#### A Swift Kickstart

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### Functions

# Create a playground

We'll do this first section together

Start Xcode

Create an iOS Playground named Functions

#### No Parameters

```
func helloWorld1() {
    print("Hello, ")
    println("World!")
    println("From beautiful Las Vegas, NV")
}
helloWorld1()
```

#### One Parameter

```
func helloWorld2(name: String) {
    print("Hello, ")
    println("\(name)")
    println("From beautiful Las Vegas, NV")
}
helloWorld2("CocoaConf")
```

## Multiple Parameters

## Overloading

Change the function names to hello() and call the second from the first and third

```
func hello() {
    hello("World")
func hello(name: String) {
    print("Hello, ")
    println("\(name)")
    println("From beautiful Las Vegas, NV")
func hello(name: String,
    numberOfTimes: Int) {
        for i in 1 ... numberOfTimes {
            hello(name)
        }
```

#### Default Values

```
func helloWorld3(name: String = "World") {
    print("Hello, ")
    println("\(name)!")
    println("From beautiful Las Vegas, NV")
}
helloWorld3()
helloWorld3(name: "CocoaConf Friends")
```

## Default Values (cont)

#### External Names

### External Names (cont)

```
func hi(_ name: String = "World") {
    println("Hello, \(name)!")
}
hi("CocoaConf Companion")
```

#### Variadic Parameters

```
func hello(people: String...) {
    for person in people {
        hi(person)
    }
}
hello()
hello("Friend", "Buddy", "Companion")
```

#### Return Values

```
func hello(name: String = "World") -> String {
    return "Hello, \(name\)"
}

println(hello())
println(hello(name:"CocoaConf Cats"))
```

# Return Values in the Playground

```
func hello(name: String = "World") -> String {
    return "Hello, \(name\)"
}
hello()
hello(name: "CocoaConf Cats")
```

# Tuples

```
func helloFriends(people: String...) -> (numberOfFriends: Int, greeting: String) {
   var tempGreeting = "Hello, "
   for person in people {
       tempGreeting += person + "\n"
   }
   return (people.count, tempGreeting)
}

helloFriends("A","B","C").numberOfFriends
helloFriends("A","B","C").greeting
```

# Try this

- Create a function named display() that takes a single String parameter named the Character and returns a String
- theCharacter has default value "\u{2615}
- Call the function without any arguments
- Call the function with the argument "\u{266C}"

# Try this

```
func display(theCharacter: String = "\u{2615}") -> String {
    return theCharacter
}

display()
display(theCharacter: "\u{266C}")
```





Introducing the Swift Programming Language

Editors Cut

https://itunes.apple.com/us/book/a-swift-kickstart/id891801923?mt=11&uo=4&at=11I56E