Go Language

it's just an instrument, so it will make you more effective, but it's not a major point to know.

Book: Go 101

Official Docs:

- Documentation - The Go Programming Language

Tour of Go:

- A Tour of Go

Deep dive:

- Effective Go - The Go Programming Language

Basic operators:

- Effective Go - The Go Programming Language

Functions

- Effective Go - The Go Programming Language

Array

- Effective Go - The Go Programming Language

Slice

- Effective Go - The Go Programming Language

Map

- Effective Go - The Go Programming Language

Pointers

- Effective Go - The Go Programming Language

Interfaces:

- Effective Go The Go Programming Language
- Effective Go The Go Programming Language

Go code review:

- • CodeReviewComments

Type switch:

- Effective Go - The Go Programming Language

Context:

- https://pkg.go.dev/context
- https://go.dev/blog/context
- https://www.digitalocean.com/community/tutorials/how-to-use-contexts-in-g
 o
- https://github.com/golang/go/issues/22602
- Concurrency patterns: Go Concurrency Patterns: Context The Go Programming Language
- Examples: How To Use Contexts in Go | DigitalOcean

Errors:

- Effective Go The Go Programming Language
- Working with Errors in Go 1.13 The Go Programming Language

Concurrency:

- Fifective Go The Go Programming Language
- sync package sync Go Packages
- The Go Programming Language Specification The Go Programming Language
- errgroup package golang.org/x/sync/errgroup Go Packages

- atomic package sync/atomic Go Packages
- В Разбираемся с новым sync. Мар в Go 1.9
- Go by Example: Worker Pools
- Visualizing Concurrency in Go · divan's blog

Worker pool

- https://gobyexample.com/worker-pools
- https://divan.dev/posts/go_concurrency_visualize/

Synchronisation

- https://pkq.go.dev/sync
- https://go.dev/ref/spec#Channel_types
- https://pkg.go.dev/golang.org/x/sync/errgroup
- https://pkg.go.dev/sync/atomic
- https://habr.com/ru/post/338718/

50 Go Gotchas:

- http://devs.cloudimmunity.com/gotchas-and-common-mistakes-in-go-golang/index.html#blocked_goroutines

Go proverbs

- https://go-proverbs.github.io/ A little copying is better than a little dependency.
- https://blog.softwaremill.com/redelivery-with-rabbitmq-5a32ce8269f1
- Observability and distributed tracing
- https://m.facebook.com/ciklum/videos/ciklum-speakers-corner-golang/2475 14096834663/ 45:45

SOLID

- https://dave.cheney.net/2016/08/20/solid-go-design
- https://habr.com/ru/post/348852/

<u>Packages</u>

- https://go.dev/blog/package-names
- https://dave.cheney.net/practical-go/presentations/qcon-china.html#_consider_fewer_larger_packages

Validation

github.com/go-playground/validator

Internal package

- https://go.dev/doc/go1.4#internalpackages

Go 1.20

- https://go.dev/blog/go1.20 or better https://go.dev/doc/go1.20

Data races

- https://go.dev/doc/articles/race_detector

Testina

https://martinfowler.com/articles/practical-test-pyramid.html

Go mod

- https://go.dev/ref/mod#minimal-version-selection
- https://go.dev/ref/mod

Uber style guide: https://github.com/uber-go/guide/blob/master/style.md

Go modules:

• Illusing Go Modules - The Go Programming Language

Additional reading:

- Dave Cheney | The acme of foolishness
- Latency and in memory cache: Latency need not always require scaling your Microservice (a story of an in memory cache)
- Garbage collector: Getting to Go: The Journey of Go's Garbage Collector The Go Programming Language
- Million web sockets in Go: A Million WebSockets and Go

12 factor app: The Twelve-Factor App , An illustrated guide to 12 Factor Apps