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Concurrency in C# Cookbook Stephen Cleary 2014-05-15 If you're one of the many developers uncertain about concurrent and multithreaded development, this practical cookbook will change your mind. With more than 75 code-rich recipes, author Stephen Cleary demonstrates parallel processing and asynchronous programming techniques, using libraries and language features in .NET 4.5 and C# 5.0. Concurrency is becoming more common in responsive and scalable application development, but it's been extremely difficult to code. The detailed solutions in this cookbook show you how modern tools raise the level of abstraction, making concurrency much easier than before. Complete with ready-to-use code and discussions about how and why the solution works, you get recipes for using: async and await for asynchronous operations Parallel programming with the Task Parallel Library The TPL Dataflow library for creating dataflow pipelines Capabilities that Reactive Extensions build on top of LINQ Unit testing with concurrent code Interop scenarios for combining concurrent approaches Immutable, threadsafe, and producer/consumer collections Cancellation support in your concurrent code Asynchronous-friendly Object-Oriented Programming Thread synchronization for accessing data

Annotations in Scholarly Editions and Research Julia Nantke 2020-10-26 The term 'annotation' is associated in the Humanities and Technical Sciences with different concepts that vary in coverage, application and direction but which also have instructive parallels. This publication mirrors the increasing cooperation that has been taking place between the two disciplines within the scope of the digitalization of the Humanities. It presents the results of an international conference on the concept of annotation that took place at the University of Wuppertal in February 2019. This publication reflects on different practices and associated concepts of annotation in an interdisciplinary perspective, puts them in relation to each other and attempts to systematize their commonalities and divergences. The following dynamic visualizations allow an interactive navigation within the volume based on keywords: Wordcloud ☁ , Matrix ▦ , Edge Bundling ⊛

PHP and MySQL Manual Simon Stobart 2012-12-06 PHP is rapidly becoming the language of choice for dynamic Web development, in particular for e-commerce

and on-line database systems. It is open source software and easy to install, and can be used with a variety of operating systems, including Microsoft Windows and UNIX. This comprehensive manual covers the basic core of the language, with lots of practical examples of some of the more recent and useful features available in version 5.0. MySQL database creation and development is also covered, as it is the developer database most commonly used alongside PHP. It will be an invaluable book for professionals wanting to use PHP to develop their own dynamic web pages. Key Topics: - Basic Language Constructs - Manipulating Arrays and Strings - Errors and Buffering - Graphic Manipulation - PDF Library Extension - MySQL Database Management - Classes and Objects Concepts Features and Benefits: Explains how to use PHP to its full extent - covering the latest features and functions of PHP version 5.0, including the use of object-oriented programming Describes how to link a database to a web site, using the MySQL database management system Shows how to connect PHP to other systems and provides many examples, so that you can create powerful and dynamic web pages and applications Contains lots of illustrated, practical, real-world examples - including an e-commerce application created in PHP using many of the features described within the book The scripts used in the examples are available for download from www.phpmysql-manual.com

Javascript In Easy Steps 2003-08-27 JavaScript in easy steps, now in its third edition, instructs the reader how to add functionality (logic) and dynamic effects (DHTML) to web pages. It contains separate chapters on all major features of the JavaScript language. There are code examples and browser screenshots illustrating each aspect of JavaScript. This popular title is updated for the Document Object Model used by modern browsers and includes examples showing how to develop Rich Internet Applications(RIAs) using the latest techniques employing Asynchronous JavaScript And XML (AJAX).· Introducing JavaScript · Performing Operations · Making Statements · Using arrays · Date and Time · Doing Mathematics · Addressing Page Objects · Window Properties · Document Properties· Form Properties · Event Handler· JavaScript in DHTML· JavaScript in e-commerce

Database Design Manual: using MySQL for Windows Matthew Norman 2006-04-18 Essential SQL fast provides a comprehensive guide to SQL, using the Windows-based version of MySQL. MySQL is a freely available, multi-platform database management system, making it ideal for learning the techniques and concepts of database design. Using numerous worked examples and illustrations, Matthew Norman describes how to set up the database management system MySQL. In doing so he covers various topics, including: installing and testing MySQL; using the graphical tools; database design techniques and concepts; retrieving, changing and deleting data; and how to make other products communicate with MySQL.

Textpattern Solutions Cody Lindley 2008-01-03 This is the first book dedicated to Textpattern development, a popular web site framework that allows its users to build up standards-compliant professional web sites with only a basic knowledge of the underlying technology. Written by five experts, it is suitable for every level of reader from novice to expert, taking the reader from the basics of the subject such as installation, right up to advanced subjects like writing plugins. It includes case studies and reference sections. It is also open source, so free to use, and has become very popular with tens of thousands of downloads to date.

