Go Book

Wilbert V. Awdry,W. Awdry,Elizabeth Terrill

Learning Go Jon Bodner,2021-03-02 Go is rapidly becoming the preferred language for building web services. While there are plenty of tutorials available that teach Go's syntax to developers with experience in other programming languages, tutorials aren't enough. They don't teach Go's idioms, so developers end up recreating patterns that don't make sense in a Go context. This practical guide provides the essential background you need to write clear and idiomatic Go. No matter your level of experience, you'll learn how to think like a Go developer. Author Jon Bodner introduces the design patterns experienced Go developers have adopted and explores the rationale for using them. You'll also get a preview of Go's upcoming generics support and how it fits into the language. Learn how to write idiomatic code in Go and design a Go project Understand the reasons for the design decisions in Go Set up a Go development environment for a solo developer or team Learn how and when to use reflection, unsafe, and cgo Discover how Go's features allow the language to run efficiently Know which Go features you should use sparingly or not at all

The Go Programming Language Alan A. A. Donovan,Brian W. Kernighan,2015-11-16 The Go Programming Language is the authoritative resource for any programmer who wants to learn Go. It shows how to write clear and idiomatic Go to solve real-world problems. The book does not assume prior knowledge of Go nor experience with any specific language, so you'll find it accessible whether you're most comfortable with JavaScript, Ruby, Python, Java, or C++. The first chapter is a tutorial on the basic concepts of Go, introduced through programs for file I/O and text processing, simple graphics, and web clients and servers. Early chapters cover the structural elements of Go programs: syntax, control flow, data types, and the organization of a program into packages, files, and functions. The examples illustrate many packages from the standard library and show how to create new ones of your own. Later chapters explain the package mechanism in more detail, and how to build, test, and maintain projects using the go tool. The chapters on methods and interfaces introduce Go's unconventional approach to object-oriented programming, in which methods can be declared on any type and interfaces are implicitly satisfied. They explain the key principles of encapsulation, composition, and substitutability using realistic examples. Two chapters on concurrency present in-depth approaches to this increasingly important topic. The first, which covers the basic mechanisms of goroutines and channels, illustrates the style known as communicating sequential processes for which Go is renowned. The second covers more traditional aspects of concurrency with shared variables. These chapters provide a solid foundation for programmers encountering concurrency for the first time. The final two chapters explore lower-level features of Go. One covers the art of metaprogramming using reflection. The other shows how to use the unsafe package to step outside the type system for special situations, and how to use the cgo tool to create Go bindings for C libraries. The book features hundreds of interesting and practical examples of well-written Go code that cover the whole language, its most important packages, and a wide range of applications. Each chapter has exercises to test your understanding and explore extensions and alternatives. Source code is freely available for download from http://gopl.io/ and may be conveniently fetched, built, and installed using the go get command.

Reading Magic Mem Fox,2023-12 In this modern classic, bestselling author and educator Mem Fox explores the power and impact that reading aloud to our children can have-on literacy, development, confidence and connection. She explains the benefits and processes of reading, offers practical guidance and tackles enduring controversies from phonics to television.

Concurrency in Go Katherine Cox-Buday,2017-07-19 Concurrency can be notoriously difficult to get right, but fortunately, the Go open source programming language makes working with concurrency tractable and even easy. If you're a developer familiar with Go, this practical book demonstrates best practices and patterns to help you incorporate concurrency into your systems. Author Katherine Cox-Buday takes you step-by-step through the process. You'll understand how Go chooses to model concurrency, what issues arise from this model, and how you can compose primitives within this model to solve problems. Learn the skills and tooling you need to confidently write and implement concurrent systems of any size. Understand how Go addresses fundamental

problems that make concurrency difficult to do correctly Learn the key differences between concurrency and parallelism Dig into the syntax of Go's memory synchronization primitives Form patterns with these primitives to write maintainable concurrent code Compose patterns into a series of practices that enable you to write large, distributed systems that scale Learn the sophistication behind goroutines and how Go's runtime stitches everything together

Programming in Go Mark Summerfield,2012 A valuable programming reference provides a complete introduction to the Go programming language, covering all of Go's clean and easy to understand syntax and its built-in arrays, maps, slices and Unicode strings. Original.

Go, Dog. Go! P.D. Eastman,2015-08-25 A beloved Bright and Early Board Book by P. D. Eastman, now in a larger size! A sturdy board book edition of P. D. Eastman's Go, Dog. Go!, now available in a bigger size perfect for babies and toddlers! This abridged version of the classic Beginner Book features red dogs, blue dogs, big dogs, little dogs—all kinds of wonderful dogs—riding bicycles, scooters, skis, and roller skates and driving all sorts of vehicles on their way to a big dog party held on top of a tree! A perfect gift for baby showers, birthdays, and happy occasions of all kinds, it will leave dog lovers howling with delight!

