

Package 접근제어자 설명 및 사용 방안

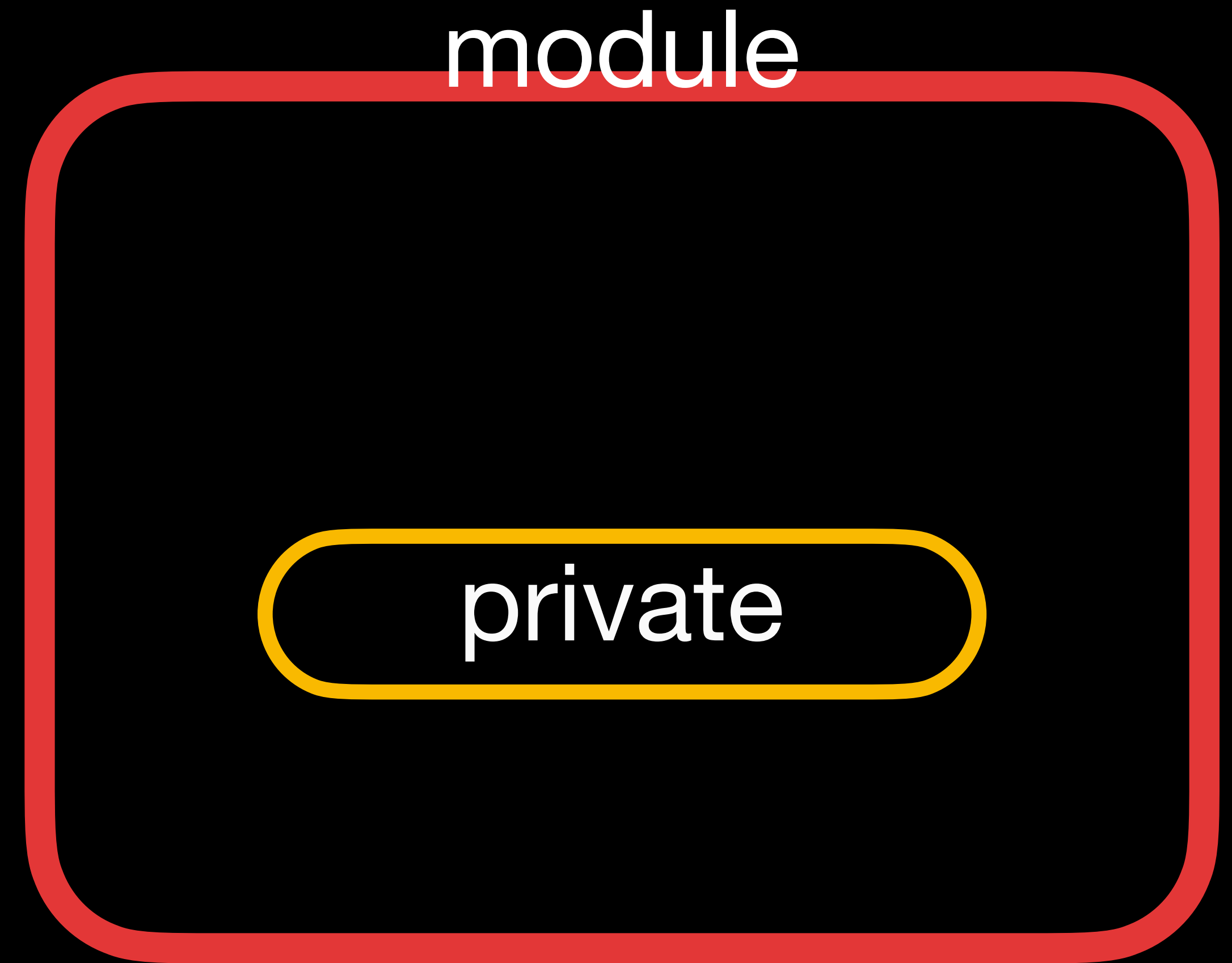
접근제어자

