

Go Workshop

Sébastien Binet

LAL/IN2P3

2014-10-14

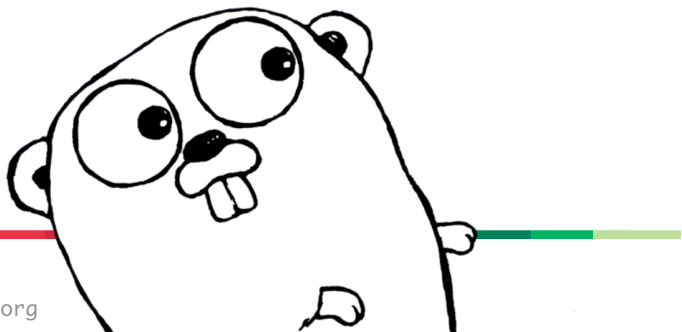


- obligatory hello world example...

```
package main
```

```
import "fmt"
```

```
func main() {  
    fmt.Println("Hello JI-2014")  
}
```



<http://golang.org>

- founding fathers:
 - ▶ Russ Cox, Robert Griesemer, Ian Lance Taylor
 - ▶ Rob Pike, Ken Thomson
- **concurrent**, compiled
- **garbage collected**
- an open-source general programming language
- best of both "worlds":
 - ▶ feel of a **dynamic language**
 - ★ limited verbosity thanks to a **type inference system**, map, slices
 - ▶ safety of a **static type system**
 - ▶ compiled down to machine language (so it is fast)
 - ★ goal is within **10% of C**
- **object-oriented** (w/o classes), **builtin reflection**
- first-class functions with **closures**
- **duck-typing** à la python (but better) thanks to its **interfaces**

- simple exercises (create a command, handle arguments)
- discover a bit of the surrounding tooling ecosystem:
 - ▶ doc system,
 - ▶ build system,
 - ▶ CPAN/PyPI/. . .-like market-store;
- discover a bit of the standard library (`json`, `io`, `os`, . . .)
- touch upon `interfaces` and `concurrency`:
 - ▶ `channels`
 - ▶ `goroutines`

github.com/sbinet/ji-2014-go