

The
Pragmatic
Programmers

Programming Erlang

Software for a
Concurrent World



Joe Armstrong

Programming Erlang Software For A Concurrent World

Jamis Buck



Programming Erlang Software For A Concurrent World:

Programming Erlang Joe Armstrong, 2013-10-29 A multi user game web site cloud application or networked database can have thousands of users all interacting at the same time You need a powerful industrial strength tool to handle the really hard problems inherent in parallel concurrent environments You need Erlang In this second edition of the bestselling Programming Erlang you ll learn how to write parallel programs that scale effortlessly on multicore systems Using Erlang you ll be surprised at how easy it becomes to deal with parallel problems and how much faster and more efficiently your programs run That s because Erlang uses sets of parallel processes not a single sequential process as found in most programming languages Joe Armstrong creator of Erlang introduces this powerful language in small steps giving you a complete overview of Erlang and how to use it in common scenarios You ll start with sequential programming move to parallel programming and handling errors in parallel programs and learn to work confidently with distributed programming and the standard Erlang Open Telecom Platform OTP frameworks You need no previous knowledge of functional or parallel programming The chapters are packed with hands on real world tutorial examples and insider tips and advice and finish with exercises for both beginning and advanced users The second edition has been extensively rewritten New to this edition are seven chapters covering the latest Erlang features maps the type system and the Dialyzer WebSockets programming idioms and a new stand alone execution environment You ll write programs that dynamically detect and correct errors and that can be upgraded without stopping the system There s also coverage of rebar the de facto Erlang build system and information on how to share and use Erlang projects on github illustrated with examples from cowboy and bitcask Erlang will change your view of the world and of how you program What You Need The Erlang OTP system Download it from erlang.org

Concurrent Programming in ERLANG Joe Armstrong, 1996 This bok employs a tutorial approach to guide the reader through the programming of real time and distributed fault tolerant systems Written by experts in the field this practically oriented bok shows how the use of ERLANG results in modular systems which are easy to specify design and test

Practical Aspects of Declarative Languages Ricardo Rocha, John Launchbury, 2011-01-11 This book constitutes the refereed proceedings of the 13th International Symposium on Practical Aspects of Declarative Languages PADL 2011 held in Austin TX USA in January 2011 co located with POPL 2011 the Symposium on Principles of Programming Languages The 17 revised full papers presented together with one application paper were carefully reviewed and selected from 40 submissions The volume features a variety of contributions ranging from message passing and mobile networks concurrent and parallel programming event processing and reactive programming profiling and portability in Prolog constraint programming grammar combinators belief set merging and work on new language extensions and tools **Mazes for Programmers** Jamis Buck, 2015-07-15 Unlock the secrets to creating random mazes Whether you re a game developer an algorithm connoisseur or simply in search of a new puzzle you re about to level up Learn algorithms to randomly generate mazes in a

variety of shapes sizes and dimensions Bend them into Moebius strips fold them into cubes and wrap them around spheres Stretch them into other dimensions squeeze them into arbitrary outlines and tile them in a dizzying variety of ways From twelve little algorithms you ll discover a vast reservoir of ideas and inspiration From video games to movies mazes are ubiquitous Explore a dozen algorithms for generating these puzzles randomly from Binary Tree to Eller s each copiously illustrated and accompanied by working implementations in Ruby You ll learn their pros and cons and how to choose the right one for the job You ll start by learning six maze algorithms and transition from making mazes on paper to writing programs that generate and draw them You ll be introduced to Dijkstra s algorithm and see how it can help solve analyze and visualize mazes Part 2 shows you how to constrain your mazes to different shapes and outlines such as text circles hex and triangle grids and more You ll learn techniques for culling dead ends and for making your passages weave over and under each other Part 3 looks at six more algorithms taking it all to the next level You ll learn how to build your mazes in multiple dimensions and even on curved surfaces Through it all you ll discover yourself brimming with ideas the best medicine for programmer s block burn out and the grayest of days By the time you re done you ll be energized and full of maze related possibilities What You Need The example code requires version 2 of the Ruby programming language Some examples depend on the ChunkyPNG library to generate PNG images and one chapter uses POV Ray version 3 7 to render 3D graphics

