

# The Pragmatic Programmer Quick Reference Guide

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## Level Up Your Core Programming Skills The Pragmatic Programmer From Journeyman to Master

Provides information on JavaScript, covering such topics as DOM, events, timers, mashups, forms, and Ajax-- Refactor Your Wetware Springer Apple's iPad defines a new category for devices. This quick-start guide will have users writing iPad apps right away using a combination of the familiar iPhone APIs along with the new APIs and additional templates designed specifically for creating iPad applications.

[Good Math](#) Pearson Education

This unique book provides you with a wealth of tips, tricks, best practices, and answers to the day-to-day questions that programmers face in their careers. It is split into three parts: Coder Skills, Freelancer Skills, and Career Skills, providing the knowledge you need to get ahead in programming. About This Book Over 50 essays with practical advice on improving your programming career Practical focus gives solutions to common problems, and methods to become a better coder Includes advice for existing programmers and those wanting to begin a career in programming Who This Book Is For This book is useful for programmers of any ability or discipline. It has advice for those thinking about beginning a career in programming, those already working as a fully employed programmer, and for those working as freelance developers. What You Will Learn Improve your soft skills to become a better and happier coder Learn to be a better developer Grow your freelance development business Improve your development career Learn the best approaches to breaking down complex topics Have the confidence to charge what you're worth as a freelancer Succeed in developer job interviews In Detail This is an all-purpose toolkit for your programming career. It has been built by Jordan Hudgens over a lifetime of coding and teaching coding. It helps you identify the key questions and stumbling blocks that programmers encounter, and gives you the answers to them! It is a comprehensive guide containing more than 50

insights that you can use to improve your work, and to give advice in your career. The book is split up into three topic areas: Coder Skills, Freelancer Skills, and Career Skills, each containing a wealth of practical advice. Coder Skills contains advice for people starting out, or those who are already working in a programming role but want to improve their skills. It includes such subjects as: how to study and understand complex topics, and getting past skill plateaus when learning new languages. Freelancer Skills contains advice for developers working as freelancers or with freelancers. It includes such subjects as: knowing when to fire a client, and tips for taking over legacy applications. Career Skills contains advice for building a successful career as a developer. It includes such subjects as: how to improve your programming techniques, and interview guides and developer salary negotiation strategies. Style and approach This unique book provides over 50 insightful essays full of practical advice for improving your programming career. The book is split into three broad sections covering different aspects of a developer's career. Each essay is self-contained and can be read individually, or in chunks.

## **New Programmer's Survival Manual** Addison-Wesley Professional

Design websites faster than ever using Sass--the most mature and popular CSS meta-language. On any platform, integrate Sass into your project, create a reusable style guide, and use maps to drastically reduce duplication in your stylesheets. You'll see how to code the right way in Sass with short, clear examples on two-page spreads that show the explanation on one side and code examples on the other. This ultimate guide to using Sass, written by its creator, is updated and expanded with all the new features found in Sass 3.4, making you an expert in no time. Sass lets you write CSS faster and more easily by enabling you to use features that regular CSS doesn't have yet. Bring the power of Sass

to your projects, whether you use Node.js, Ruby, or any other programming language. This updated Pragmatic Guide gives you brief, targeted hands-on examples in an easy-to-follow modular format. Use variables to easily change color values, measurements, or fonts across a whole project. Pare down large style sheets into comprehensible code with maps and placeholder selectors. Organize your Sass with media queries to make maintainable, responsive designs. Create your own layout systems and build shared tooling across projects that make designs more consistent. Learn the differences between extends and mixins. Build data structures to make creating site-wide color schemes a breeze, and use placeholder selectors to keep style sheets cleaner. Pass content through mixins, prevent accidental deep nesting of selectors, and use cutting-edge modular add-ons in the new Sass ecosystem, such as Eyeglass, Susy, and Bourbon Neat. This revised guide covers all the new features in Sass 3.4, including selector parsing and manipulation. Make full use of all Sass's features by updating to the most mature and powerful CSS toolchain out there. What You Need: A solid understanding of CSS, and either comfort using the command line or installing GUI software on your computer. Sass 3.4 installed on any Mac, Linux, or Windows machine.