Beginning Ajax with PHP Lee Babin 2007-04-30 This is the first book to show how PHP and Javascript technologies can work together to create next generation

applications. Covering many of the most commonplace topics developers encounter in daily web application development tasks, The author guides readers through topics like enhanced forms validation, data display and manipulation, JavaScript debugging, and security considerations. The result is a book that not only discusses how two of the world's most talked about technologies can come together to create amazing applications, but is also based upon a real-world context, enabling developers to immediately begin applying what they've learned to their own situation.

HTML5, JavaScript und jQuery Dane Cameron 2015-05-06 Ihr Crashkurs in moderner Webprogrammierung Sie haben Programmiergrundwissen und suchen einen Quereinstieg in HTML5, JavaScript und jQuery? Mit dieser konzentrierten Einführung lernen Sie zügig und praxisnah, was Sie zur Entwicklung moderner Webanwendungen wissen müssen. Geschrieben von einem Entwickler für Entwickler, vermittelt dieses Buch die relevanten Konzepte und ihre Anwendung direkt anhand eines Beispielprojekts, ganz ohne theoretischen Ballast. Autor Dane Cameron macht Sie zunächst mit den Elementen und Konzepten von HTML5, JavaScript und jQuery vertraut. Kapitel für Kapitel bauen Sie die Beispielanwendung als Single Page Webanwendung (SPA) auf und implementieren dabei alle benötigten Features. Sie lernen unter anderem, mit jQuery das DOM zu bearbeiten, eigene Plugins zu schreiben, client-seitig Daten zu speichern oder Ihre Webanwendung auch offline nutzbar und mit Web Worker "multithread-fähig" zu machen.

Head First HTML5 Programming Eric Freeman 2011-10-06 HTML has been on a wild ride. Sure, HTML started as a mere markup language, but more recently HTML's put on some major muscle. Now we've got a language tuned for building web applications with Web storage, 2D drawing, offline support, sockets and threads, and more. And to speak this language you've got to go beyond HTML5 markup and into the world of the DOM, events, and JavaScript APIs. Now you probably already know all about HTML markup (otherwise known as structure) and you know all aboutCSS style (presentation), but what you've been missing is JavaScript (behavior). If all you know about are structure and presentation, you can create some great looking pages, but they're still just pages. When you add behavior with JavaScript, you can create an interactive experience; even better, you can create full blown web applications. Head First HTML5 Programming is your ultimate tour guide to creating web applications with HTML5 and JavaScript, and we give you everything you need to know to build them, including: how to add interactivity to your pages, how to communicate with the world of Web services, and how to use the great new APIs being developed for HTML5. Here are just some of the things you'll learn in Head First HTML5 Programing: Learn how to make your pages truly interactive by using the power of the DOM. Finally understand how JavaScript works and take yourself from novice to well-informed in just a few chapters. Learn how JavaScript APIs fit into the HTML5 ecosystem, and how to use any API in your web pages. Use the Geolocation API to know where your users are. Bring out your inner artist with Canvas, HTML5's new 2D drawing surface. Go beyond just plugging a video into your pages, and create custom video experiences. Learn the secret to grabbing five megabytes of storage in every user's browser. Improve your page's responsiveness and performance with Web workers. And much more.

JavaScript Pocket Reference David Flanagan 2002-10-29 JavaScript--the powerful, object-based scripting language that can be embedded directly into HTML pages--has earned its place in the web developer's toolkit, to the extent that it's now considered required knowledge for web developers. You can use JavaScript to create dynamic, interactive applications that run completely within a web

browser. JavaScript is also the language of choice for developing Dynamic HTML content. Because its syntax is based on the popular programming languages C, C++, and Java, JavaScript is familiar and easy to learn for experienced programmers. At the same time, it's an interpreted scripting language, providing a flexible, forgiving programming environment for new programmers. The JavaScript Pocket Reference, 2nd Edition, provides a complete overview of the core JavaScript language and client-side scripting environment, as well as quick-reference material on core and client-side objects, methods, and properties. The new edition has been revised to cover JavaScript 1.5, and is particularly useful for developers working with the standards-compliant web browsers, such as Internet Explorer 6, Netscape 7, and Mozilla. Ideal as an introduction for beginners and a quick reference for advanced developers, this pocket-sized book is easy to take anywhere and serves as the perfect companion volume to the bestselling JavaScript: The Definitive Guide, 4th Edition. O'Reilly's Pocket References have become a favorite among developers everywhere. By providing a wealth of important details in a concise, well-organized format, these handy books deliver just what you need to complete the task at hand. When you've reached a sticking point and need to get to the answer quickly, the new JavaScript Pocket Reference is the book you'll want close at hand.

Multidisciplinary Research on Teaching and Learning W. Schnotz 2015-04-07 This collection indicates how research on teaching and learning from multiple scientific disciplines such as educational science and psychology can be successfully pursued by a co-operation between researchers and school teachers. The contributors adopt different methodological approaches, ranging from field research to laboratory experiments.

