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## Go Newsletter

Issue 160 — May 18, 2017

### FEATURED

#### Badger: A High-Perf Key/Value Storage Engine

An embeddable, persistent, simple and fast key-value store, written natively in Go. [GitHub repo](#).

DGRAPH

#### Alternative Patterns for Method Overloading in Go

An overview of 3 approaches to deal with Go's lack of method overloading: a functional way, an OO-style way, and a 'JavaScript'-esque way. [Functional options](#) are also worth considering.

CHRIS TOMCH

#### Why Go Doesn't Use a Generational or Compacting Garbage Collector

A solid response from Ian Lance Taylor on the pros and cons of different garbage collection methods.

IAN LANCE TAYLOR

#### It's the Future

"So I just need to split my simple CRUD app into 12 microservices, each with their own APIs which call each others' APIs but handle failure resiliently, put them into Docker containers, launch a fleet of 8 machines which are Docker hosts..."

CIRCLECI SPONSORED



#### 4 Talks from GopherFest 2017 VIDEO

Live streamed from San Francisco a few days ago, the video consists of 4 talks including Francesc Campoy Flores on the state of Go, and Matt Ho on event sourcing.

GOPHERFEST 2017

#### How To Install Go Using GVM (Golang Version Manager) VIDEO

It was just a matter of time before Go had a version manager. Here's how to install it.

BLUEBOT

#### Where Does Go's Concurrency (CSP) Fall Short?

A look at Go's concurrency approach as compared to other languages from the manager of the Go team at Google.

SAMEER AJMANI

#### Rewriting Web Analytics Tracking Infrastructure in Go

The tale behind replacing a monolithic, Rails-based system with a systemd binary that improved many aspects of performance.

AGIS ANASTASOPOULOS

#### Godzilla: An ES2015 to Go Source Code Transpiler and Runtime

A bit of an opposite to GopherJS.

JINGWEN OWEN OU

### JOBS

Technical Lead Developer - Ruby / Golang / Go - Lead Engineer

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## IN BRIEF

## Gogland EAP 8 Available: A Promising New Go IDE NEWS

JETBRAINS

## Get Tighter Go Integration with Komodo IDE NEWS

Release 10.2.2 brings syntax highlighting, code completion, and more.

ACTIVESTATE

## Understanding Middleware in Go TUTORIAL

LANRE-ADELOWO

## Another Introduction to Pointers in Go TUTORIAL

NAVEEN RAMANATHAN

## Build your first app with MongoDB and Go

MONGODB SPONSORED

## Mastering Go Programming: Slices VIDEO

A practical guide to slices in Go that covers the basics along with some memory management tips.

PACKT VIDEO

## How Go's Type System Differs from Java OPINION

From the perspective of a Java developer.

JAXENTER

## On Package Names for Tests OPINION

Should you keep your tests in the same package as your code or in a `_test` package?

LANRE-ADELOWO

## Toxiproxy: A Framework for Simulating Network Conditions TOOLS

A TCP proxy to simulate network conditions for chaos and resiliency testing.

SHOPIFY

## Gap-free tracing for Go apps TOOLS

Visualize key metrics, identify bottlenecks in end-to-end traces, and correlate with 150+ other technologies.

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## Go-rquad: Algorithms for Region Quadrees CODE

And neighbor finding algorithms/techniques.

AURELIEN RAINONE

## Goldfish: A HashiCorp Vault UI Panel CODE

A Go app that leans on Vue.js for the frontend.

TONY CAI

## Goka: A Stream Processing Library for Apache Kafka CODE

LOVOO GMBH

## A Source Code Editor Written in Pure Go CODE

JORGE PINTO

## cronsun: A Distributed Cron-Style Job System CODE

*Note: The documentation is in Chinese.*

MIRACLESU

## GJSON: Quickly Grab Values from a JSON Document CODE

JOSH BAKER

## fsql: Search Your Filesystem Using SQL-esque Queries CODE

KASHAV

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