

Learn You Some Erlang For Great Good A Beginners

Een jongeman staat op het kruispunt naar volwassenheid en twijfelt aan de keuze die hij moet maken: gaan voor een carrière in het leger of toch de stem van zijn hart volgen en de weg naar het dichterschap inslaan? Aangespoord door jeugdige overmoed besluit hij een brief te schrijven aan de jonge dichter, Rainer Maria Rilke, in de hoop dat hij hem zou kunnen helpen in het overwinnen van zijn besluiteloosheid...

For weeks, months—nay!—from the very moment you were born, you've felt it calling to you. At long last you'll be united with the programming language you've been longing for: Clojure! As a Lisp-style functional programming language, Clojure lets you write robust and elegant code, and because it runs on the Java Virtual Machine, you can take advantage of the vast Java ecosystem. Clojure for the Brave and True offers a "dessert-first" approach: you'll start playing with real programs immediately, as you steadily acclimate to the abstract but powerful features of Lisp and functional programming. Inside you'll find an offbeat, practical guide to Clojure, filled with quirky sample programs that catch cheese thieves and track glittery vampires. Learn how to: –Wield Clojure's core functions –Use Emacs for Clojure development –Write macros to modify Clojure

itself –Use Clojure’s tools to simplify concurrency and parallel programming
Clojure for the Brave and True assumes no prior experience with Clojure, the Java Virtual Machine, or functional programming. Are you ready, brave reader, to meet your true destiny? Grab your best pair of parentheses—you’re about to embark on an epic journey into the world of Clojure!

If you’re new to Erlang, its functional style can seem difficult, but with help from this hands-on introduction, you’ll scale the learning curve and discover how enjoyable, powerful, and fun this language can be. In this updated second edition, author Simon St.Laurent shows you how to write simple Erlang programs by teaching you one skill at a time. You’ll learn about pattern matching, recursion, message passing, process-oriented programming, and establishing pathways for data rather than telling it where to go. By the end of your journey, you’ll understand why Erlang is ideal for concurrency and resilience. Get cozy with Erlang’s shell, its command line interface Define functions, using the fun tool, to represent repeated calculations Discover atoms, pattern matching, and guards: the foundations of your program structure Delve into the heart of Erlang processing 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 Learn about Open Telecom Platform, Erlang's open source libraries and tools

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.

This book shows how mathematics, computer science and science can be usefully and seamlessly intertwined. It begins with a general model of cognitive processes in a network of computational nodes, such as neurons, using a variety of tools from mathematics, computational science and neurobiology. It then moves on to solve the diffusion model from a low-level random walk point of view. It also demonstrates how this idea can be used in a new approach to solving the cable equation, in order to better understand the neural computation approximations. It introduces specialized data for emotional content, which allows a brain model to be built using MatLab tools, and also highlights a simple model of cognitive dysfunction.

This book constitutes the thoroughly refereed proceedings of the 19th International Symposium on Static Analysis, SAS 2012, held in Deauville, France, in September 2012. The 25 revised full papers presented together with 4 invited talks were selected from 62 submissions. The papers address all aspects of static analysis, including abstract domains, abstract interpretation, abstract testing, bug detection, data flow analysis, model checking, new applications, program transformation, program verification, security analysis, theoretical frameworks, and type checking.

Erlang is a general purpose or you might say a functional programming language and runtime environment. It was built in such a way that it had inherent support for concurrency, distribution and fault tolerance. Erlang was originally developed to be used in several large telecommunication systems. But it has now slowly made its foray into diverse sectors like ecommerce, computer telephony and banking sectors as well. This book has been prepared for professionals aspiring to make a career in the field of telecom, banking, instant messaging, e-commerce and computer telephony as well. This book will give you enough understanding on this programming language and also help you in building scalable soft real time systems that will have requirements on higher availability. Before proceeding with this book, you must have some basic knowledge on

programming in the following languages such as C or C++, Java, Python, Ruby. Furthermore, it might also be helpful, to have some working knowledge on functional programming languages like Clojure, Haskell, Scala or OCaml for advanced programming on Erlang.

