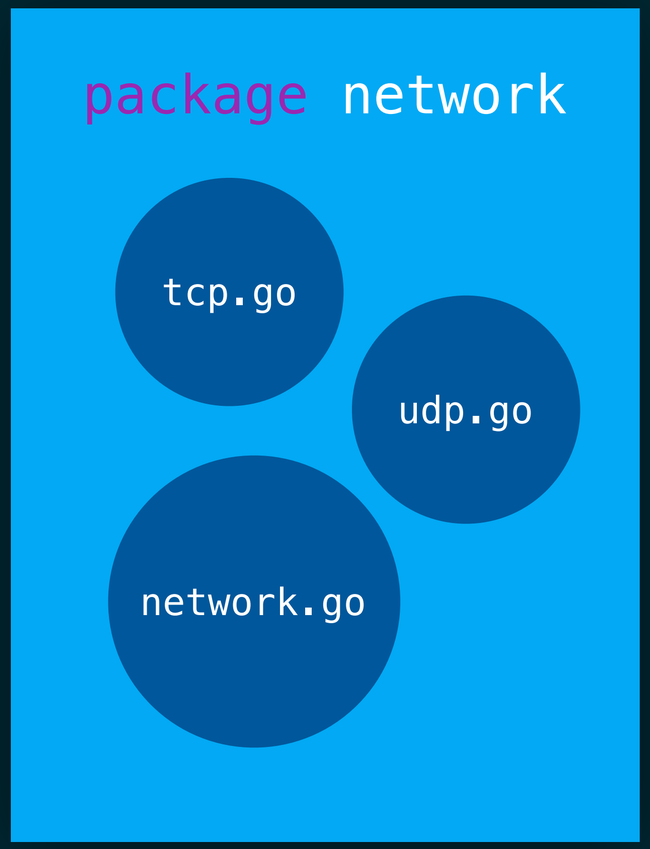
Packages in Go

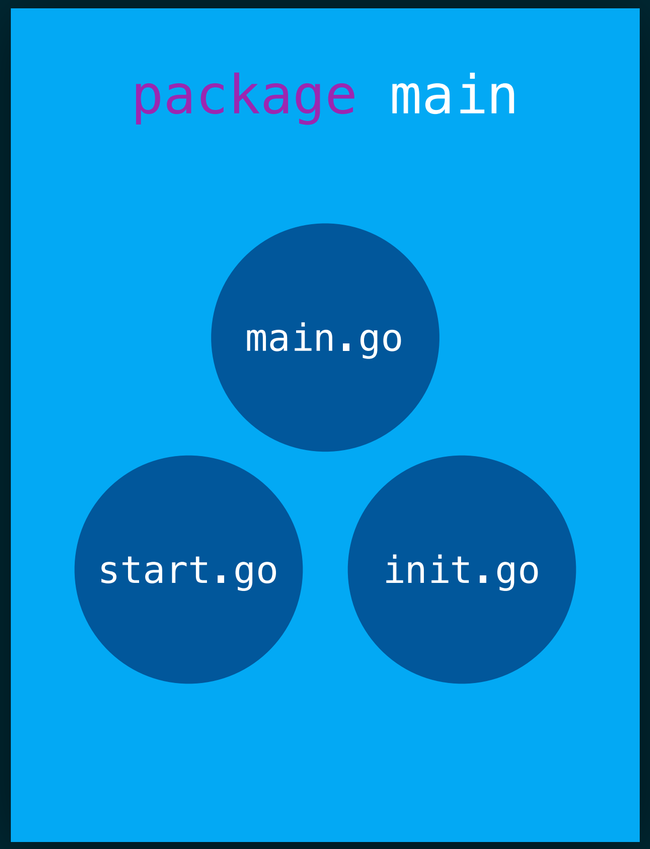
PACKAGE SYNTAX

```
package pkg

// code
```

