in this volume were selected for presentation at the 15th Annual International Computing and Combinatorics Conference (COCOON 2009), held during July 13-15, 2009 in Niagara Falls, New York, USA. Previous meetings of this conference were held in Xian (1995), Hong Kong (1996), Shanghai (1997), Taipei (1998), Tokyo (1999), Sydney (2000), Guilin (2001), Singapore (2002), Big Sky (2003), Jeju Island (2004), Kunming (2005), Taipei (2006), Alberta (2007), and Dalian (2008). In response to the Call for Papers, 125 extended abstracts (not counting withdrawn papers) were submitted from 28 countries and regions, of which 51 were accepted. Authors of the submitted papers were from Cyprus (1), The Netherlands (1), Bulgaria (1), Israel (1), Vietnam (2), Finland (1), Puerto Rico (2), Australia (4), Norway (4), Portugal (1), Spain (2), France (16), Republic of Korea (3), Singapore (2), Italy (6), Iran (4), Greece (7), Poland (4), Switzerland (8), Hong Kong (10), UK (12), India (7), Taiwan (18), Canada (23), China (19), Japan (39), Germany (44), and the USA (77). The submitted papers were evaluated by an international Technical Program Committee (TPC) consisting of Srinivas Aluru (Iowa State University, USA), Lars Arge (University of Aarhus, Denmark), Vikraman Arvind (Institute of Mathematical Sciences, India), James Aspnes (Yale University, USA), Mikhail Atallah (Purdue University, USA), Gill Barequet (Technion - Israel Institute of Technology, Israel), Michael Brudno (University of Toronto, Canada), Jianer Chen (Texas A & M, USA), Bhaskar DasGupta (University of Illinois at Chicago, USA), Anupam Gupta (Carnegie Mellon University, USA), Lane A.

Programming in the .NET Environment

This book is designed to focus on the role of Calcitonin Gene-Related Peptide (CGRP) in health and disease. This peptide, originally discovered in the 1980s as a sensory neuropeptide with cardiovascular effects, is now known to play a distinct role in the pain processing of migraine. The various chapters address the origin, localization and function of CGRP and its receptor in the peripheral nervous system, in the cardiovascular system, and in other tissues and organs. Further attention is paid to the drug discovery pathway where recent findings show the beneficial effect of small molecule antagonists of the CGRP receptors for the relief of the migraine attack and of monoclonal antibodies against CGRP or the CGRP receptor for migraine prevention.

Enabling Real-Time Mobile Cloud Computing through Emerging Technologies

Understand what every developer should know about performance when building Windows Store apps. Not designed as a comprehensive reference, this book instead zeroes in on the essentials of planning for great performance and provides a solid starting point for building fast apps. This concise, performance-focused guide: Provides an introduction to the Windows platform from a performance point of view Describes how to set performance goals, establish tests to track performance, and covers tools to instrument code and analyze performance Explains why common techniques such as micro benchmarks and ad hoc testing often fall short in verifying performance Focuses on managed C#/XAML apps Although tools and techniques also apply to Visual Basic/XAML apps, all code examples use C# HTML5/JavaScript and C++/XAML are not covered

Computing and Combinatorics

This standard-setting textbook has defined the field of immunology since 1984, and is now in its Seventh Edition continuing to deliver the detailed, authoritative, and timely coverage readers expect. This comprehensive, up-to-date text is ideal for graduate students, post-doctoral fellows, basic and clinical immunologists, microbiologists and infectious disease physicians, and any physician treating diseases in which immunologic mechanisms play a role. Now full-color throughout the book's fully revised and updated content reflects the latest advances in the field. Current insights enhance readers' understanding of immune system function. The text's unique approach bridges the gap between basic immunology and the disease process. Extensive coverage of molecular biology explains the molecular dynamics underlying immune

disorders and their treatment. Abundant illustrations and tables deliver essential information at a glance. Plus a convenient companion website features the fully searchable text and image bank! This is the tablet version of Fundamental Immunology which does not include access to the supplemental content mentioned in the text.

