

# Unit 2—Lesson 2:

## Functions

# Functions

```
tieMyShoes()
```

```
makeBreakfast(food: "scrambled eggs", drink: "orange juice")
```

# Functions

## Defining a function

```
func functionName (parameters) -> ReturnType {  
    // Body of the function  
}
```

```
func displayPi() {  
    print("3.1415926535")  
}
```

```
displayPi()
```

3.1415926535

# Parameters

```
func triple(value: Int) {  
    let result = value * 3  
    print("If you multiply \(value) by 3, you'll get \(result).")  
}
```

```
triple(value: 10)
```

If you multiply 10 by 3, you'll get 30.

# Parameters

## Multiple parameters

```
func multiply(firstNumber: Int, secondNumber: Int) {  
    let result = firstNumber * secondNumber  
    print("The result is \(result).")  
}
```

```
multiply(firstNumber: 10, secondNumber: 5)
```

The result is 50.

# Return values

```
func multiply(firstNumber: Int, secondNumber: Int) -> Int {  
    let result = firstNumber * secondNumber  
    return result  
}
```

# Return values

```
func multiply(firstNumber: Int, secondNumber: Int) -> Int {  
    return firstNumber * secondNumber  
}
```

```
let myResult = multiply(firstNumber: 10, secondNumber: 5)  
print("10 * 5 is \ (myResult)")
```

```
print("10 * 5 is \ (multiply(firstNumber: 10, secondNumber: 5))")
```

```
func multiply(firstNumber: Int, secondNumber: Int) -> Int {  
    firstNumber * secondNumber  
}
```

# Unit 2—Lesson 2

## Lab: Functions



Open and complete the exercises in Lab – `Functions.playground`



