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The Annotated C++ Reference Manual Addison-Wesley
Professional
Software -- Programming Languages.

ANNA A Language for Annotating Ada Programs

Reference Manual Springer Science & Business Media

This reference manual of ANNA is another volume addressed to the ADA community. ANNA is a language extension of ADA to include facilities for formally specifying the intended behavior of ADA programs. It is designed to meet a perceived need to

augment ADA with precise machine-processable annotations so that well established formal methods of specification and documentation can be applied to ADA programs. The current ANNA design includes annotations of all ADA constructs except tasking. Similar extensions for formal specification can be made to other Algol-like languages such as Pascal, PL/1, Concurrent Pascal, and Modula; essentially, these extensions would be subsets of ANNA. The design of ANNA was undertaken from the beginning with four principal considerations: 1. Constructing annotations should be easy for the ADA programmer and should depend as much as possible on notation and concepts of ADA. 2. ANNA should possess language features that are widely used in the specification and documentation of programs. 3. ANNA should provide a framework within which the various established theories of formally specifying programs may be applied to ADA. 4. Annotations should be equally well suited for different possible applications during the life cycle of a program. Such applications include not only testing, debugging and formal verification of a finished program, but also specification of program parts during the earlier stages of requirements analysis and program design.

The C++ Programming Language *Pearson Education*

Offers information on using the C++ programming language using the new C++11 standard, covering such topics as concurrency, facilities, standard libraries, and design techniques.

The Annotated VRML 2.0 Reference Manual *Addison-Wesley Professional*

Providing insights into VRML that could only be given by the language's designers, this is an essential reference for anyone seriously involved in building virtual worlds on the World Wide Web. The CD contains the book in HTML format as well as a Web page that will point readers to resources for VRML development.

The Design and Evolution of C++ *Addison-Wesley Professional*

CASL Reference Manual

The Complete Documentation of the Common Algebraic Specification Language *Springer Science & Business Media*

CASL, the Common Algebraic Specification Language, was designed by the members of CoFI, the Common Framework Initiative for algebraic specification and development, and is a general-purpose language for practical use in software development for specifying both requirements and design. CASL is already regarded as a de facto standard, and various sublanguages and extensions are available for specific tasks. This reference manual presents a detailed documentation of the CASL specification formalism. It reviews the main underlying concepts, and carefully summarizes the intended meaning of each construct of CASL. The book formally defines both the syntax and semantics of CASL, and presents a logic for reasoning about CASL specifications. Furthermore, extensive libraries of CASL specifications of basic data types are provided as well as a comprehensive annotated bibliography of CoFI publications. As a separate, complementary book LNCS 2900 presents a tutorial introduction to CASL, the CASL User Manual.

Model Rules of Professional Conduct *American Bar Association*

The Model Rules of Professional Conduct provides an up-to-date resource for information on legal ethics. Federal, state and local courts in all jurisdictions look to the Rules for guidance in solving lawyer malpractice cases, disciplinary actions, disqualification

issues, sanctions questions and much more. In this volume, black-letter Rules of Professional Conduct are followed by numbered Comments that explain each Rule's purpose and provide suggestions for its practical application. The Rules will help you identify proper conduct in a variety of given situations, review those instances where discretionary action is possible, and define the nature of the relationship between you and your clients, colleagues and the courts.

A Tour of C++ *Addison-Wesley*

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.

Online Services Reference Manual

GDB Pocket Reference *"O'Reilly Media, Inc."*

Many Linux and Unix developers are familiar with the GNU debugger (GDB), the invaluable open source tool for testing, fixing, and retesting software. And since GDB can be ported to Windows, Microsoft developers and others who use this platform can also take advantage of this amazing free software that allows you to see exactly what's going on inside of a program as it's executing. This new pocket guide gives you a convenient quick reference for using the debugger with several different programming languages, including C, C++, Java, Fortran and Assembly. The GNU debugger is the most useful tool during the testing phase of the software development cycle because it helps you catch bugs in the act. You can see what a program was doing at the moment it crashed, and then readily pinpoint and correct problem code. With the GDB Pocket Reference on hand, the process is quick and painless. The book covers the essentials of using GDB in a testing environment, including how to specify a target for debugging and how to make a program stop on specified conditions. This handy guide also provides details on using the debugger to examine the stack, source files and data to

find the cause of program failure-and then explains ways to use GDB to make quick changes to the program for further testing and debugging. The ability to spot a bug in real time with GDB can save you hours of frustration, and having a quick way to refer to GDB's essential functions is key to making the process work. Once you get your hands on the GDB Pocket Reference, you'll never let go!

