

Introduction

🕒 Created	@Jan 18, 2021 3:58 PM
🏷️ Tags	Lesson

From the Get Go

- Go / Golang is an open-sourced programming language designed by Google employees Robert Griesemer, Rob Pike, and Ken Thompson
- Go aims to “eliminate the slowness and clumsiness of software development at Google, and thereby to make the process more productive and scalable”
- Go has modern features like *garbage collection* and takes advantage of multi-core computer capabilities with *built-in concurrency support*.

Compiling / Running

- `go build main.go` Compiles the program `main.go` similar to compiling a C program
- `./main` Is then used to execute the built programming - forgoing its `.go` extension
- `go run main.go` Can be used to immediately compile and run a program, and does **not** create an executable file

Packages

- Every Go program starts with a *package declaration*.
- `package main` tells the compiler the program is an executable, not a library
- The `import` keyword brings in code from other packages
- `import "fmt"` imports the format (pronounced "fumpt") that contains IO functions like `Println`
- To import multiple packages wrap the packages in `()` parentheses. Aliases can be given before a package name to make referencing easier

```
import (  
    "fmt"  
    t "time"  
)
```

Basic Structure

- The `func` keyword denotes the start of a function declaration.
- `func` is followed by the name of the function.
- After name is a pair of parentheses `()` and a set of curly braces `{}`
- Comments are similar to Java `//` for single line `/* */` for multi line

Go Resources

- `go doc` pulls up documentation.
- `go doc time` search specific packages with a space
- `go doc time.Now` search specific functions with a period

```
package main  
  
import "fmt"  
  
//This is a basic Go Program that prints "Hello World"  
  
func main() {  
    fmt.Println("Hello World")  
}
```

Quiz Scorecard

100%

👏 Great job!

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