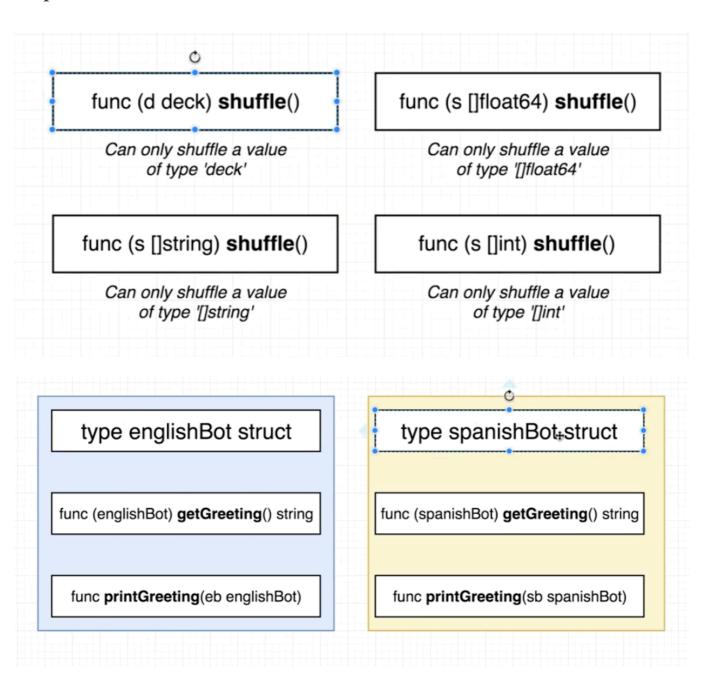
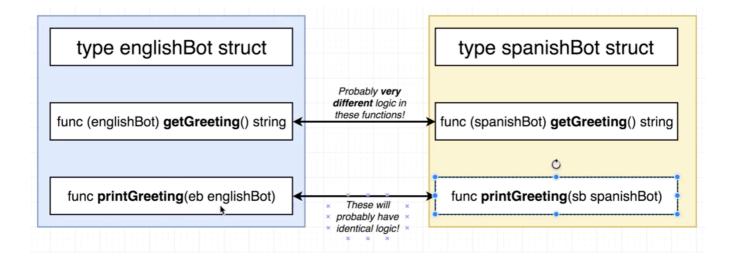
6 - Interfaces

Purpose of Interfaces



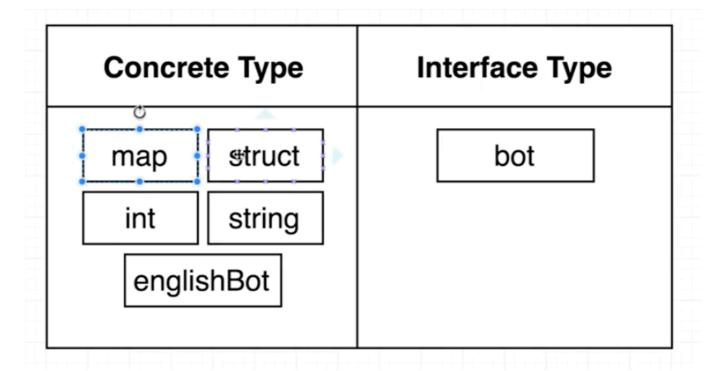


Interfaces in Practice

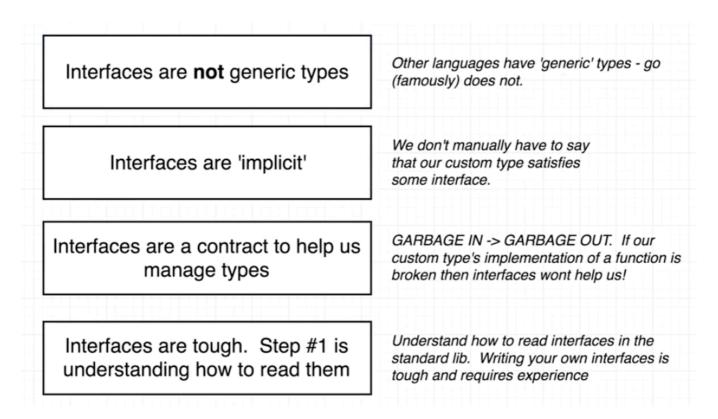
main.go

```
1 type bot interface {
       getGreeting() string
 3 }
 4
 5 type englishBot struct{}
 6 type spanishBot struct{}
 8 func main() {
 9
       eb := englishBot{}
       sb := spanishBot{}
10
11
       printGreeting(eb)
12
       printGreeting(sb)
13
14
15 }
16
17 func printGreeting(b bot) {
18
       fmt.Println(b.getGreeting())
19 }
20
21 func (englishBot) getGreeting() string {
       // VERY custom logic for generating an english greeting
22
       return "Hi There!"
23
24 }
25
26 func (spanishBot) getGreeting() string {
27
       // VERY custom logic for generating an spanish greeting
       return "Hola!"
28
29 }
```

