C Guida Essenziale Per Programmatori

Software Development with C++: Maximizing Reuse with Object Technology is about software development and object-oriented technology (OT), with applications implemented in C++. The basis for any software development project of complex systems is the process, rather than an individual method, which simply supports the overall process. This book is not intended as a general, all-encompassing treatise on OT. The intent is to provide practical information that is directly applicable to a development project. Explicit guidelines are offered for the infusion of OT into the various development phases. The book is divided into five major parts. Part I describes why we need a development process, the phases and steps of the software process, and how we use individual methods to support this process. Part II lays the foundation for the concepts included in OT. Part III describes how OT is used in the various phases of the software development process, including the domain analysis, system requirements analysis, system design, software requirements analysis, software design, and implementation. Part IV deals exclusively with design issues for an anticipated C++ implementation. Part V is devoted to object-oriented programming with C++. This book is intended for practicing software developers, software managers, and computer science and software engineering students. Sufficient guidelines are included to aid project leaders in establishing an overall development process for small, medium, and large system applications.

Processing opened up the world of programming to artists, designers, educators, and beginners. The Processing.py Python implementation of Processing reinterprets it for today's web. This short book gently introduces the core concepts of computer programming and working with Processing. Written by the co-founders of the Processing project, Reas and Fry, along with co-author Allison Parrish, Getting Started with Processing.py is your fast track to using Python's Processing mode.

The Robert C. Martin Clean Code Collection consists of two bestselling eBooks: Clean Code: A Handbook of Agile Software Craftmanship The Clean Coder: A Code of Conduct for Professional Programmers In Clean Code, legendary software expert Robert C. Martin has teamed up with his colleagues from Object Mentor to distill their best agile practice of cleaning code “on the fly” into a book that will instill within you the values of a software craftsman and make you a better programmer--but only if you work at it. You will be challenged to think about what’s right about that code and what’s wrong with it. More important, you will be challenged to reassess your professional values and your commitment to your craft. In The Clean Coder, Martin introduces the disciplines, techniques, tools, and practices of true software craftsmanship. This book is packed with practical advice--about everything from estimating and coding to refactoring and testing. It covers much more than technique: It is about attitude. Martin shows how to approach software development with honor, self-respect, and pride; work well and work clean; communicate and estimate faithfully; face difficult decisions with clarity and honesty; and understand that deep knowledge comes with a responsibility to act. Readers of this collection will come away understanding How to tell the difference between good and bad code How to write good code and how to transform bad code into good code How to create good names, good functions, good objects, and good classes How to format code for maximum readability How to implement complete error handling without obscuring code logic How to unit test and practice test-driven development What it means to behave as a true software craftsman How to deal with conflict, tight schedules, and unreasonable managers How to get into the flow of coding and get past writer’s block How to handle unrelenting pressure and avoid burnout How to combine enduring attitudes with new development paradigms How to manage your time and avoid blind alleys, marshes, bogs, and swamps How to foster environments where programmers and teams can thrive When to say “No”--and how to say it When to say “Yes”--and what yes really means

Description: Best way to learn any programming language is to create good programs in it. C is not exception to this rule. Once you decide to write any program you would find that there are always at least two ways to write it. So you need to find out whether you have chosen the best way to implement your program. That's where you would find this book useful. It contains solutions to all the exercises present in Let Us C 15th Edition. If you learn the language elements from Let Us C, write programs for the problems given in the exercises and then cross check your answers with the solutions given in this book you would be well on your way to become a skilled C programmer. I am sure you would appreciate this learning path like the millions of students and professionals have in the past decade.Table Of Contents:IntroductionChapter 0 : Before We beginChapter 1 : Getting StartedChapter 2 : C InstructionsChapter 3 : Decision Control InstructionChapter 4 : More Complex Decision MakingChapter 5 : Loop control InstructionChapter 6 : More Complex RepetitionsChapter 7 : Case Control InstructionChapter 8 : FunctionsChapter 9 : PointersChapter 10 : RecursionChapter 11 : Data Types RevisitedChapter 12 : The C PreprocessorChapter 13 : ArraysChapter 14 : Multidimensional ArraysChapter 15 : StringsChapter 16 : Handling Multiple StringsChapter 17 : StructuresChapter 18 : Console Input/ OutputChapter 19 : File Input/outputChapter 20 : More Issues in Input/OutputChapter 21 : Operations on BitsChapter 22 : Miscellaneous featuresChapter 23 : C Under Linux

