

Processing Data with Go

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Agenda

- What is Go?
- Clients
- Samples (hold on to your seats)

What is Go?

Go is an open source programming language that makes it easy to build simple, reliable, and efficient software.

Features of Go

- Compiled
- C-ish syntax
- Built from the ground up to be fast
- Built to be concurrent
 - Lightweight threads - goroutines
- No unused lines are allowed

Imports

```
import (  
    "github.com/benmanns/goworker"  
)
```

How does it compare

- Ruby
 - Compiled
 - Typed variables
- Java
 - Compiled
 - Type inference

Clients

- Email Factory
- Money Mover

Email Factory

- Sends hundreds of thousands of emails
- Ruby takes ~400ms per email

Money Mover

- Processing hundreds of thousands of jobs
- Ruby took > 20 hrs

Switching to Go

Sidekiq/Resque => Goworker
goworker.org

Examples

- Hello World!
- Sending an email
- Resque jobs

Lessons Learned

- Sometimes fast is too fast
- Fan out to thousands of small jobs instead of one large job

Most importantly

Mix up languages

Next Steps

- Tour of Go (tour.golang.org/)
- Effective Go (golang.org/doc/effective_go.html)

Questions

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Thanks!