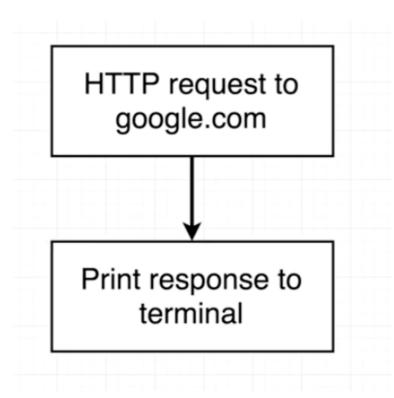
Rules of Interfaces



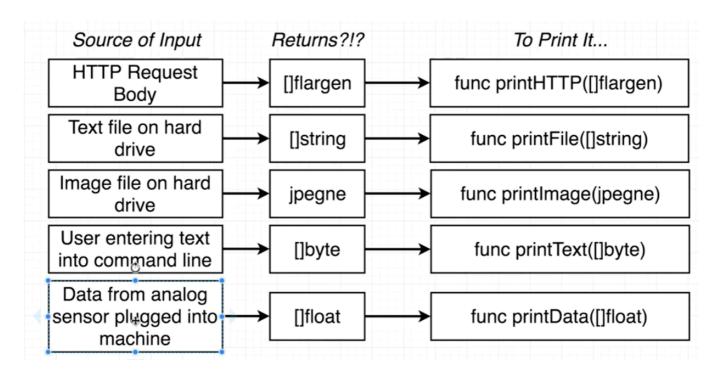
Extra Interface Notes

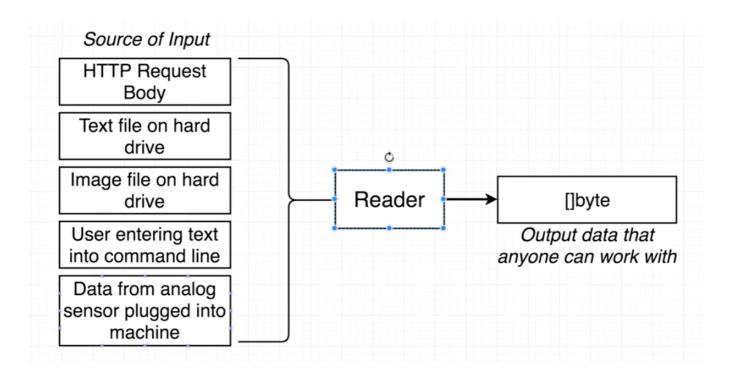


The HTTP Package

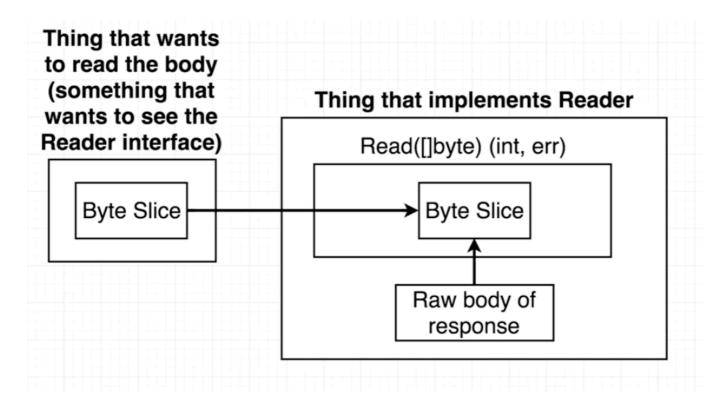


The Reader Interface





More on the Reader Interface



Working with the Read Function

main.go

```
1 package main
2
3 import (
4 "'fmt"
5 "net/http"
6 "os"
```

```
7)
8
9 func main() {
       resp, err := http.Get("https://www.google.com/")
10
       if err != nil {
11
           fmt.Println("Error: ", err)
12
13
           os.Exit(1)
14
       }
15
       bs := make([]byte, 99999)
16
       resp.Body.Read(bs)
17
       fmt.Println(string(bs))
18
19 }
```

The Writer Interface

main.go

```
1 package main
 2
 3 import (
      "fmt"
 4
 5
       "io"
       "net/http"
 6
       "os"
 7
 8)
 9
10 func main() {
       resp, err := http.Get("https://www.google.com/")
11
       if err != nil {
12
           fmt.Println("Error: ", err)
13
14
           os.Exit(1)
15
       }
16
17
       io.Copy(os.Stdout, resp.Body)
18 }
```

A Custom Writer

main.go

```
1 package main
2
3 import (
      "fmt"
4
      "io"
5
      "net/http"
6
7
       "os"
8)
9
10 type logWriter struct{}
11
12 func main() {
       resp, err := http.Get("https://www.google.com/")
13
```

```
14
      if err != nil {
15
          fmt.Println("Error: ", err)
      os.Exit(1)
16
17
      }
18
19
      lw := logWriter{}
20
      io.Copy(lw, resp.Body)
21
22 }
23
24 func (logWriter) Write(bs []byte) (int, error) {
25
       fmt.Println(string(bs))
       fmt.Println("Just wrote this many bytes:", len(bs))
26
27
      return len(bs), nil
28 }
```