Calcitonin Gene-Related Peptide (CGRP) Mechanisms

Tackle the toughest set-based querying and query tuning problems--guided by an author team with in-depth, inside knowledge of T-SQL. Deepen your understanding of architecture and internals--and gain practical approaches and advanced techniques to optimize your code's performance. Discover how to: Move from procedural programming to the language of sets and logic Optimize query tuning with a top-down methodology Assess algorithmic complexity to predict performance Compare data-aggregation techniques, including new grouping sets Manage data modification--insert, delete, update, merge--for performance Write more efficient queries against partitioned tables Work with graphs, trees, hierarchies, and recursive queries Plus--Use pure-logic puzzles to sharpen your problem-solving skills

High-Performance Windows Store Apps

This volume is the collection of papers presented during a four day meeting, the EMBO workshop \"Protein Conformation as an Immunological Signal\" that took place at Portovenere (La Spezia), Italy, October 1-4, 1981. The motivation that drove us to organize this meeting was the feeling that distinct groups of researchers, active in key areas of modern immunology, sometimes fail to communicate with each other simply because of different traditional affiliations. Yet it is urgent that \"molecular\" and \"cellular\" people cooperate more if immunology is to continue the exportation of new concepts to other disciplines. In fact, the deep meaning of molecule-molecule and cell-cell interaction, the generation of signals and their effective transmission which results in elicitation, control or suppression of responses cannot be unraveled without the experts on antibody structure or complement activation sharing their views with the experts on T cell, B cell and macrophage membrane receptors as well as the experts on factors that carry the information released by these cells. Whether the meeting was scientifically fruitful, the reader can judge after having digested these pages. We, the organizers, are not sure whether the optimal amount of interaction had taken place; especially considering how hard it is to overcome the scientist's catch 22: You have to know something quite well before you get really interested in it. In any event, we are convinced that Portovenere was one of the most successful attempts we have witnessed.

Fundamental Immunology

The .NET Framework provides a runtime environment called the Common Language Runtime, which manages the execution of code and provides services that make the development of robust software easier. The Common Language Runtime (CLR) provides a solid foundation for developers to build various types of applications. Whether a developer is writing an ASP.NET application, a Windows Forms application, a Web Service, a mobile code application, a distributed application, or an application that combines several of these application models, the CLR provides huge benefits such as simplified development and the ability to integrate code written in various languages. This book is a high-end comprehensive reference to the capability of the CLR. The samples in the book have been written so that they not only illustrate a principle but give the reader a springboard to quickly translate the sample to practical, real-world applications. After reading this book, readers will be able to significantly increase their productivity by comfortably using the power and expressiveness of the Common Language Runtime in their applications. This book will take the reader beyond the syntax of C# to using and understanding the CLR to build secure, maintainable, and high performance applications.

Inside Microsoft SQL Server 2008

The role of artificial intelligence (AI) applications in fields as diverse as medicine, economics, linguistics, logical analysis and industry continues to grow in scope and importance. AI has become integral to the effective functioning of much of the technical infrastructure we all now take for granted as part of our daily lives. This book presents the papers from the 21st biennial European Conference on Artificial Intelligence, ECAI 2014, held in Prague, Czech Republic, in August 2014. The ECAI conference remains Europe's principal opportunity for researchers and practitioners of Artificial Intelligence to gather and to discuss the latest trends and challenges in all subfields of AI, as well as to demonstrate innovative applications and uses of advanced AI technology. Included here are the 158 long papers and 94 short papers selected for presentation at the conference. Many of the papers cover the fields of knowledge representation, reasoning and logic as well as agent-based and multi-agent systems, machine learning, and data mining. The proceedings of PAIS 2014 and the PAIS System Demonstrations are also included in this volume, which will be of interest to all those wishing to keep abreast of the latest developments in the field of AI.

Protein Conformation as an Immunological Signal

In Visionäre der Programmierung - Die Sprachen und ihre Schöpfer werden exklusive Interviews mit den Entwicklern von historischen wie auch von hoch aktuellen Programmiersprachen veröffentlicht. In dieser einzigartigen Zusammenstellung erfahren Sie über die Hintergründe, die zu den spezifischen Design-Entscheidungen in den Programmiersprachen geführt haben und über die ursprüngliche Ziele, die die Entwickler im Kopf hatten, als sie eine neue Programmiersprache entwarfen. Ebenso können Sie lesen, wieso Abweichungen zum ursprünglichen Design entstanden und welchen Einfluß die jeweilige Sprache auf die heutige Softwareentwicklung noch besitzt. Adin D. Falkoff: APL Thomas E. Kurtz: BASIC Charles H. Moore: FORTH Robin Milner: ML Donald D. Chamberlin: SQL Alfred Aho, Peter Weinberger und Brian Kernighan: AWK Charles Geschke und John Warnock: PostScript Bjarne Stroustrup: C++ Bertrand Meyer: Eiffel Brad Cox und Tom Love: Objective-C Larry Wall: Perl Simon Peyton Jones, Paul Hudak, Philip Wadler und John Hughes: Haskell Guido van Rossum: Python Luiz Henrique de Figueiredo und Roberto Ierusalimsky: Lua James Gosling: Java Grady Booch, Ivar Jacobson und James Rumbaugh: UML Anders Hejlsberg: Delphi-Entwickler und führender Entwickler von C#