For the Love of Go John Arundel,2021-09-07 'For the Love of Go' is a book introducing the Go programming language, suitable for complete beginners, as well as those with experience programming in other languages. This completely revised and updated edition includes the four mini-books previously released as 'Fundamentals', 'Data', 'Behaviour', and 'Control', plus for the first time complete solutions (with tests) to all the coding challenges in the book. Throughout the book we'll be working together to develop a fun and useful project in Go: an online bookstore called Happy Fun Books! Each chapter introduces a new feature or concept, and sets you some goals to achieve, with complete, step-by-step explanations of how to solve them, and full code listings with accompanying tests. There are 24 chapters, and 215 pages (depending on the screen size of your ebook reader).

The Second Book of Go Richard Bozulich,1998 The Second Book Of Go takes the reader who has learned the rules and rudiments of strategy and introduces him or her to the fundamental ideas required to get to the 12 kyu level.

Go Baby Go Marilyn Janovitz,2011-09-01 Praise for Baby Baby Baby! Reflects babies' everyday activities with verve and joy. —Booklist In this companion book to Baby Baby Baby!, fidgety baby is back and ventures outdoors for fun with her two favorite pets. Baby's jumping high Baby's jumping low Baby's flying in the air Go – Go – Go! Entertaining and lively text coupled with adorable and engaging art by author/illustrator Marilyn Janovitz makes this the perfect book for babies and the person who reads to them! Baby's jumping high, Baby's bouncing low Baby's flying in the air Go Go Go!

Distributed Services with Go Travis Jeffery,2021-03-11 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+

<u>Go in Action</u> Erik St. Martin,William Kennedy,Brian Ketelsen,2015-11-04 Summary Go in Action introduces the Go language, guiding you from inquisitive developer to Go guru. The book begins by introducing the unique features and concepts of Go. Then, you'll get hands-on experience writing real-world applications including websites and network servers, as well as techniques to manipulate and convert data at speeds that will make your friends jealous. Purchase of the print book includes a free eBook in PDF, Kindle, and ePub formats from Manning Publications. About the Technology Application development can be tricky enough even when you aren't dealing with complex systems programming problems like web-scale concurrency and real-time performance. While it's possible to solve these common issues with additional tools and frameworks, Go handles them right out of the box, making for a more natural and productive coding experience. Developed at Google, Go powers nimble startups as well as big enterprises—companies that rely on high-performing services in their infrastructure. About the Book Go in Action is for any intermediate-level developer who has experience with other programming languages and wants a jump-start in learning Go or a more thorough understanding of the language and its internals. This book provides an intensive, comprehensive, and idiomatic view of Go. It focuses on the specification and implementation of the language, including topics like language syntax, Go's type system, concurrency, channels, and testing. What's Inside Language specification and implementation Go's type system Internals of Go's data structures Testing and benchmarking About the Reader This book assumes you're a working developer proficient with another language like Java, Ruby, Python, C#, or C++. About the Authors William Kennedy is a seasoned software developer and author of the blog GoingGo.Net. Brian Ketelsen and Erik St. Martin are the organizers of GopherCon and coauthors of the Go-based Skynet framework. Table of Contents Introducing Go Go quick-start Packaging and tooling Arrays, slices, and maps Go's type system Concurrency Concurrency patterns Standard library Testing and benchmarking

Go Web Programming Sau Sheong Chang,2016-07-05 Summary Go Web Programming teaches you how to build scalable, high-performance web applications in Go using modern design principles. Purchase of the print book includes a free eBook in PDF, Kindle, and ePub formats from Manning Publications. About the Technology The Go language handles the demands of scalable, high-performance web applications by providing clean and fast compiled code, garbage collection, a simple concurrency model, and a fantastic standard library. It's perfect for writing microservices or building scalable, maintainable systems. About the Book Go Web Programming teaches you how to build web applications in Go using modern design principles. You'll learn how to implement the dependency injection design pattern for writing test doubles, use concurrency in web applications, and create and consume JSON and XML in web services. Along the way, you'll discover how to minimize your dependence on external frameworks, and you'll pick up valuable productivity techniques for testing and deploying your applications. What's Inside Basics Testing and benchmarking Using concurrency Deploying to standalone servers, PaaS, and Docker Dozens of tips, tricks, and techniques About the Reader This book assumes you're familiar with Go language basics and the general concepts of web development. About the Author Sau Sheong Chang is Managing Director of Digital Technology at Singapore Power and an active contributor to the Ruby and Go communities. Table of Contents PART 1 GO AND WEB APPLICATIONS Go and web applications Go ChitChat PART 2 BASIC WEB APPLICATIONS Handling requests Processing requests Displaying content Storing data PART 3 BEING REAL Go web services Testing your application Leveraging Go concurrency Deploying Go