The Unified Modeling Language Reference Manual *Addison-Wesley Professional*

"If you are a serious user of UML, there is no other book quite like this one. I have been involved with the UML specification process for some time, but I still found myself learning things while reading through this book-especially on the changes and new capabilities that have come with UML." -Ed Seidewitz, Chief Architect, IntelliData Technologies Corporation The latest version of the Unified Modeling Language-UML 2.0-has increased its capabilities as the standard notation for modeling software-intensive systems. Like most standards documents, however, the official UML specification is difficult to read and navigate. In addition, UML 2.0 is far more complex than previous versions, making a thorough reference book more essential than ever. In this significantly updated and expanded edition of the definitive reference to the standard, James Rumbaugh, Ivar Jacobson, and Grady Booch-the UML's creators-clearly and completely describe UML concepts, including major revisions to sequence diagrams, activity models, state machines, components, internal structure of classes and components, and profiles. Whether you are capturing requirements, developing software architectures, designing implementations, or trying to understand existing systems, this is the book for you. Highlights include: Alphabetical dictionary of articles covering every UML concept Integrated summary of UML concepts by diagram type Two-color diagrams with extensive annotations in blue Thorough coverage of both semantics and notation, separated in each article for easy reference Further explanations of concepts whose meaning or purpose is obscure in the original specifications Discussion sections offering usage advice and additional insight into tricky concepts Notation summary, with references to individual articles An enhanced online index available on the book's web site allowing readers to quickly and easily search the entire text for specific topics The result is an indispensable resource for anyone who needs to understand the inner workings of the industry standard modeling language.

C/C++ Programmer's Reference *McGraw-Hill Osborne Media*

Offers the syntax for keywords, operators, functions, and classes; covers the Standard Template Library and I/O system; provides programming tips; and discusses problem-solving in C/C++ environments.

Guidelines Manual

iPhone iOS4 Development Essentials - Xcode 4 Edition *eBookFrenzy*

ECOOP '91 European Conference on Object-Oriented Programming

Geneva, Switzerland, July 15-19, 1991. Proceedings *Springer Science & Business Media*

Object-oriented programming techniques have quickly gained widespread use and popularity. The proceedings of ECOOP '91 include papers discussing language design, specification, databases, concurrency, types, and software development.

Expert C Programming

Deep C Secrets *Prentice Hall Professional*
Software -- Programming Languages.

SPECC: Specification Language and Methodology *Springer Science & Business Media*

For the near future, the recent predictions and roadmaps of silicon semiconductor technology all agree that the number of transistors on a chip will keep growing exponentially according to Moore's Law, pushing technology towards the system-on-a-chip (SOC) era. However, we are increasingly experiencing a productivity gap where the chip complexity that can be handled by current design teams falls short of the possibilities offered by technological advances. Together with growing time-to-market pressures, this drives the need for innovative measures to increase design productivity by orders of magnitude. It is commonly agreed that the solutions for achieving such a leap in design productivity lie in a shift of the focus of the design process to higher levels of abstraction on the one hand and in the massive reuse of predesigned, complex system components (intellectual property, IP) on the other hand. In order to be successful, both concepts eventually require the adoption of new languages and methodologies for system design, backed-up by the availability of a corresponding set of system-level design automation tools. This book presents the SpecC system-level design language (SLDL) and the corresponding SpecC design methodology. The SpecC language is intended for specification and design of SOC's or embedded systems including software and hardware, whether using fixed platforms, integrating systems from different IP's, or synthesizing the system blocks from programming or hardware description languages. SpecC Specification Language and Methodology describes the SpecC methodology that leads designers from an executable specification to an RTL implementation through a well-defined sequence of steps. Each model is described and guidelines are given for generating these models from executable specifications. Finally, the SpecC methodology is demonstrated on an industrial-size example. The design community is now entering the system level of abstraction era and SpecC is the enabling element to achieve a paradigm shift in design culture needed for system/product design and manufacturing. SpecC Specification Language and Methodology will be of interest to researchers, designers, and managers dealing with system-level design, design flows and methodologies as well as students learning system specification, modeling and design.