A Quick-start Guide for iPhone Developers

"O'Reilly Media, Inc."

"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.

The Clean Coder Pragmatic Bookshelf

What others in the trenches say about The Pragmatic Programmer... “ The cool thing about this book is that it ’ s great for keeping the programming process fresh. The book helps you to continue to grow and clearly comes from people who have been there. ” —Kent Beck, author of *Extreme Programming Explained: Embrace Change* “ I found this book to be a great mix of solid advice and wonderful analogies! ” —Martin Fowler, author of *Refactoring and UML Distilled* “ I would buy a copy, read it twice, then tell all my colleagues to run out and grab a copy. This is a book I would never loan because I would worry about it being lost. ” —Kevin Ruland, Management Science, MSG-Logistics “ The wisdom and practical experience of the authors is obvious. The topics presented are relevant and useful.... By far its greatest strength for me has been the outstanding analogies—tracer bullets, broken windows, and the fabulous helicopter-based explanation of the need for orthogonality, especially in a crisis situation. I have little doubt that this book will eventually become an excellent source of useful information for journeymen programmers and expert mentors alike. ” —John Lakos, author of *Large-Scale C++ Software Design* “ This is the sort of book I will buy a dozen copies of when it comes out so I can give it to my clients. ” —Eric Vought, Software Engineer “ Most modern books on software development fail to cover the basics of what makes a great software developer, instead spending their time on syntax or technology where in reality the greatest leverage possible for any software team is in having talented developers who really know their craft well. An excellent book. ” —Pete McBreen, Independent Consultant “ Since reading this book, I have implemented many of the practical suggestions and tips it contains. Across the board, they have saved my company time and money while helping me get my job done quicker! This should be a desktop reference for everyone who works with code for a living. ” —Jared Richardson, Senior Software Developer, iRenaissance, Inc. “ I would like to see this issued to every new employee at my company.... ” —Chris Cleeland, Senior Software Engineer, Object Computing, Inc. “ If I ’ m putting together a project, it ’ s the authors of this book that I want. . . . And failing that I ’ d settle for people who ’ ve read their book. ” —Ward Cunningham Straight from the programming trenches, *The Pragmatic Programmer* cuts through the increasing specialization and technicalities of modern software development to examine the core process--taking a requirement and producing working, maintainable code that delights its users. It covers topics ranging from personal responsibility and career development to architectural techniques for keeping your code flexible and easy to adapt and reuse. Read this

book, and you'll learn how to Fight software rot; Avoid the trap of duplicating knowledge; Write flexible, dynamic, and adaptable code; Avoid programming by coincidence; Bullet-proof your code with contracts, assertions, and exceptions; Capture real requirements; Test ruthlessly and effectively; Delight your users; Build teams of pragmatic programmers; and Make your developments more precise with automation. Written as a series of self-contained sections and filled with entertaining anecdotes, thoughtful examples, and interesting analogies, *The Pragmatic Programmer* illustrates the best practices and major pitfalls of many different aspects of software development. Whether you're a new coder, an experienced programmer, or a manager responsible for software projects, use these lessons daily, and you'll quickly see improvements in personal productivity, accuracy, and job satisfaction. You'll learn skills and develop habits and attitudes that form the foundation for long-term success in your career. You'll become a Pragmatic Programmer. Code Complete Pragmatic Bookshelf Drowning in unnecessary complexity, unmanaged state, and tangles of spaghetti code? In the best tradition of Lisp, Clojure gets out of your way so you can focus on expressing simple solutions to hard problems. Clojure cuts through complexity by providing a set of composable tools--immutable data, functions, macros, and the interactive REPL. Written by members of the Clojure core team, this book is the essential, definitive guide to Clojure. This new edition includes information on all the newest features of Clojure, such as transducers and specs. Clojure joins the flexibility and agility of Lisp with the reach, stability, and performance of Java. Combine Clojure's tools for maximum effectiveness as you work with immutable data, functional programming, and safe concurrency to write programs that solve real-world problems. Start by reading and understanding Clojure syntax and see how Clojure is evaluated. From there, find out about the sequence abstraction, which combines immutable collections with functional programming to create truly reusable data transformation code. Clojure is a functional language; learn how to write programs in a functional style, and when and how to use recursion to your advantage. Discover Clojure's unique approach to state and identity, techniques for polymorphism and open systems using multimethods and protocols, and how to leverage Clojure's metaprogramming capabilities via macros. Finally, put all the pieces together in a real program. New to this edition is coverage of Clojure's spec library, one of the most interesting new features of Clojure for describing both data and functions. You can use Clojure spec to validate data, destructure data, explain invalid data, and generate large numbers of tests to verify the correctness of your code. With this book, you'll learn how to think in Clojure, and how to take advantage of its combined strengths to build powerful programs quickly. What You Need: Java 6 or higher

