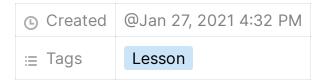
# **Fmt Package**



## **Fmt Package**

- fmt helps us format data which is why it's referred to as "format" though technically it's pronounced "fumpt"
- In addition <a href="Println(">Println()</a>) there is also...
  - Print()
  - Printf()
  - Sprint()
  - Sprintln()
  - Sprintf()
  - etc...

# **Printing**

- fmt.Println() prints its arguments (data provided within its parentheses ())
  with an included space in between each argument and adds a line break at
  the end.
  - Code:

```
fmt.Println("Println", "formats", "really well")
fmt.Println("Right?")
```

• Output:

```
Println formats really well Right?
```

• fmt.Print() does not include the spaces or line break

Fmt Package 1

• Code:

```
fmt.Print("The answer is", ": ")
fmt.Print("12")
```

• Output:

```
The answer is: 12
```

- fmt.Printf() is used to interpolate strings
  - 🐒 is a placeholder known as a *verb* in Go
  - Code:

```
guess := "C"
fmt.Printf("Is %v your final answer?", guess)
```

• Output:

```
Is C your final answer?
```

#### **Different Verbs**

- In addition to W Go has a variety of helpful verbs
  - prints the type of the argument
  - %d interpolates a number into a string
  - %f interpolates a float into a string
  - %.2f limits the precision to 2 digits

### **Sprint and SprintIn**

- fmt.sprint() and fmt.sprintln() are used to format strings, but do not output
  anything
- Code:

```
step1 := "Breathe in..."
step2 := "Breathe out..."
meditation := fmt.Sprintln(step1, step2)
```

Value of meditation:

```
Breathe in... Breathe out...
```

### **Sprintf**

Fmt Package 2

- like fmt.Printf(), fmt.Sprintf() can use verbs
- Code:

```
correctAns := "A"
  answer := fmt.Sprintf("And the correct answer is... %v!", correctAns)
Value of answer:
```

And the correct answer is... A!

## **Getting User Input**

• fmt.Scan() allows us to get user input

```
fmt.Println("How are you doing?")
var response string
fmt.Scan(&response)
fmt.Printf("I'm %v.", response)
```

#### Terminal:

```
How are you doing?
good
I'm good.
```

3 Fmt Package