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## Go Newsletter

Issue 158 — May 4, 2017

### FEATURED

#### There is No Pass-by-Reference in Go TUTORIAL

*“Go does not have pass-by-reference semantics because Go does not have reference variables.”*

DAVE CHENEY

#### Pilosa: A Distributed Bitmap Index, Powered by Go CODE

An open source, distributed bitmap index system for accelerating queries across massive data sets. [Intro here.](#)

PILOSA

#### Real-time performance monitoring for Go apps

Observe your apps from any angle with custom Go metrics, expvar variables, server metrics, and end-to-end traces.

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#### Type Safety or Convenience TUTORIAL

How one developer discovered that the freedom of `interface{}` comes at the cost of type safety.

LANRE ADELOWO

#### infreqdb: S3 Backed Database for Infrequent Read Access CODE

An AWS S3-backed key/value data store for infrequent read access from Go.

TURBOBYTES

#### Building a Go Web App in 2017, A 4 Part Series TUTORIAL

A four part series on building a 'real' web app from scratch without frameworks.

GREGORY TRUBETSKOY

#### Config: A Simple Configuration Library CODE

A small configuration library for Go that caches values in memory, parses environment variables, JSON files, and reloads automatically on SIGHUP.

JOSH BETZ

### JOBS

#### Full Stack Go Developer (London, UK)

A cryptocurrency startup which is migrating from Node to Go.

ENDIAN

#### Be Passionate about your Work. Get Hired

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### IN BRIEF

## [A Multi-Stage Dockerfile for Go Apps](#) TUTORIAL

Docker just added multi-stage Dockerfiles to reduce production image sizes.

ALEX PLIUTAU

## [Mapping an RDBMS on to a Key-Value Store](#) TUTORIAL

Mapping rows to keyed values and indexes based on interesting attributes.

SIMPLE MADE DIFFICULT

## [A Go Web Deployment Tool Chain with NGINX, Gulp and Supervisor](#) TUTORIAL

An interesting and relatively complete approach to a Go web application deployment.

NAREN ARYA

## [Cross Compiling Go Apps For Use on a Raspberry Pi](#) TUTORIAL

NIC RABOY

## [A Short Guide to Mastering Go Strings](#) TUTORIAL

CHRIS TOMICH

## [Writing a Go SPI Driver for the MCP3008](#) TUTORIAL

The MCP3008 is an analog-to-digital converter you can communicate with over an [SPI bus](#).

AUKE WILLEMOOSTERHOFF

## [Running MongoDB as a microservice with Docker and Kubernetes](#) TUTORIAL

Containers are revolutionizing the entire software lifecycle from proofs of concept through development, test, deployment, and support.

MONGODB SPONSORED

## [Visualizing Concurrency in Go](#) STORY

We linked it a year ago but this animated look at concurrency in Go apps has been doing the rounds again.

IVAN DANILUK

## [Brad Fitzpatrick on Go4 and Contributing to Go](#) PODCAST

An 80 minute interview with a prominent Go core member.

THE CHANGELOG

## [On Game Development and Rebuilding Microservices in Go](#) PODCAST

LUNA DUCLOS

## [Using Go in Production: One Developer's Experiences](#) OPINION

TAMIZHVENDAN S

## [Immutable vs Mutable Performance in Go](#) OPINION

CHRIS TOMICH

## [Continuous Integration & Delivery Made Easy With Golang](#) TOOLS

Quick-start guide for Go projects on CircleCI. Configuration, examples, and demo projects.

CIRCLECI SPONSORED

## [Nanolog: Super Fast Logging for Go](#) CODE

A fast, zero-allocs logger.

SCOTT MANSFIELD

## [GoQ: Lightweight In-Memory Message Broker](#) CODE

TRAVIS PATTERSON

## [Webhook: A Simple HTTP Server for Catching Incoming Web Hooks](#) CODE

ADNAN HAJDAREVIĆ

## [Kurly: An Alternative to 'curl' But Written in Go](#) CODE

Full explanation here.

DAVID J PEACOCK

## [LinkedList: A Simple Doubly Linked List Implementation](#) CODE

JOSH MONTOYA

## [go-errortree: For Handling Errors Organized As A Tree](#) CODE

STEPHAN PEJNLIK

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