How Can Go Help You?

PHILOSOPHY AND USE-CASES

Overview

Philosophy and values

Primary use-cases

Philosophy and Values

- Simplicity
- Network aware and concurrent apps
- Out-of-the-box experience
- Cross-platform
- Backward compatibility

Simplicity

```
i := 1
println(i++)    // ???
println(++i)    // ???
```

Problem:
Increment and decrement expressions are easily misinterpreted

Simplicity

```
i := 1
i++
println(i) // 2
i++
println(i) // 3
```

Solution:
Increment and decrements are statements in Go

```
for i := 0; i < 5; i++ ...
```

- loop with incrementor

```
for i < 5 ...
```

- loop till condition

```
for ...
```

- infinite loop

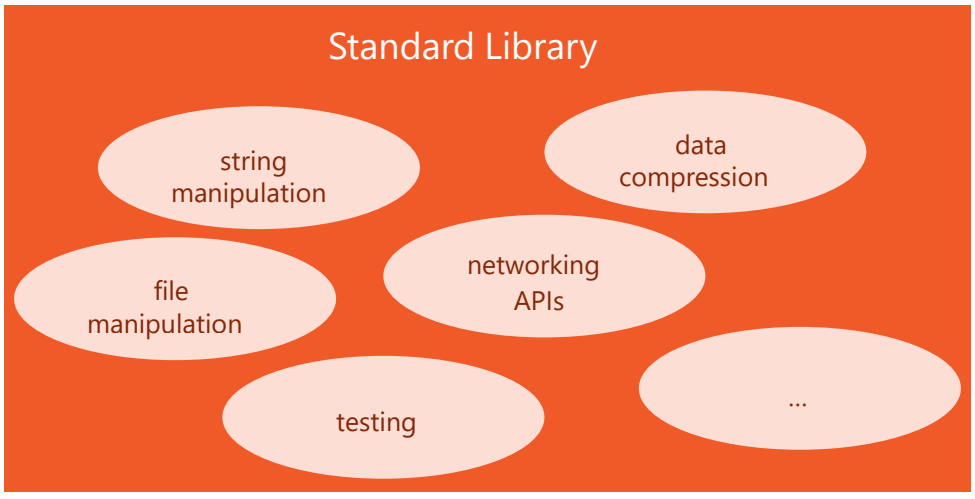
```
for user := range users ...
```

- loop over collection

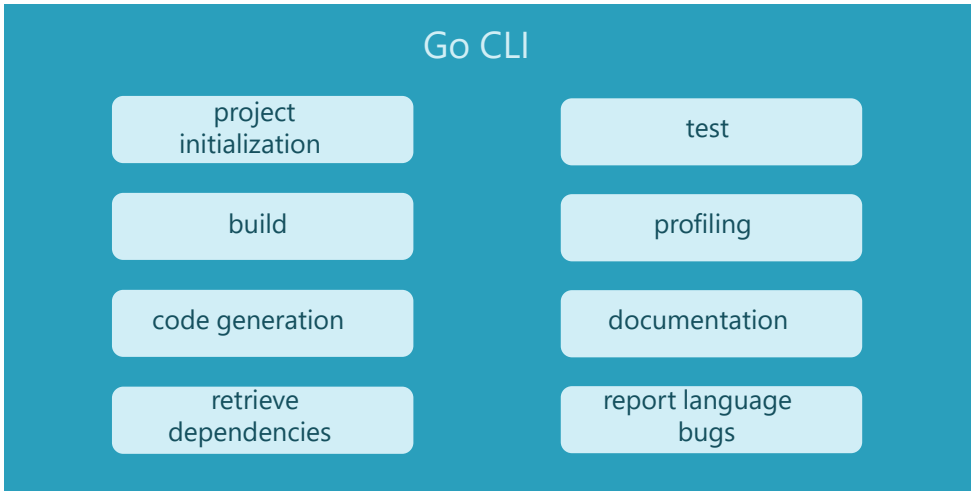
All loops in Go are for-loops!

Network Aware and Concurrent Apps

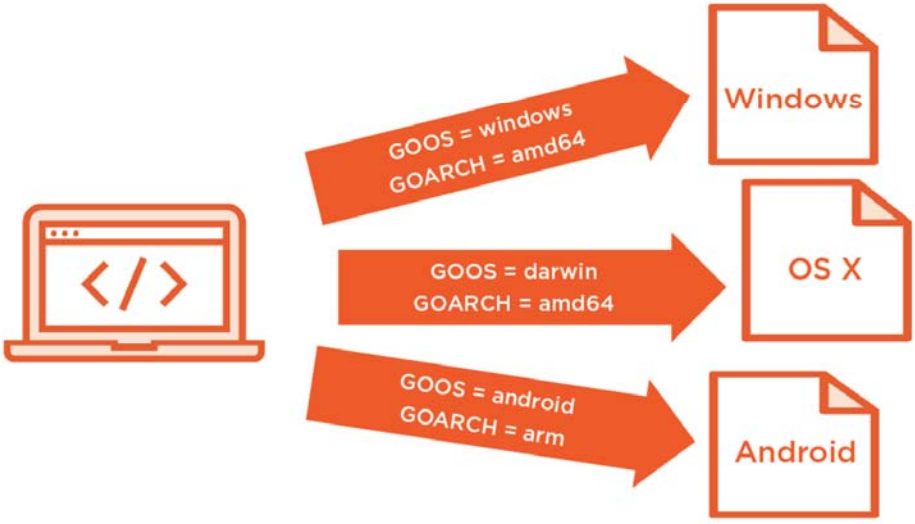
Out-of-the-box Experience



Out-of-the-box Experience



Cross Platform



Backward Compatibility

"It is intended that programs written to the Go 1 specification will continue to compile and run correctly, unchanged, over the lifetime of that specification."

https://golang.org/doc/go1compat

Primary Use Cases

Web services	Web applications	DevOps
GUI / Thick-client	Machine learning	...

Summary

Philosophy and values

Primary use-cases