F# brings the power of functional-first programming to the .NET Framework, a platform for developing software in the Microsoft Windows ecosystem. If you're a traditional .NET developer used to C# and Visual Basic, discovering F# will be a revelation that will change how you code, and how you think about coding. In *The Book of F#*, Microsoft MVP Dave Fancher shares his expertise and teaches you how to wield the power of F# to write succinct, reliable, and predictable code. As you learn to take advantage of features like default immutability, pipelining, type inference, and pattern matching, you'll be amazed at how efficient and elegant your code can be. You'll also learn how to:

- Exploit F#'s functional nature using currying, partial application, and delegation
- Streamline type creation and safety with record types and discriminated unions
- Use collection types and modules to handle data sets more effectively
- Use pattern matching to decompose complex types and branch your code within a single expression
- Make your software more responsive with parallel programming and asynchronous workflows
- Harness object orientation to develop rich frameworks and interact with code written in

other .NET languages -Use query expressions and type providers to access and manipulate data sets from disparate sources Break free of that old school of programming. The Book of F# will show you how to unleash the expressiveness of F# to create smarter, leaner code.

Dit boek gaat over data, en hoe ermee om te gaan. Vanuit een historische beschrijving van waar wij nu staan aan het einde van de Covid-19 pandemie en alle (technologische) veranderingen die daar het gevolg van zijn geweest, nemen de auteurs de lezer mee naar een toekomst die er al is. Daarbij hebben organisaties de keuze uit twee scenario's: of een blauw proces volgen van het doorvoeren van drastische kostenreducties waarbij de digitalisering als een efficiencytool wordt ingezet, of kiezen voor Digitale transformatie 4.0 met een disruptief leidmotief. De auteurs zijn deskundigen van diverse pluimage, niet alleen visionairs, maar ook strategen, communicatiecoaches, economen en IT en privacy advocaten. En dit leidt tot vele verrassende en onverwachte inzichten: dit boek kan uw ondernemersvisie op zijn kop zetten! Aan de orde komen de vele technische ontwikkelingen, zoals artificiële intelligentie, blockchain en quantum computers. Maar daarnaast komen ook vele andere aspecten aan de orde zoals psychologie, taal, goed bestuur en 'compliance'. De lezer wordt vertrouwd gemaakt met kreten als 'emerging technologies' en 'disruptors rules'. Al met al

biedt het een echt holistische kijk, geïllustreerd met vele aansprekende voorbeelden, beelden, statistieken en andere figuren, die het boek verlevendigen. De grootste waarde van het boek is dat ook de stap wordt gemaakt om die theorie te vertalen naar de dagelijkse operatie van een onderneming. Ook door aandacht te besteden aan de juridische aspecten. Dit in het besef dat complexe veranderingen, zeker waar het gaat om slim gebruik van data van bestaande ondernemingen en mensen, niet plaats kunnen vinden zonder grondige kennis van het (Europese) recht en de ervaring en vaardigheid die ook om te zetten in goede afspraken. Besteed een paar dagen aan het doorlezen van dit boek, zodat je als ondernemer je directie, management en zelfs je CIO/CTO 's kan verbazen met de opgedane en actuele kennis. En het helpt je zeker om keuzes te maken voor de toekomst en de eigen strategie, visie en missie van je organisatie aan te passen aan de technologische golf die er over ons heen spoelt. "Kan één boek over data jouw ondernemersvisie op zijn kop zetten? Ja, dat kan met dit boek!" Ernst van Win, Partner De Clercq Advocaten en Notariaat "Dit boek geeft vele handreikingen en doorkijkjes naar hoe het beter kan. De schrijvers zeilen 'strak aan de wind', en zorgen ervoor dat u geprikkeld wordt. We complimenteren de auteurs met deze state-of-the-art bundeling van kennis en kunde!" Wouter Bronsgeest, voorzitter KNVI & Sandra de Waart

“Maak niet de fout te denken dat het allemaal zo'n vaart niet zal lopen. Uw voorsprong heeft u nu met dit boek in handen!” Flip Houtman, ondernemer, investeerder en algemeen directeur Ventus Groep

Smooth, powerful, and small, the Elixir programming language is an excellent place for newcomers to learn about functional programming. This book shows readers how Elixir combines the robust functional programming of Erlang with an approach that looks more like Ruby. Readers will learn how Elixir simplifies some of Erlang's odder corners and reaches toward metaprogramming with powerful macro features. Introducing Elixir is ideal for developers new to programming as well as experienced developers who want to move into functional programming. Get comfortable with IEx, Elixir's command line interface Become familiar with Elixir's basic structures by working with numbers Discover atoms, pattern matching, and guards: the foundations of your program structure Delve into the heart of Elixir processing 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 (ETS) and the Mnesia database Build resilient applications with the Open Telecom Platform (OTP) Define macros with Elixir's meta-programming tools