When Paul Collins's son Morgan was two years old, he could read, spell, and perform multiplication tables in his head...but not answer to his own name. A casual conversation-or any social interaction that the rest of us take for granted-will, for Morgan, always be a cryptogram that must be painstakingly decoded. He lives in a world of his own: an autistic world. In Not Even Wrong, Paul Collins melds a memoir of his son's autism with a journey into this realm of permanent outsiders. Examining forgotten geniuses and obscure medical archives, Collins's travels take him from an English churchyard to the Seattle labs of Microsoft, and from a Wisconsin prison cell block to the streets of Vienna. It is a story that reaches from a lonely clearing in the Black Forest into the London palace of King George I, from Defoe and Swift to the discovery of evolution; from the modern dawn of the computer revolution to, in the end, the author's own household. Not Even Wrong is a haunting journey into the borderlands of neurology - a meditation on what "normal" is, and how human genius comes to us in strange and wondrous forms.

Frugal innovation is a way that companies can create high-quality products with limited resources. Once the preserve of firms in poor markets, Western companies are now seeking ways to appeal to cost-conscious and environmentally-aware consumers at home. With an estimated trillion-dollar global market for frugal products, and with potentially huge cost savings to be gained, frugal innovation is revolutionizing business and reshaping management thinking. This book explains the principles, perspectives and techniques behind frugal innovation, enabling managers to profit from the great changes ahead. The book explains: How to achieve mass customization, using low-cost robotics, inexpensive product design and virtual prototyping software. How consumers and other external partners can help develop products How to implement sustainable practices, such as the production of waste-free products How to change the corporate culture to become more frugal

Vent'anni dopo la pubblicazione del Manifesto per lo Sviluppo Agile di Software, Robert C. Martin ne presenta i valori e i principi a una nuova generazione di sviluppatori, riportandoli alla loro veste originaria e facendo chiarezza sugli errori e le incomprensioni che nel corso degli anni hanno reso difficile applicare Agile. In questo manuale, "Uncle Bob" mostra come alzare il livello di professionalità nello sviluppo software e scrivere codice più efficace ed efficiente. Come in tutti i suoi libri, Martin non si limita a presentare diverse opzioni tra cui orientarsi ma suggerisce quali scelte fare e perché queste sono fondamentali per avere successo, dando risposte dirette a domande cruciali. Come e perché è nato Agile? Cosa comporta la sua applicazione in termini di costi e benefici? Quali sono le pratiche più efficaci da seguire? Come deve essere organizzato un team Agile? Quali tipi di progetto ne traggono beneficio? Qual è il ruolo dell'Agile Coach?

Una lettura essenziale per programmatori, architetti software, tester, manager, project manager e ogni professionista del software chiamato a guidare o partecipare a un progetto di sviluppo Agile.

Python for Software Design is a concise introduction to software design using the Python programming language. The focus is on the programming process, with special emphasis on debugging. The book includes a wide range of exercises, from short examples to substantial projects, so that students have ample opportunity to practice each new concept.

This comprehensive resource, shows you everything you need to develop, compile, debug, and run Java programs. This expert guide has been updated for Java Platform Standard Edition 6 (Java SE 6) and offers complete coverage of the Java language, its syntax, keywords, and fundamental programming principles. Also find information on Java's key API libraries, learn to create applets and servlets, and use JavaBeans. The author has even included expanded coverage of Swing--the toolkit that defines the look and feel of the modern Java GUI.

