

Литература

defer

Интересное / важное:

- [Antonio Sánchez: The power of defer in Go: on entry](#)
- [Ardan Labs: William Kennedy: Understanding Defer, Panic and Recover](#)
- [Coderwall: Herman Schaaf: Measuring execution time in Go](#)
- [DOU.ua: Ярослав Характерник: Использование Defer в Go](#)
- [Go: A Documentary \(Changkun Ou\): Defer \(1.14\)](#)
- [Go 101: Goroutines, Deferred Function Calls and Panic/Recover](#)
- [Go 101: More about Deferred Function Calls](#)
- [Jeremy Bytes: Go \(golang\) defer - A Better "finally"](#)
- [Joe Shaw: Don't defer Close\(\) on writable files](#)
- [HACKER NOON: Tejas Manohar: On Golang's `defer` keyword](#)
- [Learn Go Programming: Inanc Gumus: Go Defer Simplified with Practical Visuals](#)
- [proposal: errors/errd: helper package for deferred error handlers](#)
- [Soham Kamani: Golang's "defer" Explained \(With Examples\)](#)
- [The Go Programming Language Specification: Defer statements](#)

Книги:

- **Go 101** (Tapir Liu)
 - § 29. More About Deferred Function Calls
- **Go in 24 Hours** (George Ornbo)
 - Hour 5. Using Control Flow: Using the defer statement
- **Go in Action** (William Kennedy, Brian Ketelsen, Erik St. Martin)
 - defer keyword 25, 134, 151, 209

- **Go in Practice** (Matt Butcher, Matt Farina)
 - defer block 119
 - deferred functions 99, 102–104
- **Go Recipes** (Shiju Varghese)
 - 2-5. Writing Clean-Up Code in Functions
- **Go: Design Patterns for Real-World Projects** (Vladimir Vivien, Mario Castro, Contreras Mat Ryer)
 - Chapter 5: Functions in Go: Deferring function calls (взято из **Learning Go Programming** (Vladimir Vivien))
- **Head First Go: A Brain-Friendly Guide** (Jay McGavren)
- **How To Code in Go** (Mark Bates, Cory LaNou, Tim Raymond)
 - Understanding defer in Go
- **Introducing Go: Build Reliable, Scalable Programs** (Caleb Doxsey)
 - defer, panic, and recover
- **Mastering Go** (Mihalis Tsoukalos)
 - The defer keyword
- **Programming in Go Creating Applications for the 21st Century** (Mark Summerfield)
 - 5.5. Defer, Panic, and Recover
- **The Go Bestiary: Bugs, gotchas and guidelines for go programmers** (Kenneth Grant)
- **The Go Programming Language** (Alan Donovan, Brian Kernighan)
 - 5.8. Deferred Function Calls
- **The Go Workshop: A New, Interactive Approach to Learning Go** (Delio D'Anna, Andrew Hayes, Sam Hennessy, Jeremy Leasor, Gobin Sougrakpam, and Dániel Szabó)
 - Chapter 5: Functions: defer
- **The Little Go Book** (Karl Seguin)

YouTube:

- [ProgrammingKnowledge: Go Tutorial \(Golang\) 23 - Defer Keyword in Golang](#)

- [sentdex: Defer - Go Lang Practical Programming Tutorial p.20](#)
- [The Art of Developing: Отложенные операции. Ключевое слово defer](#)

Не такое интересное / местами вредное:

- [8host.com: Amber: КАК РАБОТАЕТ DEFER В GO](#)
- [A Tour of Go: Defer](#)
- [A Tour of Go: Stacking defers](#)
- [Bleve: Deferred Cleanup, Checking Errors, and Potential Problems](#)
- [BogoToBogo: GOLANG TUTORIAL - DEFER](#)
- [Brandur Leach: Global recovery in Go with defer](#)
- [DEV Community: Lucifer Chase: What the heck is defer in golang?](#)
- [developer.com: Manoj Debnath: Error Handling with Panic, Recovery and Defer Statement in Go](#)
- [DigitalOcean: Gopher Guides: Выражения defer в Go](#)
- [EDUCBA: Priya Pedamkar: Golang defer](#)
- [Evil Inside: \[Golang\] Anonymous Function in Defer Statement](#)
- [EXLSkills: ASAP Learn Go \(GoLang\): Defer](#)
- [educative: Edpresso Team: How to use Golang defer](#)
- [GeeksForGeeks: Defer Keyword in Golang](#)
- [Go by Example: Defer](#)
- [Go Learning Source: Defer statement in Golang](#)
- [GOBITS: John Refior: Go: Defer Is Synchronous](#)
- [Golang By Example: Defer keyword in Go \(Golang\)](#)
- [Golang By Example: Multiple defer functions in Go \(Golang\)](#)
- [Golang Tutorial: Deferred Functions Calls](#)
- [GoLang Docs: Panic, defer and Recover in GoLang](#)
- [golang-101-hacks: defer](#)

