

Go: The Complete Developer's Guide

~ chapter 18

Cards project

Deck OO approach → Go approach

Deck Class



Deck Instance

- cards []
- print()
- shuffle()
- save()

Base Types

string int
float array map

↑↑ extends

type Deck string[]
• func(d Deck)

"create a new type
that extends the base
types and create funcs
with deck as a receiver"

Receivers

func (d deck) print() { }

func print() { } with a (d deck)
Receiver

→ any variable of type 'deck'
gets access to the print method

Value Types

int
float
string
bool
struct

use pointers to
modify the
underlying

Reference Types

slice
map
channel
pointer
function

- no overloading function names ~~the~~

create a new ^{type} called "bot"

```
type bot interface {  
    getGreeting() string  
}
```

if a type in this program implements a `getGreeting` function that returns a string, then you are a member of the "bot" type and may call our new `printGreeting()` function

```
func printGreeting(b bot) { }
```

In the bot program
↓

Concrete Types

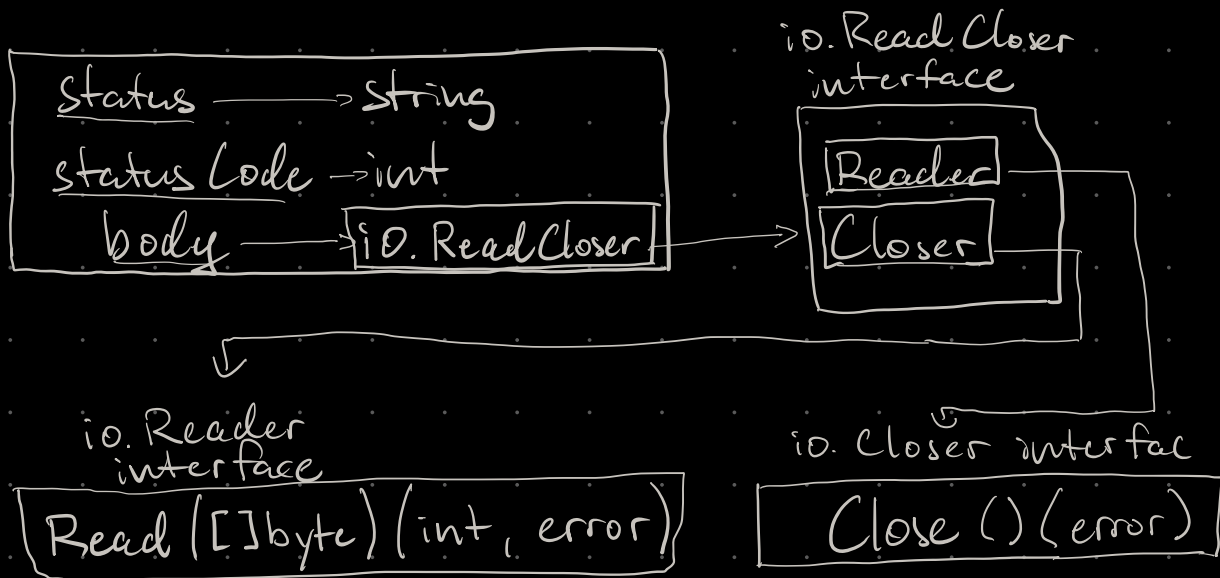
map struct
int string
english Bot

Interface Types

bot

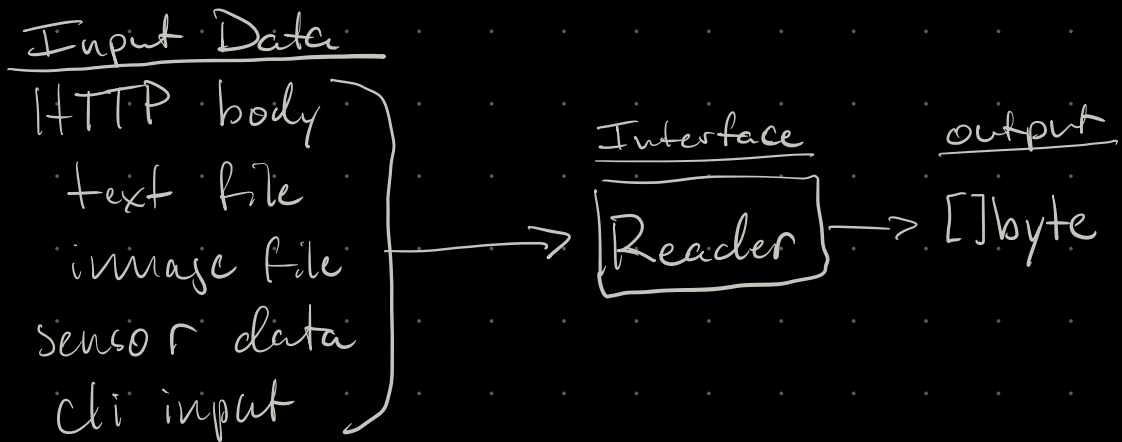
- interfaces are not generic types
- interfaces are implicit - no "implements"
- interfaces are a contract to manage types
- interfaces are tough - need to understand how to read them
 - not a requirement of the language to write your own, which requires some experience

