

The Go Programming Language

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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 gopl.io and may be conveniently fetched built and installed using the go get command

go programming language you may have heard in the last few years about a new programming language that originated from within google called go or golang as a searchable term for search engines through this book we will try to identify this language its advantages disadvantages and what makes it different from others the first chapter of this book will be a verbal lesson only focusing on the points of difference of language with the rest of the languages and is directed to those with some programming background with the rest of the languages but the rest of the lessons will be directed to beginners

you are about to learn how to build simple reliable and efficient software with golang programming language if you are looking to add a programming language to your skillset it makes sense to make golang or simply go your programming language of choice developed by engineers at google you can rest assured that just like google go delivers much more than you can imagine in making the software development process easy efficient reliable scalable fast and simple developed with the idea of

resolving the inadequacies that come with c programming language you can be assured that go is just as powerful as the most popular programming languages if not more powerful and won't limit you as to what you can do with a rich standard library dynamic typing capability garbage collection type safety and many other advanced built-in types such as key-value maps go will amaze you as to what you can do with it so what makes go programming special compared to programming in other languages how do you get started with go how can you compose reliable applications using go's high-power functions how can you create and initialize maps with go and how to effectively use go programming for doing projects if you have any of these and other related questions this book is for you so keep reading as it covers everything about golang from a-z using simple language that you will understand and apply with ease inside this book you will learn the basics of go programming language including what it is how it works how it was developed and why you should consider it how to write your first program with go how to write command-line arguments find duplicate lines create animated gifs fetch a url and a web page by url using go the ins and outs of go's program structure including go assignment operators the types of declaration and everything about packages and files the basic data types integers floating-point numbers complex type numbers booleans interpreted string literals strings with utf-8 characters and constants in go everything you need to know about composite type and numeric constant how to create and initialize maps and important points the ins and outs of struct and parsing templates in golang the ins and outs of functions in golang including how to call a function the different function arguments recursion anonymous functions defer and recover an understanding of methods the different types of embedding and encapsulation some references to help you with go programming and much more even if you've never come across golang before this book's beginner-friendly approach will open your mind to the endless sea of possibilities in the world of go programming it is designed for software programmers with a need to learn go programming from scratch it does not make any assumptions that you have prior knowledge of go or any specific language so you will find it comprehensive irrespective of your skills level

learn golang essentials in a weekend go is one of the most powerful and yet the simplest modern programming languages we go through all important features of the modern go programming language as of 1-18 and 1-19-2022 including generics why go go is a simple easy to learn and use beginner-friendly high-level programming language go is suitable for low-level systems programming traditionally done by low-level languages like c go is one of the most popular languages in modern services and application development go is one of the most widely used cli application languages for system administration and network management go is fun although the book is

written as a reference you can read it more or less from beginning to end and you should be able to get the overall picture of the go language but not necessarily all the gory details if you have some prior experience with programming in go or other similar c style languages the book covers go toolchain workspaces modules go program execution model packages variable constant declarations builtin types builtin functions structs interfaces generic types functions methods generic functions expressions and statements goroutines the book also includes a bonus chapter on generics for people who are new to programming with the parameterized types generics brings the power of the modern type system to the go programming language you won't be able to program effectively in go without fully utilizing generics moving forward order your copy today and learn go this weekend

go programming in easy steps has an easy to follow style that will appeal to anyone who wants to begin coding computer programs with google's go programming language the code in the listed steps within the book is color coded making it easier for beginners to grasp you need have no previous knowledge of any computer programming language so it's ideal for the newcomer go programming in easy steps instructs you how to write code to create your own computer programs it contains separate chapters demonstrating how to store information in data structures how to control program flow using control structures and how to create reusable blocks of code in program functions there are complete step by step example programs that demonstrate each aspect of coding together with screenshots that illustrate the actual output when each program is executed go programming in easy steps begins by explaining how to easily create a programming environment on your own computer so you can quickly begin to create your own working programs by copying the book's examples after demonstrating the essential building blocks of computer programming it describes how to use data abstraction for object oriented programming and demonstrates how to code goroutines and channels for concurrency in your programs table of contents 1 get started 2 store values 3 perform operations 4 control flow 5 produce functions 6 build structures 7 create arrays 8 harness time 9 manage data 10 handle input 11 employ concurrency 12 request responses

