



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

app/network

package network

✓

app/net

package network

✓

app/net_err

package net_err

✓

app/netErr

package netErr

✓

app/utls

package utls

✓

app/pkg

app/sub_pkg

app/sub_pkg

app/sub_pkg

✓

app/network

network.go

tcp.go

udp.go

✓

app/pkg

package main

✓

package pkgA

package pkgB



PACKAGE IMPORTS

```
package pkg
```

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

HOST

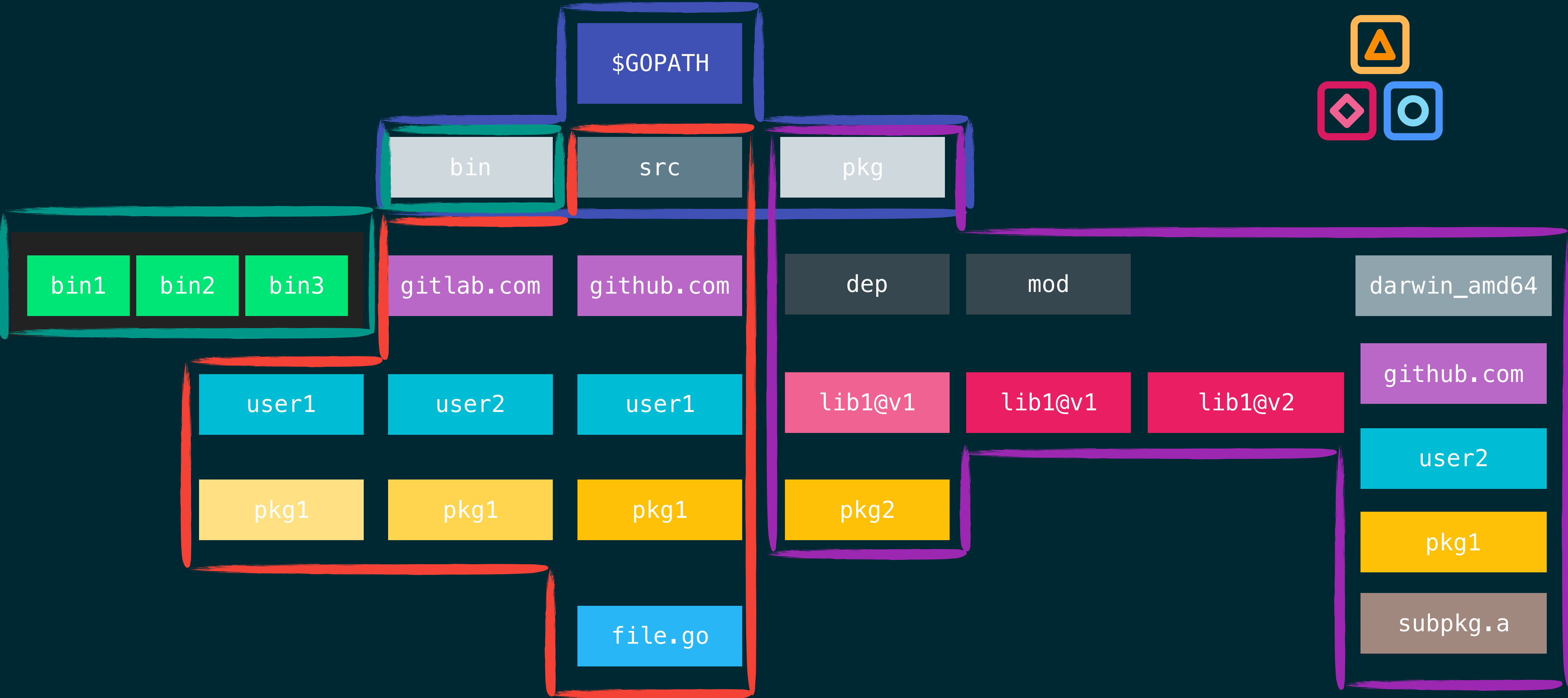
USER/ORGANIZATION

PROJECT/REPO

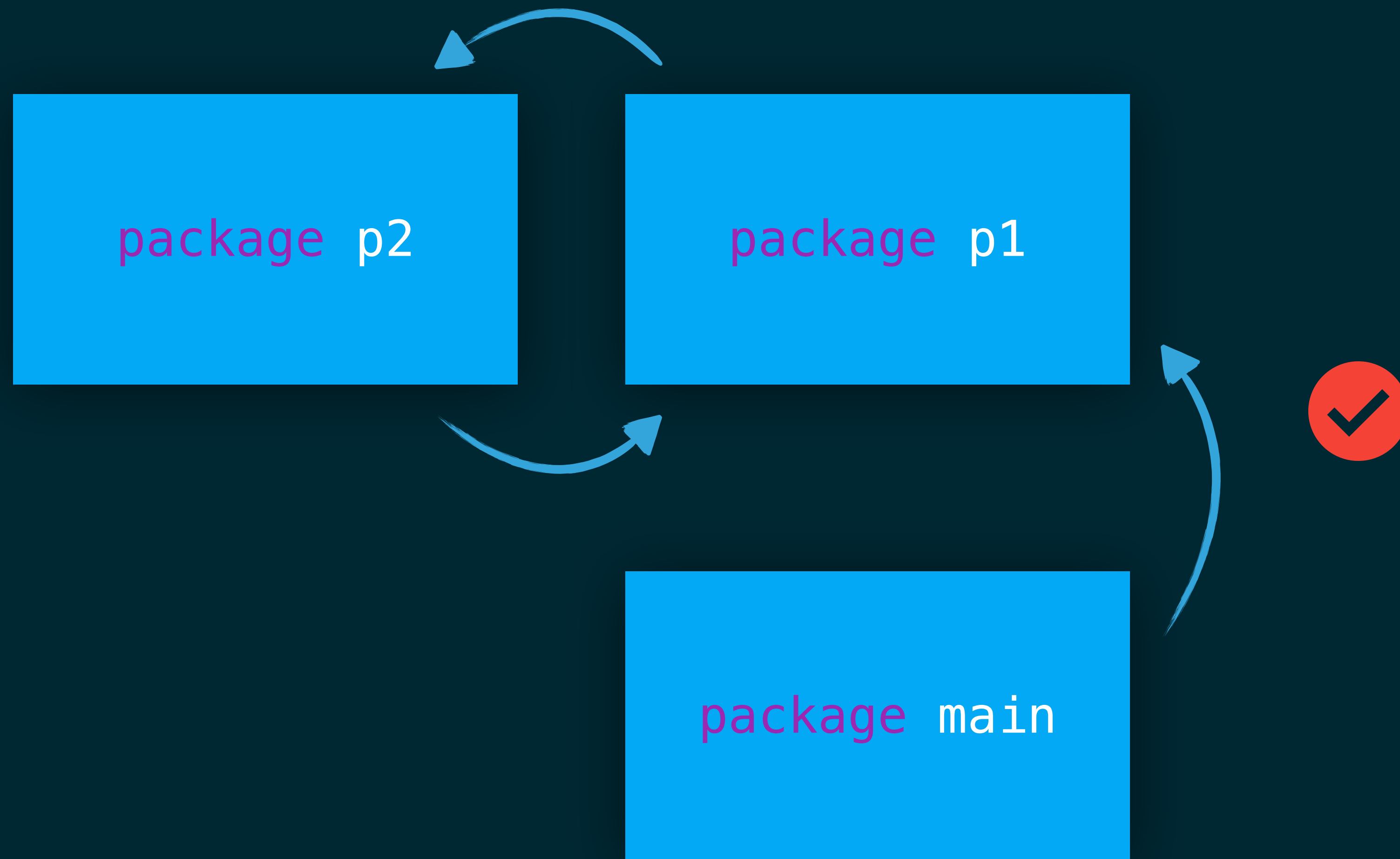
PACKAGE



\$GOPATH



CROSS REFERENCE