Lijd je aan stress, vermoeidheid of ziekte, of wil je gewoon balans in je leven brengen? Dan helpt mindfulness-meditatie je het leven kalmer en met meer vertrouwen tegemoet te treden. Deze fijne gids en audio-cd boordevol opmerkzame ademhalings- en zelfbeheersingstechnieken helpen je negatieve en afleidende gedachten los te laten. Met de praktische adviezen en meditaties heb je alle gereedschappen om in het hier en nu te leven en gezonder en energiever te worden. Over de auteur Shamash Alidina is professioneel mindfulness-trainer, spreker en coach en is gespecialiseerd in mindfulness-training van therapeuten, coaches en directeuren. Hij werkte samen met Jon Kabat-Zinn, Thich Nhat Nanh en Matthieu Ricard aan het Bangor Universitys Centre for Mindfulness. Bron: Flaptekst, uitgeversinformatie.

Learn the Real Secrets of Succeeding as a Software or IT Consultant in Any Economic Climate! Despite economic cycles, the idea of using technology to make a company more efficient and competitive—or perhaps even reach a new market—is appealing to all but the most desperate and cash-starved companies. More and more often, those companies look to technology consultants to fulfill their needs. There are real advantages to being a consultant. You make contacts with a lot of different people; you get exposure to many industries; and most important, unlike a software developer in the IT department for a brick-and-mortar

company, as a technology consultant, you are the profit center...so long as you are billing. Consulting can be hugely rewarding—but it's easy to fail if you are unprepared. To succeed, you need a mentor who knows the lay of the land. Aaron Erickson is your mentor, and this is your guidebook. Erickson has done it all—from Practice Leadership to the lowest level project work. In *The Nomadic Developer*, he brings together his hardwon insights on becoming successful and achieving success through tough times and relentless change. You'll find 100% practical advice and real experiences—his own and annotations from those in the trenches. In addition, renowned consultants—such as David Chappell, Bruce Eckel, Deborah Kurata, and Ted Neward—share some of their hard-earned lessons. With this useful guidebook, you can Objectively assess whether the consultant's life makes sense for you Break into the business and build a career path that works Avoid the Seven Deadly Firms by identifying unscrupulous technology consultancies and avoiding their traps and pitfalls Understand the business models and mechanics that virtually all consulting firms use Master secret consulting success tips that are typically left unstated or overlooked Gain a competitive advantage by adding more value than your competitors Continue your professional development so you stay billable even during bad times Profit from both fixed-bid and time-and-materials projects Build a personal brand that

improves your resiliency no matter what happens

Erlang is the language of choice for programmers who want to write robust, concurrent applications, but its strange syntax and functional design can intimidate the uninitiated. Luckily, there's a new weapon in the battle against Erlang-phobia: *Learn You Some Erlang for Great Good!* Erlang maestro Fred Hébert starts slow and eases you into the basics: You'll learn about Erlang's unorthodox syntax, its data structures, its type system (or lack thereof!), and basic functional programming techniques. Once you've wrapped your head around the simple stuff, you'll tackle the real meat-and-potatoes of the language: concurrency, distributed computing, hot code loading, and all the other dark magic that makes Erlang such a hot topic among today's savvy developers. As you dive into Erlang's functional fantasy world, you'll learn about:

- Testing your applications with EUnit and Common Test
- Building and releasing your applications with the OTP framework
- Passing messages, raising errors, and starting/stopping processes over many nodes
- Storing and retrieving data using Mnesia and ETS
- Network programming with TCP, UDP, and the inet module
- The simple joys and potential pitfalls of writing distributed, concurrent applications

Packed with lighthearted illustrations and just the right mix of offbeat and practical example programs, *Learn You Some Erlang for Great Good!* is the

perfect entry point into the sometimes-crazy, always-thrilling world of Erlang. This book is an in-depth introduction to Erlang, a programming language ideal for any situation where concurrency, fault tolerance, and fast response is essential. Erlang is gaining widespread adoption with the advent of multi-core processors and their new scalable approach to concurrency. With this guide you'll learn how to write complex concurrent programs in Erlang, regardless of your programming background or experience. Written by leaders of the international Erlang community -- and based on their training material -- Erlang Programming focuses on the language's syntax and semantics, and explains pattern matching, proper lists, recursion, debugging, networking, and concurrency. This book helps you:

