

Introduction to Go

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Summary

Go is a brand-spanking-new systems language that Google released in November, 2009. Every wonder how awesome C would be if it was garbage-collected, concurrent, and didn't take a few weeks to compile? Wake up; it's here! We'll take a look at this new language that steals some of the dynamic flexibility of Python and Ruby, the performance of C, and a compile time that you'll miss if you blink.

Why Go?

- · It's a systems language
- It's fun, like dynamic languages

We Already Have a Systems Language!

Like C

code/c.c

We Already Have Fun Languages!

code/ruby.rb

[INSERT TITLE]

```
package main
import "fmt"
func () {
  fmt.Printf("Hello, world\n")
}
```

code/hello_world.go

Specifications

- Compiled
- Imperative, structured
- Concurrent
- Strongly typed (explicit or inferred)

Concurrency



Goroutines

Channels