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The Ballerina language has come a long way with significant improvements since the 1.0 release in

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2019. The latest Swan Lake release further simplifies building and deploying cloud native apps.

Ballerina Swan Lake: 10 Compelling Language Characteristics for Cloud Native Programming

Tidelift, the leading provider of solutions for managing the open source software behind modern applications, announced today that it has joined the Amazon Web Services (AWS) Partner Network (APN) ...

Tidelift Joins AWS Partner Network Global Startup Program to Provide Application Development Teams a Comprehensive Way to Manage Open Source on AWS

So if you decide to jump into this fully

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running train it's a perfect time. There is a wide range of affordable online courses, helpful tutorials, engaging youtube blogs.

“I Want to Learn Programming but I Don't Know where to Start”: Your First Steps in Becoming a Programmer
Profit Singularity is an online training program that helps users generate passive income with affiliate marketing through YouTube ads. According to its official website, this program helps people ...

Profit Singularity Reviews and Bonus (Real User) I Have Bought The Program

The Community Development Block Grant (CDBG) program is opening up

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the application process for community improvement projects from Weld County municipalities starting on Oct. 1, with a main goal ...

Community improvement project applications to open Oct. 1 for Weld County's CDBG program

The Unidas program, affiliated with the Women's Foundation of Southern Arizona, aims to build leadership skills among girls, young women and gender-expansive teens, who also learn grant-writing skills ...

Unidas: An after-school program that helps teens advocate for social causes and change

Applying to college and figuring out how to pay for it can be tough. These

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These websites help students find college scholarships and get free college application advice

Guarda Wallet, now a stalwart of the non-custodial cryptocurrency wallet space, has expanded the scope of its user acquisition efforts with a new, token-based referrals initiative.

Guarda Wallet launches crypto rewards program for referrals

The Bedford-based biotech will use the capital from the National Eye Institute of the National Institutes of Health to advance its gene therapy that treats age-related macular degeneration. Earlier ...

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Nanoscope Awarded \$1.5 Million Grant for Eyesight Gene Therapy as it 'Takes Steps to Go Public'

Art student Jess Scheider was on a winter trip to City of Rocks National Reserve near Almo hoping to get some inspiration for her final art show before graduating from ...

Artsy in the park: Artists in residence program gives up-and-coming artists opportunity to shine

The Program Allocations Board is now accepting applications for the Student At-Large seat for the 2021-22 school year. Applications are open to all undergraduate students. Apply by Sept. 17.

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Program Allocations Board Student At-
Large Position Now Open

Card issuing API platform Lithic
announced today a new Integration
Partner Program to help customers
bring card products to market faster
and easier. Through this integration,
fintech companies ...

Lithic Launches Partner Program To
Help Customers Bring Card Products
To Market Faster

As fire ripped through the Mendocino
County hills the summer of 2018,
burning a vast expanse of forest and
turning buildings to ash, a curious
thing was happening at Eddie Ranch,
a sprawling property ...

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Burned trees and billions in cash: How
a California climate program lets
companies keep polluting

Photo by Patti Singer/Minority

Reporter Media Group Residents in
eight city neighborhoods have more
access to the bike share program

HOPR — at least for ... and that bike
share is one of many options ...

HOPR Bike-Share Program Adds
Eight Locations Throughout City
Markets can fall, and economies can
crumble. And though jobs offer some
level of security where someone has a
paycheck at the end of the month, at
times pay cuts come or one loses their
job. In times ...

Yuan Pay Group Review: Is This

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Trading App Safe To Use?

The Biden administration announced Monday it will begin accepting applications for its expanded Central American Minors (CAM) program, which allows adults in the United States to petition to legally ...

Biden expands program to legally bring Central American minors to US
Schenectady County is hosting two events for landlords and tenants who need assistance applying for New York State's Emergency Rental Assistance Program (ERAP) ...

Schenectady County is holding In-Person Application Assistance Events for NYS ERAP

The organization running New

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Hampshire's "education freedom account" program, the Children's Scholarship Fund, is officially partnering with a national company to oversee how it's spent.

N.H.'s 'Education Freedom Accounts' Program Partners With National Firm To Administer Money

Today, SecureLink, a leader in critical access management, has established PartnerLink, its enhanced partner program designed to build and grow valuable cybersecurity solutions for customers.

A valuable programming reference provides a complete introduction to the Go programming language, covering

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all of Go's clean and easy to understand syntax and its built-in arrays, maps, slices and Unicode strings. Original.