Clojure 1.9

*Arduino: A Quick-Start Guide* Addison-Wesley Professional

If you ’ re passionate about programming and want to get better at it, you ’ ve come to the right source. Code Craft author Pete Goodliffe presents a collection of useful techniques and approaches to the art and craft of programming that will help boost your career and your well-being. Goodliffe presents sound advice that he ’ s learned in 15 years of professional programming. The book ’ s standalone chapters span the range of a software developer ’ s life—dealing with code, learning the trade, and improving performance—with no language or industry bias. Whether you ’ re a seasoned developer, a neophyte professional, or a hobbyist, you ’ ll find valuable tips in five independent categories: Code-level techniques for crafting lines of code, testing, debugging, and coping with complexity Practices, approaches, and attitudes: keep it simple, collaborate well, reuse, and create malleable code Tactics for learning effectively, behaving ethically, finding challenges, and avoiding stagnation Practical ways to complete things: use the right tools, know what “ done ” looks like, and seek help from colleagues Habits for working well with others, and pursuing development as a social activity Control Your Computer, Simplify Your Life Sidharth Bathia Presents practical advice on the disciplines, techniques, tools, and practices of computer programming and how to approach software development with a sense of pride, honor, and self-respect. Get Fit, Feel Better, and Keep Coding Pragmatic Bookshelf It's your first day on the new job. You've got the programming chops, you're up on the latest tech, you're sitting at your workstation... now what? *New Programmer's Survival Manual* gives your career the jolt it needs to get going: essential industry skills to help you apply your raw programming talent and make a name for yourself. It's a no-holds-barred look at what really goes on in the office--and how to not only survive, but thrive in your first job and beyond. Programming at industry level requires new skills - you'll build programs that dwarf anything you've done on your own. This book introduces you to practices for working on large-scale, long-lived programs at a professional level of quality. You'll find out how to work efficiently with your current tools, and discover essential new tools. But the tools are only part of the story; you've got to get street-smart too. Succeeding in the corporate working environment requires its own savvy. You'll learn how to navigate the office, work with your teammates, and how to deal with other people outside of your department. You'll understand where you fit into the big picture and how you contribute to the company's success. You'll also get a candid look at the tougher aspects of the job: stress, conflict, and office politics. Finally, programming is a job you can do for the long haul. This book helps you look ahead to the years to

come, and your future opportunities--either as a programmer or in another role you grow into. There's nothing quite like the satisfaction of shipping a product and knowing, "I built that." Whether you work on embedded systems or web-based applications, in trendy technologies or legacy systems, this book helps you get from raw skill to an accomplished professional.

Programming Ruby 1.9 & 2.0 Pragmatic Bookshelf 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.

