
Erlang Programming Francesco Cesarini

Erlang and OTP in Action
Operating System Concepts Essentials, 2nd Edition
Programming Ecto
Embedded Systems with Arm Cortex-M Microcontrollers in Assembly Language and C: Third Edition
Designing Elixir Systems with Otp: Write Highly Scalable, Self-Healing Software with Layers
Building Powerful Cross-Platform Environments in JavaScript
Software for a Concurrent World
13th International Symposium, TFP 2012, St Andrews, UK, June 12-14, 2012, Revised Selected Papers
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Build It With Nitrogen Implement Robust, Fault-Tolerant Systems

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Languages may come and go, but the relational database endures. Learn how to use Ecto, the premier database library for Elixir, to connect your Elixir and Phoenix apps to databases. Get a firm handle on Ecto fundamentals with a module-by-module tour of the critical parts of Ecto. Then move on to more advanced topics and advice on best practices with a series of recipes that provide clear, step-by-step instructions on scenarios commonly encountered by app developers. Co-authored by the creator of Ecto, this title provides all the essentials you need to use Ecto effectively. Elixir and Phoenix are taking the application development world by storm, and Ecto, the database library that ships with Phoenix, is going right along with them. There are plenty of examples that show you the basics, but to use Ecto

to its full potential, you need to learn the library from the ground up. This definitive guide starts with a tour of the core features of Ecto - repos, queries, schemas, changesets, transactions - gradually building your knowledge with tasks of ever-increasing complexity. Along the way, you'll be learning by doing - a sample application handles all the boilerplate so you can focus on getting Ecto into your fingers. Build on that core knowledge with a series of recipes featuring more advanced topics. Change your pooling strategy to maximize your database's efficiency. Use nested associations to handle complex table relationships. Add streams to handle large result sets with ease. Based on questions from Ecto users, these recipes cover the most common situations developers run into. Whether you're new to Ecto, or already have an app in production, this title will give you a deeper understanding of how Ecto works, and help make your database code cleaner and more efficient. What You Need: To follow along with the

book, you should have Erlang/OTP 19+ and Elixir 1.4+ installed. The book will guide you through setting up a sample application that integrates Ecto.

[Operating System Concepts Essentials, 2nd Edition](#) Pragmatic Bookshelf

Build It with Nitrogen: the Fast Off the Block Erlang Web Framework guides web developers step-by-step through construction of highly reliable web applications. This easy-to-read book assumes minimal Linux or JavaScript skills; guides the reader through 12 hands-on projects. Each project builds on the last toward high-level competency. Readers learn Erlang as they go. Nitrogen simplifies development of web applications, making simple things easy and difficult things manageable. Erlang delivers the high availability, massively scalable, soft real-time performance required by banking, e-commerce, computer telephony, and instant messaging applications.

Programming Ecto
Pearson Higher Ed

Basic Category Theory for Computer Scientists provides a straightforward presentation of the basic constructions and terminology of category theory, including limits, functors, natural transformations, adjoints, and cartesian closed categories. Category theory is a branch of pure mathematics that is becoming an increasingly important tool in theoretical computer science, especially in programming language semantics, domain theory, and concurrency, where it is already a standard language of discourse. Assuming a minimum of mathematical preparation, Basic Category Theory for Computer Scientists provides a straightforward presentation of the basic constructions and terminology of category theory, including limits, functors, natural transformations, adjoints, and cartesian closed categories. Four case studies illustrate applications of category theory to programming language design, semantics, and the solution of recursive domain equations. A brief literature survey offers suggestions for further study in more advanced

texts. Contents Tutorial • Applications • Further Reading
Embedded Systems with Arm Cortex-M Microcontrollers in Assembly Language and C: Third Edition "O'Reilly Media, Inc."
Property-based testing helps you create better, more solid tests with little code. By using the PropEr framework in both Erlang and Elixir, this book teaches you how to automatically generate test cases, test stateful programs, and change how you design your software for more principled and reliable approaches. You will be able to better explore the problem space, validate the assumptions you make when coming up with program behavior, and expose unexpected weaknesses in your design. PropEr will even show you how to reproduce the bugs it found. With this book, you will be writing efficient property-based tests in no time. Most tests only demonstrate that the code behaves how the developer expected it to behave, and therefore carry the same blind spots as their authors when special conditions or edge cases show up. Learn how to see things differently

with property tests written in PropEr. Start with the basics of property tests, such as writing stateless properties, and using the default generators to generate test cases automatically. More importantly, learn how to think in properties. Improve your properties, write custom data generators, and discover what your code can or cannot do. Learn when to use property tests and when to stick with example tests with real-world sample projects. Explore various testing approaches to find the one that's best for your code. Shrink failing test cases to their simpler expression to highlight exactly what breaks in your code, and generate highly relevant data through targeted properties. Uncover the trickiest bugs you can think of with nearly no code at all with two special types of properties based on state transitions and finite state machines. Write Erlang and Elixir properties that generate the most effective tests you'll see, whether they are unit tests or complex integration and system tests. What You Need
Basic knowledge of Erlang, optionally Elixir
For Erlang tests:

Erlang/OTP >= 20.0, with Rebar >= 3.4.0 For Elixir tests: Erlang/OTP >= 20.0, Elixir >= 1.5.0

Designing Elixir Systems with Otp: Write Highly Scalable, Self-Healing Software with Layers "O'Reilly Media, Inc."

