

Links to Go Language Resources

Items in **red** are particularly interesting

30 August 2019

1 Books

The Go Programming Language, Donovan & Kernighan, Addison-Wesley, 2015, [9780134190440](#) (also look through the [Go release notes](#) for changes)

Get Programming with Go, Youngman & Peppe, Manning, 2018, [9781617293092](#)

Head First Go, McGavren, O'Reilly, 2019, [9781491969557](#)

Introducing Go, Doxsey, O'Reilly, 2016, [9781491941959](#)

Teach Yourself Go in 24 Hours, Ornbo, Sams, 2017, [9780672338038](#)

Go in Action, Kennedy et al, Manning, 2015, [9781617291784](#)

Go Web Programming, Chang, Manning, 2016, [9781617292569](#)

Concurrency in Go, Cox-Buday, O'Reilly, 2017, [9781491941195](#)
(advanced material)

Writing an Interpreter in Go, Ball, 2018, [9783982016115](#)

Writing a Compiler in Go, Ball, 2018, [9783982016108](#)

Let's Go! Learn to Build Professional Web Applications With Golang, 2019, ([gumroad](#))

12 Factor Applications with Docker and Go, Petric, 2018, ([leanpup](#))

API Foundations in Go, Petric, 2019, ([leanpub](#))

Production Go, Schaaf & Smith, (in development), ([leanpub](#))

2 Twitter

[@golang](#)

[@golangweekly](#)

[@gophercon](#)

[@goinggodotnet](#) (Bill Kennedy)

[@davecheney](#) (Dave Cheney)

[@golangweekly](#)

3 Websites

[Go downloads, docs, blog, FAQ](#)

[Go playground](#)

[Why Go?](#)

[Why Go? — Key advantages you may have overlooked](#)

[Dave Cheney's blog](#)

[Eli Bendersky's blog](#)

[GopherAcademy blog](#)

[Ardan Labs blog](#)

[Alex Edwards' blog](#)

[Some Liz Rice articles](#)

[Golang Weekly \(sign up for email\)](#)

[The Go Gazette \(ditto\)](#)

[Blog list](#)

[A curated list of awesome Go frameworks, libraries and software](#)

4 GopherCon

2019 [Death by 3,000 Timers](#), [Dynamically Instrumenting Go Programs](#) and [more](#)

2018 [Videos](#) and [Summaries](#) as well as [The scheduler saga](#) and [Allocator wrestling](#)

2017 [2017 talks](#) as well as [Understanding channels](#) and [Distributed computing](#)

2016 [2016 talks](#) and [Go assembler](#)

2015 [2015 talks](#)

2014 [2014 talks](#)

5 Articles

[Go at Google: Language Design in the Service of Software Engineering](#)

[Resources for new Go programmers](#)

[Rob Pike's 5 rules of programming](#)

[Less is exponentially more](#)

[Dave Cheney's Clear is better than clever](#) and [Practical Go](#) [this is a must-read!] and [High Performance Go Workshop](#)

[10 most-common mistakes](#)

[Profiling Go programs](#)

[Garbage Collection In Go : Part I and Part II](#) (part III to follow)

[Google Go code review comments](#)

[Go is on a Trajectory to Become the Next Enterprise Programming Language](#)

[Go hits the concurrency nail right on the head](#)

[Go JSON Cookbook](#)

[Fifty Shades of Go](#)

[Java to Go in-depth tutorial](#)

[Go: Best Practices for Production Environments](#)

[Building a Simple CLI Tool with Go](#)

[Writing and Optimizing Go code](#)

[Profiling & Optimizing in Go](#)

[Standard Go project layout](#)

[Allocation efficiency in high-performance Go services](#)

[How a Go Program Compiles down to Machine Code](#)

[How to ship production-grade Go](#)

[How to write bulletproof code in Go: a workflow for servers that cant fail](#)

[A debugger from scratch—part 1 and part 2](#)

[Shrink your Go binaries with this one weird trick](#)

[The Ultimate Guide to Writing Dockerfiles for Go Web-apps](#)

Idiomatic Go Resources

[The Ideas That Shaped Go](#)

[A Comprehensive Guide of Arrays and Slices in Golang](#)

[The Tale of the Missing Read Handler in Go](#)

[S3 Image Uploads via AWS-SDK with Golang](#)

[Build a Serverless API in Seconds with Go](#)

[A Cognito Protected Serverless API with Golang in Minutes](#)

[Why you should use a Go module proxy](#)

6 Videos

Be sure to search for stuff from Rob Pike, Robert Griesemer, Russ Cox, Francesc Campoy, Liz Rice, and Kavya Joshi as well as other conferences such as Golang UK, dotGo, GothamGo, etc.