learn golang programming by reading this book go is one of the most popular programming languages created by google go is much simpler than most other modern programming languages such as java or c it is easier to learn it is easier to use and it is more fun to use if you are just starting with programming then go is the perfect language to learn programming with go is a backend programming language and it is different from other popular dynamic languages like python and javascript it

requires more discipline it will make you a better programmer once you are comfortable with go you can more easily learn other programming languages the art of go basics starts from the absolute basics and moves on to more advanced topics although it is an introductory book you will gain sufficient knowledge after reading this book that you can venture into a journey of programming in go on your own if you are a seasoned developer then it will provide a good introduction to idiomatic usages of go in broad contexts who is this book for anyone who wants to know what programming is and how the code is written anyone who has tried to learn programming and given up because it was too hard anyone who has some experience in programming and who wants to learn the go language the art of go basics is organized into a series of small lessons each lesson starts with simple example programs and it emphasizes code reading rather than premature writing you will learn basics of coding and some intricacies of go just by reading each lesson the book includes some optional exercises and it ends with a few final projects the art of go basics covers the following topics as of version go 1.16 among other things the basic structure of go programs basic constructs of the go programming language such as expressions and statements primitive types slices maps and functions go structs interfaces and methods pointers value semantics vs reference semantics value receivers vs pointer receivers concurrent programming with goroutines and channels simple network programming over tcp simple programming using the net standard package go build tools go modules if you are just starting to learn programming then learn go learn programming with go the art of go basics will guide you through your first steps in the wonderful world of programming get this book now and start learning programming in go today

the go programming language phrasebook essential go code and idioms for all facets of the development process this guide gives you the code phrases you need to quickly and effectively complete a wide variety of projects with go today's most exciting new programming language tested easy to adapt code examples illuminate every step of go development helping you write highly scalable concurrent software you'll master go specific idioms for working with strings collections arrays error handling goroutines slices maps channels numbers dates times files networking web apps the runtime and more concise and accessible easy to carry and easy to use ditch all those bulky books for one portable pocket guide flexible and functional packed with more than 100 customizable code snippets quickly create solid go code to solve just about any problem register your book at informit.com register for convenient access to downloads updates and corrections as they become available

this book provides the reader with a comprehensive overview of the new open source

programming language go in its first stable and maintained release go 1 from google the language is devised with java c like syntax so as to feel familiar to the bulk of programmers today but go code is much cleaner and simpler to read thus increasing the productivity of developers you will see how go simplifies programming with slices maps structs and interfaces incorporates functional programming makes error handling easy and secure simplifies concurrent and parallel programming with goroutines and channels and you will learn how to make use of gos excellent standard library program go the idiomatic way using patterns and best practices in over 225 working examples and 135 exercises this book focuses on the aspects that the reader needs to take part in the coming software revolution using go

this guide is an exploration of the go programming language version 1.6 it begins by explaining to the user about the go programming language so that they can learn the purposes for which it can be used as well as where it originated from go 1.6 supports a feature known as concurrent programming in which several tasks can be carried out simultaneously this book guides you on how to fetch urls concurrently in go 1.6 in this case you will learn how to fetch more than one url at the same time in go programming language the http 2 protocol which is now supported in go programming language is explored you will learn how to create a http 2 server in go programming and establish a connection to it from the go client template blocks which are very useful when programming in go programming language have been explored in detail thus you will learn how to work with them the feature known as language matching in go is also examined the process of sorting has been advanced in go 1.6 thus you will learn the new techniques which are employed the following topics are discussed overview fetching urls concurrently http 2 and go template blocks language matching sorting package reflect tools

