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Programming Languages and Operational Semantics Concepts of Programming Languages

Essential concepts of programming language design and implementation are explained and illustrated in the context of the object-oriented programming language (OOPL) paradigm. Written with the upper-level undergraduate student in mind, the text begins with an introductory chapter that summarizes the essential features of an OOPL, then widens the discussion to categorize the other major paradigms, introduce the important issues, and define the essential terms. After a brief second chapter on event-driven programming (EDP), subsequent chapters are built around case studies in each of the languages Smalltalk, C++, Java, C#, and Python. Included in each case study is a discussion of the accompanying libraries, including the essential container classes. For each language, one important event-driven library is singled out and studied. Sufficient information is given so that students can complete an event-driven project in any of the given languages. After completing the course the student should have a solid set of skills in each language the instructor chooses to cover, a comprehensive overview of how these languages relate to each other, and an appreciation of the major issues in OOPL design. Key Features: •Provides essential coverage of Smalltalk origins, syntax, and semantics, a valuable asset for students wanting to understand the hybrid Objective C language •Provides detailed case studies of Smalltalk, Java, C++, C#, and Python and features a side-by-side development of the Java and C++ languages--highlighting their similarities and differences •Sets the discussion in a historical framework, tracing the roots of the OOPLs back to Simula 67. •Provides broad-based coverage of all languages, imparting essential skills as well as an appreciation for each language's design philosophy •Includes chapter summary, review questions, chapter exercises, an appendix with event-driven projects, and instructor resources

Introduction to Programming Languages Addison Wesley Publishing Company

We've known about algorithms for millennia, but we've only been writing computer programs for a few decades. A big difference between the Euclidean or Eratosthenes age and ours is that since the middle of the twentieth century, we express the algorithms we conceive using formal languages: programming languages. Computer scientists are not the only ones who use formal languages. - tometrists, for example, prescribe eyeglasses using very technical expressions, ? ? such as "OD: -1.25 (-0.50) 180 OS: -1.00 (-0.25) 180 ", in which the parent- ses are essential. Many such formal languages have been created throughout history: musical notation, algebraic notation, etc. In particular, such languages have long been used to control machines, such as looms and cathedral chimes. However, until the appearance of programming languages, those languages were only of limited importance: they were restricted to specialised ?elds with only a few specialists and written texts of those languages remained relatively scarce. This situation has changed with the appearance of programming l- guages, which have a wider range of applications than the prescription of e- glassesorthecontrolofaloom,areusedbylargecommunities,andhaveallowed the creation of programs of many hundreds of thousands of lines.

Concepts Of Programming Languages CRC Press

This book provides an introduction to the essential concepts in programming languages, using operational semantics techniques. It presents alternative programming language paradigms and gives an in-depth analysis of the most significant constructs in modern imperative, functional and logic programming languages. The book is designed to accompany lectures on programming language design for undergraduate students. Each chapter includes exercises which provide the opportunity to apply the concepts and techniques presented.

Foundations of Programming Languages A. B. Lawal

This book - the first of two volumes - explores the syntactical constructs of the most common programming languages, and sheds a mathematical light on their semantics, while also providing an accurate presentation of the material aspects that interfere with coding. Concepts and Semantics of Programming Languages 1 is dedicated to functional and imperative features. Included is the formal study of the semantics of typing and execution; their acquisition is facilitated by implementation into OCaml and Python, as well as by worked examples. Data representation is considered in detail: endianness, pointers, memory management, union types and pattern-matching, etc., with examples in OCaml, C and C++. The second volume introduces a specific model for studying modular and object features and uses this model to present Ada and OCaml modules, and subsequently Java,

C++, OCaml and Python classes and objects. This book is intended not only for computer science students and teachers but also seasoned programmers, who will find a guide to reading reference manuals and the foundations of program verification.

Concepts in Programming Languages Springer Science & Business Media

A comprehensive undergraduate textbook covering both theory and practical design issues, with an emphasis on object-oriented languages.

