



# 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

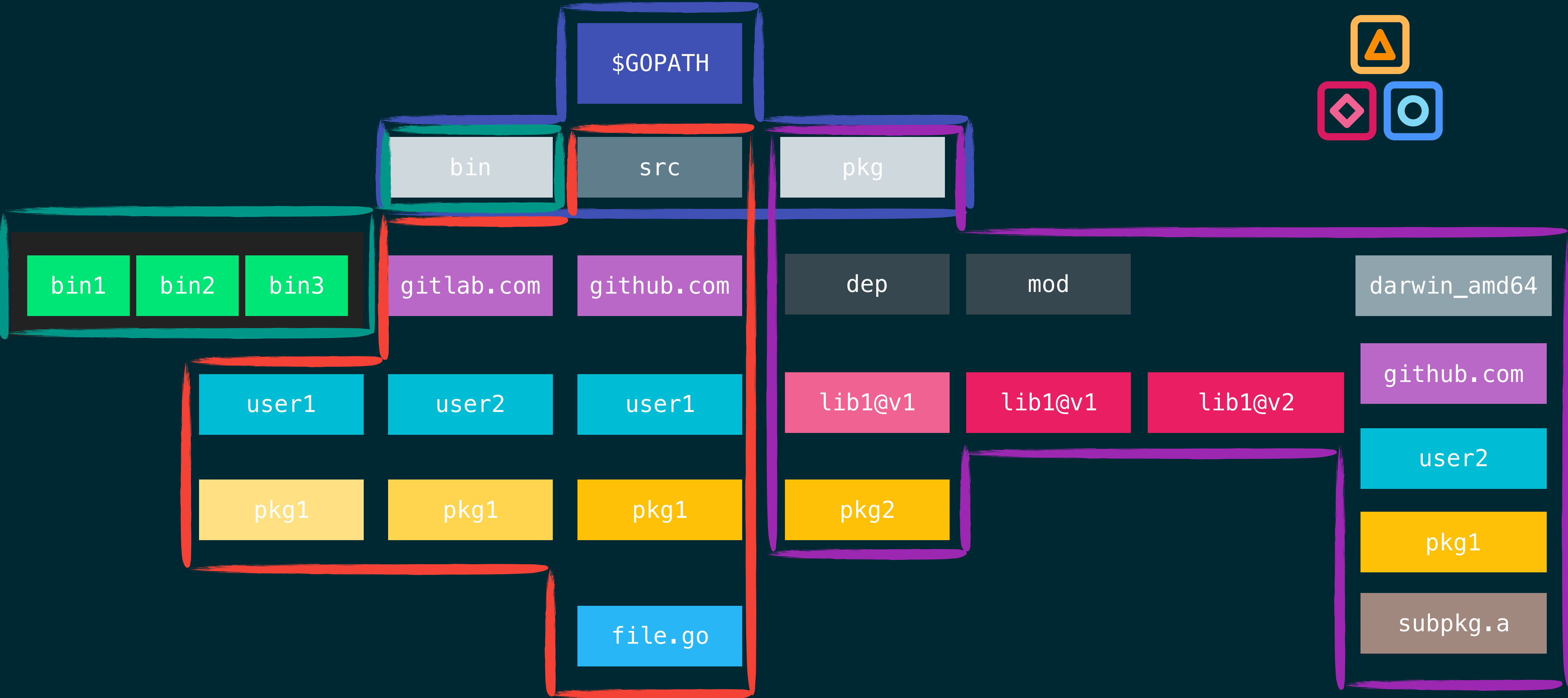
USER/ORGANIZATION

PROJECT/REPO

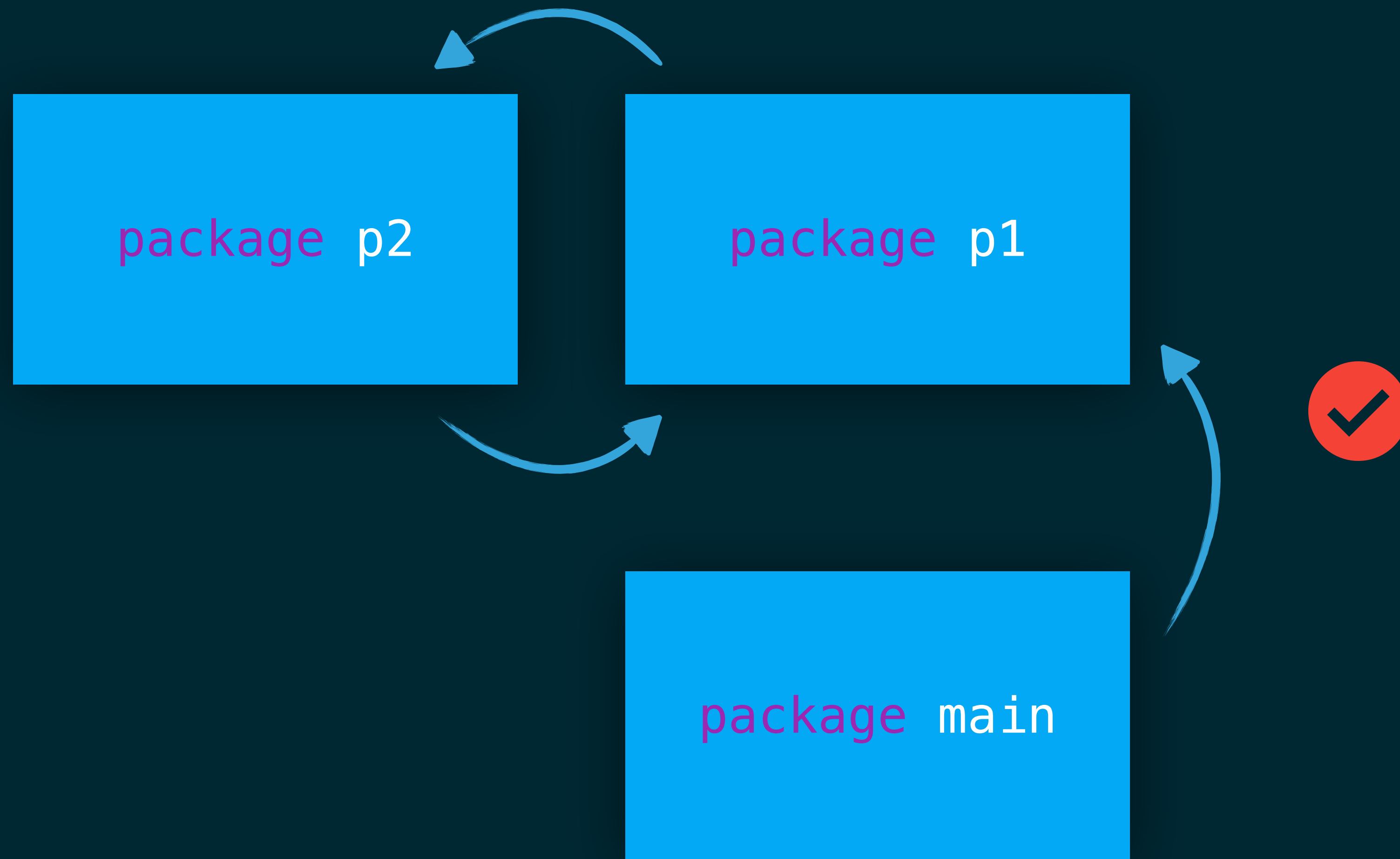
PACKAGE



# \$GOPATH



# CROSS REFERENCE





# FILE GLOBALS & LOCALS

## Locals

package name

imports

## Globals

constants

variables

functions

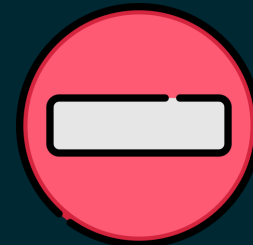
types



# TEST FILES

p1\_test.go

package p1



p2\_test.go

package p2