[Go proverbs](#)

Understanding nil

[Twelve Go best practices](#)

Concurrency patterns in Go

[Concurrency is not parallelism](#)

[Concurrency made easy](#)

Rethinking classical concurrency patterns

[Clear is better than clever](#)

[SOLID Go design](#)

[Production-ready Go](#)

[The Robustness of Go](#)

[A Go Programmer's Guide to Secure Connections \(LondonGophers '18\) and \(GopherCon '18\)](#)

[Going Serverless \(GopherCon '18\)](#)

[Go's realtime GC](#)

[Simplicity is complicated](#)

Containers from scratch

Debuggers from scratch

The evolution of Go

Prototype your design!

A look at the criticism of Go

Closures are the generics of Go

Writing beautiful packages in Go

Moving from C to Go in the toolchain

Constant time

Go tune your memory

Optimizing Go code without a blindfold

Go as a scripting language in Linux

Channels as semaphores

Behavior of channels

The monsters inside sync.Locker

Testing: How, What, and Why

The Robustness of Go

“go test -race” Under the Hood

Writing Beautiful Packages in Go

Go Module Proxy: Life of a Query (Gophercon '19)

The Athens Project (Gophercon '19)

PKI for Gophers (Gophercon '19)

Two Go Programs, Three Different Profiling Techniques (Gophercon '19)

How I Write HTTP Web Services after Eight Years (Gophercon '19)

On the Path to Go 2 (Gophercon '19)

Generics in Go (Gophercon '19)

7 Microservices & Cloud

[Introduction to Docker](#)

[Introduction to Microservices, Docker, and Kubernetes](#)

[Intro to gRPC: A Modern Toolkit for Microservice Communication](#)

[Best Practices for \(Go\) gRPC Services](#)

[10 tips for failing badly at microservices](#)

[Microservices in the Cloud with Kubernetes and Istio \(Google I/O '18\)](#)

[Google Cloud Platform on a shoestring budget \(Google I/O '18\)](#)

[Google Cloud Platform 101 \(Google I/O '18\) and \(Cloud Next '19\)](#)

[Incrementally Adopting Istio \(Cloud Next '19\)](#)

[Istio in Production: Traffic Routing \(Cloud Next '19\)](#)

[Canary Deployments With Istio and Kubernetes Using Spinnaker \(Cloud Next '19\)](#)

[APIs, Microservices, and the Service Mesh \(Cloud Next '19\)](#)

[AWS Tutorial For Beginners](#)

[Cloud Yeti Terraform tutorials: Provision EC2 on AWS with Terraform, Terraform Remote State on Amazon S3, Multiple terraform configuration \(.tf \) files](#)

[Another Terraform tutorial: 1: AWS demo: create VPC & subnet, 2: Terraform variables, data sources, loops, 3: Terraform map and lookup function](#)

8 Web Programming

[Authentication on the Web](#)

[OAuth 2.0 and OpenID Connect \(in plain English\)](#)

[Implementing JWT based authentication in Golang](#)

[Writing Web Applications](#)

[Serving HTML with Go](#)

[Writing HTTP servers](#)

[Developing and deploying a whole website in Go](#)

[Building a modern application with a Golang API backend + a Vue.js SPA frontend](#)

[Build a web application in Go](#)

[Using context cancellation in Go](#)
[Thoughts on Go after writing 3 websites](#)
[Dont use Gos default HTTP client \(in production\)](#)
[GraphQL with Golang](#)
[Full Stack GoLang Tutorial with PostgreSQL](#)
[Gorilla web toolkit \(software\)](#)
[Nosurf \(software\)](#)

9 Database

[Go database/sql tutorial](#)
[Go Database/SQL](#)
[Design patterns in Go's database/sql package](#)
[To ORM or not to ORM](#)
[Practical Persistence in Go](#)
[SQL Database Programming in Golang \(video\)](#)
[SQLX \(software\)](#)

10 Mechanical Sympathy

[Mechanical Sympathy](#)
[Mythbusting Modern Hardware to Gain Mechanical Sympathy \(video\)](#)
[Weak vs Strong Memory Models](#)
[Memory Reordering Caught in the Act](#)
[Is Parallel Programming Hard, And, If So, What Can You Do About It?](#)
[A Tutorial Introduction to the ARM and POWER Relaxed Memory Models](#)
[ARM Architecture Reference Manual](#)