## **Functions**



#### Nigel Poulton

@nigelpoulton | www.nigelpoulton.com

# Module Overview



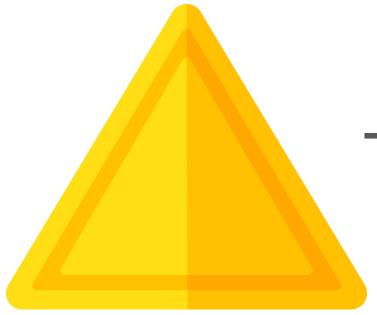
Why do we use functions?

Defining functions in Go

The main function

**Custom functions** 

Introduce some advanced topics



# This stuff is **IMPORTANT**

# Why Use Functions

**Functions** enable to us to write clean, tidy, modular code.





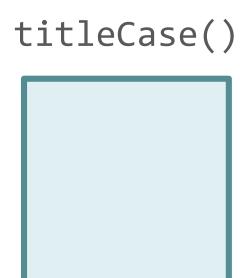




### How Functions Work

At a high level...

hello pluralsight



#### titleCase()

## hello pluralsight

(Parameters)

# Hello Pluralsight

(return values)

# **Function Syntax**

func keyword

All statements within a function enclosed within {}

```
fent titleelse() l@ralsight"
fmt.Pfqoddn(titlecase(text))
}
```

func keyword

All statements within a function enclosed within {}

```
text := "hello pluralsight"
fmt.Println(titlecase(text))

func titlecase(text)

{ code>
} return text
}
```

#### func keyword

All statements within a function enclosed within {}

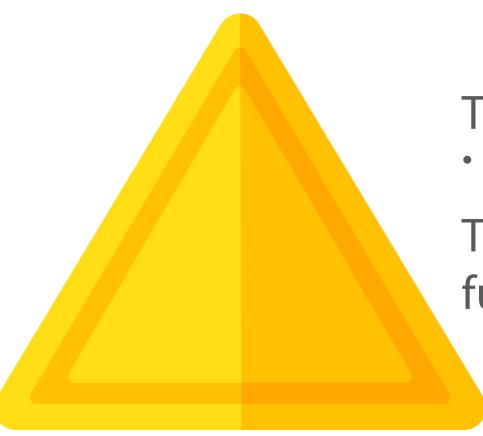
Parameters and returns are defined within the function signature

The **return** keyword exits a function

# **Function Basics**

# **Variadic Functions**

# Summary



#### This stuff is **IMPORTANT!**

Make sure you understand it!

There is **sooooo much more** to functions!

# Summary

#### Why Functions

- Concise code
- re-usable code
- Easy code to test
- Easy code to debug

#### **Variadic Functions**

```
(value1 ...string) {}
```

#### Function Syntax

```
func funcName(value1 string) string {
<code>
}
```