
Go
Everything You Wanted to Know About Go
and
Didn't Know to Ask

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Abstract

Working at GCI Network Services, OSS I needed a location for Go documentation.
Hence this document.

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List of Figures

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List of Definitions and Abbreviations

- **MOA** - Municipality of Anchorage

Introduction

Introduction to the L^AT_EX Template with Examples.

Packages

Types

Type such as arrays, structs, slices, and maps.¹

¹“More types: structs, slices, and maps. Learn how to define types based on existing ones: this lesson covers structs, arrays, slices, and maps.”
<https://tour.golang.org/list>

Functions

Variables

Flow Control

Flow control of code using conditionals like `for`, `if`, `else`, `switch`, and `defer`.²

²“Flow control statements: `for`, `if`, `else`, `switch` and `defer`. Learn how to control the flow of your code with conditionals, loops, switches and defers.”
<https://tour.golang.org/list>

Iteration

While, for, do until, and such.
[FIXME: Need data here]

Database Access

“Two fast and reliable drivers are available for MySQL :

- MyMySQL
<http://github.com/ziutek/mymysql>
- Go-MySQL-Driver
<https://github.com/Go-SQL-Driver/MySQL>

I’ve used both of them in production, programs are running for months with connection numbers in the millions without failure.”³

MyMySQL

“Installation:

Simple install the package to your `$GOPATH`⁴ with the `go tool`⁵ from shell:

```
$ go get github.com/go-sql-driver/mysql
```

Make sure Git is installed on your machine and in your system’s PATH.”

Go-MySQL-Driver

[FIXME: Need data here]

³What’s the recommended way to connect to MySQL from Go?
<http://stackoverflow.com/questions/11353679/whats-the-recommended-way-to-connect-to-mysql-from-go>

⁴“The `GOPATH` environment variable is used to specify directories outside of `$GOROOT` that contain the source for Go projects and their binaries.” <http://code.google.com/p/go-wiki/wiki/GOPATH>

⁵`go tool`, <http://golang.org/cmd/go/>

Comments

“Comments serve as program documentation. There are two forms:

1. Line comments start with the character sequence `//` and stop at the end of the line.
2. General comments start with the character sequence `/*` and stop with the first subsequent character sequence `*/`.

A comment cannot start inside a rune or string literal, or inside a comment. A general comment containing no newlines acts like a space. Any other comment acts like a newline.”⁶

Examples

⁶Comments, Lexical elements, The Go Programming Language Specification, Version of January 5, 2016, <https://golang.org/ref/spec#Comments>

Appendix

Links

About the go command

The Go Programming Language

https://golang.org/doc/articles/go_command.html

A Tour of Go

The tour covers the most important features of the language, mainly: Basics (Packages, variables, functions, flow control statements: for, if, else, switch, defer, more types: structs, slices, and maps), Methods and interfaces, and Concurrency.

<https://tour.golang.org/welcome/1>

Go example projects

This repository contains a collection of Go programs and libraries that demonstrate the language, standard libraries, and tools.

<https://github.com/golang/example>

Go-MySQL-Driver

Go MySQL Driver is a lightweight and fast MySQL driver.

<https://github.com/Go-SQL-Driver/MySQL>

How to Write Go Code

<https://golang.org/doc/code.html>

List of integrated circuit packaging types

From Wikipedia, the free encyclopedia

https://en.wikipedia.org/wiki/List_of_integrated_circuit_packaging_types

MyMySQL

MySQL driver

<http://github.com/ziutek/mymysql>

Package Testing

`"import testing"`

The Go Programming Language

<https://golang.org/pkg/testing/>

Package types

`import "go/types"`

Package types declares the data types and implements the algorithms for type-checking of Go packages. Use `Config.Check` to invoke the type checker for a package. Alternatively, create a new type checked with `NewChecker` and invoke it incrementally by calling `Checker.Files`.

<https://golang.org/pkg/go/types/>

The Go Programming Language
<https://golang.org/pkg/go/types/>

The Go Programming Language Specification
Version of January 5, 2016
The Go Programming Language
<https://golang.org/ref/spec#Selectors>

ziecekey/goini

A simple, flexible, efficient and powerful INI parser for Golang.

import github.com/ziecekey/goini

<https://github.com/ziecekey/goini>