

SWIFT 3.0 COVERED

SWIFT 3.0

STRUCTS VS CLASSES



Write the code. Change the world.

STRUCTS VS CLASSES

- ✱ structs does not support inheritance.
- ✱ Class supports inheritance
- ✱ Structures are value types
- ✱ Classes are reference types
- ✱ Structures are passed by value
- ✱ Classes are passed by reference
- ✱ Classes can implement deinitializers and freaup resources and Structures can't.

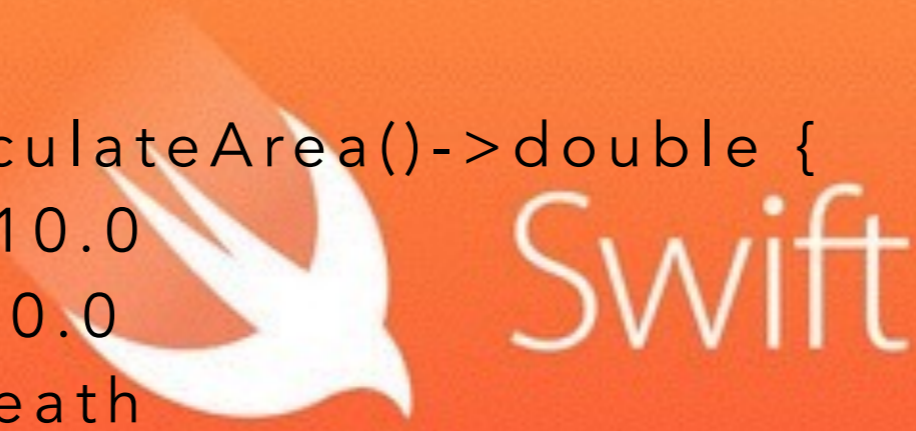


MUTATING FUNCTIONS IN SWIFT

- ✿ Mutating Functions are used in swift Structures as swift structures doesn't change the property values when modified in the method in the structure

Example :

```
myStruct{
var length =10.0
var breath  =20.0
mutating func calculateArea()->double {
    length=length +10.0
    breath=breath+30.0
    return length*breath
}
}
//Calling the function
let x =myStruct(width:100,height:200)
//error x.calculateArea()
var x =myStruct(width:100,height:200)
x.calculateArea()
```

The Swift logo, featuring a white silhouette of a bird in flight and the word "Swift" in a white, sans-serif font, is positioned in the center-right of the slide.

PROPERTIES IN SWIFT

- ✿ Stored Properties
- ✿ Computed Properties
- ✿ Lazy Properties

Stored Properties: Stored properties contains an Initial value when a class gets intialized.

```
class MyClass{  
var amount =100  
  
}
```



Lazy Properties : Lazy properties get intialized when they are accessed first.

```
class MyClass {  
lazy var amount =100  
}
```

```
let instance =MyClass()  
//The above step doesn't initialize amount property  
print(instance.amount) //This line intalizes amount property as its accessed  
now for the first time.
```

PROPERTIES IN SWIFT

Computed Properties : Computed properties don't store a value instead they compute the getter and setters.

```
class MyClass {  
    var width = 100.0  
    var height = 100.0  
    var area:Double {  
        get{  
            return width*height  
        }  
    }  
}
```



Note : We can define a public stored property with private setter.

```
public private(set) var amount:Double=20.0
```

PROPERTIES IN SWIFT

Computed Properties :



Swift