Scoping

Swift's Scoping ("Access Control") Model

Module:

- A single unit of code distribution

- A framework or application that is built and shipped as a single unit and that can be imported by another module using Swift's import keyword

Source file:

- A single Swift source code file within a module (app or framework)

- A single source file can contain definitions for multiple types, functions, etc.

Access Levels

`public`

- entities can be used within any source file from their defining module, as well as in a source file from another module that imports the defining module. *Use for framework interface*

`internal`

- Entities can be used within any source file from their defining module, but NOT in any source file outside that module. <u>This is the default</u>. *Internal structure*

`private`

- Entities can only be used in its own defining source file. Note that <u>this is different from other languages</u>. *Use to hide implementation details*

Examples of Syntax

```
public class SomePublicClass {}

internal class SomeInternalClass {}

private class SomePrivateClass {}


public var somePublicVariable = 0

internal let someInternalConstant = 0

private func somePrivateFunction() {}
```