This book introduces Miranda at a level appropriate for professionals with little or no prior experience in programming. The emphasis is on the process of crafting programs, solving problems, and avoiding common errors. Using a large number of running examples and case studies, the book encourages the design of well structured, reusable software together with proofs of correctness. A tear-out card enables readers to acquire a Miranda compiler from Research Software Ltd. at a substantial discount off the published list price.

[Building Powerful Cross-Platform Environments in JavaScript](#) Simon and Schuster

Why choose Erlang for web applications? Discover the answer hands-on by building a simple web service with this book. If you're an experienced web developer who knows basic Erlang, you'll learn

how to work with REST, dynamic content, web sockets, and concurrency through several examples. In the process, you'll see first-hand that Erlang is ideal for building business-critical services. Erlang was designed for fault-tolerant, non-stop telecom systems, and building applications with it requires a large set of skills. By the end of the book, you'll have the information you need to build a basic web service and get it running. Explore the power of Erlang and REST for building web services

Serve static and dynamic content with the Yaws web server Use different methods for outputting data to user, such as encoding Erlang data structures into JSON or XML Build an application to listen for HTTP requests, process them, store data, and return useful data Go beyond the request-response model—push data to clients with web sockets Use Erlang and Yaws to stream data from the server to a client "A book which is truly needed and will help get Erlang to the next level." —Francesco Cesarini, CEO of Erlang Solutions, author of *Erlang Programming*.

[Software for a Concurrent](#)

[World](#) Springer Science & Business Media

This book introduces basic programming of ARM Cortex chips in assembly language and the fundamentals of embedded system design. It presents data representations, assembly instruction syntax, implementing basic controls of C language at the assembly level, and instruction encoding and decoding. The book also covers many advanced components of embedded systems, such as software and hardware interrupts, general purpose I/O, LCD driver, keypad interaction, real-time clock, stepper motor control, PWM input and output, digital input capture, direct memory access (DMA), digital and analog conversion, and serial communication (USART, I2C, SPI, and USB).

[13th International Symposium, TFP 2012, St Andrews, UK, June 12-14, 2012, Revised Selected Papers](#) Erlang ProgrammingA Concurrent Approach to Software Development Elixir is an excellent language if you want to learn about functional programming, and with this hands-on introduction, you'll discover just how

powerful and fun Elixir can be. This language combines the robust functional programming of Erlang with a syntax similar to Ruby, and includes powerful features for metaprogramming. This book shows you how to write simple Elixir programs by teaching one skill at a time. Once you pick up pattern matching, process-oriented programming, and other concepts, you'll understand why Elixir makes it easier to build concurrent and resilient programs that scale up and down with ease. Get comfortable with IEx, Elixir's command line interface Discover atoms, pattern matching, and guards: the foundations of your program structure Delve into the heart of Elixir with recursion, strings, lists, and higher-order functions Create processes, send messages among them, and apply pattern matching to incoming messages Store and manipulate structured data with Erlang Term Storage and the Mnesia database Build resilient applications with Erlang's Open Telecom Platform Define macros with Elixir's metaprogramming tools [Designing for Scalability with Erlang/OTP](#) "O'Reilly

Media, Inc." 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. *500 Lines Or Less* "O'Reilly Media, Inc." A complete description of Erlang, a programming

language for building robust concurrent systems. The book contains many examples of how robust real-time systems can be programmed using this language.

Getting Started in Functional Programming

Pragmatic Bookshelf
Why choose Erlang for web applications? Discover the answer hands-on by building a simple web service with this book. If you're an experienced web developer who knows basic Erlang, you'll learn how to work with REST, dynamic content, web sockets, and concurrency through several examples. In the process, you'll see first-hand that Erlang is ideal for building business-critical services. Erlang was designed for fault-tolerant, non-stop telecom systems, and building applications with it requires a large set of skills. By the end of the book, you'll have the information you need to build a basic web service and get it running. Explore the power of Erlang and REST for building web services. Serve static and dynamic content with the Yaws web server. Use different methods for outputting data to user, such as

encoding Erlang data structures into JSON or XML. Build an application to listen for HTTP requests, process them, store data, and return useful data. Go beyond the request-response model—push data to clients with web sockets. Use Erlang and Yaws to stream data from the server to a client. "A book which is truly needed and will help get Erlang to the next level."—Francesco Cesarini, CEO of Erlang Solutions, author of Erlang Programming.

Find Bugs Before Your Users Do Addison-Wesley
"Working with REST and Web-Sockets on Yaws"--Cover.