- [golangbot.com: Defer](#)
- [Google Groups: golang-nuts: inaza...@google.com: "defer f.Close\(\)" - error return ignored?](#)
- [Harrison Kinsley: Defer - Golang](#)
- [Katastros: Golang defer performance loss and actual usage scenarios](#)
- [Kaustubh Desai: Learning Golang Defer, panic and recover](#)
- [Kyle Banks: When to Use Defer in Go](#)
- [Marco Franssen: The use of defer in Go](#)
- [Medium: ITNEXT: Christian Walter: The Power of Golang Keyword "defer"](#)
- [Medium: Mayank Gupta: Error Handling in Golang with Panic, Defer, and "Recover"](#)
- [Medium: Mayank Gupta: Understanding Golang's Defer function](#)
- [Medium: Андрей Шагин: Обработка ошибок в Golang с помощью Panic, Defer и Recover](#)
- [metanit.com: defer и panic](#)
- [NOP::Nuances of programming: Как работает функция Defer в Golang](#)
- [oldbloggers.com: Golang defer statement \[Best Examples 2020\]](#)
- [Quora: Mourya Venkat: How does defer in Golang work?](#)
- [Qvault.io: Lane Wagner: How to Properly Use Defer in Golang](#)
- [Packt Editorial Staff: Understanding Go Internals: defer, panic\(\) and recover\(\) functions \[Tutorial\]](#)
- [Sagar Jaybhay: CallBacks and Defer In Golang 2020](#)
- [StackOverflow: Derek: Golang Defer to act on caller / outer function?](#)
- [StackOverflow: James Shi: Is golang defer statement execute before or after return statement?](#)
- [StackOverflow: NghiaTran: Golang defer doesn't work if put after panic?](#)
- [TECHIEINDOOR: Go – defer, panic and recover in go golang](#)
- [Thomas Stringer: Handling Errors from Deferred Functions in Go](#)

- [The Go Blog: Andrew Gerrand: Defer, Panic, and Recover](#)
- [Varun Kumar: Using if condition in a defer statement](#)
- yourbasic.org/golang: Defer a function call (with return value)
- [ZetCode: Jan Bodnar: Go defer](#)
- [Блог о языке программирования Go: Эффективный Go: оператор defer](#)
- [Хабр: Xitsa: Обработка ошибок в Go: Defer, Panic и Recover](#)

defer gotchas

- [Calhoun.io: Jon Calhoun: Gotchas and Common Mistakes with Closures in Go](#)
- [KK: Difference between Value and Pointer variable in Defer in Go](#)
- [Learn Go Programming: Ivanc Gumus: 5 Gotchas of Defer in Go – Part I](#)
- [Learn Go Programming: Inanc Gumus: 5 More Gotchas of Defer in Go – Part II](#)
- [Medium: CodeX: Kelvin Benzali: What do you need to know about Golang's Defer?](#)
- [orangematter: Baron Schwartz: A Tale of Two Memory Leaks in Go](#)
- [Rob Reid: Errors and Defer](#)
- [SOCKETLOOP: Golang : Defer function inside init\(\)](#)
- [YellowDuck.be: Pieter Claerhout: Gotcha with defer in Go](#)
- [Записки программиста: Aleksander Alekseev: Некоторые подводные грабли в языке Go: Тонкости работы defer](#)

defer internals

- [Develop Paper: Deeply understand the principle of go defer](#)
- [Develop Paper: Implementation principle of golang defer](#)
- [Develop Paper: Three mechanisms of defer statement in go language](#)
- [Paschalis Tsilias: What is a defer? And how many can you run?](#)
- [Programmer Help: CaseyC1: Implementation principle of golang defer](#)