net. http Response

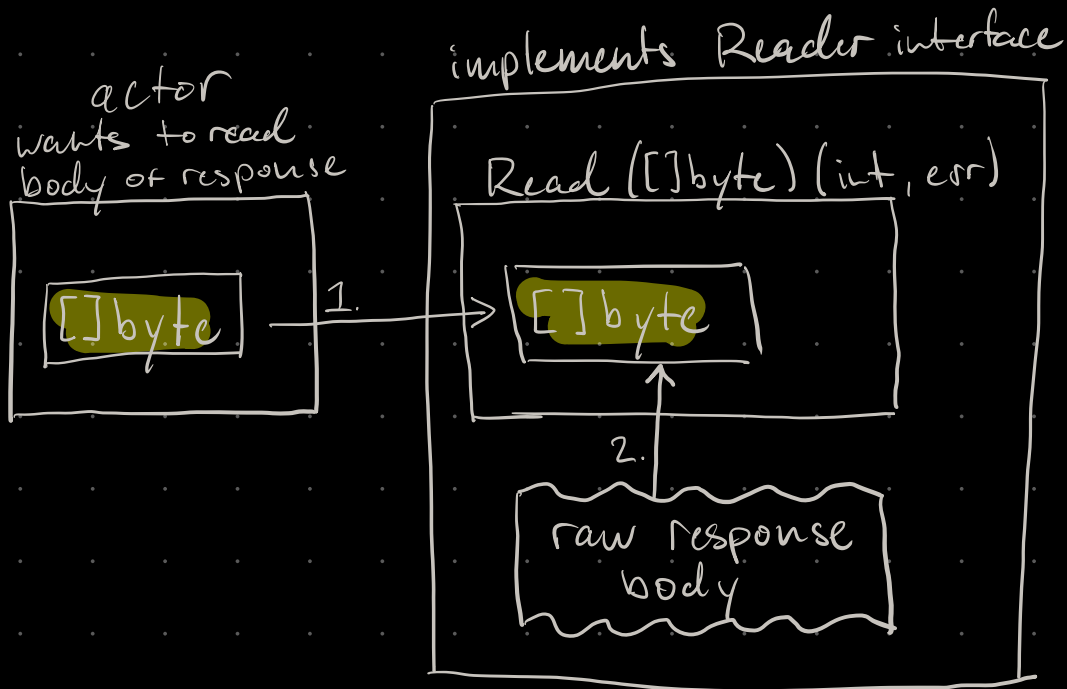


- interfaces can be embedded

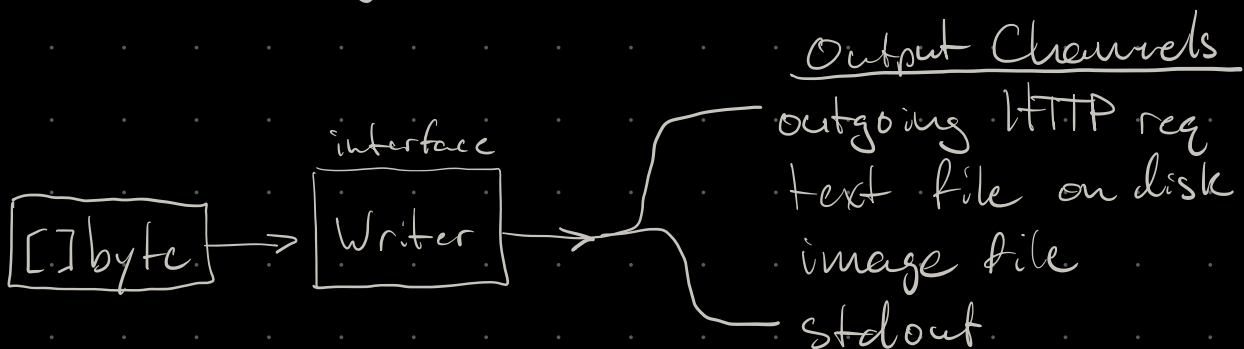
consider `print()` ...



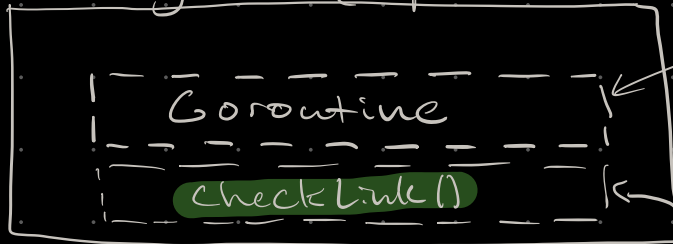
how the Read interface works



- 1) we create a []byte, pass it to Read()
- 2) Read() takes the data from the raw response body and injects / pushes it into that slice - ultimately modifying the underlying variable



\$Program (a process)



a serial
execution engine

go checkLink(link)