# **Contents**

1	Chapter one	3
	Command Line Arguments	3
	Variables	4

2 CONTENTS

### Chapter 1

## Chapter one

Go code is organised into packages, which are similar to libraries or modules in other languages. A package consists of one or more .go source files in a single directory that define what the packages does.

Each source file begins with a package declaration, here package main that states which package the file belongs to, followed by a list of other packages that it imports, and then the declarations of the program that are stored in that file.

the fmt package contains functions for printing formatted output and scanning input. Println is one of the basic output functions in fmt; it prints one or more values, seperated by spaces, with a newline character at the end so that the values appear as a single line of output.

Package main is special. It defines a standalone executable program, not a library. Within package main the *function* main is also special – it's where execution of the program begins. Whatever main does is what the program does. ofcourse, main will normally call upon functions in other packages to do much of the work, such as function fmt.Println.

### **Command Line Arguments**

The Variable os. Args is a *slice* of strings. Slices are a fundamental notion in Go. A slice is a dynamically sized sequence s of array of elements where individual elements can be accessed by s[i] and a contiguous subsequence as s[m:n]

The number of elements is given by len(s).

The first element of os.Args, os.Args [0], is the name of the command itself; The other elements are arguments that were presented to the program when it started execution

```
for _, arg := range os.Args[1: ] {
    s += sep + arg
    sep = " "
}
fmt.Println(s)
```

here range produces two values, index and value of the element at that index so arg handles value and \_ handles the index

#### **Variables**

The version of strings above uses short variable declaration There are several other ways to declare a variable in go

```
s := ""

var s = ""

var s string

var s string = ""
```