this book teaches go programming language go was originally designed at google in 2007 go is a fast and lightweight programming language it has a quicker compilation time compared to c c go has automatic garbage collector that frees up memory when it is no longer needed go is a statically typed language that is errors can be caught at compile time rather than at runtime go was designed to write programs for networking and cloud based or server side applications go has cross platform support property it can be compiled to run on many platforms like windows linux mac and raspberry pi etc the book is neatly written and includes sufficient number of examples author of the book uses his years of teaching experience to serve the topics of go programming in a clean and understandable manner

go programming in easy steps has an easy to follow style that will appeal to anyone

who wants to begin coding computer programs with google's go programming language the code in the listed steps within the book is color coded making it easier for beginners to grasp you need have no previous knowledge of any computer programming language so it's ideal for the newcomer go programming in easy steps instructs you how to write code to create your own computer programs it contains separate chapters demonstrating how to store information in data structures how to control program flow using control structures and how to create reusable blocks of code in program functions there are complete step by step example programs that demonstrate each aspect of coding together with screenshots that illustrate the actual output when each program is executed go programming in easy steps begins by explaining how to easily create a programming environment on your own computer so you can quickly begin to create your own working programs by copying the book's examples after demonstrating the essential building blocks of computer programming it describes how to use data abstraction for object oriented programming and demonstrates how to code goroutines and channels for concurrency in your programs

dive into key topics in network architecture implemented with the google backed open source go programming language networking topics such as data serialization application level protocols character sets and encodings are discussed and demonstrated in go this book has been updated to the go version 1.18 which includes modules generics and fuzzing along with updated and additional examples beyond the fundamentals network programming with go second edition covers key networking and security issues such as http protocol changes validation and templates remote procedure call rpc and rest comparison and more additionally authors ronald petty and jan newmarch guide you in building and connecting to a complete web server based on go along the way use of a go web toolkit gorilla will be employed this book can serve as both an essential learning guide and reference on networking concepts and implementation in go free source code is available on github for this book under creative commons open source license what you will learn perform network programming with go including json and rpc understand gorilla the golang web toolkit and how to use it implement a microservice architecture with go leverage go features such as generics fuzzing master syscalls and how to employ them with go who this book is for anyone interested in learning networking concepts implemented in modern go basic knowledge in go is assumed however the content and examples in this book are approachable with modest development experience in other languages

ready set program with go now is the perfect time to learn the go programming

language it's one of the most in demand languages among tech recruiters and developers love its simplicity and power go programming language for dummies is an easy way to add this top job skill to your toolkit written for novice and experienced coders alike this book traverses basic syntax writing functions organizing data building packages and interfacing with apis go or golang as it's also known has proven to be a strong choice for developers creating applications for the cloud based world we live in this book will put you on the path to using the language that's created some of today's leading web applications so you can steer your career where you want to go learn how go works and start writing programs and modules install and implement the most powerful third party go packages use go in conjunction with web services and mysql databases keep your codebase organized and use go to structure data with this book you can join the growing numbers of developers using go to create 21st century solutions step inside to take start writing code that puts data in users hands

go programming in easy steps 2nd edition is updated to cover the latest version of golang and first illustrates the golang programming basics with variables operators flow control and functions before moving on to demonstrate object oriented programming oop with golang this book then shows how golang can handle user input plus read and write files on your own system the examples in go programming in easy steps 2nd edition also demonstrate concurrent programming with goroutines for speed finally the book illustrates how to create and interact with a golang web server on your own system go programming in easy steps 2nd edition has an easy to follow style that will appeal to anyone who wants begin programming in golang programmers looking to extend their skillset students who are studying programming at school or college those seeking a career in software development this book makes no assumption that you have previous knowledge of any programming language so is suitable for a beginner or a programming guru