Parallel Computing: On the Road to Exascale Gerhard R. Joubert,Hugh Leather,Mark Parsons,Frans Peters,2016-04-15 As predicted by Gordon E Moore in 1965 the performance of computer processors increased at an exponential rate Nevertheless the increases in computing speeds of single processor machines were eventually curtailed by physical constraints This led to the development of parallel computing and whilst progress has been made in this field the complexities of parallel algorithm design the deficiencies of the available software development tools and the complexity of scheduling tasks over thousands and even millions of processing nodes represent a major challenge to the construction and use of more powerful parallel systems This book presents the proceedings of the biennial International Conference on Parallel Computing ParCo2015 held in Edinburgh Scotland in September 2015 Topics covered include computer architecture and performance programming models and methods as well as applications The book also includes two invited talks and a number of mini symposia Exascale computing holds enormous promise in terms of increasing scientific knowledge acquisition and thus contributing to the future well being and prosperity of mankind A number of innovative approaches to the development and use of future high performance and high throughput systems are to be found in this book which will be of interest to all those whose work involves the handling and processing of large amounts of data *Dart 1 for Everyone* Chris Strom,2014-11-15 Psst You re not stuck with JavaScript anymore Google s Dart language makes programming for the Web simpler faster and more powerful With version 1 0 in 2013 and an ECMA standard in 2014 Dart is ready to radically change web development for the better And Dart 1 for Everyone has got you covered Completely updated for Dart 1 and the ECMA

standard with new sections on new Dart features like method cascades event streams and class constructor syntax this book wastes no time in immersing you in the finer points of this powerful and surprisingly beautiful language Dart has changed significantly since the first printing of this book and Dart 1 for Everyone has kept up Every chapter has been revised and some chapters have been almost completely rewritten since the first printing The MVC project chapters dumped the old JavaScript like event handlers for the sleek new streams interface and the chapter on testing reflects the extensive changes in testing now available in Dart Brand new sections explore some of Dart s beautiful new features such as Method cascades Improve code readability dramatically Event streams Simplified event handling consistent with virtually every other asynchronous interaction in Dart Library parts Yet another way Dart promotes code organization New class constructor syntax Dart supports a nice variety of surprisingly expressive and concise ways to declare constructors Building your own packages Quickly share your work with the world You ll start writing Dart code on page 1 and throughout the book you ll refactor that code to explore Dart s features OOP real libraries and packages testing and more You ll learn how to write beautiful maintainable application code that just works in all modern browsers Caution after reading you may develop an intense attachment to structured code and skinny jeans What You Need You will need the Dart SDK which is freely available from <https://dartlang.org> Most of the book works with Dartium a preview release of Chrome that is included in the SDK and has the Dart VM built in Some of the examples use either the dart2js tool or the Dart Editor to compile Dart down into JavaScript both are part of the SDK

Seven Web Frameworks in Seven Weeks Jack Moffitt, Frederic Daoud, 2013-12-31

Whether you need a new tool or just inspiration Seven Web Frameworks in Seven Weeks explores modern options giving you a taste of each with ideas that will help you create better apps You ll see frameworks that leverage modern programming languages employ unique architectures live client side instead of server side or embrace type systems You ll see everything from familiar Ruby and JavaScript to the more exotic Erlang Haskell and Clojure The rapid evolution of web apps demands innovative solutions this survey of frameworks and their unique perspectives will inspire you and get you thinking in new ways to meet the challenges you face daily This book covers seven web frameworks that are influencing modern web applications and changing web development Sinatra CanJS AngularJS Ring Webmachine Yesod Immutable Each of these web frameworks brings unique and powerful ideas to bear on building apps Embrace the simplicity of Sinatra which sheds the trappings of large frameworks and gets back to basics with Ruby Live in the client with CanJS and create apps with JavaScript in the browser Be declarative with AngularJS say what you want not how to do it with a mixture of declarative HTML and JavaScript Turn the web into data with Ring and use Clojure to make data your puppet Become a master of advanced HTTP with Webmachine and focus the power of Erlang Prove web theorems with Yesod see how Haskell s advanced type system isn t just for academics Develop in luxury with Immutable an enlightened take on the enterprise framework Seven Web Frameworks will influence your work no matter which framework you currently use Welcome to a