From Journeyman to Master Callisto Media Inc

This is the book for Gophers who want to learn how to build distributed systems. You know the basics of Go and are eager to put your knowledge to work. Build distributed services that are highly available, resilient, and scalable. This book is just what you need to apply Go to real-world situations. Level up your engineering skills today. Take your Go skills to the next level by learning how to design, develop, and deploy a distributed service. Start from the bare essentials of storage handling, then work your way through networking a client and server, and finally to distributing server instances, deployment, and testing. All this will make coding in your day job or side projects easier, faster, and more fun. Create your own distributed services and contribute to open source projects. Build networked, secure clients and servers with gRPC. Gain insights

into your systems and debug issues with observable services instrumented with metrics, logs, and traces. Operate your own Certificate Authority to authenticate internal web services with TLS. Automatically handle when nodes are added or removed to your cluster with service discovery. Coordinate distributed systems with replicated state machines powered by the Raft consensus algorithm. Lay out your applications and libraries to be modular and easy to maintain. Write CLIs to configure and run your applications. Run your distributed system locally and deploy to the cloud with Kubernetes. Test and benchmark your applications to ensure they're correct and fast. Dive into writing Go and join the hundreds of thousands who are using it to build software for the real world. What You Need: Go 1.13+ and Kubernetes 1.16+

### [A Complete Introduction to the Pragmatic Programmer](#) Pragmatic Bookshelf

The concept of Pragmatic Programming has become a reference term to the Programmers who are looking to hone their skills. Pragmatic Programming has been designed through real case analysis based on practical market experience. We have established a set of principles and concepts throughout this book that understand the characteristics and responsibilities of a Pragmatic Programmer. Although every Programmer is unique and has strengths and weaknesses, some characteristics are inherent in every Programmer who is said to be dedicated and responsible in his work, namely: Quick adaptation: Instinct for techniques and technologies. Ability and interest in learning new technologies and associating learning with the knowledge already obtained. Inquisition Interest in obtaining clarity. Question and analyze every situation intrinsic to the given problem. Critical Thinking Attitude to try to understand and make sure of reason and motives before making any assumptions. Realism Ability to understand the real nature of a given problem so as not to idealize possible solutions, but to understand what can actually be done. Versuatility Willingness to relate to various areas. Even as an expert, be willing to learn and acquire a generic range of knowledge. To become a Pragmatic Programmer, you need to think about what you are doing while you are doing it. It is not enough to do an isolated audit to get positive results, but to make it a habit to make a constant critical assessment of every decision you have made or intend to make. In other words, it is necessary to turn off the autopilot and to be present and aware of every action taken, to be constantly thinking and criticizing your work based on

the Principles of Pragmatism. Throughout nine chapters, the book deals with several principles on how to improve your attitude as a programmer. This book is aimed at students and developers who have previously had a first experience with programming and who wish to move to the Pragmatic Programming (PP) in order to design, create, and develop agile software/applications.

Large-scale C++ Software Design CRC Press Printed in full color. To keep doing what you love, you need to maintain your own systems, not just the ones you write code for. Regular exercise and proper nutrition help you learn, remember, concentrate, and be creative--skills critical to doing your job well. Learn how to change your work habits, master exercises that make working at a computer more comfortable, and develop a plan to keep fit, healthy, and sharp for years to come. Small changes to your habits can improve your health--without getting in the way of your work. The Healthy Programmer gives you a daily plan of action that's incremental and iterative just like the software development processes you're used to. Every tip, trick, and best practice is backed up by the advice of doctors, scientists, therapists, nutritionists, and numerous fitness experts. We'll review the latest scientific research to understand how being healthy is good for your body and mind. You'll start by adding a small amount of simple activity to your day--no trips to the gym needed. You'll learn how to mitigate back pain, carpal tunnel syndrome, headaches, and many other common sources of pain. You'll also learn how to refactor your diet to properly fuel your body without gaining weight or feeling hungry. Then, you'll turn the exercises and activities into a pragmatic workout methodology that doesn't interfere with the demands of your job and may actually improve your cognitive skills. You'll also learn the secrets of prominent figures in the software community who turned their health around by making diet and exercise changes. Throughout, you'll track your progress with a "companion iPhone app". Finally, you'll learn how to make your healthy lifestyle pragmatic, attainable, and fun. If you're going to live well, you should enjoy it. Disclaimer This book is intended only as an informative guide for those wishing to know more about health issues. In no way is this book intended to replace, countermand, or conflict with the advice given to you by your own healthcare provider including Physician, Nurse Practitioner, Physician Assistant, Registered Dietician, and other licensed professionals. Keep in mind that results vary from person to person. This book is not intended as a substitute for medical or nutritional advice from a healthcare provider or dietician. Some people have a medical history and/or condition and/or nutritional requirements that warrant individualized recommendations and, in some cases, medications and healthcare surveillance. Do not start, stop, or change medication and dietary recommendations without professional