The C++ Programming Language *Pearson Education India*

High-level Synthesis

Blue Book *Xlibris Corporation*

Are you an RTL or system designer that is currently using, moving, or planning to move to an HLS design environment? Finally, a comprehensive guide for designing hardware using C++ is here. Michael Fingeroff's High-Level Synthesis Blue Book presents the most effective C++ synthesis coding style for achieving high quality RTL. Master a totally new design methodology for coding increasingly complex designs! This book provides a step-by-step approach to using C++ as a hardware design language, including an introduction to the basics of HLS using concepts familiar to RTL designers. Each chapter provides easy-to-understand C++ examples, along with hardware and timing diagrams where appropriate. The book progresses from simple concepts such as sequential logic design to more

complicated topics such as memory architecture and hierarchical sub-system design. Later chapters bring together many of the earlier HLS design concepts through their application in simplified design examples. These examples illustrate the fundamental principles behind C++ hardware design, which will translate to much larger designs. Although this book focuses primarily on C and C++ to present the basics of C++ synthesis, all of the concepts are equally applicable to SystemC when describing the core algorithmic part of a design. On completion of this book, readers should be well on their way to becoming experts in high-level synthesis.

Reference Manual on Scientific Evidence

The Indigo Book *Lulu.com*

This public domain book is an open and compatible implementation of the Uniform System of Citation.

The Syntax of DRAGON: Evaluation and Recommendations

The School of Niklaus Wirth

The Art of Simplicity

Experimental Environments for Computer Vision and Image Processing *World Scientific*

To fully appreciate new methods developed in the area of machine vision it is necessary to have facilities which allow experimental verification of such methods. Experimental research is typically a very expensive task in terms of manpower, and consequently it is desirable to adopt standard facilities/methods which allow more efficient experimental investigations. In this volume a range of different experimental environments which facilitate construction and integration of machine vision systems is described. The environments presented cover areas such as robotics, research in individual machine vision methods, system integration, knowledge representation, and distributed computing. The set of environments covered include commercial systems, public domain software and laboratory prototype, showing the diversity of the problem of experimental research in machine vision and providing the reader with an overview of the area.

C++ FAQs

Frequently Asked Questions *Addison-Wesley*

The best quick-reference source for answers to everyday C++ programming problems, invaluable for all C++ programmers. Includes information on C++FAQ, one of the most-accessed Internet files, extensive examples, and cross-referencing. Question-and-answer format covers a wide range of topics.

Programming

Principles and Practice Using C++ *Addison-Wesley Professional*

The inventor of C++ gives perhaps the most important introduction to programming ever written.

Revival: The Handbook of Software for Engineers and Scientists (1995) *CRC Press*

The Handbook of Software for Engineers and Scientists is a single-volume, ready reference for the practicing engineer and scientist in industry, government, and academia as well as the

novice computer user. It provides the most up-to-date information in a variety of areas such as common platforms and operating systems, applications programs, networking, and many other problem-solving tools necessary to effectively use computers on a daily basis. Specific platforms and environments thoroughly discussed include MS-DOS®, Microsoft® Windows™, the Macintosh® and its various systems, UNIX™, DEC VAX™, IBM® mainframes, OS/2®, Windows™ NT, and NeXTSTEP™. Word processing, desktop publishing, spreadsheets, databases, integrated packages, computer presentation systems, groupware, and a number of useful utilities are also covered. Several extensive sections in the book are devoted to mathematical and statistical software. Information is provided on circuits and control simulation programs, finite element tools, and solid modeling tools.

C++ Toolkit for Engineers and Scientists *Springer Science & Business Media*

This concise guide covers the fundamental aspects of the numerical analysis, basing upon it the construction of its routines for solving nonlinear equations, linear and nonlinear systems of equations, and eigenvalue problems. Focusing on software development, this book emphasizes software tools, OOP techniques for handling vectors, polynomials, and matrices. Using actual examples to demonstrate reusable tools, the book enables readers to solve broad classes of software development and programming challenges. It adopts a balanced approach between OOP techniques and quick and dirty number crunching, and emphasizes the use of OOP features in implementing vector, polynomial and matrix algebra. As a practical reference, it will help developers and consultants setting up applications programs for electrical, electronic engineering and physical sciences who need to develop clean, efficient C++ programs in minimal time.