Come nasce l’idea di una startup? Come si conquista il mercato? Dove si trovano i soldi? Business angel e venture capital? Il crowdfunding funziona? Che differenza c’è tra incubatore e acceleratore? Cos’è l’open innovation? Come si fa un’exit? Andare all’estero: sì, no, quando? E se poi fallisco? Il fenomeno delle startup, nato nella Silicon Valley, è arrivato anche in Italia. Giovani talenti, studenti illuminati, ingegneri, programmatori si inventano un’impresa innovativa. Hanno un sogno e sono disposti a tutto per realizzarlo. Non sono mossi dalla logica del profitto, ma da quella di cambiare il mondo. Sono i nuovi eroi. Questo libro è una guida essenziale per chi vuole creare una startup. Scritto da quattro giornalisti che ogni giorno si confrontano con questo ecosistema. 10 capitoli da leggere tutti d’un fiato, con le interviste esclusive ai founder di startup mondiali, da Airbnb a Candy Crush. 10 capitoli da sottolineare. 10 capitoli da conservare nel tempo per chi vuole farcela. E magari, chissà, cambiare il mondo.

The biggest challenge facing many game programmers is completing their game. Most game projects fizzle out, overwhelmed by the complexity of their own code. Game Programming Patterns tackles that exact problem. Based on years of experience in shipped AAA titles, this book collects proven patterns to untangle and optimize your game, organized as independent recipes so you can pick just the patterns you need. You will learn how to write a robust game loop, how to organize your entities using components, and take advantage of the CPUs cache to improve your performance. You'll dive deep into how scripting engines encode behavior, how quadtrees and other spatial partitions optimize your engine, and how other classic design patterns can be used in games.

Speaking out when it's unpopular. Back in the day, Henry David Thoreau raged at the robber barons-the big shots of their age, despoiling the environment in the name of progress. Deep in the throes of the seemingly unstoppable growth of tech, a modern-day Thoreau has emerged in the guise of Gerry McGovern-decrying the massive, hidden negative impacts of tech on the environment. McGovern has thoroughly documented in World Wide Waste how tech damages the Earth-and what we should be doing about it. It is not just the acres of discarded computer hardware conveniently dumped in Third World countries. Every time an email is downloaded it contributes to global warming. Every tweet, search, check of a webpage creates pollution. Digital is physical. Those data centers are not in the Cloud. They're on land in massive physical buildings packed full of computers hungry for energy. It seems invisible. It seems cheap and free. It's not. Digital costs the Earth.

This text is an unbound, three hole punched version. Access to WileyPLUS sold separately. Parliamo italiano!, Binder Ready Version, Edition 5 continues to offer a communicative, culture based approach for beginning students of Italian. Not only does Parliamo Italiano provide students learning Italian with a strong ground in the four ACTFL skills: reading, writing, speaking, and listening, but it also emphasizes cultural fluency. The text follows a more visual approach by integrating maps, photos, regalia, and cultural notes that offer a vibrant image of Italy. The chapters are organized around functions and activities. Cultural information has been updated to make the material more relevant. In addition, discussions on functional communications give readers early success in the language and encourage them to use it in practical situations.

