THE MANY FORMS OF SWIFT FUNCTIONS — A CHEATSHEET

```
No parameters, no return value
     func foo()
     called with
     foo()
No parameters, return type
     func foo() -> Int
     called with
     var a = foo()
Single parameter, no return value
     func foo(bar: Int)
     called with
     foo(10)
Single parameter, return value
     func foo(bar: Int) -> Int
     called with
     var a = foo(10)
Multiple parameters, return value
     func foo(bar: int, bash: String) -> Int
     called with
     var a = foo(10, "hello")
One or more parameters, multiple return values
     func foo(bar: Int) -> (bash: Int, baz: String)
     called with
     var a = foo(10, "Hello")
     a.bash = ...
     a.baz = "..."
```

```
One or more parameters, optional multiple return values
     func foo(bar: Int) -> (bash: Int, baz: String)?
     called with
     if let a = foo(10) {
         println ("Bash is \(bash) and baz is \(baz)")
Default parameters
     func foo(bar: Int, bash: String = "bash!") -> Int
     called with
     var a = foo(10)
     var b = foo(10, "bling!")
External parameter names
     func foo(externalBar bar: Int) -> Int
     called with
     var a = foo(externalBar: 10)
Shorthand external parameter names
     func foo(#bar: Int, #bash: String) -> Int
     called with
     var a = foo(bar: 10, bash: "Bling!")
External parameter names with default parameters
     func foo(#bar: Int, bash: String = "bash!") -> Int
     called with
     var a = foo(bar: 10)
     var b = foo(bar: 10, bash: "Bling!")
Variadic parameters
     func foo(bar: Int, bash: String...) -> Int
     called with
     var a = foo(10, "Bling!", "Clang!")
Variable parameters
```

```
func foo(var bar: Int, var bash: String) -> Int
    called with

var a = foo(10, "Bling!")

In-out parameters
    func foo(inout bar: Int, inout bash: String)
    called with

var x = 10
var y = "Bling!"
foo(&x, &y)
```