Property-Based Testing with PropEr, Erlang, and Elixir "O'Reilly Media, Inc."
Beschrijving van vijftientig open source applicaties.

A Concurrent Approach to Software

Development Addison Wesley Publishing Company
"Seven Languages in Seven Weeks" presents a meaningful exploration of seven languages within a single book. Rather than serve as a complete reference or installation guide, the book hits what's essential and unique about each language.

Python Web Development with Django

"O'Reilly Media, Inc."
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. *Basic Category Theory for Computer Scientists* "O'Reilly Media, Inc." By staying current, remaining relevant, and adapting to emerging course needs, *Operating System Concepts* by Abraham Silberschatz, Peter Baer Galvin and Greg Gagne has defined the operating systems course through nine editions. This second edition of the Essentials version is based on the recent ninth edition of the original text. *Operating System Concepts*

Essentials comprises a subset of chapters of the ninth edition for professors who want a shorter text and do not cover all the topics in the ninth edition. The new second edition of Essentials will be available as an ebook at a very attractive price for students. The ebook will have live links for the bibliography, cross-references between sections and chapters where appropriate, and new chapter review questions. A two-color printed version is also available.

[Building Web Applications with Erlang](#) Lulu.com

Why choose Erlang for web applications? Discover the answer hands-on by building a simple web service with this book. If you're an experienced web developer who knows basic Erlang, you'll learn how to work with REST, dynamic content, web sockets, and concurrency through several examples. In the process, you'll see first-hand that Erlang is ideal for building business-critical services. Erlang was designed for fault-tolerant, non-stop telecom systems, and building applications with it requires a large set of skills. By the end of the

book, you'll have the information you need to build a basic web service and get it running. Explore the power of Erlang and REST for building web services. Serve static and dynamic content with the Yaws web server. Use different methods for outputting data to user, such as encoding Erlang data structures into JSON or XML. Build an application to listen for HTTP requests, process them, store data, and return useful data. Go beyond the request-response model—push data to clients with web sockets. Use Erlang and Yaws to stream data from the server to a client. "A book which is truly needed and will help get Erlang to the next level." —Francesco Cesarini, CEO of Erlang Solutions, author of *Erlang Programming*. *Java Generics and Collections* Lulu.com Collecting data is relatively easy, but turning raw information into something useful requires that you know how to extract precisely what you need. With this insightful book, intermediate to experienced programmers interested in data analysis will learn techniques for working with data in a

business environment. You'll learn how to look at data to discover what it contains, how to capture those ideas in conceptual models, and then feed your understanding back into the organization through business plans, metrics dashboards, and other applications. Along the way, you'll experiment with concepts through hands-on workshops at the end of each chapter. Above all, you'll learn how to think about the results you want to achieve -- rather than rely on tools to think for you. Use graphics to describe data with one, two, or dozens of variables. Develop conceptual models using back-of-the-envelope calculations, as well as scaling and probability arguments. Mine data with computationally intensive methods such as simulation and clustering. Make your conclusions understandable through reports, dashboards, and other metrics programs. Understand financial calculations, including the time-value of money. Use dimensionality reduction techniques or predictive analytics to conquer challenging data analysis situations. Become familiar with different open source programming environments for data

analysis. "Finally, a concise reference for understanding how to conquer piles of data."-- Austin King, Senior Web Developer, Mozilla "An indispensable text for aspiring data scientists."-- Michael E. Driscoll, CEO/Founder, Dataspora *The Fast-Off-the-Block Erlang Web Framework* Pragmatic Bookshelf You know how to code in Elixir; now learn to think in it. Learn to design libraries with intelligent layers that shape the right data structures, flow from one function into the next, and present the right APIs. Embrace the same OTP that's kept our telephone systems reliable and fast for over 30 years. Move beyond understanding the OTP functions to knowing what's happening under the hood, and why that matters. Using that knowledge, instinctively know how to design systems that deliver fast and resilient services to your users, all with an Elixir focus. Elixir is gaining mindshare as the programming language you can use to keep you software running forever, even in the face of unexpected errors and an ever growing need to use more processors. This power comes from an

effective programming language, an excellent foundation for concurrency and its inheritance of a battle-tested framework called the OTP. If you're using frameworks like Phoenix or Nerves, you're already experiencing the features that make Elixir an excellent language for today's demands. This book shows you how to go beyond simple programming to designing, and that means building the right layers. Embrace those data structures that work best in functional programs and use them to build functions that perform and compose well, layer by layer, across processes. Test your code at the right place using the right techniques. Layer your code into pieces that are easy to understand and heal themselves when errors strike. Of all Elixir's boons, the most important one is that it guides us to design our programs in a way to most benefit from the architecture that they run on. The experts do it and now you can learn to design programs that do the same. What You Need: Elixir Version 1.7 or greater.

Building Web Applications with

Erlang Lulu.com architectures in a improve code
Offers information on how computer's GPU to performance, scalability,
to exploit the parallel and resilience.

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