PACKAGE STRUCTURE





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

```
package network
```

src/net

```
package network
```

src/net_err

```
package net_err
```

src/netErr

```
package netErr
```

src/utils

```
package utils
```

src/pkg

src/sub_pkg

src/sub_pkg

src/sub_pkg

src/network

network.go

tcp.go

udp.go

src/pkg

```
package main
```

```
package pkgA
```

```
package pkgB
```

PACKAGE IMPORTS

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

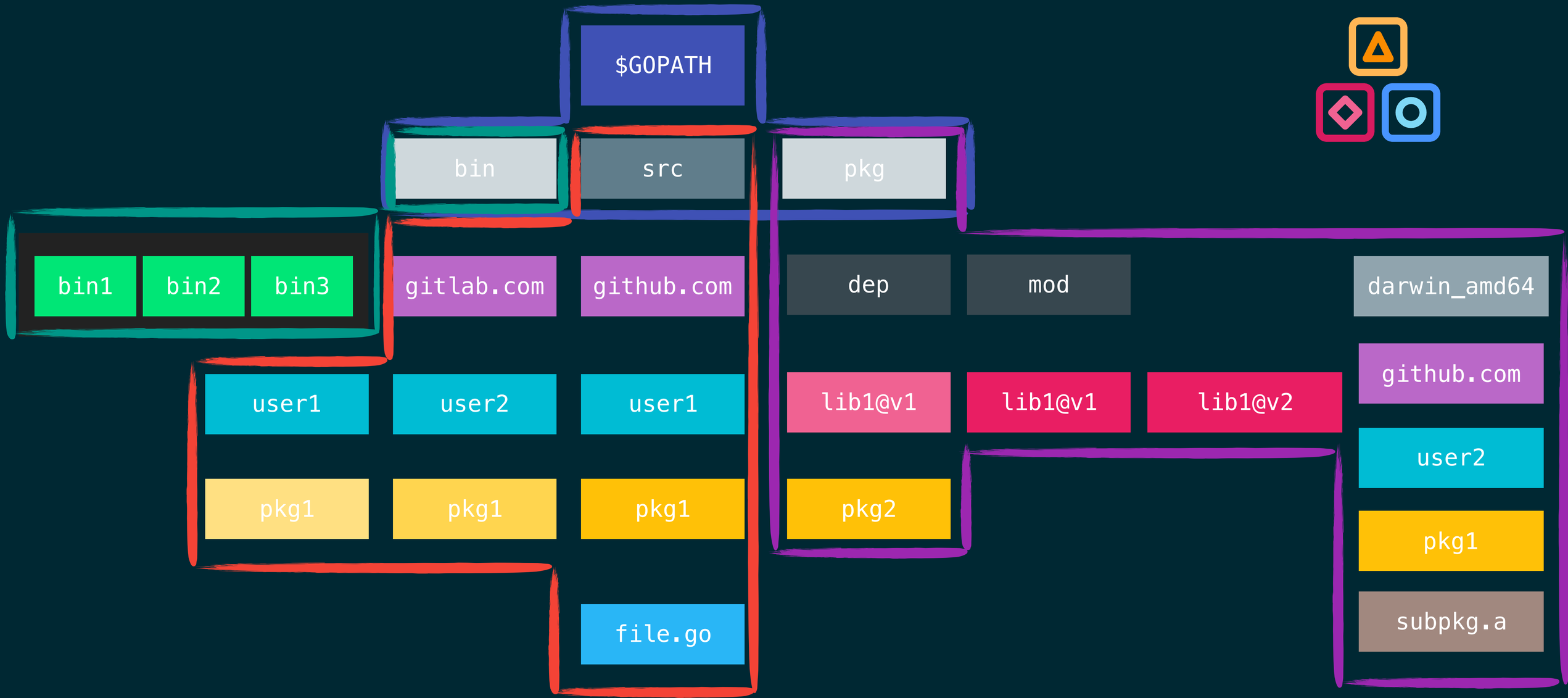
HOST

USER/ORGANIZATION

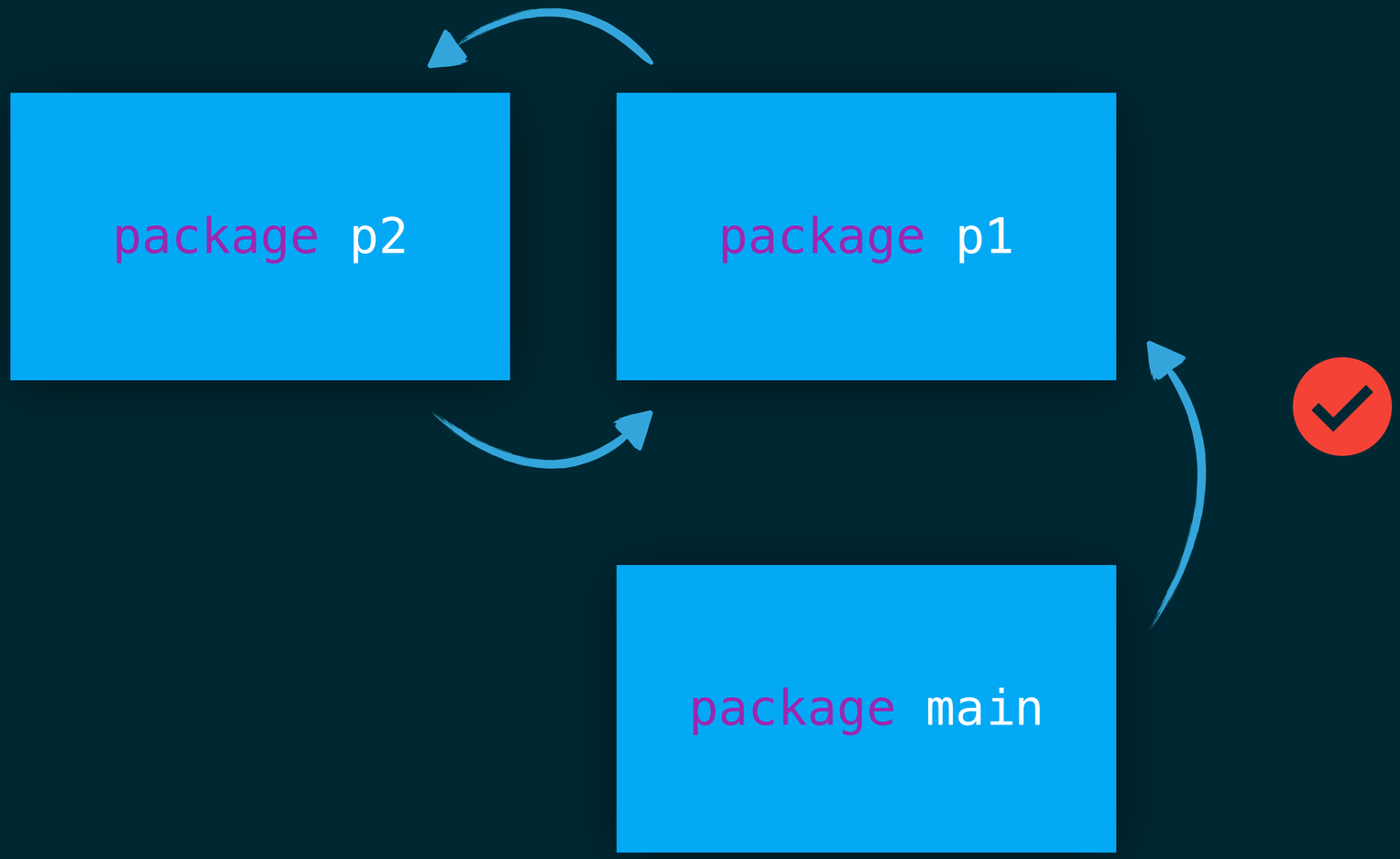
PROJECT/REPO

PACKAGE

$GOPATH


$GOPATH
bin
src
pkg
bin1
bin2
bin3
gitlab.com
github.com
dep
mod
darwin_amd64
user1
user2
user1
lib1@v1
lib1@v1
lib1@v2
github.com
user2
pkg1
pkg1
pkg1
pkg2
pkg1
file.go
subpkg.a

CROSS REFERENCE



FILE GLOBALS & LOCALS

Locals

- package name
- imports

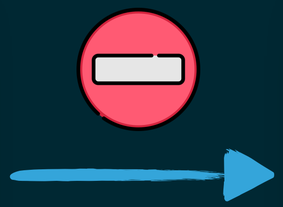
Globals

- constants
- variables
- functions

TEST FILES

p1_test.go

```
package p1
```



p2_test.go

```
package p2
```

PACKAGE VISIBILITY (SCOPE)

Exported

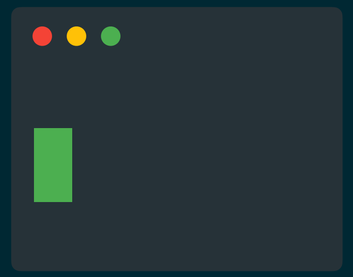
Visible & accessible in all files
of the same package

unExported

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

GO GET

github.com steevehook repo



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

$GOPATH/src