PHP and MySQL For Dummies Janet Valade 2009-11-10 Here's what Web designers need to know to create dynamic, database-driven Web sites To be on the cutting edge, Web sites need to serve up HTML, CSS, and products specific to the needs of different customers using different browsers. An effective e-commerce site gathers information about users and provides information they need to get the desired result. PHP scripting language with a MySQL back-end database offers an effective way to design sites that meet these requirements. This full updated 4th Edition of PHP & MySQL For Dummies gets you quickly up to speed, even if your experience is limited. Explains the easy way to install and set up PHP and MySQL using XAMPP, so it works the same on Linux, Mac, and Windows Shows you how to secure files on a Web host and how to write secure code Packed with useful and understandable code examples for Web site creators who are not professional programmers Fully updated to ensure your code will be compliant based on PHP 5.3 and MySQL 5.1.31 Provides clear, accurate code examples PHP & MySQL For Dummies, 4th Edition provides what you need to know to create sites that get results. Note: CD-ROM/DVD and other supplementary materials are not included as part of eBook file.

Briggs Barry Briggs 2016-01-07 How do you start? How should you build a plan for cloud migration for your entire portfolio? How will your organization be affected by these changes? This book, based on real-world cloud experiences by enterprise IT teams, seeks to provide the answers to these questions. Here, you'll see what makes the cloud so compelling to enterprises; with which applications you should start your cloud journey; how your organization will change, and how skill sets will evolve; how to measure progress; how to think about security, compliance, and business buy-in; and how to exploit the ever-growing feature set that the cloud offers to gain strategic and competitive

advantage.

SQL For Dummies Allen G. Taylor 2011-02-23 See how SQL interfaces with today's environments Start building and using relational databases with SQL's newest features The database may be the twenty-first century filing cabinet, but building one is a little more complex than sliding drawers into a metal box. With this book to guide you through all the newest features of SQL, you'll soon be whipping up relational databases, using SQL with XML to power data-driven Web sites, and more! Discover how to * Use SQL in a client/server system * Build a multitable relational database * Construct nested and recursive queries * Set up database security * Use SQL within applications * Map SQL to XML

Mobiles Internet im Unternehmenskontext Stefan Christmann 2012 The mobile Internet – understood as the usage of Internet services and protocols over wireless networks – is a technology which can be of beneficial use in companies. So far and in contrast to the use by private customers this area is still under development, which can be explained through the special conditions of IT-implementation in enterprises.Stefan Christmann therefore analyzes usage potentials and challenges of this technology and describes technical solutions to enable the application of mobile Internet in enterprises and to make it more economical. In the area of application development, the book focuses on an operating system independent programming with web technologies, which eliminates the need for multiple development processes. Das mobile Internet ist eine Technologie, die im privaten Einsatzbereich bereits eine hohe Verbreitung gefunden hat. Eine zunehmende Anzahl von Nutzern greift mit Smartphones und Tablet PCs mobil auf das Internet zu und verwendet mobile Anwendungen, so genannte Apps, zum Zugriff auf Informationen und Dienste. Auch in und zwischen Unternehmen kann die Verwendung dieser Endgerätklasse Nutzen stiften. Dieser Bereich ist bisher jedoch noch unterentwickelt, was durch die besonderen Rahmenbedingungen der IT-Nutzung in Unternehmen bedingt ist. Neben erhöhten Anforderungen bezüglich Sicherheit und Stabilität von Diensten ist vor allem die im Vergleich zum Privatkundengeschäft notwendige technische Integration ein wichtiger Faktor.Stefan Christmann analysiert daher Einsatzpotentiale und Herausforderungen der Technologie, validiert diese über eine empirische Befragung und schildert technische Lösungsansätze, um den Einsatz von mobilem Internet in Unternehmen zu ermöglichen und wirtschaftlicher zu gestalten. Im Bereich der Anwendungsentwicklung fokussiert das Buch dazu auf eine betriebssystemübergreifende Programmierung mittels Webtechnologien, welche die mehrfache Entwicklung von mobilen Anwendungen überflüssig macht.