module



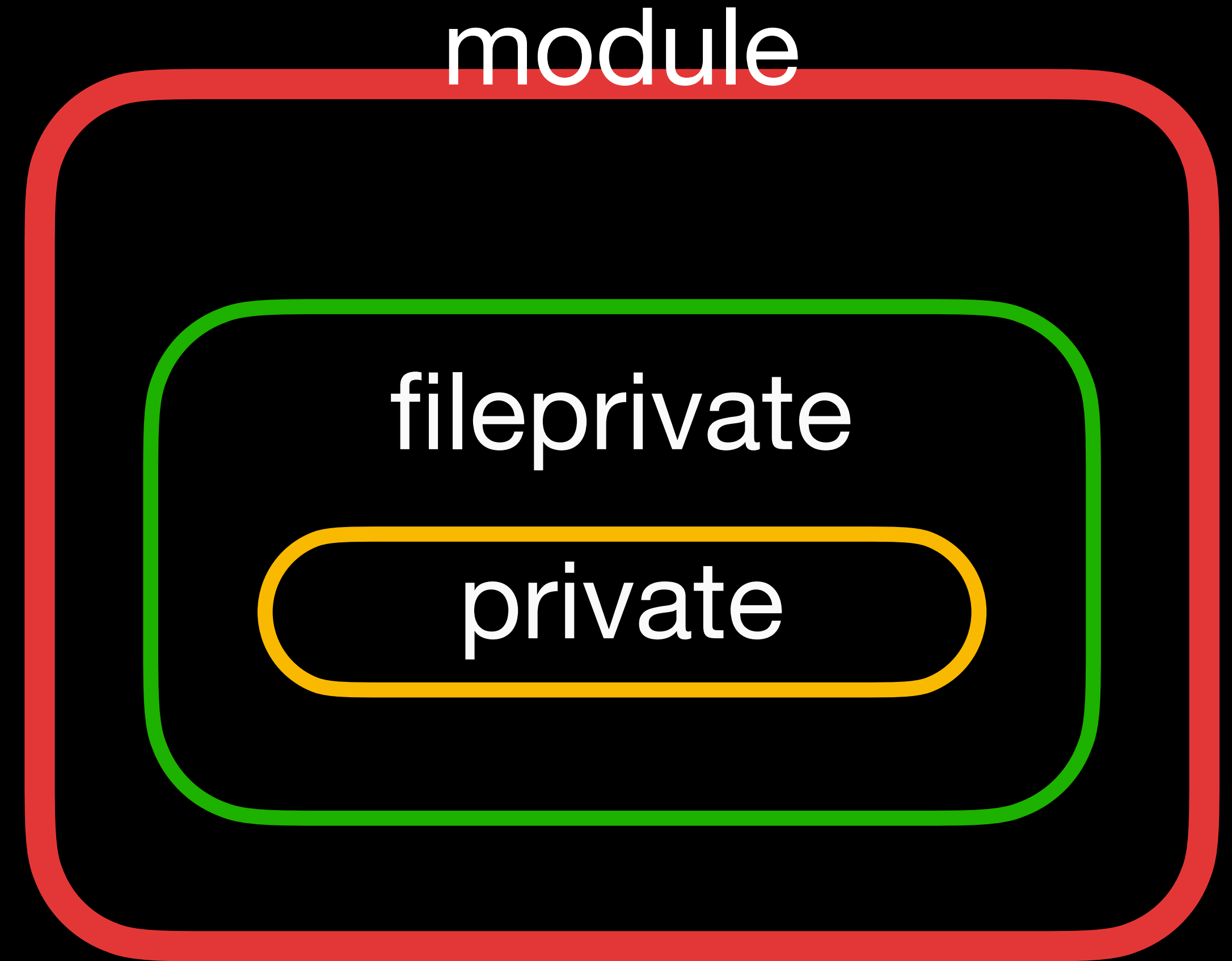
접근제어자

- private



