

Packages and Imports

This lesson explains how to import different libraries and packages in GO

WE'LL COVER THE FOLLOWING ^

- Packages
- Import statement examples

Packages

Every Go program is made up of packages. Programs start running in package `main`.

Environment Variables ^

Key:	Value:
GOPATH	/go

```
package main
import "fmt"

func main() {
    fmt.Printf("Hello, World!\n")
}
```



If you are writing an executable code (versus a library), then you need to define a `main` package and a `main()` function which will be the entry point to your software.

By convention, the package name is the same as the last element of the import path. For instance, the “math/rand” package comprises files that begin with the statement package rand.

Import statement examples

Environment Variables



Key: Value:

GOPATH /go

```
import "fmt"
import "math/rand"
```



Or grouped:

Environment Variables



Key: Value:

GOPATH /go

```
import (
    "fmt"
    "math/rand"
)
```



Check out the two links below for more information about *packages* and *imports* in GO.

- [Go Tour: Packages](#)
- [Go Tour: Imports](#)

Below are two examples showing how to use each of these imports.

Environment Variables



Key: Value:


GOPATH /go




```
package main

import (
    "fmt"
    "math/rand"
)


func main() {
    fmt.Println("My favorite number is", rand.Intn(10))
}
```







Down below is another example to help further understand how imported packages can be used.


Environment Variables 


Key:	Value:
GOPATH	/go




```
package main

import (
    "fmt"
    "math"
)

func main() {
    fmt.Printf("Now you have %g problems.", math.Sqrt(7))
}
```







Usually, nonstandard lib packages are namespaced using a *web url*. For instance, there is some Rails logic ported to GO, including the cryptography code used in *Rails 4*. The source code is hosted on **GitHub** containing a few packages, in the following repository:

<http://github.com/mattetti/goRailsYourself>

To import the crypto package, you would need to use the following import statement:

Environment Variables 

Key:	Value:
GOPATH	/go

```
import "github.com/mattetti/goRailsYourself/crypto"
```



The next lesson further explains this in more detail. Read on to find out more!

