



Packages in Go

PACKAGE SYNTAX

```
package pkg
```

```
// code
```



PACKAGE STRUCTURE

package network

tcp.go

udp.go

network.go

package main

main.go

start.go

init.go



PACKAGE TYPES



■ **main (executable)**

```
go run *.go
```

```
go build -o exec
```

func main

■ **non main (non executable)**

```
import "github.com/gophertuts/go-basics/pkg"
```

PACKAGE NAMING & STRUCTURE

| | |
|--|---|
|  src/network |  |
| <code>package network</code> | |
|  src/net |  |
| <code>package network</code> | |
|  src/net_err |  |
| <code>package net_err</code> | |
|  src/netErr |  |
| <code>package netErr</code> | |
|  src/utls |  |
| <code>package utls</code> | |

| | |
|---|---|
|  src/pkg |  |
|  src/sub_pkg | |
|  src/sub_pkg | |
|  src/sub_pkg | |
|  src/network |  |
| <code>network.go</code> | |
| <code>tcp.go</code> | |
| <code>udp.go</code> | |
|  src/pkg |  |
| <code>package main</code> | |
| <code>package pkgA</code> | |
| <code>package pkgB</code> | |



PACKAGE IMPORTS

```
package pkg
```

```
import "github.com/gophertuts/go-basics/net"
```