Beginning PHP5 Dave W. Mercer 2005-02-11 What is this book about? Beginning PHP5 is a complete tutorial in PHP5'slanguage features and functionality, beginning with the basics andbuilding up to the design and construction of complex data-drivenWeb sites. Fully functioning applications are developed through thecourse of the book. Other features of the book include installationguide and troubleshooting tips, introduction to relationaldatabases, practical working examples and applications, and adetailed language reference. Here are the new topics in this edition: OOP PEAR GTK MSI CLI SQLite Error handling with try/catch

Easy Keyboard and Piano Pieces John Jester 2016-05-10 Easy Keyboard and Piano Pieces is the perfect companion for those starting out to learn the keyboard or piano. The book uses simple, popular and familiar tunes which helps the player feel more comfortable as they learn the easy-to-play pieces. All notes have their letters printed above them in a large easy-to read font, to help those

who are yet to learn how to read music. Also included are some blank music sheets, so you can have fun creating your own compositions. Easy Keyboard and Piano Pieces is the ideal first music book. Twinkle, Twinkle Are You Sleeping? Baa, Baa, Black Sheep The Wheels on the Bus London Bridge Good Morning to All I'm a Little Teapot Polly Put the Kettle On Ring a Ring of Roses The Grand Old Duke of York Old McDonald Oranges and Lemons Three Blind Mice Hickory, Dickory, Dock Hot Cross Buns Happy and You Know It The Muffin Man The Mulberry Bush Sing a Song of Sixpence Row Your Boat Kumbaya Itsy Bitsy Spider Rudolph the Red-nosed Reindeer Humpty Dumpty Girls and Boys Pop goes the weasel Heads, Shoulders, Knees and Toes Nellie the Elephant Round the Mountain I Am the Music Man Write Your Own Composition

WordPress For Dummies® Lisa Sabin-Wilson 2010-07-30 The bestselling guide to WordPress, fully updated for newest version of WordPress WordPress, the popular, free blogging platform, has been updated with new features and improvements. Bloggers who are new to WordPress will learn to take full advantage of its flexibility and usability with the advice in this friendly guide. Previous editions have sold nearly 50,000 copies, and interest in blogging continues to explode. WordPress is a state-of-the-art blog platform that emphasizes aesthetics, Web standards, and usability WordPress For Dummies, 3rd Edition covers both the free-hosted WordPress.com version and WordPress.org, which requires users to purchase Web hosting services Written by an expert who works directly with the developers and cofounder of WordPress Shows readers how to set up and maintain a blog with WordPress and how to use all the new features Like its earlier editions, WordPress For Dummies, 3rd Edition helps bloggers quickly and easily take advantage of everything this popular blogging tool has to offer.

Microsoft Excel 2019 VBA and Macros Bill Jelen 2018-12-18 Renowned Excel experts Bill Jelen (MrExcel) and Tracy Syrstad explain how to build more powerful, reliable, and efficient Excel spreadsheets. Use this guide to automate virtually any routine Excel task: save yourself hours, days, maybe even weeks. Make Excel do things you thought were impossible, discover macro techniques you won't find anywhere else, and create automated reports that are amazingly powerful. Bill Jelen and Tracy Syrstad help you instantly visualize information to make it actionable; capture data from anywhere, and use it anywhere; and automate the best new features in Excel 2019 and Excel in Office 365. You'll find simple, step-by-step instructions, real-world case studies, and 50 workbooks packed with examples and complete, easy-to-adapt solutions. By reading this book, you will: Quickly master Excel macro development Work more efficiently with ranges, cells, and formulas Generate automated reports and quickly adapt them for new requirements Learn to automate pivot tables to summarize, analyze, explore, and present data Use custom dialog boxes to collect data from others using Excel Improve the reliability and resiliency of your macros Integrate data from the internet, Access databases, and other sources Automatically generate charts, visualizations, sparklines, and Word documents Create powerful solutions with classes, collections, and custom functions Solve sophisticated business analysis problems more rapidly About This Book For everyone who wants to get more done with Microsoft Excel in less time For business and financial professionals, entrepreneurs, students, and others who need to efficiently manage and analyze data

Seamless Learning in the Age of Mobile Connectivity Lung-Hsiang Wong 2014-11-02 The book departs from the approach of related titles by focusing on describing and reflecting upon the notion of seamless learning with regard to salient

characteristics of learner mobility and bridging of learning experiences across learning spaces. It is the first such work that is solely dedicated to research on and the practice of seamless learning, uniquely combining interpretations, visions, and past research on and practices in seamless learning from diversified perspectives. The book also strikes a good balance between theoretical and practical perspectivess, going beyond a collection of reports on specific research projects. Instead of thick descriptions of research processes and findings, readers will find significant insights and food for thought intended to inspire further advances in the research on and practice of seamless learning.