- [Programmer Think: Frozenlight777: What is the execution of defer in golang?](#)
- [Raphael Poss \(dr knz\): The Go low-level calling convention on x86-64: Exception Handling: Implementation of defer](#)
- [Medium: Vincent Blanchon: Go: How Does defer Statement Work?](#)

defer performance

- [Alexander Morozov: Defer overhead in go](#)
- [Artem Kovardin: Инлайнинг defer](#)
- [BYTES & BITES: Vincent Boisard: GO d e f e r PERFORMANCE](#)
- [Dave Cheney: Defer and cgo improvements](#)
- [DDCODE: Go defer will have performance loss, so try not to use it?](#)
- [Go 1.14 Release Notes: Runtime](#)
- [go-review: 29656: runtime: optimize defer code](#)
- [go-review: 171758: cmd/compile,runtime: allocate defer records on the stack](#)
- [go-review: 190098: cmd/compile, cmd/link, runtime: make defers low-cost through inline code and extra funcdata](#)
- [go-review: 202340: cmd/compile, cmd/link, runtime: make defers low-cost through inline code and extra funcdata](#)
- [go-review: 203481: crypto/tls: move a defer out of a loop](#)
- [golang/go: Issues: cmd/compile, runtime: a design for low-cost defers via inline code](#)
- [golang/go: Issues: cmd/compile: allocate some defers in stack frames](#)
- [golang/go: Issues: runtime: defer is slow](#)
- [dr knz \(CockroachDB\): The Go low-level calling convention on x86-64: Exception Handling: Cost of defer + recover](#)
- [Medium: i0exception: Aniruddha: Runtime overhead of using defer in go](#)
- [Paschalis Tsilias: What is a defer? And how many can you run?](#)

- [Proposal: Low-cost defers through inline code, and extra funcdata to manage the panic case \(Dan Scales, Keith Randall, and Austin Clements \(with input from many others, including Russ Cox and Cherry Zhang\)\)](#)
- [rakyll.org: Inlined defers in Go](#)
- [Reddit: r/golang: u/boooooomba: What exactly is/was the overhead of defer?](#)
- [Reddit: r/golang: u/thomassigny: Use and abuse of defer](#)
- [StackOverflow: sabu: Defer in Go seems to add latency](#)
- [Блог о языке программирования Go: Встроенные отсрочки в Golang](#)

defer в других языках

- [discuss.kotlinlang.org: jrenner: Is Go's defer possible in Kotlin?](#)
- [github.com/php-defer](#)
- [Jens Gustedt: A defer mechanism for C](#)
- [Oded Lazar: Implementing Go's defer keyword in C++](#)
- [tnish: Golang's 'defer' in Perl](#)
- [users.rust-lang.org: TotallyGamerJet: Golang's Defer in Rust](#)

runtime.SetFinalizer

- [Alexander Morozov: Mystery of finalizers in Go](#)
- [Develop Paper: In depth understanding of go- runtime.SetFinalizer Principle analysis](#)
- [Go Forum: slawosz: Using runtime.SetFinalizer as rescue from forgotten close](#)
- [Google Groups: Dmitry Vyukov: Deprecating/removing runtime.SetFinalizer?](#)
- [gographics/imagick: Issues: Suggestion - use runtime.SetFinalizer](#)
- [Golang Example: Carlo Alberto Ferraris: Know when GC runs from inside your golang code](#)

- [golang/go: Issues: runtime: SetFinalizer causes undesirable memory overhead](#)
- [Hot Examples: Golang SetFinalizer примеры использования](#)
- [Medium: Vincent Blanchon: Go: Finalizers](#)
- [ProgrammerSought: go-runtime/debug](#)
- [Programmer Think: usawh: An in-depth understanding of Go-runtime.SetFinalizer principles](#)
- [The Go Programming Language: runtime.SetFinalizer](#)
- [Uber Engineering: Cristian Velazquez: How We Saved 70K Cores Across 30 Mission-Critical Services](#)
- [YouTube: Gopher Academy: GopherCon 2019: Patrick Hawley - Controlling the go runtime](#)
- [Русские Блоги: Сборка мусора Golang и SetFinalizer](#)
- [Хабр: LK4D4: Тайна финализаторов в Go](#)

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