HOST

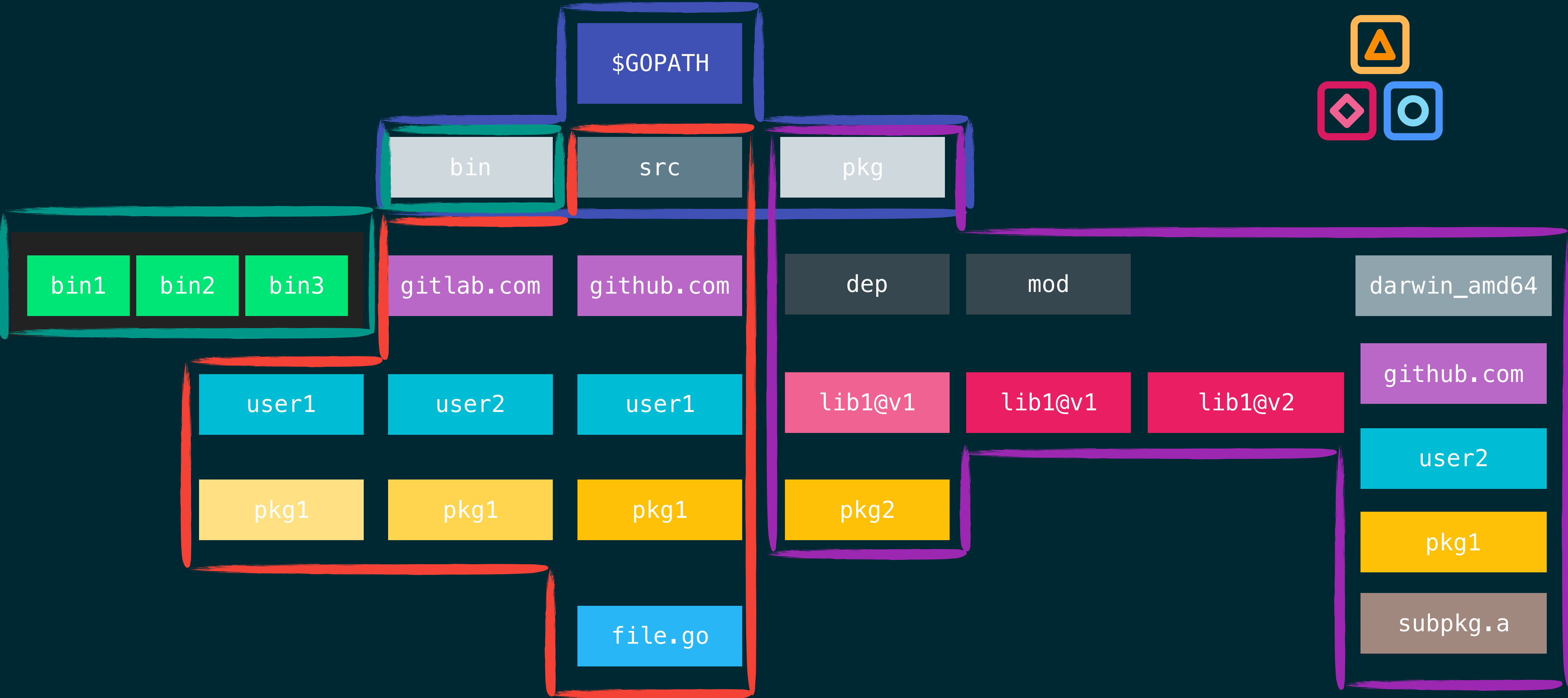
USER/ORGANIZATION

PROJECT/REPO

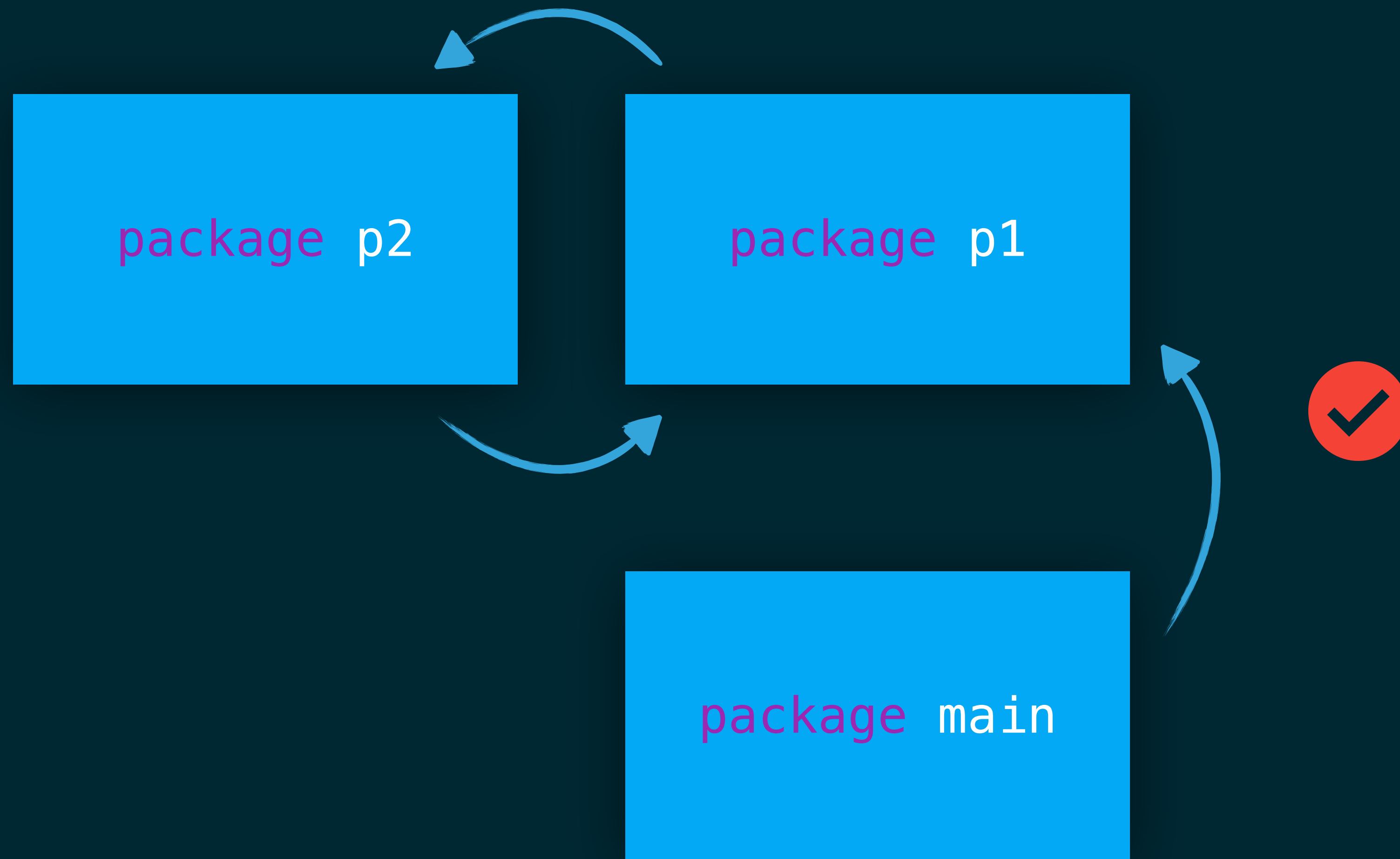
PACKAGE



\$GOPATH



CROSS REFERENCE



FILE GLOBALS & LOCALS

Locals

package name

imports

Globals

constants

variables

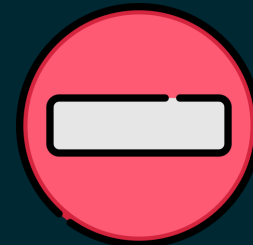
functions



TEST FILES

p1_test.go

package p1



p2_test.go

package p2



PACKAGE VISIBILITY (SCOPE)



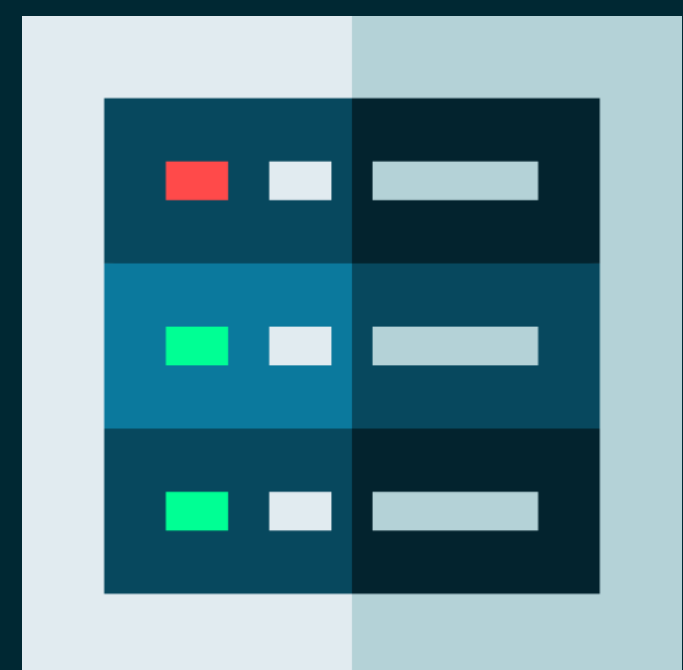
Exported

Visible & accessible in all files
of the same package

unExported

Visible & accessible inside the package, and
inaccessible outside of it

GO GET



github.com



steevehook



repo



`$GOPATH/src`

```
go get ./...
```