Before I Go Colleen Oakley,2015-01-06 A People and US Weekly Pick "An impressive feat...an immensely entertaining, moving, and believable read" (Atlanta Journal-Constitution), this debut novel in the bestselling tradition of P.S. I Love You revolves around a young woman with breast cancer who undertakes a mission to find a new wife for her husband before she passes away. Twenty-seven-year-old Daisy already beat breast cancer four years ago. How can this be happening

to her again? On the eve of what was supposed to be a triumphant "Cancerversary" with her husband Jack to celebrate four years of being cancer-free, Daisy suffers a devastating blow: her doctor tells her that the cancer is back, but this time it's an aggressive stage four diagnosis. She may have as few as four months left to live. Death is a frightening prospect—but not because she's afraid for herself. She's terrified of what will happen to her brilliant but otherwise charmingly helpless husband when she's no longer there to take care of him. It's this fear that keeps her up at night, until she stumbles on the solution: she has to find him another wife. With a singular determination, Daisy scouts local parks and coffee shops and online dating sites looking for Jack's perfect match. But the further she gets on her quest, the more she questions the sanity of her plan. As the thought of her husband with another woman becomes all too real, Daisy's forced to decide what's more important in the short amount of time she has left: her husband's happiness—or her own?

Beginning Rust Programming Ric Messier,2021-03-09 Quickly learn the ropes with the Rust programming language using this practical, step-by-step guide In Beginning Rust Programming, accomplished programmer and author Ric Messier delivers a highly practical, real-world guide to coding with Rust. Avoiding dry, theoretical content and "Hello, world"-type tutorials of questionable utility, the book dives immediately into functional Rust programming that takes advantage of the language's blazing speed and memory efficiency. Designed from the ground up to give you a running start to using the multiparadigm system programming language, this book will teach you to: Solve real-world computer science problems of practical importance Use Rust's rich type system and ownership model to guarantee memory-safety and thread-safety Integrate Rust with other programming languages and use it for embedded devices Perfect for programmers with some experience in other languages, like C or C++, Beginning Rust Programming is also a great pick for students new to programming and seeking a user-friendly and robust language with which to start their coding career.

Go Ch'i-hun Cho,2018-11-13 Go is a strategy game played throughout eastern Asian for thousands of years. This introduction to the game presents rules, tactics, and strategies.

Let's Go Play ,2021-02-25 Inclusive coloring images introducing 15 pieces of adaptive equipment or tools children may use to navigate their days

Where Hands Go Krystaelynne Sanders Diggs,2021-07-11 Where Hands Go is the brand new book from the Kids Again Foundation designed to teach children when it is all right to be touched, and by who, and when it is wrong. Handsomely illustrated and thoughtfully written, this is a must read for every family with young children.

Go Photo! Alice Proujansky,2016 Featuring fun and inspiring photo activities for everyone. A playful book with step-by-step illustrated instructions for each activity. Provides the tools, tips, and motivation to kick-start creativity. Go Photo! features 23 hands-on, creative photography activities, indoors or outdoors, from a half-hour to a whole day, and whether alone or with friends, family, or an unsuspecting pet, these are photo activities for all occasions. Some don't even require a camera! Each project includes a series of pictures and handy tips to help guide you step-by-step, building visual language and encouraging creativity as you go. Accessible, fun, and practical, the activities in this book have been brought together to engage kids in the fun and wonderful world of photography.--Page 4 of cover.

Go, Train, Go! Wilbert V. Awdry,W. Awdry,Elizabeth Terrill,2005 Easy-to-read, lyrical text tells how cautious Thomas gives a ride to a judge who is in a big hurry to get to a train show.

Watch Me Go! Rebecca Young,2009 Identifies how various vehicles such as cars, trucks, trains, boats and fire engines move, in a text with illustrations that give the illusion of movement.

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thermistor | IOPSpark This experiment, for advanced level students, shows that the current through a thermistor increases with temperature, as more charge carriers become available. Physics ISA Thermistor generalised Paper 1 guide Lab Technique and Measurments. 10. Measure the temperature of the hot tap water in Celsius to one degree of uncertainty. Record the measurement in Data Table 2. A-level Physics Teacher notes Unit 06T (h) method of adjusting the current through the thermistor to remain within the range of the ammeter: either dial on labpack or potential divider. (i). An investigation of the stability of thermistors by SD Wood · 1978 · Cited by 70 — The resistances of the 100 fl standard resistors were checked frequently by measuring them against the 1 kfl standard resistor. Just before the experiment ended ... thermistor - NI Community - National Instruments Dec 22, 2008 — A thermistor is a resistor. It has no reference voltage. The

resistance of the thermistor changes with temperature. Thus, if you measure the ... The effects of thermistor linearization techniques on the T ... by SB Stanković · 2012 · Cited by 26 — Current characterization methods including the well-known T-history method depend on accurate temperature measurements. This paper investigates the impact of ...

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