Effective C++

55 Specific Ways to Improve Your Programs and Designs *Pearson Education*

"Every C++ professional needs a copy of Effective C++. It is an absolute must-read for anyone thinking of doing serious C++ development. If you've never read Effective C++ and you think you know everything about C++, think again." — Steve Schirripa, Software Engineer, Google "C++ and the C++ community have grown up in the last fifteen years, and the third edition of Effective C++ reflects this. The clear and precise style of the book is evidence of Scott's deep insight and distinctive ability to impart knowledge." — Gerhard Kreuzer, Research and Development Engineer, Siemens AG The first two editions of Effective C++ were embraced by hundreds of thousands of programmers worldwide. The reason is clear: Scott Meyers' practical approach to C++ describes the rules of thumb used by the experts — the things they almost always do or almost always avoid doing — to produce clear, correct, efficient code. The book is organized around 55 specific guidelines, each of which describes a way to write better C++. Each is backed by concrete examples. For this third edition, more than half the content is new, including added chapters on managing resources and using templates. Topics from the second edition have been extensively revised to reflect modern design considerations, including exceptions, design patterns, and multithreading. Important features of Effective C++ include: Expert guidance on the design of effective classes, functions, templates, and inheritance hierarchies. Applications of new "TR1" standard library functionality, along with comparisons to existing standard library components. Insights into differences between C++ and other

languages (e.g., Java, C#, C) that help developers from those languages assimilate “the C++ way” of doing things.

An Introduction to Object-Oriented Programming in C++

With Applications in Computer Graphics *Springer Science & Business Media*

Why Another Book on c++ and why Programming and Graphics? Anyone who has browsed through the 'Computing' section of a bookshop (assuming it has one) will not need much convincing that there are a lot of C++ books out there. So why add yet another to the shelf! This book attempts to introduce you to the C++ language via computer graphics because the object-oriented programming features of C++ naturally lend themselves to graphics. Thus, this book is based around a central theme: computer graphics and the development of 'real' object-oriented tools for graphical modelling. This approach is adopted (as opposed to learning by small, unrelated, often hypothetical, examples) because I didn't want to introduce C++ as a collection of language features. While introducing the syntax and features of C++, it is just as important to demonstrate simultaneously the reason for such features and when to apply them - in other words, language and design are given equal priority. Also, a key objective in writing this book is to present you with a comprehensive introductory text on programming in the C++ language.

Life, a User's Manual *David R. Godine Publisher*

Represents an exploration of the relationship between imagination and reality as seen through the eyes of the dying Serge Valene, an inhabitant of a large Parisian apartment block.

AUUGN

Handbook of Object Technology *CRC Press*

The object oriented paradigm has become one of the dominant forces in the computing world. According to a recent survey, by the year 2000, more than 80% of development organizations are expected to use object technology as the basis for their distributed development strategies. Handbook of Object Technology encompasses the entire spectrum of disciplines and topics related to this rapidly expanding field - outlining emerging technologies, latest advances, current trends, new specifications, and ongoing research. The handbook divides into 13 sections, each containing chapters related to that specific discipline. Up-to-date, non-abstract information provides the reader with practical, useful knowledge - directly applicable to the understanding and improvement of the reader's job or the area of interest related to this technology. Handbook of Object Technology discusses: the processes, notation, and tools for classical OO methodologies as well as information on future methodologies prevalent and emerging OO languages standards and specifications frameworks and patterns databases metrics business objects intranets analysis/design tools client/server application development environments

Data Structures and Algorithms in C++ *Tata McGraw-Hill Education*

The C++ Standard Library

A Tutorial and Reference *Addison-Wesley*

The Best-Selling C++ Resource Now Updated for C++11 The C++ standard library provides a set of common classes and interfaces that greatly extend the core C++ language. The

library, however, is not self-explanatory. To make full use of its components—and to benefit from their power—you need a resource that does far more than list the classes and their functions. The C++ Standard Library: A Tutorial and Reference, Second Edition, describes this library as now incorporated into the new ANSI/ISO C++ language standard (C++11). The book provides comprehensive documentation of each library component, including an introduction to its purpose and design; clearly written explanations of complex concepts; the practical programming details needed for effective use; traps and pitfalls; the exact signature and definition of the most important classes and functions; and numerous examples of working code. The book focuses in particular on the Standard Template Library (STL), examining containers, iterators, function objects, and STL algorithms. The book covers all the new C++11 library components, including Concurrency Fractional arithmetic Clocks and timers Tuples New STL containers New STL algorithms New smart pointers New locale facets Random numbers and distributions Type traits and utilities Regular expressions The book also examines the new C++ programming style and its effect on the standard library, including lambdas, range-based for loops, move semantics, and variadic templates. An accompanying Web site, including source code, can be found at www.cppstdlib.com.