- Understand the strengths of Erlang and why its designers included specific features
- Learn the concepts behind concurrency and Erlang's way of handling it
- Write efficient Erlang programs while keeping code neat and readable
- Discover how Erlang fills the requirements for distributed systems
- Add simple graphical user interfaces with little effort
- Learn Erlang's tracing mechanisms for debugging concurrent and distributed systems
- Use the built-in Mnesia database and other table storage features

Erlang Programming provides exercises at the end of each chapter and simple examples throughout the book.

Theo Decker, een dertienjarige jongen uit New York, overleeft op wonderbaarlijke

wijze een aanslag waarbij zijn moeder om het leven komt. Zijn vader is een paar maanden daarvoor verdwenen en Theo komt na de aanslag bij de familie van een rijke vriend terecht. Hij is verbijsterd door zijn nieuwe leefomgeving, verward door zijn klasgenoten die het moeilijk vinden met hem om te gaan en diepbedroefd door het verlies van zijn moeder. Theo vindt houvast aan dat ene object dat hem aan haar doet denken: een klein, mysterieus schilderij, dat hem uiteindelijk in de onderwereld van de kunst doet belanden. Het puttertje is een roman met een ongekeerde energie en vertelkracht, waarin Donna Tartt levendige personages, betoverend taalgebruik en adembenemende spanning combineert met diepgaande bespiegelingen over liefde, identiteit en kunst. Een prachtig boek over verlies, obsessie, overlevingskracht en de meedogenloze speling van het lot. Donna Tartt is geboren in Greenwood, Mississippi. Ze studeerde klassieke talen en filosofie aan Bennington College, Vermont. Ze is de auteur van De verborgen geschiedenis en De kleine vriend. Haar werk is in meer dan dertig talen verschenen.

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Refer to the link if more answers required or simply mail us at etechqa@outlook.com. Download Full Ebook at www.explogrammers.blogspot.com

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

Elixir nació como la solución a un gran problema que recaía sobre BEAM de ser una gran plataforma pero con un lenguaje raro. Con influencia de otros lenguajes y una gran ejecución por parte de José Valim comenzaron a salir las primeras versiones del

lenguaje en 2011 y muchos entusiastas comenzaron a dedicarse a mejorar y hacerlo crecer. Este libro te ayuda a adentrarte en el mundo de Elixir. Cómo nació, cómo es su comunidad, su ecosistema y por supuesto el lenguaje. Las ventajas y lo que lo hacen único e incluso sus debilidades. Todo para ayudarte a dar tus primeros pasos en Elixir o aprender toda la base en caso de tener ya conocimientos previos. Aprenderás cómo crear aplicaciones cliente-servidor y las mejores prácticas para desarrollar con Elixir, crear proyectos, integrar tu código con el de otros a través de la instalación de dependencias, publicar tus propias librerías y desplegar tus proyectos en producción. Este libro cubre todos los aspectos principales de Elixir 1.7.

Summary RabbitMQ in Action is a fast-paced run through building and managing scalable applications using the RabbitMQ messaging server. It starts by explaining how message queuing works, its history, and how RabbitMQ fits in. Then it shows you real-world examples you can apply to your own scalability and interoperability challenges. About the Technology There's a virtual switchboard at the core of most large applications where messages race between servers, programs, and services. RabbitMQ is an efficient and easy-to-deploy queue that handles this message traffic effortlessly in all situations, from web startups to massive enterprise systems. About the Book RabbitMQ in Action teaches you to build and manage scalable applications in multiple languages using the RabbitMQ messaging server. It's a snap to get started. You'll learn how message queuing works and how RabbitMQ fits in. Then, you'll explore