medical and/or Registered Dietician advice. A healthcare provider should be consulted if you are on medication or if there are any symptoms that may require diagnosis or medical attention. Do not change your diet if you are ill, or on medication except under the supervision of a healthcare provider. Neither this, nor any other book or discussion forum is intended to take the place of personalized medical care or treatment provided by your healthcare provider. This book was current as of January, 2013 and as new information becomes available through research, experience, or changes to product contents, some of the data in this book may become invalid. You should seek the most up to date information on your medical care and treatment from your health care professional. The ultimate decision concerning care should be made between you and your healthcare provider. Information in this book is general and is offered with no guarantees on the part of the author, editor or The Pragmatic Programmers, LLC. The author, editors and publisher disclaim all liability in connection with the use of this book.

**Python in a Nutshell Pragmatic Bookshelf**  
It's easier to learn how to program a computer than it has ever been before. Now everyone can learn to write programs for themselves - no previous experience is necessary. Chris Pine takes a thorough, but lighthearted approach that teaches you the fundamentals of computer programming, with a minimum of fuss or bother. Whether you are interested in a new hobby or a new career, this book is your doorway into the world of programming. Computers are everywhere, and being able to program them is more important than it has ever been. But since most books on programming are written for other programmers, it can be hard to break in. At least it used to be. Chris Pine will teach you how to program. You'll learn to use your computer better, to get it to do what you want it to do. Starting with small, simple one-line programs to calculate your age in seconds, you'll see how to write interactive programs, to use APIs to fetch live data from the internet, to rename your photos from your digital camera, and more. You'll learn the same technology used to drive modern dynamic websites and large, professional applications. Whether you are looking for a fun new hobby or are interested in entering the tech world as a professional, this book gives you a solid foundation in programming. Chris teaches the basics, but also shows you how to think like a programmer. You'll learn through tons of examples, and through programming challenges throughout the book. When you finish, you'll know how and where to learn more - you'll be on your way. What You Need: All you need to learn how to program is a computer (Windows, macOS, or Linux) and an internet connection. Chris Pine will lead you through setting set up with the software you will need to start writing programs of your own.

#### **Pragmatic Thinking and Learning Pragmatic Bookshelf**

A tutorial and reference to the object-oriented programming language for beginning to experienced programmers, updated for version 1.8, describes the language's structure, syntax, and operation, and explains how to build applications.

#### **Original. (Intermediate)**

#### **Harness the Combinatoric Power of Command-Line Tools and Utilities Pragmatic Bookshelf**

Summary: Ruby 1.9 was a major release of the language: it introduced multinationalization, new block syntax and scoping rules, a new, faster, virtual machine, and hundreds of new methods in dozens of new classes and modules. Ruby 2.0 is less radical--it has keyword arguments, a new regexp engine, and some library changes. This book describes it all. The first quarter of the book is a tutorial introduction that gets you up to speed with the Ruby language and the most important classes and libraries. Download and play with the hundreds of code samples as your experiment with the language. The second section looks at real-world Ruby, covering the Ruby environment, how to package, document, and distribute code, and how to work with encodings. The third part of the book is more advanced. In it, you'll find a full description of the language, an explanation of duck typing, and a detailed description of the Ruby object model and metaprogramming. The book ends with a reference section: comprehensive and detailed documentation of Ruby's libraries. You'll find descriptions and examples of more than 1,300 methods in 58 built-in classes and modules, along with brief descriptions of 97 standard libraries. Ruby makes your programming more productive; it makes coding fun again. And this book will get you up to speed with the very latest Ruby, quickly and enjoyably.