FILE GLOBALS & LOCALS

Locals

package name

imports

Globals

constants

variables

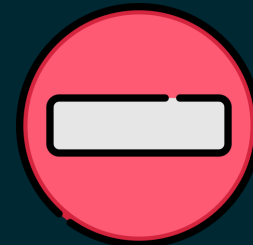
functions



TEST FILES

p1_test.go

package p1



p2_test.go

package p2



PACKAGE VISIBILITY (SCOPE)



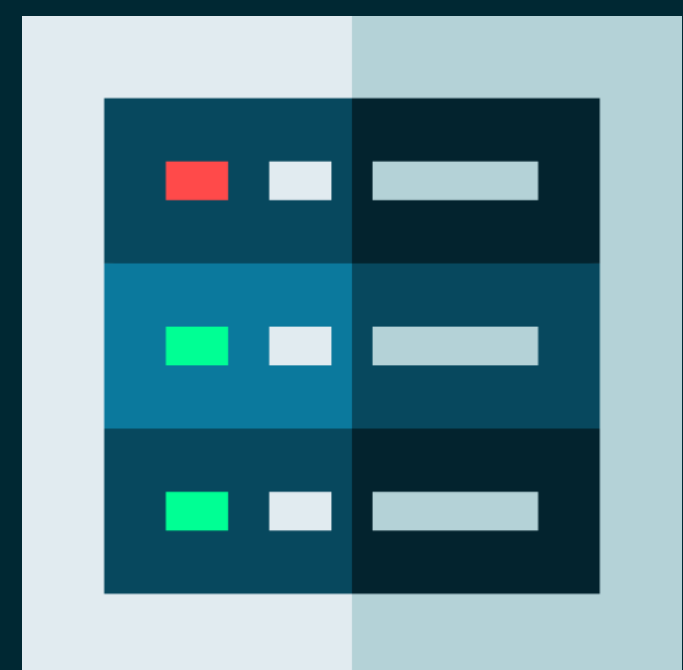
Exported

Visible & accessible in all files
of the same package & outside the package

unExported

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

GO GET



github.com



steevehook



repo



`$GOPATH/src`

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

SPECIAL DIRECTORIES



vendor



internal



pkg



cmd



.dir



_dir



testdata