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practical scalability and interoperability issues through many examples. By the end, you'll know how to make Rabbit run like a well-oiled machine in a 24 x 7 x 365 environment. Written for developers familiar with Python, PHP, Java, .NET, or any other modern programming language. No RabbitMQ experience required. 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. What's Inside Learn fundamental messaging design patterns Use patterns for on-demand scalability Glue a PHP frontend to a backend written in anything Implement a PubSub-alerting service in 30 minutes flat Configure RabbitMQ's built-in clustering Monitor, manage, extend, and tune RabbitMQ
===== ?===== Table of Contents Pulling RabbitMQ out of the hat Understanding messaging Running and administering Rabbit Solving problems with Rabbit: coding and patterns Clustering and dealing with failure Writing code that survives failure Warrens and Shovels: failover and replication Administering RabbitMQ from the Web Controlling Rabbit with the REST API Monitoring: Houston, we have a problem Supercharging and securing your Rabbit Smart Rabbits: extending RabbitMQ Summary The Little Elixir & OTP Guidebook gets you started programming applications with Elixir and OTP. You begin with a quick overview of the Elixir language syntax, along with just enough functional programming to use it effectively. Then, you'll dive straight into OTP and learn how it helps you build scalable, fault-tolerant and distributed

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applications through several fun examples. Purchase of the print book includes a free eBook in PDF, Kindle, and ePub formats from Manning Publications. About the Technology Elixir is an elegant programming language that combines the expressiveness of Ruby with the concurrency and fault-tolerance of Erlang. It makes full use of Erlang's BEAM VM and OTP library, so you get two decades' worth of maturity and reliability right out of the gate. Elixir's support for functional programming makes it perfect for modern event-driven applications. About the Book The Little Elixir & OTP Guidebook gets you started writing applications with Elixir and OTP. You'll begin with the immediately comfortable Elixir language syntax, along with just enough functional programming to use it effectively. Then, you'll dive straight into several lighthearted examples that teach you to take advantage of the incredible functionality built into the OTP library. What's Inside Covers Elixir 1.2 and 1.3 Introduction to functional concurrency with actors Experience the awesome power of Erlang and OTP About the Reader Written for readers comfortable with a standard programming language like Ruby, Java, or Python. FP experience is helpful but not required. About the Author Benjamin Tan Wei Hao is a software engineer at Pivotal Labs, Singapore. He is also an author, a speaker, and an early adopter of Elixir. Table of Contents GETTING STARTED WITH ELIXIR AND OTP Introduction A whirlwind tour Processes 101 Writing server applications with GenServer FAULT TOLERANCE, SUPERVISION, AND DISTRIBUTION Concurrent error-handling and fault tolerance with links, monitors, and

processes Fault tolerance with Supervisors Completing the worker-pool application
Distribution and load balancing Distribution and fault tolerance Dialyzer and type
specifications Property-based and concurrency testing

In 'Extreem eigenaarschap' vertellen Jocko Willink en Leif Babin de krachtige leiderschapslessen van het slagveld naar heldere principes die toegepast kunnen worden in ieder team en elke organisatie. Toen de Navy SEAL-taskforce van Willink en Leif in 2006 in Irak voor een mission impossible stond: Ramadi veiligstellen, een stad die al min of meer als verloren wordt beschouwd, wisten Willink en Babin onder extreme druk hun team naar de overwinning te leiden. De overwinning is grotendeels te danken aan een teamcultuur van eigenaarschap en discipline. Leiderschap, op ieder niveau, blijkt de doorslaggevende factor voor het succes van het team. In 'Extreem eigenaarschap' delen ze niet alleen hun eigen oorlogservaringen, maar ook praktijkverhalen van de bedrijven die ze na hun militaire loopbaan zijn gaan coachen. Met dit meeslepende boek, waarvan wereldwijd al bijna twee miljoen exemplaren verkocht werden, kun je direct aan de slag met de principes van extreem eigenaarschap.

Leven en loopbaan van de bekende Nederlandse voetbaltrainer.

Handbook of Neuroevolution Through Erlang presents both the theory behind, and the methodology of, developing a neuroevolutionary-based computational intelligence system using Erlang. With a foreword written by Joe Armstrong, this handbook offers

an extensive tutorial for creating a state of the art Topology and Weight Evolving Artificial Neural Network (TWEANN) platform. In a step-by-step format, the reader is guided from a single simulated neuron to a complete system. By following these steps, the reader will be able to use novel technology to build a TWEANN system, which can be applied to Artificial Life simulation, and Forex trading. Because of Erlang's architecture, it perfectly matches that of evolutionary and neurocomputational systems. As a programming language, it is a concurrent, message passing paradigm which allows the developers to make full use of the multi-core & multi-cpu systems. Handbook of Neuroevolution Through Erlang explains how to leverage Erlang's features in the field of machine learning, and the system's real world applications, ranging from algorithmic financial trading to artificial life and robotics.