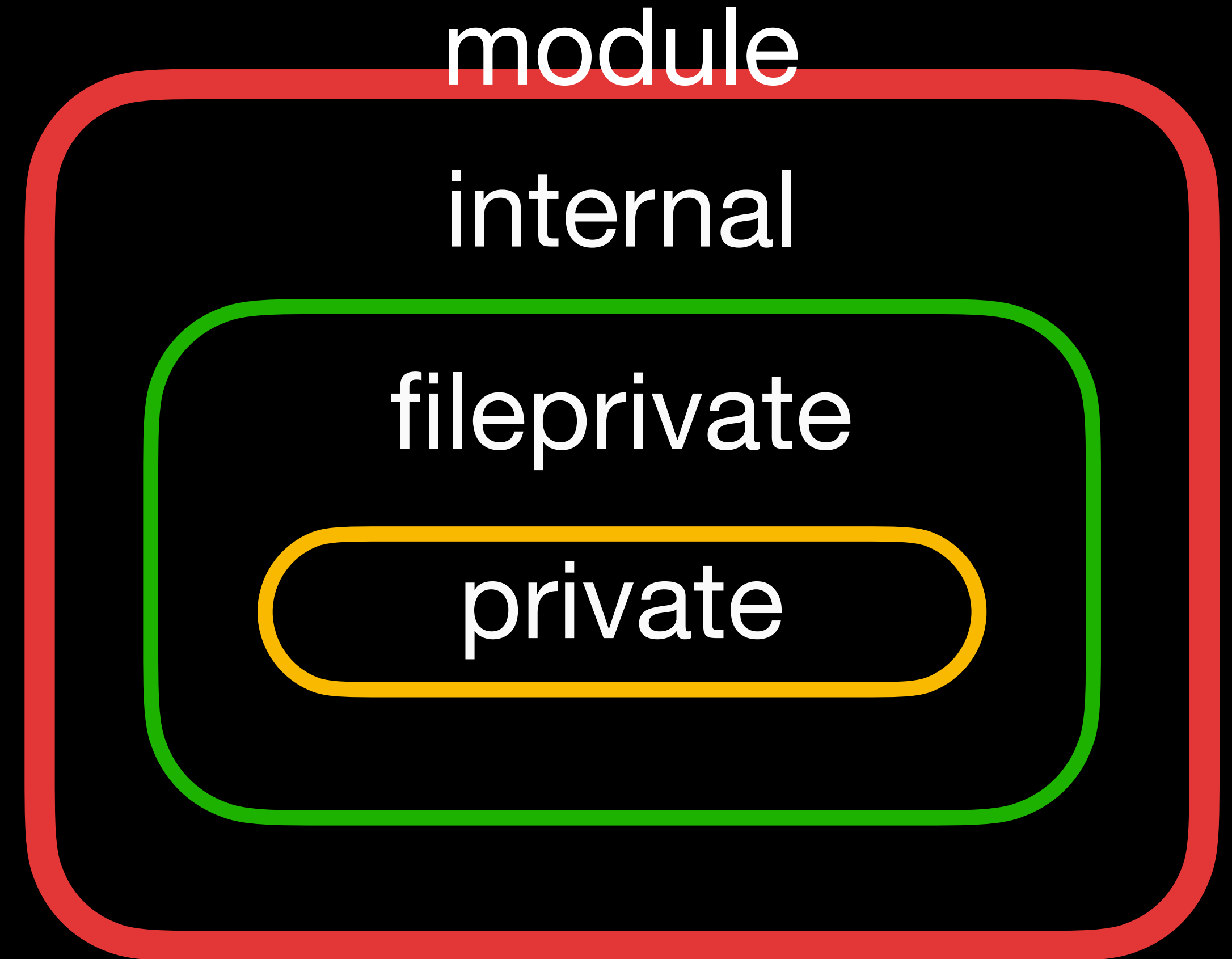
접근제어자

- private
- fileprivate