History of Programming Languages Prentice Hall

Introduces students to the fundamental concepts of computer programming languages and provides them with the tools necessary to evaluate contemporary and future languages. An in-depth discussion of programming language structures, such as syntax and lexical and syntactic analysis, also prepares students to study compiler design. The Eleventh Edition maintains an up-to-date discussion on the topic with the removal of outdated languages such as Ada and Fortran. The addition of relevant new topics and examples such as reflection and exception handling in Python and Ruby add to the currency of the text. Through a critical analysis of design issues of various program languages, Concepts of Programming Languages teaches students the essential differences between computing with specific languages. Robert W. Sebesta is Associate Professor Emeritus, Computer Science Office, UCCS, University of Colorado at Colorado Springs. -- Publisher's note.

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Essentials of Programming Languages Mercury Learning and Information

For courses in computer programming. Evaluating the Fundamentals of Computer Programming Languages Concepts of Computer Programming Languages introduces students to the fundamental concepts of computer programming languages and provides them with the tools necessary to evaluate contemporary and future languages. An in-depth discussion of programming language structures, such as syntax and lexical and syntactic analysis, also prepares students to study compiler design. The 11th Edition maintains an up-to-date discussion on the topic with the removal of outdated languages such as Ada and Fortran. The addition of relevant new topics and examples such as reflection and exception handling in Python and Ruby add to the currency of the text. Through a critical analysis of design issues of various program languages, Concepts of Computer Programming Languages teaches students the essential differences between computing with specific languages. With eBooks you can: search for key concepts, words and phrases make highlights and notes as you study share your notes with friends eBooks are downloaded to your computer and accessible either offline through the Bookshelf (available as a free download), available online and also via the iPad and Android apps. Upon purchase, you'll gain instant access to this eBook. Time limit The eBooks products do not have an expiry date. You will continue to access your digital ebook products whilst you have your Bookshelf installed.

Concepts and Semantics of Programming Languages 1 MIT Press

Introduces the features of the C programming language, discusses data types, variables, operators, control flow, functions, pointers, arrays, and structures, and looks at the UNIX system interface

Computer Programming Fundamentals Pearson Education India

A textbook that uses a hands-on approach to teach principles of programming languages, with Java as the implementation language. This introductory textbook uses a hands-on approach to teach the principles of programming languages. Using Java as the implementation language, Rajan covers a range of emerging topics, including concurrency, Big Data, and event-driven programming. Students will learn to design, implement, analyze, and understand both domain-specific and general-purpose programming languages. Develops basic concepts in languages, including means of computation, means of combination, and means of abstraction. Examines imperative features such as references, concurrency features such as fork, and reactive features such as event handling. Covers language features that express differing perspectives of thinking about computation, including those of logic programming and flow-based programming. Presumes Java programming experience and understanding of object-oriented classes, inheritance, polymorphism, and static classes. Each chapter corresponds with a working implementation of a small programming language allowing students to follow along.

Programming Language Design Concepts Springer

This textbook offers an understanding of the essential concepts of programming languages. The text uses interpreters, written in Scheme, to express the semantics of many essential language elements in a way that is both clear and directly executable.

Programming Languages Pearson

Programming Language Explorations is a tour of several modern programming languages in use today. The book teaches fundamental language concepts using a language-by-language approach. As each language is presented, the authors introduce new concepts as they appear, and revisit familiar ones, comparing their implementation with those from languages seen in prior chapters. The goal is to present and explain common theoretical concepts of language design and usage, illustrated in the context of practical language overviews. Twelve languages have been carefully chosen to illustrate a wide range of programming styles and paradigms. The book introduces each language with a common trio of example programs, and continues with a brief tour of its basic elements, type system, functional forms, scoping rules, concurrency patterns, and sometimes, metaprogramming facilities. Each language chapter ends with a summary, pointers to open source projects, references to materials for further study, and a collection of exercises, designed as further explorations. Following the twelve featured language chapters, the authors provide a brief tour of over two dozen additional languages, and a summary chapter bringing together many of the questions explored throughout the text. Targeted to both professionals and advanced college undergraduates looking to expand the range of languages and programming patterns they can apply in their work and studies, the book pays attention to modern programming practice, covers cutting-edge languages and patterns, and provides many runnable examples, all of which can be found in an online GitHub repository. The exploration style places this book between a tutorial and a reference, with a focus on the concepts and practices underlying programming language design and usage. Instructors looking for material to supplement a programming languages or software engineering course may find the approach unconventional, but hopefully, a lot more fun.

