# Golang Weekly

## Go Newsletter

Issue 161 — May 25, 2017

**FEATURED**

### The State of Go in May 2017

Google's Francesc Campoy gives us an update on where Go is at in mid 2017, mostly focused on stdlib and runtime improvements. Talk video here.

*FRANCESC CAMPOY*

### Language Mechanics on Stacks and Pointers

Understanding memory and pointers are key to becoming a solid Go programmer. This post digs into both with easy examples.

*WILLIAM KENNEDY*

### Go 1.8.3 Released (Shortly After 1.8.2)

A minor bugfix release with fixes to the compiler, runtime, documentation, and database/sql, plus a security fix to the crypto/elliptic package.

*CHRIS BROADFOOT*

### Try Codeship Basic: simple hosted CI that works out of the box

Get set up with our hosted Continuous Integration service in under 3 minutes with Codeship Basic. Join thousands of happy customers like InvisionApp & Whole Foods. Try it for free today.

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### c2goasm: A C to 'Go Assembly' Conversion Tool

Produces a pure Go solution, meaning there's no need for a C compiler to be installed for compilation.

*FRANK WESSELS*

### Do Vendored Dependencies Make Go Plugins Less Useful?

Plugins are unlikely to be built against libraries that have been vendored. This repo outlines the issue.

*SCHLEY ANDREW KUTZ*

### The X-Files: Exploring the Go Standard Library Sub-Repositories

A new series about the `/x/*` packages focused on looser compatibility requirements than the stdlib. The first post covers rate limiting with `/x/time/rate`.

*CHRIS ROCHE*

### Big Data with Go Instead of MapReduce

The trials and tribulations of successfully replacing a large MapReduce cluster with a single machine running a Go application.

*ROSS WILLIAMSON*

**JOBS**

**IN BRIEF**

### GoBooks: A List of 31 Different Go Books `NEWS`

Some paid, some free - with brief summaries of each.

*DARIUSH ABBASI*

### Integration Tests for a Go CLI Application `TUTORIAL`

An interesting way to test a Go application using table-driven tests, Golden Files, and a Makefile.

*LUCA PETTE*

### Controlling a Digispark Board using Gobot and LittleWire `TUTORIAL`

*APPLIED GO*

### What is SQL Injection and How Do We Avoid It in Go? `TUTORIAL`

*JON CALHOUN*

### Debugging Go Core Dumps `TUTORIAL`

A way to get a core dump from your running Go process and use Delve for debugging. Linux only.

*JAANA B. DOGAN*

### Long-Running Go Applications with Large Memory Needs `STORY`

An attempt to replace BoltDB with straight RAM by using "unsafe" packages and syscalls for a long-running Go application.

*PHIL PEARL*

### Introduction to NoSQL and MongoDB `VIDEO`

Learn how to build your first MongoDB application in this free, 12-part video series.

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### Using Go for Data Science `VIDEO`

*DANIEL WHITENACK*

### c2go: A Tool for Converting C to Go `TOOLS`

Early days, but now supports dynamic memory alloc with malloc/calloc - a key step forward.

*ELLIOT CHANCE*

### Autoscaling for your Heroku dynos `TOOLS`

Automatically scale up and down to handle increased workloads and avoid wasting money on idle resources.

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### go-grpc-middleware: GRPC Middleware Helpers `CODE`

*GRPC ECOSYSTEM*

### Metaflector: Higher-level Reflection Capabilities for Inspecting Objects & Structs `CODE`

*JAY TAYLOR*

### MemGuard: Pure Go Library That Handles Sensitive Values in Memory `CODE`

*AWN*

### httpsnoop: Capture HTTP Related Metrics from http.Handlers `CODE`

*FELIX GEISENDÖRFER*

### pinhole: A 3D Wireframe Drawing Library for Go `CODE`

*JOSH BAKER*

### S2: A Cartesian, Circle, and Spherical Geometry Library `CODE`

An ongoing port of the C++ S2 library.

*GITHUB.COM*

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