# PACKAGE VISIBILITY (SCOPE)



## Exported

---

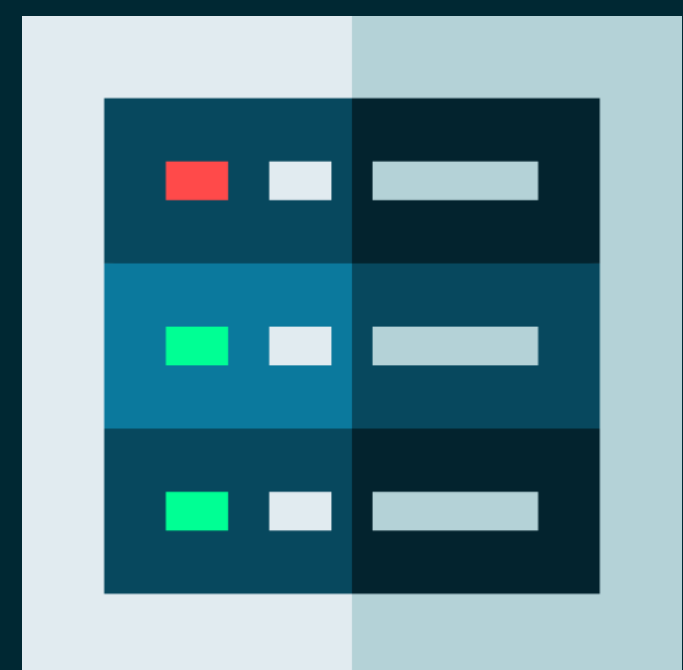
Visible & accessible in all files  
of the same package & outside the package

## unExported

---

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

# GO GET



github.com



steevehook



repo



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

`$GOPATH/src`

# SPECIAL DIRECTORIES



vendor



internal



pkg



cmd



.dir



\_dir



testdata