Agile Values and Principles for a New Generation “In the journey to all things Agile, Uncle Bob has been there, done that, and has the both the t-shirt and the scars to show for it. This delightful book is part history, part personal stories, and all wisdom. If you want to understand what Agile is and how it came to be, this is the book for you.” –Grady Booch “Bob’s frustration colors every sentence of Clean Agile, but it’s a justified frustration. What is in the world of Agile development is nothing compared to what could be. This book is Bob’s perspective on what to focus on to get to that ‘what could be.’ And he’s been there, so it’s worth listening.” –Kent Beck “It’s good to read Uncle Bob’s take on Agile. Whether just beginning, or a seasoned Agilista, you would do well to read this book. I agree with almost all of it. It’s just some of the parts make me realize my own shortcomings, dammit. It made me double-check our code coverage (85.09%).” –Jon Kern Nearly twenty years after the Agile Manifesto was first presented, the legendary Robert C. Martin (“Uncle Bob”) reintroduces Agile values and principles for a new generation–programmers and nonprogrammers alike. Martin, author of Clean Code and other highly influential software development guides, was there at Agile’s founding. Now, in Clean Agile: Back to Basics, he strips away misunderstandings and distractions that over the years have made it harder to use Agile than was originally intended. Martin describes what Agile is in no uncertain terms: a small discipline that helps small teams manage small projects . . . with huge implications because every big project is comprised of many small projects. Drawing on his fifty years’ experience with projects of every conceivable type, he shows how Agile can help you bring true professionalism to software development. Get back to the basics–what Agile is, was, and should always be Understand the origins, and proper practice, of SCRUM Master essential business-facing Agile practices, from small releases and acceptance tests to whole-team communication Explore Agile team members’ relationships with each other, and with their product Rediscover indispensable Agile technical practices: TDD, refactoring, simple design, and pair programming Understand the central roles values and craftsmanship play in your Agile team’s success If you want Agile’s true benefits, there are no shortcuts: You need to do Agile right. Clean Agile: Back to Basics will show you how, whether you’re a developer, tester, manager, project manager, or customer. Register your book for convenient access to downloads, updates, and/or corrections as they become available. See inside book for details.

Real World Java EE Patterns - Rethinking Best Practices (http: //realworldpatterns.com) discusses patterns and best practices in a structured way, with code from real world projects. The rewritten and re-edited version of this book covers: an introduction into the core principles and APIs of Java EE 6, principles of transactions, isolation levels, CAP and BASE, remoting, pragmatic modularization and structure of Java EE applications, discussion of superfluous patterns and outdated best practices, patterns for domain driven and service oriented components, custom scopes, asynchronous processing and parallelization, real time HTTP events, schedulers, REST optimizations, plugins and monitoring tools, and fully functional JCA 1.6 implementation. Real World Java EE Patterns--Rethinking Best Practices will not only help experienced developers and architects to write concise code, but especially help you to shrink the codebase to unbelievably small sizes: -).

PHP and MySQL are quickly becoming the de facto standard for rapid development of dynamic, database-driven web sites. This book is perfect for newcomers to programming as well as hobbyists who are intimidated by harder-to-follow books. With concepts explained in plain English, the new edition starts with the basics of the PHP language, and explains how to work with MySQL, the popular open source database. You then learn how to put the two together to generate dynamic content. If you come from a web design or graphics design background and know your way around HTML, Learning PHP & MySQL is the book you've been looking for. The content includes: PHP basics such as strings and arrays, and pattern matching A detailed discussion of the variances in different PHP versions MySQL data fundamentals like tables and statements Information on SQL data access for language A new chapter on XHTML Error handling, security, HTTP authentication, and more Learning PHP & MySQL explains everything from fundamental concepts to the nuts and bolts of performing specific tasks. As part of O'Reilly's bestselling Learning series, the book is an easy-to-use resource designed specifically for beginners. It's a launching pad for future learning, providing you with a solid foundation for more advanced development.

