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## Go Newsletter

Issue 153 — March 30, 2017

### FEATURED

#### Go 1.8 and HTTP/2 Server Push TUTORIAL

Some info, best practices, and examples around Go's support for HTTP/2, pushing resources, and when it makes sense.

*JAANA B DOGAN AND TOMBERGAN*

#### After 3.5 Years and 500k Lines of Go STORY

Nate Finch shares his experiences, both good and bad, of working on a huge Go application - [Juju](#).

*NATE FINCH*

#### A Roadmap for Dependency Management NEWS

Russ Cox clarifies how `dep` might make its way into the Go toolchain.

*RUSS COX*

#### Equip Your Go Apps With Backtrace - and meet our new gopher

Unlike other error reporting platforms, Backtrace captures all panics and crashes, even in native libraries, with no API integration required and no runtime performance penalty.

*BACKTRACE* SPONSORED



#### Fmt Dmpty: A Dive into the Go Corpus TUTORIAL

What started as a response to a recent `fmt` post morphed into a way to show how duplication is all over `go` vendoring.

*JASON MOIRON*

#### gopreload: LD\_PRELOAD for the Go Crowd TOOLS

Emulates the behavior of `LD_PRELOAD` but with Go plugins for the addition of instrumentation and debugging utilities.

*CHRISTINE DODRILL*

#### A Theory on Why Go's 'gofmt' Has Been Accepted OPINION

Python-oriented thoughts on why `gofmt` is less contentious than Python's significant whitespace and the role of 'social force' in enforcing standards.

*CHRIS SIEBENMANN*

### IN BRIEF

#### Some Go Executables Broken with macOS 10.12.4 and Xcode 8.3 NEWS

*GO*

#### A Proposal for Compile-Time Functions and First Class Types NEWS

An example of what a generics proposal should look like to be taken seriously.

*BRYAN C. MILLS*

#### ActiveGo Beta Released (on Windows, for now) NEWS

A 'quality-assured Go distribution' from ActiveState.

*ACTIVESTATE*

## DataLayer Conference - All-Star Lineup. Austin, TX - May 17, 2017. NEWS

Speakers from Honeycomb, Google Spanner, PostgreSQL, Command Prompt, Meteor, Watchful, Digit, IBM and more.

COMPOSE SPONSORED

## Golang UK Conference Call for Papers Open NEWS

CFP ends April 30. Conference is in London in August.

GOLANGUK.COM

## Know Your Nil: How Go Makes Clever Use of Nil Values TUTORIAL

JEREMY MIKKOLA

## Querying for Multiple Database Records with database/sql TUTORIAL

JON CALHOUN

## Bloaty McBloatface: A Size Profiler for Binaries TOOLS

Not written in Go but can be used to compare two Go binaries. (Recommended by [Jaana B. Dogan.](#))

GOOGLE

## c2go: A Python Utility to Convert C to Go TOOLS

Very much a *proof of concept* and he's seeking help.

ELLIOT CHANCE

## Go-ERD: Entity Relationship Diagrams with Graphviz TOOLS

Explore source code more easily by visualizing types and their relationships.

GMARIK

## vim-go 1.12 Released: The Go Development Plugin for Vim TOOLS

FATIH ARSLAN

## GopherPit: Use Your Own Remote Import Paths TOOLS

GopherPit is a web service that removes the dependence on version control systems like GitHub.

GOPHERPIT

## Trace Go requests with end-to-end visibility TOOLS

Visualize and analyze requests in real time as they travel across web servers, dbs, and microservices. 14-day trial.

DATADOG SPONSORED

## Beehive: Open Source Event and Agent Framework CODE

Create events and actions wired up as you see fit, Zapier-style.

CHRISTIAN MUEHLHAEUSER

## Trawl: A Local Network Interface IP Address Information Tool CODE

ROB PHOENIX

## Vuls: A Vulnerability Scanner for Linux/FreeBSD, Written in Go CODE

FUTURE-ARCHITECT

## Goss: A Server Testing/Validation Tool CODE

Uses a YAML-based spec for validating a server's configuration over time.

AHMED ELSABBAHY

## Pipeline: Build Multi-Stage Concurrent Workflows with Centralized Logging CODE

MYNTRA

## Backoff: The Exponential Backoff Algorithm in Go CODE

A port of the algorithm in Google's HTTP Client for Java.

CENK ALTI

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