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

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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
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Toen Michelle Robinson klein was, was haar wereld de South Side van Chicago, waar zij en haar broer Craig in het appartement van hun ouders op de eerste verdieping een slaapkamer deelden en waar ze in het park tikkertje speelden en waar haar ouders, Fraser en Marian Robinson, haar opvoedden tot een oprechte en zelfverzekerde jonge vrouw. Maar het leven bracht haar al gauw naar heel andere werelden, onder andere de collegezalen van Princeton, waar ze voor het eerst voelde wat het betekende om de enige zwarte vrouw in de zaal te zijn, tot de glazen kantoorstoren waar ze als topbedrijfsjurist werkte - en waar op een zomermorgen een rechtenstudent genaamd Barack Obama voor haar bureau verscheen en haar zorgvuldig geplande leven in de war schopte. In dit boek beschrijft Michelle Obama voor het eerst de beginjaren van haar huwelijk, waarin ze probeert een evenwicht te vinden tussen haar werk en gezin enerzijds, en de snel verlopende politieke carrière van haar man anderzijds. Ze maakt ons deelgenoot van hun gesprekken over of hij zich kandidaat moet stellen voor het presidentschap en als het zover is, over haar rol als populaire, maar vaak bekritiseerde persoon in zijn campagne. Ze vertelt alles met charme, humor en ongebruikelijke openhartigheid en geeft een levendig verslag van binnenuit over zowel de historische lancering van haar familie in de wereldwijde spotlights als hun leven in het Witte Huis in die acht gedenkwaardige jaren, waarin zij haar land leert kennen en het land haar. Mijn

verhaal voert ons door de bescheiden keukens in Iowa en de balzaal van Buckingham Palace, door momenten van verbijsterende droefenis en verbazingwekkende veerkracht. Het voert ons tot diep in de ziel van die unieke, baanbrekende persoonlijkheid die ernaar streeft oprecht te blijven en haar persoonlijke kracht en stem in dienst te stellen van hogere idealen. Door haar verhaal eerlijk en moedig te vertellen daagt ze ons allemaal uit: wie zijn wij en wat willen we worden?

If you need to build a scalable, fault tolerant system with requirements for high availability, discover why the Erlang/OTP platform stands out for the breadth, depth, and consistency of its features. This hands-on guide demonstrates how to use the Erlang programming language and its OTP framework of reusable libraries, tools, and design principles to develop complex commercial-grade systems that simply cannot fail. In the first part of the book, you'll learn how to design and implement process behaviors and supervision trees with Erlang/OTP, and bundle them into standalone nodes. The second part addresses reliability, scalability, and high availability in your overall system design. If you're familiar with Erlang, this book will help you understand the design choices and trade-offs necessary to keep your system running. Explore OTP's building blocks: the Erlang language, tools and libraries collection, and its abstract principles and design rules Dive into the fundamentals of OTP reusable frameworks: the Erlang process structures OTP uses for behaviors Understand how OTP behaviors support client-server structures, finite state machine patterns, event

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handling, and runtime/code integration Write your own behaviors and special processes Use OTP's tools, techniques, and architectures to handle deployment, monitoring, and operations

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.

Honderdduizend jaar geleden leefde de Homo sapiens nog een tamelijk onbekommerd bestaan in een uithoek van het Afrikaanse continent en deelde hij de planeet met ten

minste vijf andere menssoorten. Maar op een zeker moment onderging het brein van deze mens een ingrijpende verandering: nu kon hij zich plots verbeelden dat het gras elders wel eens groener zou kunnen zijn, en dus maakte hij zich op om de wereld te veroveren. In Sapiens neemt Yuval Noah Harari ons mee op een fascinerende reis door de geschiedenis van de mensheid. Wie zijn we? Waar komen we vandaan? En hoe zijn we zo geworden als we nu zijn? In zijn aanstekelijke relaas laat Harari ons kennismaken met het meest dominante wezen op aarde: de mens.

Behavioural type systems in programming languages support the specification and verification of properties of programs beyond the traditional use of type systems to describe data processing. A major example of such a property is correctness of communication in concurrent and distributed systems, motivated by the importance of structured communication in modern software. Behavioural Types: from Theory to Tools presents programming languages and software tools produced by members of COST Action IC1201: Behavioural Types for Reliable Large-Scale Software Systems, a European research network that was funded from October 2012 to October 2016. As a survey of the most recent developments in the application of behavioural type systems, it is a valuable reference for researchers in the field, as well as an introduction to the area for graduate students and software developers.