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

The C++11 standard allows programmers to express ideas more clearly, simply, and directly, and to write faster, more efficient code. Bjarne Stroustrup, the designer and original implementer of C++, thoroughly covers the details of this language and its use in his definitive reference, The C++ Programming Language, Fourth Edition. In A Tour of C++ , Stroustrup excerpts the overview chapters from that complete reference, expanding and enhancing them to give an experienced programmer–in just a few hours–a clear idea of what constitutes modern C++. In this concise, self-contained guide, Stroustrup covers most major language features and the major standard-library components–not, of course, in great depth, but to a level that gives programmers a meaningful overview of the language, some key examples, and practical help in getting started. Stroustrup presents the C++ features in the context of the programming styles they support, such as object-oriented and generic programming. His tour is remarkably comprehensive. Coverage begins with the basics, then ranges widely through more advanced topics, including many that are new in C++11, such as move semantics, uniform initialization, lambda expressions, improved containers, random numbers, and concurrency. The tour ends with a discussion of the design and evolution of C++ and the extensions added for C++11. This guide does not aim to teach you how to program (see Stroustrup’s Programming: Principles and Practice Using C++ for that); nor will it be the only resource you’ll need for C++ mastery (see Stroustrup’s The C++ Programming Language, Fourth Edition, for that). If, however, you are a C or C++ programmer wanting greater familiarity with the current C++ language, or a programmer versed in another language wishing to gain an accurate picture of the nature and benefits of modern C++, you can’t find a shorter or simpler introduction than this tour provides.

If you've used a more traditional object-oriented language, such as C++ or Java, JavaScript probably doesn't seem object-oriented at all. It has no concept of classes, and you don't even need to define any objects in order to write code. But don't be fooled—JavaScript is an incredibly powerful and expressive object-oriented language that puts many design decisions right into your hands. In The Principles of Object-Oriented JavaScript, Nicholas C. Zakas thoroughly explores JavaScript's object-oriented nature, revealing the language's unique implementation of inheritance and other key characteristics. You'll learn: –The difference between primitive and reference values –What makes JavaScript functions so unique –The various ways to create objects –How to define your own constructors –How to work with and understand prototypes –Inheritance patterns for types and objects The Principles of Object-Oriented JavaScript will leave even experienced developers with a deeper understanding of JavaScript. Unlock the secrets behind how objects work in JavaScript so you can write clearer, more flexible, and more efficient code.

C++ was written to help professional C# developers learn modern C++ programming. The aim of this book is to leverage your existing C# knowledge in order to expand your skills. Whether you need to use C++ in an upcoming project, or simply want to learn a new language (or reacquaint yourself with it), this book will help you learn all of the fundamental pieces of C++ so you can begin writing your own C++ programs.This updated and expanded second edition of Book provides a user-friendly introduction to the subject, Taking a clear structural framework, it guides the reader through the subject's core elements. A flowing writing style combines with the use of illustrations and diagrams throughout the text to ensure the reader understands even the most complex of concepts. This succinct and enlightening overview is a required reading for all those interested in the subject .We hope you find this book useful in shaping your future career & Business.

Come il pensiero, anche il software deve essere libero. Nella società moderna, dove regna il consumismo e cresce la speculazione, il software libero rappresenta una nuova via per diventare liberi! La Libertà del software è un tema sinceramente rivoluzionario e intrigante, che spesso porta alla scoperta di nuove realtà e nuovi modi di intendere la cultura stessa in tutte le sue forme. Soffermarsi a discutere di sola etica sarebbe riduttivo; ecco che si inizia ad argomentare di principi di diritto e di come il diritto stesso sia capovolto e reinterpretato, una volta a favore del software libero (si tratta del Copyleft), altre volte no (i trattati internazionali sembrano voler frenare la diffusione ed i contributi del free software e dell'open source). La cultura libera conduce anche alla creazione di Onlus che si fanno portavoce della distribuzione digitale di testi ed altre opere d'ingegno liberamente e gratuitamente disponibili online. Gli esempi della Creative Commons e della Open Source Initiative sono i più calzanti, in quanto favoriscono la diffusione di una cultura informatica, e non solo, sempre più libera da vincoli commerciali ed aperta a chiunque voglia intingervi. Infine, si scopre come l'innovazione diventa Computer Crime e di come sia importante avere conoscenza di ciò che ci circonda, per non cadere in errori goffi e grossolani che spesso i Mass-media ci propinano. Si tratta, infatti, di discutere della comunità Hacker e di come spesso il termine sia erroneamente usato.