Net Common Language Runtime Unleashed

"Python Crashkurs" ist eine kompakte und gründliche Einführung, die es Ihnen nach kurzer Zeit ermöglicht, Python-Programme zu schreiben, die für Sie Probleme lösen oder Ihnen erlauben, Aufgaben mit dem Computer zu erledigen. In der ersten Hälfte des Buches werden Sie mit grundlegenden Programmierkonzepten wie Listen, Wörterbücher, Klassen und Schleifen vertraut gemacht. Sie erlernen das Schreiben von sauberem und lesbarem Code mit Übungen zu jedem Thema. Sie erfahren auch, wie Sie Ihre Programme interaktiv machen und Ihren Code testen, bevor Sie ihn einem Projekt hinzufügen. Danach werden Sie Ihr neues Wissen in drei komplexen Projekten in die Praxis umsetzen: ein durch "Space Invaders" inspiriertes Arcade-Spiel, eine Datenvisualisierung mit Pythons superpraktischen Bibliotheken und eine einfache Web-App, die Sie online bereitstellen können. Während der Arbeit mit dem "Python Crashkurs" lernen Sie, wie Sie: - leistungsstarke Python-Bibliotheken und Tools richtig einsetzen – einschließlich matplotlib, NumPy und Pygal - 2D-Spiele programmieren, die auf Tastendrücke und Mausklicks reagieren, und die schwieriger werden, je weiter das Spiel fortschreitet - mit Daten arbeiten, um interaktive Visualisierungen zu generieren - Web-Apps erstellen und anpassen können, um diese sicher online zu deployen - mit Fehlern umgehen, die häufig beim Programmieren auftreten Dieses Buch wird Ihnen effektiv helfen, Python zu erlernen und eigene Programme damit zu entwickeln. Warum länger warten? Fangen Sie an!

ECAI 2014

This book is devoted to the PDP-11 computer, manufactured by the Digital Equipment Corporation. Computer programming is a practical art that is to be bolstered by theoretical wisdom but developed as a skill

by continual practice. The approach of this book is that the reader will be writing complete programs (albeit rather trivial ones) at the earliest possible stage. There are no prerequisites, no prior experience with or theoretical knowledge of computers. The text can be used by beginning or advanced PDP-11 users. Beginning with encoding a great variety of small, individual tasks which are then utilized in building larger, complete programs using these individual blocks, or modules.

Visionäre der Programmierung - Die Sprachen und ihre Schöpfer

Get answers to common questions about setting up the design environment and building custom solutions with Microsoft Dynamics CRM. Delve into core architecture, tools, and techniques, and learn how to exploit powerful customization features. Authored by industry-leading experts, this book shows how to deliver intelligent CRM solutions that meet the unique challenges and requirements of your business. Discover how to: Set up the development environment Enhance the product's APIs with your own code Execute business logic using plug-ins Build custom workflows that extend native workflow functions Create user-friendly integration with scripts and application extensions Code custom pages optimized for Microsoft Outlook with Offline Access Extend Microsoft Dynamics CRM using ASP.NET Create advanced Windows Workflow Foundation solutions Extend multilingual and multicurrency features Construct a custom security-access solution Get code samples on the Web.

Python Crashkurs

"This book discusses non-distributed operating systems that benefit researchers, academicians, and practitioners"--Provided by publisher.

PDP-11 Assembler Language Programming and Machine Organization

As digital circuit elements decrease in physical size, resulting in increasingly complex systems, a basic logic model that can be used in the control and design of a range of semiconductor devices is vital. Finite State Machines (FSM) have numerous advantages; they can be applied to many areas (including motor control, and signal and serial data identification to name a few) and they use less logic than their alternatives, leading to the development of faster digital hardware systems. This clear and logical book presents a range of novel techniques for the rapid and reliable design of digital systems using FSMs, detailing exactly how and where they can be implemented. With a practical approach, it covers synchronous and asynchronous FSMs in the design of both simple and complex systems, and Petri-Net design techniques for sequential/parallel control systems. Chapters on Hardware Description Language cover the widely-used and powerful Verilog HDL in sufficient detail to facilitate the description and verification of FSMs, and FSM based systems, at both the gate and behavioural levels. Throughout, the text incorporates many real-world examples that demonstrate designs such as data acquisition, a memory tester, and passive serial data monitoring and detection, among others. A useful accompanying CD offers working Verilog software tools for the capture and simulation of design solutions. With a linear programmed learning format, this book works as a concise guide for the practising digital designer. This book will also be of importance to senior students and postgraduates of electronic engineering, who require design skills for the embedded systems market.