go programming for beginners master go from scratch with easy to follow steps learn go from the ground up with clear instructions practical examples and expert guidance perfect for aspiring developers are you ready to dive into one of the most powerful and in demand programming languages of the modern era go programming for beginners is your ultimate beginner's guide to learning the go programming language from the ground up even if you've never written a single line of code before this book makes it easy to understand complex concepts with clear step by step instructions real world examples and expert insights whether you're looking to launch a new career expand your skills or build high performance applications this is the perfect starting point what you'll learn inside the basics made simple understand go's

elegant syntax variables data types loops and functions with easy to digest chapters that make learning feel effortless hands on programming each chapter includes go programming language examples that you can practice immediately because the best way to learn is by doing real world use cases discover what the go programming language is used for including backend development cloud computing apis and more expert tips and guidance avoid beginner pitfalls with curated tips and best practices from seasoned go developers a strong foundation for the future whether you're aiming for backend cloud native or systems programming this book gives you the solid go programming language tutorial foundation you need why learn the go programming language originally developed at google go also known as golang is trusted by companies like uber dropbox and netflix it's fast simple and perfect for building scalable software if you've ever wondered what programming language google uses for efficient and powerful systems this is it with its readable syntax and built in concurrency model go is a good programming language for beginners that still scales to expert level development whether you're a student hobbyist or professional this book will help you learn golang fast and effectively who is this book for new coders ready to learn their first language developers transitioning from python java or c students looking for a go programming language course in book form anyone curious about programming in a google backed language with a bright future bonus tools and resources included you'll also get access to recommended tools online compilers and the best go programming language documentation to continue your journey beyond the book start your programming journey with confidence you don't need to be a tech wizard to master go you just need the right guide and this is it go programming for beginners makes learning fun approachable and practical build your first go programs understand the logic behind the language lay the groundwork for advanced development the future of programming is here master it one line of go at a time scroll up and grab your copy of go programming for beginners today

elevate your programming skills with go programming language build fast scalable applications this essential guide is perfect for developers engineers and tech enthusiasts eager to learn how to leverage go golang to create high performance systems that can handle the demands of modern applications in this comprehensive book you will explore introduction to go begin with an overview of the go programming language its design philosophy and why it stands out in the world of software development understand its simplicity and efficiency making it an ideal choice for both beginners and experienced programmers building fast applications learn how to write clean efficient code that maximizes performance discover go's unique features such as goroutines and channels that facilitate easy concurrency

allowing your applications to run multiple tasks simultaneously without complex threading issues scalability techniques dive into best practices for designing scalable applications understand how go's built in garbage collection and memory management contribute to creating systems that can grow with user demand while maintaining speed and reliability real world projects engage with hands on projects that guide you through building real world applications from web servers to command line tools you'll gain practical experience that prepares you for challenges in the tech industry deployment strategies explore effective methods for deploying your go applications in various environments learn about containerization with docker and orchestration with kubernetes to ensure your apps are robust and easy to manage future trends in go development stay ahead of the curve by exploring the latest trends in go programming understand how emerging technologies are shaping the future of software development and how you can adapt your skills accordingly whether you're a newcomer to programming or an experienced developer looking to expand your toolkit go programming language is your ultimate resource for mastering this powerful language don't miss out on the opportunity to enhance your coding capabilities grab your copy today and start building fast scalable applications

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perfect for beginners familiar with programming basics this hands on guide provides an easy introduction to go the general purpose programming language from google author caleb doxsey covers the language s core features with step by step instructions and exercises in each chapter to help you practice what you learn go is a general purpose programming language with a clean syntax and advanced features including concurrency this book provides the one on one support you need to get started with the language with short easily digestible chapters that build on one another by the time you finish this book not only will you be able to write real go programs you ll be ready to tackle advanced techniques jump into go basics including data types variables and control structures learn complex types such as slices functions structs and interfaces explore go s core library and learn how to create your own package write tests for your code by using the language s go test program learn how to run programs concurrently with goroutines and channels get suggestions to help you master the craft of programming

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