**Programming Phoenix = 1.4 Pragmatic Bookshelf**  
Printed in full color. Software development happens in your head. Not in an editor, IDE, or design tool. You're well educated on how to work with software and hardware, but what about wetware--our own brains? Learning new skills and new technology is critical to your career, and it's all in your head. In this book by Andy Hunt, you'll learn how our brains are wired, and how to take advantage of your brain's architecture. You'll learn new tricks and tips to learn more, faster, and retain more of what you learn. You need a pragmatic approach to thinking and learning. You need to Refactor Your Wetware. Programmers have to learn constantly; not just the stereotypical new technologies, but also the problem domain of the application, the whims of the user community, the quirks of your teammates, the shifting sands of the industry, and the evolving characteristics of the project itself as it is built. We'll journey together through bits of cognitive and neuroscience, learning and behavioral theory. You'll see some surprising aspects of how our brains work, and how you can take advantage of the system to improve your own learning and thinking skills. In this book you'll learn how to: Use the Dreyfus Model of Skill Acquisition to become more expert Leverage the architecture of the brain to strengthen different thinking modes Avoid common "known bugs" in your mind Learn more deliberately and more effectively Manage knowledge more efficiently

**Learn to Program Pearson Education**  
Speak directly to your system. With its simple commands, flags, and parameters, a well-formed command-line application is the quickest way to automate a backup, a build, or a deployment and

simplify your life. With this book, you'll learn specific ways to write command-line applications that are easy to use, deploy, and maintain, using a set of clear best practices and the Ruby programming language. This book is designed to make any programmer or system administrator more productive in their job. Now updated for Ruby 2. Writing a command-line application that's self-documenting, robust, adaptable and forever useful is easier than you might think. Ruby is particularly suited to this task, because it combines high-level abstractions with "close to the metal" system interaction wrapped up in a concise, readable syntax. Plus, Ruby has the support of a rich ecosystem of open source tools and libraries. Ten insightful chapters each explain and demonstrate a command-line best practice. You'll see how to use these tools to elevate the lowliest automation script to a maintainable, polished application. You'll learn how to use free, open source parsers to create user-friendly command-line interfaces as well as command suites. You'll see how to use defaults to keep options simple for everyday users, while giving advanced users options for more complex tasks. There's no reason why a command-line application should lack documentation, whether it's part of a help command or a man page; you'll find out when and how to use both. Your journey from command-line novice to pro ends with a look at valuable approaches to testing your apps, and includes some fun techniques for outside-the-box, colorful interfaces that will delight your users. With Ruby, the command line is not dead. Long live the command line.

#### **A Common-Sense Guide to Data Structures and Algorithms "O'Reilly Media, Inc."**

Don't accept the compromise between fast and beautiful: you can have it all. Phoenix creator Chris McCord, Elixir creator Jose Valim, and award-winning author Bruce Tate walk you through building an application that's fast and reliable. At every step, you'll learn from the Phoenix creators not just what to do, but why. Packed with insider insights and completely updated for Phoenix 1.3, this definitive guide will be your constant companion in your journey from Phoenix novice to expert, as you build the next generation of web applications. Phoenix is the long-awaited web framework based on Elixir, the highly concurrent language that combines a beautiful syntax with rich metaprogramming. The best way to learn Phoenix is to code, and you'll get to attack some interesting problems. Start working with controllers, views, and templates within the first few pages. Build an in-memory context, and then back it with an Ecto database layer, complete with changesets and constraints that keep readers informed and your database integrity intact. Craft your own interactive application based on the channels API for the real-time applications that this ecosystem made famous. Write your own authentication plugs, and use the OTP layer for supervised services. Organize code with modular umbrella projects. This edition is fully updated for Phoenix 1.3, Elixir 1.3, and Ecto 2.1, with a

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new chapter on using Channel Presence to find out who's connected, even on a distributed application. Use the new generators and the new ExUnit features to organize tests and make Ecto tests concurrent. This is a book by developers and for developers, and we know how to help you ramp up quickly. Any book can tell you what to do. When you've finished this one, you'll also know why to do it. What You Need: To work through this book, you will need a computer capable of running Erlang 18 or higher, Elixir 1.3 or higher, Phoenix 1.3 or higher, and Ecto 2.1 or higher. A rudimentary knowledge of Elixir is also highly recommended.