HTML5 & CSS3 (Prags) Brian P. Hogan 2011-05-31 HTML5 und CSS3 gehören zu den spannendsten neuen Technologien, die das Web in Zukunft prägen werden. Die meisten Features werden bereits heute von modernen Browsern unterstützt, und insbesondere im mobilen Web sind sie stark auf dem Vormarsch. Höchste Zeit also, die neuen Möglichkeiten zu erkunden und sich fit für die Zukunft zu machen! Dieses Buch richtet sich an Webentwickler, die bereits Grundkenntnisse in HTML und CSS mitbringen und die ohne viel Umschweife in die praktische Arbeit mit den neuen Webstandards einsteigen möchten. Es stellt ihnen in verständlicher Form die neuen Elemente und APIs von HTML5 sowie interessante CSS3-Features vor, die schon lange auf der Wunschliste vieler Webdesigner standen. Zunächst machen Sie sich mit den Neuerungen vertraut und erfahren, wie Sie Audio, Video und Vektorgrafiken in Ihre Website einbetten, ohne auf Flash zurückzugreifen. Danach lernen Sie weitere wichtige Features kennen, die die Entwicklung von Websites mit HTML5 und CSS3 wesentlich komfortabler machen: Geolocation, Web Sockets, Offline-Unterstützung für Webanwendungen und Cross-Document Messaging. Außerdem lernen Sie CSS3-Selektoren kennen, die beeindruckende neue Design-Möglichkeiten bieten und für eine verbesserte Usability und Accessibility sorgen. Obwohl die Entwicklung von HTML5 und CSS3 noch nicht abgeschlossen ist, werden die beiden neuen Standards bereits heute von den meisten modernen Browsern unterstützt. Für Nutzer älterer Browser sollten Sie Fallback-Möglichkeiten implementieren, damit auch sie problemlos auf Ihre Website zugreifen können. Solche Ausweichlösungen werden Ihnen für alle im Buch vorgestellte Features und Lösungen an die Hand gegeben. Darüber hinaus stehen Ihnen die entwickelten Beispiele als Download-Code zur Verfügung.

SQL Pocket Guide Jonathan Gennick 2004 This pocket guide presents the most crucial information about SQL in a compact and easily accessible format, covering the four commonly used SQL variants--Oracle, IBM DB2, Microsoft SQL Server, and MySQL. Topics include: Data manipulation statements (SELECT, DELETE, INSERT, UPDATE, MERGE) and transaction control statements (START TRANSACTION, SAVEPOINT, COMMIT, ROLLBACK). Common SQL functions (date, numeric, math, trigonometric, string, conversion, aggregate) Such topics as literals, NULLs, CASE expressions, datatype conversion, regular expressions, grouping and summarizing data, joining tables, and writing queries (hierarchical, recursive, union, flashback) and subqueries. Instead of presenting complex and confusing syntax diagrams, the book teaches by example, showing the SQL statements and options that readers are most like to use. All example data is available on the O'Reilly web site. "If you need fast, accurate SQL information, with examples for multiple database engines, be sure to check out this book."--Chris Kempster, Senior DBA and author of SQL Server 2000 for the Oracle DBA, www.chriskempster.com

HTML5 Pocket Reference Jennifer Robbins 2013-07-19 Annotation Need help finding the right HTML5 element or attribute for your web page or application? HTML5

Pocket Reference is the classic reference that web designers and developers have been keeping close at hand for more than thirteen years. This fifth edition has been updated to reflect the current state of HTML5, including the HTML5 Candidate Recommendation, the emerging HTML5.1 Working Draft, and the living WHATWG standard. Features include:An alphabetical listing of every element and attribute in HTML5, HTML5.1, and the WHATWG living standardDescriptions, markup examples, content categories, content models, and start- and end-tag requirements for every elementAt-a-glance notes indicating the differences between the HTML5 specifications and HTML 4.01Useful charts of special charactersAn overview of HTML5 APIsIf youre an experienced web designer or developer who needs a quick resource for working with established web standards, this handy book is indispensable.

PHP in Action Marcus Baker 2007-06-30 To keep programming productive and enjoyable, state-of-the-art practices andprinciples are essential. Object-oriented programming and design help managecomplexity by keeping components cleanly separated. Unit testing helps preventendless, exhausting debugging sessions. Refactoring keeps code supple andreadable. PHP offers all this-and more. PHP in Action shows you how to apply PHP techniques and principles to all themost common challenges of web programming, including: Web presentation and templates User interaction including the Model-View-Contoller architecture Input validation and form handling Database connection and querying and abstraction Object persistence Purchase of the print book comes with an offer of a free PDF, ePub, and Kindle eBook from Manning. Also available is all code from the book.