Your Hands-On Guide to Go, the Revolutionary New Language Designed for Concurrency, Multicore Hardware, and Programmer Convenience Today's most exciting new programming language, Go, is designed from the ground up to help you easily leverage all the power of today's multicore hardware. With this guide, pioneering Go programmer Mark Summerfield shows how to write code that takes full advantage of Go's breakthrough features and idioms. Both a tutorial and a language reference, Programming in Go brings together all the knowledge you need to evaluate Go, think in Go, and write

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high-performance software with Go. Summerfield presents multiple idiom comparisons showing exactly how Go improves upon older languages, calling special attention to Go's key innovations. Along the way, he explains everything from the absolute basics through Go's lock-free channel-based concurrency and its flexible and unusual duck-typing type-safe approach to object-orientation. Throughout, Summerfield's approach is thoroughly practical. Each chapter offers multiple live code examples designed to encourage experimentation and help you quickly develop mastery. Wherever possible, complete programs and packages are presented to provide realistic use cases, as well as exercises. Coverage includes Quickly getting and installing Go, and building and running Go

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programs Exploring Go's syntax,
features, and extensive standard
library Programming Boolean values,
expressions, and numeric types
Creating, comparing, indexing, slicing,
and formatting strings Understanding
Go's highly efficient built-in collection
types: slices and maps Using Go as a
procedural programming language
Discovering Go's unusual and flexible
approach to object orientation
Mastering Go's unique, simple, and
natural approach to fine-grained
concurrency Reading and writing
binary, text, JSON, and XML files
Importing and using standard library
packages, custom packages, and third-
party packages Creating,
documenting, unit testing, and
benchmarking custom packages

Function literals, Monads, Lazy

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evaluation, Currying, and more About

This Book Write concise and

maintainable code with streams and

high-order functions Understand the

benefits of currying your Golang

functions Learn the most effective

design patterns for functional

programming and learn when to apply

each of them Build distributed

MapReduce solutions using Go Who

This Book Is For This book is for

Golang developers comfortable with

OOP and interested in learning how to

apply the functional paradigm to create

robust and testable apps. Prior

programming experience with Go

would be helpful, but not mandatory.

What You Will Learn Learn how to

compose reliable applications using

high-order functions Explore

techniques to eliminate side-effects

using FP techniques such as currying

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Use first-class functions to implement pure functions Understand how to implement a lambda expression in Go Compose a working application using the decorator pattern Create faster programs using lazy evaluation Use Go concurrency constructs to compose a functionality pipeline Understand category theory and what it has to do with FP In Detail

Functional programming is a popular programming paradigm that is used to simplify many tasks and will help you write flexible and succinct code. It allows you to decompose your programs into smaller, highly reusable components, without applying conceptual restraints on how the software should be modularized. This book bridges the language gap for Golang developers by showing you how to create and consume functional

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constructs in Golang. The book is divided into four modules. The first module explains the functional style of programming; pure functional programming (FP), manipulating collections, and using high-order functions. In the second module, you will learn design patterns that you can use to build FP-style applications. In the next module, you will learn FP techniques that you can use to improve your API signatures, to increase performance, and to build better Cloud-native applications. The last module delves into the underpinnings of FP with an introduction to category theory for software developers to give you a real understanding of what pure functional programming is all about, along with applicable code examples. By the end of the book, you will be adept at

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building applications the functional way. Style and approach This book takes a pragmatic approach and shows you techniques to write better functional constructs in Golang. We'll also show you how use these concepts to build robust and testable apps.

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

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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

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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

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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.

A guide to Go describes how the programming language is structured and provides examples of code that demonstrate every stage of Go development, from creating a simple program to debugging and distributing code.

Explore the fundamentals of systems programming starting from kernel API

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and filesystem to network

programming and process

communications Key Features Learn

how to write Unix and Linux system

code in Golang v1.12 Perform inter-

process communication using pipes,

message queues, shared memory,

and semaphores Explore modern Go

features such as goroutines and

channels that facilitate systems

programming Book Description

System software and applications

were largely created using low-level

languages such as C or C++. Go is a

modern language that combines

simplicity, concurrency, and

performance, making it a good

alternative for building system

applications for Linux and macOS.

This Go book introduces Unix and

systems programming to help you

understand the components the OS

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has to offer, ranging from the kernel API to the filesystem, and familiarize yourself with Go and its specifications. You'll also learn how to optimize input and output operations with files and streams of data, which are useful tools in building pseudo terminal applications. You'll gain insights into how processes communicate with each other, and learn about processes and daemon control using signals, pipes, and exit codes. This book will also enable you to understand how to use network communication using various protocols, including TCP and HTTP. As you advance, you'll focus on Go's best feature-concurrency helping you handle communication with channels and goroutines, other concurrency tools to synchronize shared resources, and the context package to write elegant applications.