El lenguaje de programación Erlang nació sobre el año 1986 en los laboratorios Ericsson de la mano de Joe Armstrong. Es un lenguaje funcional con base en Prolog,

tolerante a fallos, y orientado al trabajo en tiempo real y a la concurrencia, lo que le proporciona ciertas ventajas en lo que a la declaración de algoritmos se refiere. Como la mayoría de lenguajes funcionales Erlang requiere un análisis del problema y una forma de diseñar la solución diferente a como se haría en un lenguaje de programación imperativo. Sugiere una mejor y más eficiente forma de llevarlo a cabo. Se basa en una sintaxis más matemática que programática por lo que tiende más a la resolución de problemas que a la ordenación y ejecución de órdenes. Todo ello hace que Erlang sea un lenguaje muy apropiado para la programación de elementos de misión crítica, tanto a nivel de servidor como a nivel de escritorio, e incluso para el desarrollo de sistemas embebidos o incrustados. En este libro se recoge un compendio de información sobre lo que es el lenguaje, cómo cubre las necesidades para las que fue creado, cómo sacarle el máximo provecho a su forma de realizar las tareas y a su orientación a la concurrencia. Es un repaso desde el principio sobre cómo programar de una forma funcional y concurrente en un entorno distribuido y tolerante a fallos. Esta tercera revisión comprende hasta la versión 24 exponiendo la nueva sintaxis para obtener el retorno de pila en una excepción, los alias de procesos, nuevas formas de trabajar con la memoria a través de los atómicos, contadores y términos persistentes, un nuevo capítulo dedicado a crypto y el cambio a rebar3 para la construcción de nuestros proyectos.

"In this introduction to Erlang, you'll learn where the language came from, how it is

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different from other languages and get hands on experience. Erlang has a learning curve and is challenging. But you'll be guided step by step in this course. Erlang will stretch your knowledge of programming languages. It is unlike any language you've ever used except maybe Prolog (but who has ever used that?). We'll start simple Erlang logic and build into small, compiled programs. This course is definitely hands on so you'll get some great Erlang experience. While you might not use Erlang in your current job, you'll see how an esoteric language solves problems, which might spark some great ideas for you."--Resource description page.

Unveil many hidden gems of programming functionally by taking the foundational steps with Elixir About This Book Explore the functional paradigms of programming with Elixir through use of helpful examples Concise step-by-step instructions to teach you difficult technical concepts Bridge the gap between functional programming and Elixir Who This Book Is For This book targets developers new to Elixir, as well as Erlang, in order to make them feel comfortable in functional programming with Elixir, thus enabling them to develop more scalable and fault-tolerant applications. Although no knowledge of Elixir is assumed, some programming experience with mainstream Object-Oriented programming languages such a Ruby, Python, Java, C# would be beneficial. What You Will Learn Explore Elixir to create resilient, scalable applications Create fault-tolerant applications Become better acquainted with Elixir code and see how it is structured to build and develop functional programs Learn the basics of functional programming Gain

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an understanding of effective OTP principles Design program-distributed applications and systems Write and create branching statements in Elixir Learn to do more with less using Elixir's metaprogramming Be familiar with the facilities Elixir provides for metaprogramming, macros, and extending the Elixir language In Detail Elixir, based on Erlang's virtual machine and ecosystem, makes it easier to achieve scalability, concurrency, fault tolerance, and high availability goals that are pursued by developers using any programming language or programming paradigm. Elixir is a modern programming language that utilizes the benefits offered by Erlang VM without really incorporating the complex syntaxes of Erlang. Learning to program using Elixir will teach many things that are very beneficial to programming as a craft, even if at the end of the day, the programmer isn't using Elixir. This book will teach you concepts and principles important to any complex, scalable, and resilient application. Mostly, applications are historically difficult to reason about, but using the concepts in this book, they will become easy and enjoyable. It will teach you the functional programming ropes, to enable them to create better and more scalable applications, and you will explore how Elixir can help you achieve new programming heights. You will also glean a firm understanding of basics of OTP and the available generic, provided functionality for creating resilient complex systems. Furthermore, you will learn the basics of metaprogramming: modifying and extending Elixir to suite your needs. Style and approach An exploration of functional programming and Elixir with easy to follow

examples using Elixir and the functional style. All the topics, concepts, and principles covered are clearly and concisely explained with either code examples or in depth discussions, or both!

