Seminario de Lenguajes opción Go

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Seminario de Lenguajes opción Go

- Packages
- Modules
- Dependencies

Packages

```
✓ src

    projecttempconv

∨ tempconv

  conv.go
  conv.go
 co main.go
```

```
main.go
package main
import (
   "fmt"
   tc "projecttempconv/tempconv"
func main() {
  c := tc.BoilingC
   fmt.Println(c, "=",
tc.CToF(c))
```

```
conv.qo
package tempconv
// CToF converts a Celsius temperature to
Fahrenheit.
func CToF(c Celsius) Fahrenheit {
    return Fahrenheit (c*9/5 + 32)
// FToC converts a Fahrenheit temperature to
Celsius.
func FToC(f Fahrenheit) Celsius {
    return Celsius((f - 32) * 5 / 9)
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```

```
// Package tempconv performs Celsius
// and Fahrenheit conversions.
package tempconv
                         tempconv.go
import "fmt"
type Celsius float64
type Fahrenheit float64
const (
  AbsoluteZeroC Celsius = -273.15
   FreezingC
              Celsius = 0
  BoilingC Celsius = 100
func (c Celsius) String() string {
   return fmt.Sprintf("%g°C", c)
func (f Fahrenheit) String() string
  return fmt.Sprintf("%g°F", f)
```

Packages

```
main.go

✓ src

                package main

    projecttempconv

                import (

∨ tempconv

                    "fmt"
 conv.go
                    tc "projecttempconv/tempconv"
 ❤️ tempconv.go
 co main.go
                func main() {
                    c := tc.BoilingC
                    fmt.Println(c, "=",
                tc.CToF(c))
                package tempconv
                                                        conv.qo
                func CToF(c Celsius) Fahrenheit { ... }
                func FToC(f Fahrenheit) Celsius { ... }
```

```
> C:\Usuario\go\src\projecttempconv> go run .\main.go
main.go:5:2: package projecttempconv/tempconv is not in GOROOT (C:\Program Files\Go\src\projecttempconv\tempconv)
```

Modules

> C:\Usuario\go\src\projecttempconv> go mod init projecttempconv



```
go.mod
module
projecttempconv
go 1.20
```

```
> C:\Usuario\go\src\projecttempconv> go run .\main.go 100\,^{\circ}\text{C} = 212\,^{\circ}\text{F}
```

Dependencies

```
package main

import (
    "fmt"
    tc "projecttempconv/tempconv"

    "rsc.io/quote" // <======
)

func main() {
    c := tc.BoilingC
    fmt.Println(c, "=", tc.CToF(c),
    quote.Hello())
}</pre>
```

> C:\Usuario\go\src\projecttempconv> go get -u rsc.io/quote

```
> C:\Usuario\go\src\projecttempconv> go run .\main.go
100°C = 212°F
99 bottles of beer on the wall, 99 bottles of beer, ...
```

```
module projecttempconv go.mod

go 1.20

require (
   golang.org/x/text v0.9.0 //
indirect
   rsc.io/quote v1.5.2 // indirect
   rsc.io/sampler v1.99.99 // indirect
```