Chronicles the life of the computer programmer, known for the launch of the operating system GNU Project, from his childhood as a gifted student to his crusade for free software.

The book teaches students to model a scientific problem and write a computer program in C language to solve that problem. It introduces the basics of C language, and then describes and discusses algorithms commonly used in scientific applications (e.g. searching, graphs, statistics, equation solving, Monte Carlo methods etc.).

Geared to experienced C++ developers who may not be familiar with the more advanced features of the language, and therefore are not using it to its full capabilities Teaches programmers how to think in C++-that is, how to design effective solutions that maximize the power of the language The authors drill down into this notoriously complex language, explaining poorly understood elements of the C++ feature set as well as common pitfalls to avoid Contains several in-depth case studies with working code that's been tested on Windows, Linux, and Solaris platforms

Looks at the principles and clean code, includes case studies showcasing the practices of writing clean code, and contains a list of heuristics and "smells" accumulated from the process of writing clean code.

Master the secret tools every Python programmer needs to know Professional Python goes beyond the basics to teach beginner- and intermediate-level Python programmers the little-known tools and constructs that build concise, maintainable code. Design better architecture and write easy-to-understand code using highly adoptable techniques that result in more robust and efficient applications. Coverage includes Decorators, Context Managers, Magic Methods, Class Factories, Metaclasses, Regular Expressions, and more, including advanced methods for unit testing using asyncio and CLI tools. Each topic includes an explanation of the concept and a discussion on applications, followed by hands-on tutorials based on real-world scenarios. The "Python 3 first" approach covers multiple current versions, while ensuring long-term relevance. Python offers many tools and techniques for writing better code, but often confusing documentation leaves many programmers in the dark about how to use them. This book shines a light on these incredibly useful methods, giving you clear guidance toward building stronger applications. Learn advanced Python functions, classes, and libraries Utilize better development and testing tools Understand the "what," "when," "why," and "how" More than just theory or a recipe-style walk-through, this guide helps you learn — and understand — these little-known tools and techniques. You'll streamline your workflow while improving the quality of your output, producing more robust applications with cleaner code and stronger architecture. If you're ready to take your Python skills to the next level, Professional Python is the invaluable guide that will get you there.

This book provides the reader with a comprehensive overview of the new open source programming language Go (in its first stable and maintained release Go 1) from Google. The language is devised with Java / C#-like syntax so as to feel familiar to the bulk of programmers today, but Go code is much cleaner and simpler to read, thus increasing the productivity of developers. You will see how Go: simplifies programming with slices, maps, structs and interfaces incorporates functional programming makes error-handling easy and secure simplifies concurrent and parallel programming with goroutines and channels And you will learn how to: make use of Go's excellent standard library program Go the idiomatic way using patterns and best practices in over 225 working examples and 135 exercises This book focuses on the aspects that the reader needs to take part in the coming software revolution using Go.

C++. Guida essenziale per programmatoriA Tour of C++Addison-Wesley

Best-selling author, Walter Savitch, uses a conversational style to teach programmers problem solving and programming techniques with Java. Readers are introduced to object-oriented programming and important computer science concepts such as testing and debugging techniques, program style, inheritance, and exception handling. It includes thorough coverage of the Swing libraries and event driven programming. The Java coverage is a concise, accessible introduction that covers key language features. Thorough early coverage of objects is included, with an emphasis on applications over applets. The author includes a highly flexible format that allows readers to adapt coverage of topics to their preferred order. Although the book does cover such more advanced topics as inheritance, exception handling, and the Swing libraries, it starts from the beginning, and it teaches traditional, more basic techniques, such as algorithm design. The volume provides concise coverage of computers and Java objects, primitive types, strings, and interactive I/O, flow of control, defining classes and methods, arrays, inheritance, exception handling, streams and file I/O, recursion, window interfaces using swing objects, and applets and HTML. For Programmers.