An Introduction to Numerical Methods in C++ *Oxford University Press on Demand*

This text on numerical computing, presented through the medium of the C++ language, is designed for students of science and engineering who are seriously studying numerical methods for the first time. It should also be of interest to computing scientists who wish to see how C++ can be used in earnest for numerical computation. The mathematical prerequisites are those which an undergraduate student of science or engineering might be expected to possess after the earlier years of study: elementary calculus, linear algebra, and differential equations. In computing, a good knowledge, such as Basic, Fortran, or Pascal, is assumed, while a working knowledge of C would be an advantage. However, no prior knowledge of C++ is assumed. The language is developed in step with its numerical applications. Features of the language not used here are ignored. What remains, however, is a powerful framework for numerical computations and more than enough for an introductory text.

Handbook of Programming Languages: Object-oriented programming languages *MacMillan Technical Publishing*

The "Handbook of Programming Languages" series provides a complete reference on the fundamentals of programming languages and methodologies. Volume 2 covers four important Imperative Languages.

Languages for Digital Embedded Systems *Springer Science & Business Media*

Edwards in is the private sector, but a colleague has used this work for a one-semester graduate and senior-undergraduate course in embedded systems, and each chapter ends with a set of simple exercises similar to those used there. Readers are assumed to be familiar with one of the hardware or software languages, such as C or Verilog. Edwards presents and contrasts languages commonly used to describe the subsystems in a cellular phone and similar digital embedded systems. They range from hardware modeling to digital signal processing, but he limits the discussion to languages that manipulate discrete, digital values, recognizing that designing real systems sometimes

involves coloring outside that line but not very often. Annotation copyrighted by Book News, Inc., Portland, OR

Introduction to Software Engineering *CRC Press*

Practical Guidance on the Efficient Development of High-Quality Software Introduction to Software Engineering, Second Edition equips students with the fundamentals to prepare them for satisfying careers as software engineers regardless of future changes in the field, even if the changes are unpredictable or disruptive in nature. Retaining the same organization as its predecessor, this second edition adds considerable material on open source and agile development models. The text helps students understand software development techniques and processes at a reasonably sophisticated level. Students acquire practical experience through team software projects. Throughout much of the book, a relatively large project is used to teach about the requirements, design, and coding of software. In addition, a continuing case study of an agile software development project offers a complete picture of how a successful agile project can work. The book covers each major phase of the software development life cycle, from developing software requirements to software maintenance. It also discusses project management and explains how to read software engineering literature. Three appendices describe software patents, command-line arguments, and flowcharts.

ECOOP '93 - Object-Oriented Programming

7th European Conference, Kaiserslautern, Germany, July 26-30, 1993. Proceedings *Springer*

It is now more than twenty-five years since object-oriented programming was “invented” (actually, more than thirty years since work on Simula started), but, by all accounts, it would appear as if object-oriented technology has only been “discovered” in the past ten years! When the first European Conference on Object-Oriented Programming was held in Paris in 1987, I think it was generally assumed that Object-Oriented Programming, like Structured Programming, would quickly enter the vernacular, and that a conference on the subject would rapidly become superfluous. On the contrary, the range and impact of object-oriented approaches and methods continues to expand, and, in spite of the inevitable oversell and hype, object-oriented technology has reached a level of scientific maturity that few could have foreseen ten years ago. Object-oriented technology also cuts across scientific cultural boundaries like perhaps no other field of computer science, as object-oriented concepts can be applied to virtually all the other areas and affect virtually all aspects of the software life cycle. (So, in retrospect, emphasizing just Programming in the name of the conference was perhaps somewhat short-sighted, but at least the acronym is pronounceable and easy to remember!) This year’s ECOOP attracted 146 submissions from around the world - making the selection process even tougher than usual. The selected papers range in topic from programming language and database issues to analysis and design and reuse, and from experience reports to theoretical contributions.