$G_0$ 

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 Definitions and Abbreviations

• MOA - Municipality of Anchorage

# Introduction

Introduction to the  $\LaTeX$  Template with Examples.

Packages

# **Types**

Type such as arrays, structs, slices, and maps.<sup>1</sup>

<sup>&</sup>lt;sup>1</sup> "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.<sup>2</sup>

<sup>&</sup>lt;sup>2</sup> "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."

### MyMySQL

[FIXME: Need data here]

### Go-MySQL-Driver

"A MySQL-Driver for Go's database/sql package" 4

#### Installation

Simple install the package to your \$GOPATH<sup>5</sup> with the go tool from shell:<sup>6</sup>

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

Make sure Git is installed on your machine and in your system's PATH."

#### Usage

[FIXME: Need data here]

<sup>&</sup>lt;sup>3</sup>What'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

<sup>&</sup>lt;sup>4</sup>Go-MySQL-Driver, https://github.com/Go-SQL-Driver/MySQL/

 $<sup>^5</sup>$  "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

### 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."<sup>7</sup>

### Examples

### **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://on.wikipedia.org/wiki/List of integrated

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 zieckey/goini
A simple, flexible, efficient and powerful INI parser for Golang.
import github.com/zieckey/goini
https://github.com/zieckey/goini