Practical Common Lisp

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lisp is often thought of as an academic language but it need not be this is the first book that introduces lisp as a language for the real world practical common lisp presents a thorough introduction to common lisp providing you with an overall understanding of the language features and how they work over a third of the book is devoted to practical examples such as the core of a spam filter and a web application for browsing mp3s and streaming them via the shoutcast protocol to any standard mp3 client software e g itunes xmms or winamp in other practical chapters author peter seibel demonstrates how to build a simple but flexible in memory database how to parse binary files and how to build a unit test framework in 26 lines of code

summary get programming with haskell leads you through short lessons examples and exercises designed to make haskell your own it has crystal clear illustrations and guided practice you will write and test dozens of interesting programs and dive into custom haskell modules you will gain a new perspective on programming plus the practical ability to use haskell in the everyday world the 80 iq points not guaranteed purchase of the print book includes a free ebook in pdf kindle and epub formats from manning publications about the technology programming languages often differ only around the edges a few keywords libraries or platform choices haskell gives you an entirely new point of view to the software pioneer alan kay a change in perspective can be worth 80 iq points and haskellers agree on the dramatic benefits of thinking the haskell way thinking functionally with type safety mathematical certainty and more in this hands on book that s exactly what you ll learn to do what s inside thinking in haskell functional programming basics programming in types real world applications for haskell about the reader written for readers who know one or more programming languages table of contents lesson 1 getting started with haskell unit 1 foundations of functional programming lesson 2 functions and functional programming lesson 3 lambda functions and lexical scope lesson 4 first class functions lesson 5 closures and partial application lesson 6 lists lesson 7 rules for recursion and pattern matching lesson

8 writing recursive functions lesson 9 higher order functions lesson 10 capstone functional object oriented programming with robots unit 2 introducing types lesson 11 type basics lesson 12 creating your own types lesson 13 type classes lesson 14 using type classes lesson 15 capstone secret messages unit 3 programming in types lesson 16 creating types with and and or lesson 17 design by composition semigroups and monoids lesson 18 parameterized types lesson 19 the maybe type dealing with missing values lesson 20 capstone time series unit 4 io in haskell lesson 21 hello world introducing io types lesson 22 interacting with the command line and lazy i o lesson 23 working with text and unicode lesson 24 working with files lesson 25 working with binary data lesson 26 capstone processing binary files and book data unit 5 working with type in a context lesson 27 the functor type class lesson 28 a peek at the applicative type class using functions in a context lesson 29 lists as context a deeper look at the applicative type class lesson 30 introducing the monad type class lesson 31 making monads easier with donotation lesson 32 the list monad and list comprehensions lesson 33 capstone sql like queries in haskell unit 6 organizing code and building projects lesson 34 organizing haskell code with modules lesson 35 building projects with stack lesson 36 property testing with quickcheck lesson 37 capstone building a prime number library unit 7 practical haskell lesson 38 errors in haskell and the either type lesson 39 making http requests in haskell lesson 40 working with json data by using aeson lesson 41 using databases in haskell lesson 42 efficient stateful arrays in haskell afterword what s next appendix sample answers to exercise

published in honour of the 70th birthday of yoh han pao george s dively dis tinguished professor of engineering at case western reserve university cleveland ohio this festschrift embraces a remarkably diverse set of topics drawing from the fields of pattern recognition engineering artificial intelligence and artificial neural systems it is a fitting testament to the extraordinary breadth of his professional in terests both in foundational research into the new technology of intelligent systems and ill the application of that evolving technology to the solution of hard engineering problems in common with many scientists who build their reputations in

one field before devoting their considerable energies and talents to another one by 1972 the year in which i met him for the first time yoh han had made significant contributions to laser technology in particular to the development of the highly accurate and stable lasers required for holographic recording purposes in conventional holography the information stored in a hologram produces a virtual image of the object charac terised by it however yoh han became fascinated by the possiblity of driving the process hackwards of using the hologram as an associative memory device enabling previously stored information to be retrieved on the basis of partial cues it was this burgeoning interest which shaped his career for more than twenty years just prior to 1972 my colleagues professor christopher longuet higgins and dr

the third edition of this bestseller examines the principles of artificial intelligence and their application to engineering and science as well as techniques for developing intelligent systems to solve practical problems covering the full spectrum of intelligent systems techniques it incorporates knowledge based systems computational intellige

this volume constitutes the proceedings of the 10th international conference on artificial intelligence and soft computing icaisc 2010 held in zakopane poland in june 13 17 2010 the articles are organized in topical sections on fuzzy systems and their applications data mining classification and forecasting image and speech analysis bioinformatics and medical applications volume 6113 together with neural networks and their applications evolutionary algorithms and their applications agent system robotics and control various problems aof artificial intelligence volume 6114