HTML & CSS: The Complete Reference, Fifth Edition Thomas Powell 2010-01-08 The Definitive Guide to HTML & CSS--Fully Updated Written by a Web development expert, the fifth edition of this trusted resource has been thoroughly revised and reorganized to address HTML5, the revolutionary new Web standard. The book covers all the elements supported in today's Web browsers--from the standard (X)HTML tags to the archaic and proprietary tags that may be encountered. HTML & CSS: The Complete Reference, Fifth Edition contains full details on CSS 2.1 as well as every proprietary and emerging CSS3 property currently supported. Annotated examples of correct markup and style show you how to use all of these technologies to build impressive Web pages. Helpful appendixes cover the syntax of character entities, fonts, colors, and URLs. This comprehensive reference is an essential tool for professional Web developers. Master transitional HTML 4.01 and XHTML 1.0 markup Write emerging standards-based markup with HTML5 Enhance presentation with Cascading Style Sheets (CSS1 and CSS 2.1) Learn proprietary and emerging CSS3 features Learn how to read (X)HTML document type definitions (DTDs) Apply everything in an open standards-focused fashion Thomas A. Powell is president of PINT, Inc. (pint.com), a nationally recognized Web agency. He developed the Web Publishing Certificate program for the University of California, San Diego Extension and is an instructor for the Computer Science Department at UCSD. He is the author of the previous bestselling editions of this book and Ajax: The Complete Reference, and co-author of JavaScript: The Complete Reference.

The Coding Workbook Sam Taylor 2020-11-11 Build a website with your pencil! The Coding Workbook empowers you to teach students the basics of web development without a computer. This beginner-friendly introduction to web development enables anyone to build a website by writing out code by hand--no computer or internet required. It's a fun, hands-on approach to coding that teaches the basics of using the HTML and CSS programming languages (the language of web

pages). You write the code in the pages of your workbook and then draw what it would look like in a web browser. TEACHERS: This has everything you need to teach an introductory web development class, and the pages are perforated! STUDENTS: Learn the basics of HTML and CSS to build your own custom website! Once you've finished the workbook you'll have the skills to easily build and launch a website. It's that easy! This exercise-filled workbook is packed with illustrations and progress quizzes, making it perfect for at-home learning or schools lacking sufficient computer or internet access. It has everything you need to teach a coding class or learn basic web programming yourself. Requirements: Pen or pencil and a desire to learn!

Computational Thinking Peter J. Denning 2019-05-14 An introduction to computational thinking that traces a genealogy beginning centuries before the digital computer. A few decades into the digital era, scientists discovered that thinking in terms of computation made possible an entirely new way of organizing scientific investigation; eventually, every field had a computational branch: computational physics, computational biology, computational sociology. More recently, "computational thinking" has become part of the K–12 curriculum. But what is computational thinking? This volume in the MIT Press Essential Knowledge series offers an accessible overview, tracing a genealogy that begins centuries before digital computers and portraying computational thinking as pioneers of computing have described it. The authors explain that computational thinking (CT) is not a set of concepts for programming; it is a way of thinking that is honed through practice: the mental skills for designing computations to do jobs for us, and for explaining and interpreting the world as a complex of information processes. Mathematically trained experts (known as "computers") who performed complex calculations as teams engaged in CT long before electronic computers. The authors identify six dimensions of today's highly developed CT—methods, machines, computing education, software engineering, computational science, and design—and cover each in a chapter. Along the way, they debunk inflated claims for CT and computation while making clear the power of CT in all its complexity and multiplicity.

Moderne Webentwicklung Peter Gasston 2014-02-24 Webtechnologien verändern sich nahezu mit Lichtgeschwindigkeit und bringen das Internet auf immer mehr unterschiedliche Geräte. Wenn aber Nutzer je nach Situation ein Smartphone-Display, einen Desktop-Computer oder einen TV-Großbildschirm fürs Browsen verwenden – worauf müssen dann anspruchsvolle Webentwickler heute und in Zukunft achten? Peter Gasston führt Sie praxisorientiert und anschaulich durch die geräteunabhängige Webentwicklung mit HTML5, CSS3 und JavaScript. Dabei präsentiert er Standards, Tools und Techniken, mit denen Sie die Eigenheiten von Browsern und Ausgabegeräten in den Griff bekommen, heute und in absehbarer Zukunft. Sie lernen unter anderem, wie Sie • Inhalte per Responsive Design an unterschiedliche Ausgabegeräte anpassen • Websites mit den neuesten APIs entwickeln, u.a. Geolocation, Orientation und Web Storage • Audio und Video plattformübergreifend und ohne lästige Plug-ins integrieren • Bilder und Grafiken mit SVG für hochauflösende Ausgabegeräte skalierbar machen • leistungsfähige HTML5-Elemente nutzen, um bessere Formulare zu erstellen Mit diesem Buch arbeiten Sie am Puls der Zeit und entwickeln moderne Websites, die die Möglichkeiten aller Ausgabegeräte und aller Browser in vollem Umfang nutzen. Sie erfahren, welche Techniken heute angesagt sind und wohin die Entwicklung geht.

