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Concepts of Programming Languages, Global Edition by Robert W. Sebesta English | 2016 | ISBN: 1292100559 | 800 Pages | PDF | 6.48 MB

KEY MESSAGE: Now in the Eighth Edition, Concepts of Programming Languages continues to be the market leader, introducing readers to the main constructs of contemporary programming languages and providing the tools necessary to critically evaluate existing and future programming languages. By presenting design issues for various language constructs, examining the design choices for these constructs in some of the most common languages, and critically comparing the design alternatives, this book gives readers a solid foundation for understanding the fundamental concepts of programming languages. Preliminaries; Evolution of the Major Programming Languages; Describing Syntax and Semantics; Lexical and Syntax Analysis; Names, Binding, Type Checking, and Scopes; Data Types; Expressions and Assignment Statements; Statement-Level Control Structure; Subprograms; Implementing Subprograms; Abstract Data Types; Support for Object-Oriented Programming; Concurrency; Exception Handling and Event Handling; Functional Programming Languages; Logic Programming Languages. For all readers interested in the main constructs of contemporary programming languages.

This book uses a functional programming language (F#) as a metalanguage to present all concepts and examples, and thus has an operational flavour, enabling practical experiments and exercises. It includes basic concepts such as abstract syntax, interpretation, stack machines, compilation, type checking, garbage collection, and real machine code. Also included are more advanced topics on polymorphic types, type inference using unification, co- and contravariant types, continuations, and backwards code generation with on-the-fly peephole optimization. This second edition includes two new chapters. One describes compilation and type checking of a full functional language, tying together the previous chapters. The other describes how to compile a C subset to real (x86) hardware, as a smooth extension of the previously presented compilers.The examples present several interpreters and compilers for toy languages, including compilers for a small but usable subset of C, abstract machines, a garbage collector, and ML-style polymorphic type inference. Each chapter has exercises. Programming Language Concepts covers practical construction of lexers and parsers, but not regular expressions, automata and grammars, which are well covered already. It discusses the design and technology of Java and C# to strengthen students' understanding of these widely used languages.

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.

KEY BENEFIT: A comprehensive introduction to the tools and skills required for both client- and server-side programming, that teaches how to develop platform-independent sites using the most current Web development technology. **KEY TOPICS:** Internet introduction; Web Browsers and Servers; URL; MIME; HTTP; Web Programmer's Toolbox; HTML and XHTML; CSS; JavaScript(TM); XML and XLST; Applets; Flash; Perl(TM)/CGI; Java Web Programming; PHP; ASP.NET Using C# and Ajax; Visual Studio; Database Access through the Web; Ruby; Rails 2.0; Ajax. **MARKET:** An ideal reference for Web programming professionals.

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A text for a comparative language course (as well as for practicing computer programmers), considering the principal programming language concepts and showing how they are dealt with in traditional imperative languages, such as Pascal, C, and Ada, in functional languages such as ML, in logic languages like PROLOG, in purely object-oriented language.

'Programming The World Wide Web', written by bestselling author Robert Sebesta, provides a comprehensive introduction to the programming tools and skills required for building and maintaining server sites on the Web.

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