‘Wat wil jij later worden?’ Zonder te aarzelen antwoordde de zevenjarige Elizabeth Holmes: ‘Miljardair.’ ‘Waarom geen president?’ ‘De president zal mij ten huwelijk vragen omdat ik straks miljarden verdien.’ Op haar negentiende richtte Elizabeth de meest veelbelovende start-up van Silicon Valley op: Theranos. Haar revolutionaire idee was een nieuwe, snelle manier van bloedtesten, die de medische wereld op zijn kop zou zetten. Al in het eerste jaar haalde Holmes het ongekende bedrag van 45 miljoen dollar op en haar portret prijkte op alle businesskranten en -bladen. Extraordinary, werd het genoemd. Maar haar bedrijf bleek gebaseerd op leugens en vervalste testresultaten, en Holmes voerde een schrikbewind om haar moedwillige fraude te verhullen. De meermaals bekroonde Wall Street Journal-journalist John Carreyrou ontmaskerde Holmes en zijn onthullingen brachten haar ten val. Zijn diepgravende journalistieke onderzoek is de basis voor dit adembenemende en shockerende boek over een evil woman en de waanzin van het snelle geld.

Adoption is more than programming. Elixir is an exciting new language, but to successfully get your application from start to finish, you're going to need to know more than just the language. The case studies and strategies in this book will get you there. Learn the best practices for the whole life of your application, from design and team-

building, to managing stakeholders, to deployment and monitoring. Go beyond the syntax and the tools to learn the techniques you need to develop your Elixir application from concept to production. Learn real-life strategies from the people who built Elixir and use it successfully at scale. See how Ben Marx and Bleacher Report maintain one of the highest-traffic Elixir applications by selling the concept to management and delivering on that promise. Find out how Bruce Tate and *icanmakeitbetter* hire and train Elixir engineers, and the techniques they've employed to design and ensure code consistency since Elixir's early days. Explore customer challenges in deploying and monitoring distributed applications with Elixir creator Jose Valim and Plataformatec. Make a business case and build a team before you finish your first prototype. Once you're in development, form strategies for organizing your code and learning the constraints of the runtime and ecosystem. Convince stakeholders, both business and technical, about the value they can expect. Prepare to make the critical early decisions that will shape your application for years to come. Manage your deployment with all of the knobs and gauges that good DevOps teams demand. Decide between the many options available for deployment, and how to best prepare yourself for the challenges of running a production application. This book picks up where most Elixir books leave off. It won't teach you to program Elixir, or any of its tools. Instead, it guides you through the broader landscape and shows you a holistic approach to adopting the language. What You Need: This book works with any version of Elixir.

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Learn different ways of writing concurrent code in Elixir and increase your application's performance, without sacrificing scalability or fault-tolerance. Most projects benefit from running background tasks and processing data concurrently, but the world of OTP and various libraries can be challenging. Which Supervisor and what strategy to use? What about GenServer? Maybe you need back-pressure, but is GenStage, Flow, or Broadway a better choice? You will learn everything you need to know to answer these questions, start building highly concurrent applications in no time, and write code that's not only fast, but also resilient to errors and easy to scale. Whether you are building a high-frequency stock trading application or a consumer web app, you need to know how to leverage concurrency to build applications that are fast and efficient. Elixir and the OTP offer a range of powerful tools, and this guide will show you how to choose the best tool for each job, and use it effectively to quickly start building highly concurrent applications. Learn about Tasks, supervision trees, and the different types of Supervisors available to you. Understand why processes and process linking are the building blocks of concurrency in Elixir. Get comfortable with the OTP and use the GenServer behaviour to maintain process state for long-running jobs. Easily scale the number of running processes using the Registry. Handle large volumes of data and traffic spikes with GenStage, using back-pressure to your advantage. Create your first multi-stage data processing pipeline using producer, consumer, and producer-consumer stages. Process large collections with Flow, using MapReduce and more in

parallel. Thanks to Broadway, you will see how easy it is to integrate with popular message broker systems, or even existing GenStage producers. Start building the high-performance and fault-tolerant applications Elixir is famous for today. What You Need: You'll need Elixir 1.9+ and Erlang/OTP 22+ installed on a Mac OS X, Linux, or Windows machine.

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