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By the end of this book, you will have learned how to build concurrent system applications using Go What you will learn Explore concepts of system programming using Go and concurrency Gain insights into Golang's internals, memory models and allocation Familiarize yourself with the filesystem and IO streams in general Handle and control processes and daemons' lifetime via signals and pipes Communicate with other applications effectively using a network Use various encoding formats to serialize complex data structures Become well-versed in concurrency with channels, goroutines, and sync Use concurrency patterns to build robust and performant system applications Who this book is for If you are a developer who wants to learn system programming with Go, this

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book is for you. Although no knowledge of Unix and Linux system programming is necessary, intermediate knowledge of Go will help you understand the concepts covered in the book

Summary Get Programming with Go introduces you to the powerful Go language without confusing jargon or high-level theory. By working through 32 quick-fire lessons, you'll quickly pick up the basics of the innovative Go programming language! Purchase of the print book includes a free eBook in PDF, Kindle, and ePub formats from Manning Publications. About the Technology Go is a small programming language designed by Google to tackle big problems. Large

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For The 21st Century with people of varying levels of experience. Go offers a small, yet capable, language that can be understood and used by anyone, no matter their experience. About the Book Hobbyists, newcomers, and professionals alike can benefit from a fast, modern language; all you need is the right resource! Get Programming with Go provides a hands-on introduction to Go language fundamentals, serving as a solid foundation for your future programming projects. You'll master Go syntax, work with types and functions, and explore bigger ideas like state and concurrency, with plenty of exercises to lock in what you learn. What's inside Language concepts like slices, interfaces, pointers, and concurrency Seven capstone projects featuring spacefaring gophers, Mars

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rovers, ciphers, and simulations. All examples run in the Go Playground - no installation required! About the

Reader This book is for anyone familiar with computer programming, as well as anyone with the desire to learn. About the Author Nathan Youngman organizes the Edmonton Go meetup and is a mentor with Canada Learning Code. Roger Peppé contributes to Go and runs the Newcastle upon Tyne Go meetup.

Table of Contents Unit 0 - GETTING STARTED Get ready, get set, Go Unit 1 - IMPERATIVE PROGRAMMING A glorified calculator Loops and branches Variable scope Capstone: Ticket to Mars Unit 2 - TYPES Real numbers Whole numbers Big numbers Multilingual text Converting between types Capstone: The Vigenère cipher Unit 3 - BUILDING BLOCKS Functions

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Methods First-class functions

Capstone: Temperature tables Unit 4 -

COLLECTIONS Arrayed in splendor

Slices: Windows into arrays A bigger

slice The ever-versatile map

Capstone: A slice of life Unit 5 -

STATE AND BEHAVIOR A little

structure Go's got no class

Composition and forwarding Interfaces

Capstone: Martian animal sanctuary

Unit 6 - DOWN THE GOPHER HOLE

A few pointers Much ado about nil To

err is human Capstone: Sudoku rules

Unit 7 - CONCURRENT

PROGRAMMING Goroutines and

concurrency Concurrent state

Capstone: Life on Mars

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

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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

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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.

An insightful guide to learning the Go programming language About This Book Insightful coverage of Go programming syntax, constructs, and idioms to help you understand Go code effectively Push your Go skills, with topics such as, data types, channels, concurrency, object-oriented Go, testing, and network programming Each chapter provides working code samples that are designed to help reader quickly understand respective

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topic Who This Book Is For If you have prior exposure to programming and are interested in learning the Go programming language, this book is designed for you. It will quickly run you through the basics of programming to let you exploit a number of features offered by Go programming language. What You Will Learn Install and configure the Go development environment to quickly get started with your first program. Use the basic elements of the language including source code structure, variables, constants, and control flow primitives to quickly get started with Go Gain practical insight into the use of Go's type system including basic and composite types such as maps, slices, and structs. Use interface types and techniques such as embedding to create idiomatic object-oriented

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programs in Go. Develop effective functions that are encapsulated in well-organized package structures with support for error handling and panic recovery. Implement goroutine, channels, and other concurrency primitives to write highly-concurrent and safe Go code Write tested and benchmarked code using Go's built test tools Access OS resources by calling C libraries and interact with program environment at runtime In Detail The Go programming language has firmly established itself as a favorite for building complex and scalable system applications. Go offers a direct and practical approach to programming that let programmers write correct and predictable code using concurrency idioms and a full-featured standard library. This is a step-by-step, practical guide full of real

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world examples to help you get started with Go in no time at all. We start off by understanding the fundamentals of Go, followed by a detailed description of the Go data types, program structures and Maps. After this, you learn how to use Go concurrency idioms to avoid pitfalls and create programs that are exact in expected behavior. Next, you will be familiarized with the tools and libraries that are available in Go for writing and exercising tests, benchmarking, and code coverage. Finally, you will be able to utilize some of the most important features of GO such as, Network Programming and OS integration to build efficient applications. All the concepts are explained in a crisp and concise manner and by the end of this book; you would be able to create highly

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efficient programs that you can deploy over cloud. Style and approach The book is written to serve as a reader-friendly step-by-step guide to learning the Go programming language. Each topic is sequentially introduced to build on previous materials covered. Every concept is introduced with easy-to-follow code examples that focus on maximizing the understanding of the topic at hand.

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