Programming Microsoft Dynamics CRM 4.0

The purpose of this book is to learn modern C-. The Modern C is C-11, 14, 17 and 20. Organized in themed chapters, this book allows beginners to edsend the language even by reading the chapters in a different order from that proposed by the author. It is the result of several years of work at the ISO standardization committee level, and the following versions, namely C-14, 17 and 20, are only the result of this effort. It should be noted, however, that C-20 is still partially implemented by market compilers, whether It's Microsoft's Visual C, Clang (LLVM) or CCG. On the cloud, everything is Server oriented and Linux reigns supreme. Whether it's multithread or asynchronous programming, with Docker or Azure, it's all about high-

availability or hyper-scalabl environments.

Advanced Operating Systems and Kernel Applications: Techniques and Technologies

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FSM-based Digital Design using Verilog HDL

From Structure to Clinical Development: Allosteric Modulation of G Protein-Coupled Receptors, Volume 88, the latest release in the Advances in Pharmacology series, presents a variety of chapters from the best authors in the field. Chapters in this updated edition include Targeting muscarinic M1 receptor in neurodegeneration, Photo-switchable allosteric ligands, Computational approaches for the design of mGlu receptor allosteric modulators, Allosteric modulation of GLP-1 receptor in metabolic disorders, Group II mGluR roles in the nervous system and their roles in addiction, RAMPs as allosteric modulators of Class B GPCRs, Structure-based discovery and development of mGlu5 NAMs, and much more. - Includes the authority and expertise of leading contributors in pharmacology - Presents the latest release in the Advances in Pharmacology series

Learn Modern C++ and STL

Complex Analytic Geometry is a subject that could be termed, in short, as the study of the sets of common zeros of complex analytic functions. It has a long history and is closely related to many other fields of Mathematics and Sciences, where numerous applications have been found, including a recent one in the Sato hyperfunction theory. This book is concerned with, among others, local invariants that arise naturally in Complex Analytic Geometry and their relations with global invariants of the manifold or variety. The idea is to look at them as residues associated with the localization of some characteristic classes. Two approaches are taken for this — topological and differential geometric — and the combination of the two brings out further fruitful results. For this, on one hand, we present detailed description of the Alexander duality in combinatorial topology. On the other hand, we give a thorough presentation of the ?ech-de Rham cohomology and integration theory on it. This viewpoint provides us with the way for clearer and more precise presentations of the central concepts as well as fundamental and important results that have been treated only globally so far. It also brings new perspectives into the subject and leads to further results and applications. The book starts off with basic material and continues by introducing characteristic classes via both the obstruction theory and the Chern-Weil theory, explaining the idea of localization of characteristic classes and presenting the aforementioned invariants and relations in a unified way from this perspective. Various related topics are also discussed. The expositions are carried out in a self-containing manner and includes recent developments. The profound consequences of this subject will make the book useful for students and researchers in fields as diverse as Algebraic Geometry, Complex Analytic Geometry, Differential Geometry, Topology, Singularity Theory, Complex Dynamical Systems, Algebraic Analysis and Mathematical Physics.

Philosophical Transactions, Giving Some Account of the Present Undertakings, Studies, and Labours of the Ingenious, in Many Considerable Parts of the World

Bill Palmer wird überraschend zum Bereichsleiter der IT-Abteilung eines Autoteileherstellers befördert und muss nun eine Katastrophe nach der anderen bekämpfen. Gleichzeitig läuft ein wichtiges Softwareprojekt und die Wirtschaftsprüfer sind auch im Haus. Schnell wird klar, dass \"mehr Arbeiten, mehr Prioritäten setzen, mehr Disziplin\" nicht hilft. Das ganze System funktioniert einfach nicht, eine immer schneller

werdende Abwärtsspirale führt dazu, dass das Unternehmen kurz vor dem Aus steht. Zusammen mit einem weitsichtigen Aufsichtsratsmitglied fängt Bill Palmer an, das System umzustellen. Er organisiert Kommunikation und Workflow zwischen Abteilungen neu, entdeckt und entschärft Flaschenhälse und stimmt sich mit dem Management besser ab. Er schafft es damit, das Ruder herumzureißen. Das Buch zeigt, wie neue Ideen und Strategien der DevOps-Bewegung konkret umgesetzt werden können und zum Erfolg führen - und liest sich dabei wie ein guter Wirtschaftskrimi!

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From Structure to Clinical Development: Allosteric Modulation of G Protein-Coupled Receptors

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