Object-Oriented Programming Languages: Interpretation No Starch Press

This comprehensive examination of the main approaches to object-oriented language explains key features of the languages in use today. Class-based, prototypes and Actor languages are all examined and compared in terms of their semantic concepts. This book provides a unique overview of the main approaches to object-oriented languages. Exercises of varying length, some of which can be extended into mini-projects are included at the end of each chapter. This book can be used as part of courses on Comparative Programming Languages or Programming Language Semantics at Second or Third Year Undergraduate Level. Some understanding of programming language concepts is required.

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Fundamentals of Programming Languages Cambridge University Press

The charm of functional languages is illustrated by programs in Standard ML and the Scheme dialect of Lisp. Logic programming is introduced using Prolog.

Programming Language Concepts Springer

This book looks the variety of modern programming languages and uses them to illustrate the following major programming paradigms: imperative, object oriented, functional and logic languages, and languages for parallel and distributed systems.

Programming Language Concepts CRC Press

You're about to lay your hands on my most proudly computer programming fundamental course. This is where to begin if you've never written a line of code in your life or even if you have, and want to review the basics. No matter what programming language you're most interested in, even if you're not completely sure about that, this course will make learning that language easier. We'll do this by starting with the most fundamental critical questions: How do you actually write a computer program and get the computer to understand it? We'll jump into the syntax, the rules of programming languages and see many different examples to get the big picture of how we need to think about data and control the way our programs flow. We'll even cover complex topics like recursion and data types. We will finish by exploring things that make real world programming easier, from libraries and frameworks to SDKs and APIs. But you won't find a lot of bullet points in this book. This is a highly visual course, and by the end of it, you'll understand much more about the process of programming and how to move forward with writing any kind of application. But unlike most courses, this one does not require prior knowledge of any one programming language, operating system or application. There is nothing to download, nothing to install. So just give me your attention as you go through the course. Finally, you will know how to choose the right programming language for YOU. There are so many Programming languages out there these days but in this book I show you how to choose the language that meets your specific needs, so that you can save time and energy. With my honest advice, you can not make a wrong choice.

Principles of Programming Languages Springer

Software -- Programming Techniques.

PROGRAMMING LANGUAGE CONCEPTS, 3RD ED "O'Reilly Media, Inc."

"... I always worked with programming languages because it seemed to me that until you could understand those, you really couldn't understand computers. Understanding them doesn't really mean only being able to use them. A lot of people can use them without understanding them." Christopher Strachey The development of programming languages is one of the finest intellectual achievements of the new discipline called Computer Science. And yet, there is no other subject that I know of, that has such emotionalism and mystique associated with it. Thus my attempt to write about this highly charged subject is taken with a good deal of caution. Nevertheless, in my role as Professor I have felt the need for a modern

treatment of this subject. Traditional books on programming languages are like abbreviated language manuals, but this book takes a fundamentally different point of view. I believe that the best possible way to study and understand today's programming languages is by focusing on a few essential concepts. These concepts form the outline for this book and include such topics as variables, expressions, statements, typing, scope, procedures, data types, exception handling and concurrency. By understanding what these concepts are and how they are realized in different programming languages, one arrives at a level of comprehension far greater than one gets by writing some programs in a vi vB Preface few languages. Moreover, knowledge of these concepts provides a framework for understanding future language designs.

Concepts of Programming Languages -- Print Offer Addison-Wesley

This clearly written textbook introduces the reader to the three styles of programming, examining object-oriented/imperative, functional, and logic programming. The focus of the text moves from highly prescriptive languages to very descriptive languages, demonstrating the many and varied ways in which we can think about programming. Designed for interactive learning both inside and outside of the classroom, each programming paradigm is highlighted through the implementation of a non-trivial programming language, demonstrating when each language may be appropriate for a given problem. Features: includes review questions and solved practice exercises, with supplementary code and support files available from an associated website; provides the foundations for understanding how the syntax of a language is formally defined by a grammar; examines assembly language programming using CoCo; introduces C++, Standard ML, and Prolog; describes the development of a type inference system for the language Small.

CONCLUSION

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- For me this was an easy read. Darvas seems to identify most of the mistakes I've made in my investing lifetime, wish I had read this 20 years ago. Tough part of following his concepts are finding which stocks to watch. Worth the time.