wider web What You Need You'll need Windows MacOS X or Linux along with your favorite web browser Each chapter will cover what you need to download and which language versions are required [Good Math](#) Mark C. Chu-Carroll, 2013-07-18 Mathematics is beautiful and it can be fun and exciting as well as practical Good Math is your guide to some of the most intriguing topics from two thousand years of mathematics from Egyptian fractions to Turing machines from the real meaning of numbers to proof trees group symmetry and mechanical computation If you've ever wondered what lay beyond the proofs you struggled to complete in high school geometry or what limits the capabilities of computer on your desk this is the book for you Why do Roman numerals persist How do we know that some infinities are larger than others And how can we know for certain a program will ever finish In this fast paced tour of modern and not so modern math computer scientist Mark Chu Carroll explores some of the greatest breakthroughs and disappointments of more than two thousand years of mathematical thought There is joy and beauty in mathematics and in more than two dozen essays drawn from his popular Good Math blog you'll find concepts proofs and examples that are often surprising counterintuitive or just plain weird Mark begins his journey with the basics of numbers with an entertaining trip through the integers and the natural rational irrational and transcendental numbers The voyage continues with a look at some of the oddest numbers in mathematics including zero the golden ratio imaginary numbers Roman numerals and Egyptian and continuing fractions After a deep dive into modern logic including an introduction to linear logic and the logic savvy Prolog language the trip concludes with a tour of modern set theory and the advances and paradoxes of modern mechanical computing If your high school or college math courses left you grasping for the inner meaning behind the numbers Mark's book will both entertain and enlighten you **Erlang and OTP in Action** Eric Merritt, Martin Logan, Richard Carlsson, 2010-11-15 Concurrent programming has become a required discipline for all programmers Multi core processors and the increasing demand for maximum performance and scalability in mission critical applications have renewed interest in functional languages like Erlang that are designed to handle concurrent programming Erlang and the OTP platform make it possible to deliver more robust applications that satisfy rigorous uptime and performance requirements Erlang and OTP in Action teaches you to apply Erlang's message passing model for concurrent programming a completely different way of tackling the problem of parallel programming from the more common multi threaded approach This book walks you through the practical considerations and steps of building systems in Erlang and integrating them with real world C C Java and NET applications Unlike other books on the market Erlang and OTP in Action offers a comprehensive view of how concurrency relates to SOA and web technologies This hands on guide is perfect for readers just learning Erlang or for those who want to apply their theoretical knowledge of this powerful language You'll delve into the Erlang language and OTP runtime by building several progressively more interesting real world distributed applications Once you are competent in the fundamentals of Erlang the book takes you on a deep dive into the process of designing complex software systems in Erlang Purchase of the print book comes with an offer of a free

PDF ePub and Kindle eBook from Manning Also available is all code from the book **Dr. Dobb's Journal** ,2009 ACM SIGPLAN Erlang Workshop ,2004 *Programming Erlang, 2nd Edition* Joe Armstrong,2013 **Principles and Practice of Declarative Programming** ,2006 **Programming Languages and Systems** ,2004 *L. M. Ericsson review* ,1997

Software Engineering in Higher Education II J.-L. Usó, Peter Mitic, Lance J. Sucharov, 1996 The 47 papers address not only the teaching of software engineering at the undergraduate and graduate levels but also the use of software in the engineering curriculum Among the educational issues discussed are object oriented design in power engineering education representing model classes in C a course on managing in the glazed tile industry and an expert teaching system for calculus studies Other topics include computer graphics for visualizing antenna radiation patterns spatial statistics selection software programming techniques for client server architectures and a first course in object oriented programming using Oberon Reproduced from typescripts No subject index Annotation copyright by Book News Inc Portland OR *American Book Publishing Record* ,1996 **Proceedings of the ... International ACM SIGPLAN Conference on Principles and Practice of Declarative Programming** ,2006 **Rapid Integration of Software Engineering Techniques** ,2004 *Functional and Logic Programming* ,2006

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