Make Your Own Neural Network Tariq Rashid 2016-03-31 A step-by-step gentle

journey through the mathematics of neural networks, and making your own using the Python computer language. Neural networks are a key element of deep learning and artificial intelligence, which today is capable of some truly impressive feats. Yet too few really understand how neural networks actually work. This guide will take you on a fun and unhurried journey, starting from very simple ideas, and gradually building up an understanding of how neural networks work. You won't need any mathematics beyond secondary school, and an accessible introduction to calculus is also included. The ambition of this guide is to make neural networks as accessible as possible to as many readers as possible – there are enough texts for advanced readers already! You'll learn to code in Python and make your own neural network, teaching it to recognise human handwritten numbers, and performing as well as professionally developed networks. Part 1 is about ideas. We introduce the mathematical ideas underlying the neural networks, gently with lots of illustrations and examples. Part 2 is practical. We introduce the popular and easy to learn Python programming language, and gradually builds up a neural network which can learn to recognise human handwritten numbers, easily getting it to perform as well as networks made by professionals. Part 3 extends these ideas further. We push the performance of our neural network to an industry leading 98% using only simple ideas and code, test the network on your own handwriting, take a privileged peek inside the mysterious mind of a neural network, and even get it all working on a Raspberry Pi. All the code in this has been tested to work on a Raspberry Pi Zero.

Just Beneath the Surface Paul M. Titus 2009-10 Paul's Florida dream home had almost everything he wanted a palm-laced landscape, swimming pool and a deck overlooking a sun-dappled canal. But just beneath the surface of this idyllic neighborhood lay secrets that some people would do anything to protect. And when Paul unwittingly uncovered these secrets, "the powers that be" took steps to ensure that he'd never be believed or live to tell the tale. Here is the true story of how one man helped crack a long-standing "wall of denial" one extending from suburban Florida to the Pentagon.

PHP and MySQL for Kids Johann-Christian Hanke 2015-02-16 PHP and MySQL for Kids is a lighthearted introduction to programming with PHP that shows you how to use the building blocks of the web to make your own websites. After making a simple HTML home page, you'll learn how to install a server, manage databases with MySQL, create a blog, recognize visitors with cookies, and much more. In each chapter, you'll work on a project to learn increasingly advanced web programming skills, with illustrations and kid-friendly examples to keep things fun along the way. If you want to start making your mark on the web, this is the perfect place to start.

Jetzt lerne ich HTML5 Christoph Prevezanos 2011 Aktuell zur neuesten Version5 zeigt uns dieser langjährige Bestseller wie HTML funktioniert, denn HTML ist keine Hexerei! Der Autor gibt zunächst einen gründlichen Einstieg in die Grundlagen von HTML und zeigt dann einfach und leicht verständlich die neuesten Techniken auf. Ein besonderer Themenschwerpunkt ist das Entrümpeln von HTML-Code bei Verwendung diverser HTML-Tools. Grundlagen zu CSS mit einer eigenen CSS-Referenz sowie alle Neuerungen zu HTML5 geben weitere wertvolle Hilfestellung. Starten Sie bei Null und erfahren trotzdem alles zu HTML5. Lernen Sie korrektes HTML, streng nach den neuesten Standards des W3C. Binden Sie Fotos, Videos, Flash, Java & ActiveX für jeden Browser in Ihre Webseiten ein. Trennen Sie Inhalt und Design perfekt mit Cascading Stylesheets nach dem CSS-Standard. Alle Befehle werden Ihnen anhand praxisnaher Beispiele erläutert.

Übungen am Ende eines Kapitels runden den Inhalt sinnvoll ab. Besonders wertvoll ist der umfangreiche Anhang mit übersichtlichen Tabellen für Befehle, Html-Codes, Farben und Symbolen die Sie als Alltagsreferenz zukünftig bei Ihrer Arbeit unterstützen.

Python Pocket Reference Mark Lutz 2014-01-22 Updated for both Python 3.4 and 2.7, this convenient pocket guide is the perfect on-the-job quick reference. You'll find concise, need-to-know information on Python types and statements, special method names, built-in functions and exceptions, commonly used standard library modules, and other prominent Python tools. The handy index lets you pinpoint exactly what you need. Written by Mark Lutz—widely recognized as the world's leading Python trainer—Python Pocket Reference is an ideal companion to O'Reilly's classic Python tutorials, Learning Python and Programming Python, also written by Mark. This fifth edition covers: Built-in object types, including numbers, lists, dictionaries, and more Statements and syntax for creating and processing objects Functions and modules for structuring and reusing code Python's object-oriented programming tools Built-in functions, exceptions, and attributes Special operator overloading methods Widely used standard library modules and extensions Command-line options and development tools Python idioms and hints The Python SQL Database API

Web Design with HTML, CSS, JavaScript and jQuery Set Jon Duckett 2014-07-08 A two-book set for web designers and front-end developers This two-book set combines the titles HTML & CSS: Designing and Building Web Sites and JavaScript & jQuery: Interactive Front-End Development. Together these two books form an ideal platform for anyone who wants to master HTML and CSS before stepping up to JavaScript and jQuery. HTML & CSS covers structure, text, links, images, tables, forms, useful options, adding style with CSS, fonts, colors, thinking in boxes, styling lists and tables, layouts, grids, and even SEO, Google analytics, ftp, and HTML5. JavaScript & jQuery offers an excellent combined introduction to these two technologies using a clear and simple visual approach using diagrams, infographics, and photographs. A handy two-book set that uniquely combines related technologies Highly visual format and accessible language makes these books highly effective learning tools Perfect for beginning web designers and front-end developers

