

Intermediate Swift

Part 4: Extensions

Extensions

- ⚙ Extensions add new functionality to classes, structs, and enums.
- ⚙ You can extend types if even you don't have the source.
- ⚙ Extensions are equivalent to Categories in Objective-C.



Extensions (cont'd)

- ⚙ Defining an extension

```
extension String {}
```

- ⚙ Implementing a protocol

```
extension String: MyProtocol { }
```

- ⚙ Add computed properties (no stored properties)

```
extension String {  
    var withExcitement: String { return self + "!" }  
}
```

Extensions (cont'd)

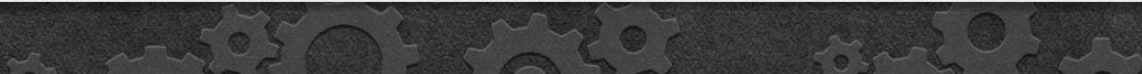
⚙ Defining an method

```
extension String {  
    func withExcitement() -> String {  
        return self + "!"  
    }  
}
```

⚙ Mutating method on a value type

```
extension String {  
    mutating func withExcitement() -> String {  
        self = self.lowercaseString + "!"  
        return self  
    }  
}
```


Demo



Challenge Time!

```
10.toPoint() // (x:10, y:10)
```