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find solutions to problems and answers to questions you are likely to encounter when writing real world applications in common lisp this book covers areas as diverse as web programming databases graphical user interfaces integration with other programming languages multi threading and mobile devices as well as debugging techniques and optimization to name just a few written by an author who has used common lisp in many successful commercial projects over more than a decade common lisp recipes is also the first common lisp book to tackle such advanced topics as environment access logical pathnames gray streams delivery of executables pretty printing setf expansions or changing the syntax of common lisp the book is organized around specific problems or questions each followed by ready to use example solutions and clear explanations of the concepts involved plus pointers to alternatives and more information each recipe can be read independently of the others and thus the book will earn a special place on your bookshelf as a reference work you always want to have within reach common lisp recipes is aimed at programmers who are already familiar with common lisp to a certain extent but do not yet have the experience you typically only get from years of hacking in a specific computer language it is written in a style that mixes hands on no frills pragmatism with precise information and prudent mentorship if you feel attracted to common lisp s mix of breathtaking features and down to earth utilitarianism you ll also like this book

over my last couple of decades of hopping through different programming languages and platforms and trying to use them to create something for myself i finally revisited lisp in its purest form if i look back the form of lisp i have been the most familiar with is elisp but all that i create with it only stays within emacs and though that is mostly within where i spend my time on computers being able to take lisp outside of emacs opened up a whole new dimension for me

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what if your lisp programs could evolve at runtime adapting to new requirements without a single reboot object oriented lisp programming with clos introduces the common lisp object system as the ultimate toolkit for building modular adaptive software whether you re a seasoned lisp hacker or transitioning from other oop languages this book shows you how to leverage clos s powerful features from basic class definitions and multiple dispatch to advanced metaobject protocols to write cleaner more maintainable code you ll learn how to structure applications around behavior rather than data layer cross cutting concerns gracefully and redefine system behavior on the fly readers gain practical skills for real world projects in ai simulation plugin architectures and beyond what sets this book apart you won t just read theory you ll follow a clear roadmap through twelve hands on chapters each packed with code you can run in your repl immediately understanding the foundations of clos origins and principles that distinguish clos from other oop systems classes instances and slots crafting robust class hierarchies and slot options working with generic functions multiple dispatch and behavior driven design defining and using methods parameter specialization dynamic redefinition and method combinations multiple inheritance and class precedence combining mixins safely with a predictable precedence list multiple dispatch in practice real world multi argument methods for simulation and messaging method combinations and cooperative behavior layering before after and around methods for logging transactions and more metaobject protocol fundamentals reflective tools to inspect and customize your object system building adaptive systems with mop custom metaclasses slot behavior and self extending frameworks integrating clos into modern lisp applications blending functional procedural and object paradigms in ai and knowledge systems debugging introspection and optimization repl driven troubleshooting and performance tuning real world clos design patterns observer strategy plugin architectures and hierarchical

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this book discusses strategies and tactics for creating robust production applications it addresses those general principles for success that will not become outdated as new products are released and application areas expand strategies and guidelines are emphasized rather than extensive documentation of existing implementations the discussion includes a broad analysis of leading and emergent shell tools tool sets environments and symbolic programming languages within the context of examining generic expert system development tool features

volume 1

this volume provides a foundation for understanding the fundamentals of biomedical informatics which deals with the storage retrieval and use of biomedical data for biological problem solving and medical decision making it covers the three main biomedical domains of basic biology clinical medicine and public health

this volume contains the papers presented at the 10th international conference on automated deduction cade 10 cade is the major forum at which research on all aspects of automated deduction is presented although automated deduction research is also presented at more general artificial intelligence conferences the cade conferences have no peer in the concentration and quality of their contributions to this topic the papers included range from theory to implementation and experimentation from propositional

to higher order calculi and nonclassical logics they refine and use a wealth of methods including resolution paramodulation rewriting completion unification and induction and they work with a variety of applications including program verification logic programming deductive databases and theorem proving in many domains the volume also contains abstracts of 20 implementations of automated deduction systems the authors of about half the papers are from the united states many are from western europe and many too are from the rest of the world the proceedings of the 5th 6th 7th 8th and 9th cade conferences are published as volumes 87 138 170 230 310 in the series lecture notes in computer science publisher s website

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