Universities in Change Andreas Altmann 2012-09-13 Universities find themselves in dynamic change. They are confronted with growing expectations from their stakeholders, increasing international competition, and new technological challenges. Featuring insights and in-depth case studies from leading researchers and university decision makers from around the world, this book argues that institutions of higher education, in order to be successful, have to actively reflect on circumstances, visions, and strategies to master the future. Drawing from their experiences across a diverse array of institutions in Europe, Asia, and the Americas, the authors explore the pressures on today's universities and the opportunities for excelling in the contest for resources. They discuss operational issues, such as strategic management, IT governance, leadership development, and entrepreneurial culture, and broader concerns, such as the roles and responsibilities of universities in promoting technology transfer and economic and social development. The result is a resource that not only reveals and analyzes universities from an organizational perspective, but presents best practice models and concrete inspiration for management and policymaking.

Web Development with Java Tim Downey 2008-01-11 This book jumps to the "good

stuff" from the outset, allowing students to quickly start writing real applications. It introduces readers to a 3-tiered, Model-View-Controller architecture by using Hibernate, JSPs, and Java Servlets. This book uses existing powerful technologies such as JSP, JavaBeans, Annotations, JSTL, Java 1.5, Hibernate, Apache Velocity and Tomcat. It also presents Model 1 architectures using Servlets and JSP as alternatives to Perl and PHP. Written for novice developers, this book provides an introductory course in web development for undergraduates as well as web developers.

Teaching with Classroom Response Systems Derek Bruff 2009-10-22 There is a need in the higher education arena for a book that responds to the need for using technology in a classroom of tech-savvy students. This book is filled with illustrative examples of questions and teaching activities that use classroom response systems from a variety of disciplines (with a discipline index). The book also incorporates results from research on the effectiveness of the technology for teaching. Written for instructional designers and re-designers as well as faculty across disciplines. A must-read for anyone interested in interactive teaching and the use of clickers. This book draws on the experiences of countless instructors across a wide range of disciplines to provide both novice and experienced teachers with practical advice on how to make classes more fun and more effective."--Eric Mazur, Balkanski Professor of Physics and Applied Physics, Harvard University, and author, Peer Instruction: A User's Manual "Those who come to this book needing practical advice on using 'clickers' in the classroom will be richly rewarded: with case studies, a refreshing historical perspective, and much pedagogical ingenuity. Those who seek a deep, thoughtful examination of strategies for active learning will find that here as well—in abundance. Dr. Bruff achieves a marvelous synthesis of the pragmatic and the philosophical that will be useful far beyond the life span of any single technology." --Gardner Campbell, Director, Academy for Teaching and Learning, and Associate Professor of Literature, Media, and Learning, Honors College, Baylor University

Object-oriented Databases John G. Hughes 1991 The principles of the semantic data modelling are described here in depth and this is followed by a description of the application of object-oriented techniques in this area. Separate chapters are devoted to implementational issues, such as persistence and concurrency.

Beginning Programming with C For Dummies Dan Gookin 2013-10-10 Learn the basics of programming with C with this fun and friendly guide! C offers a reliable, strong foundation for programming and serves as a stepping stone upon which to expand your knowledge and learn additional programming languages. Written by veteran For Dummies author Dan Gookin, this straightforward-but-fun beginner's guide covers the fundamentals of using C and gradually walks you through more advanced topics including pointers, linked lists, file I/O, and debugging. With a special focus on the subject of an Integrated Development Environment, it gives you a solid understanding of computer programming in general as you learn to program with C. Encourages you to gradually increase your knowledge and understanding of C, with each chapter building off the previous one Provides you with a solid foundation of understanding the C language so you can take on larger programming projects, learn new popular programming languages, and tackle new topics with confidence Includes more than 100 sample programs with code that are adaptable to your own projects Beginning Programming with C For Dummies assumes no previous programming language experience and helps you become competent and comfortable with the fundamentals of C in no time.

Feedback For Learning Susan Askew 2004-11-23 Teachers may be surrounded by feedback and involved in it every day, but the notion is poorly analysed and poorly used. Feedback for Learning provides an important collection of contributions to the highly topical theme of feedback to support learning. The book spans three major areas which affect all teachers: *young people's learning *teachers' learning *organisational learning. The authors critically examine the assumption that feedback necessarily has positive learning outcomes and describe models and practices which are more likely to result in effective learning at the individual, group and organisational level.