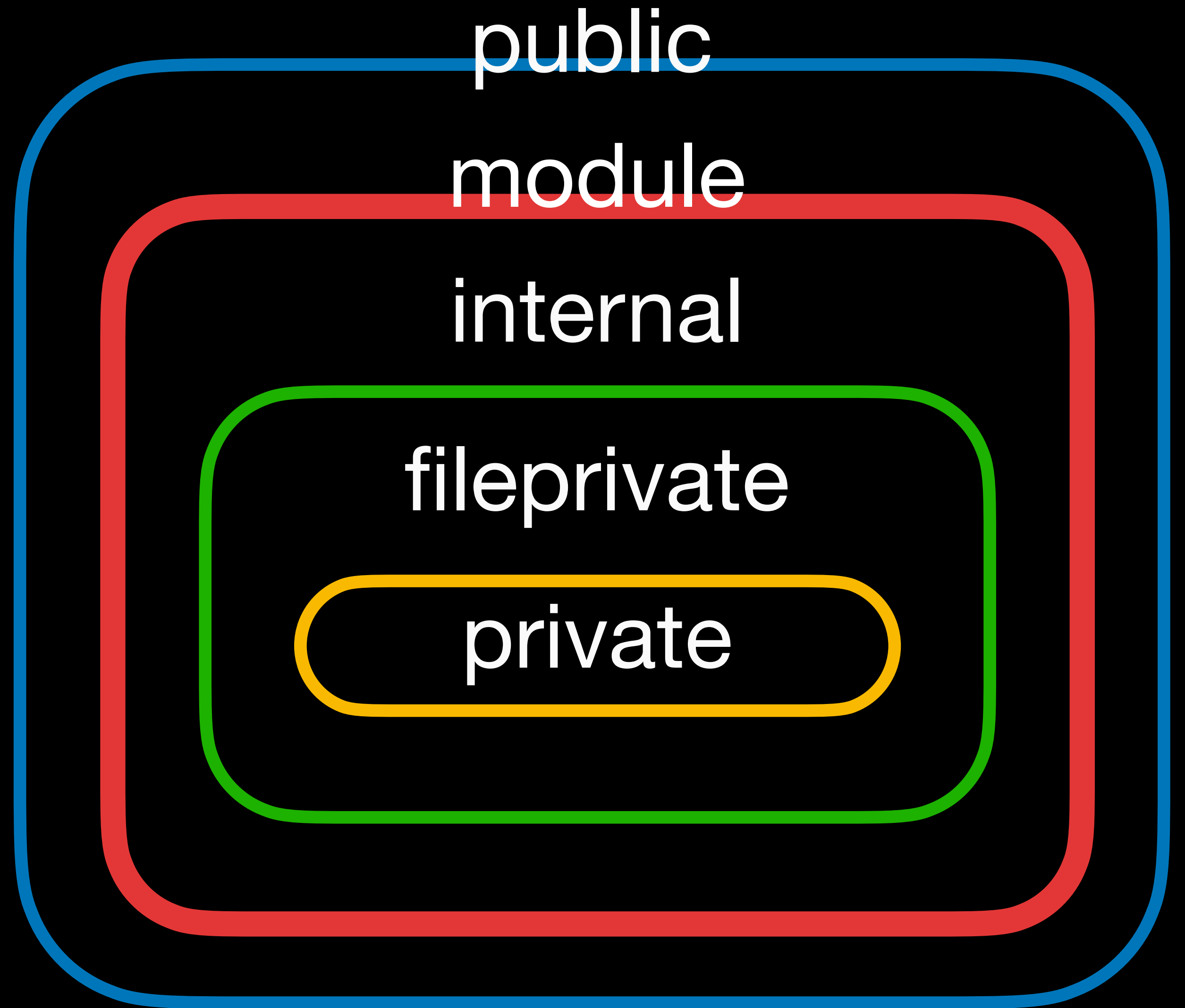
접근제어자

- private
- fileprivate
- internal



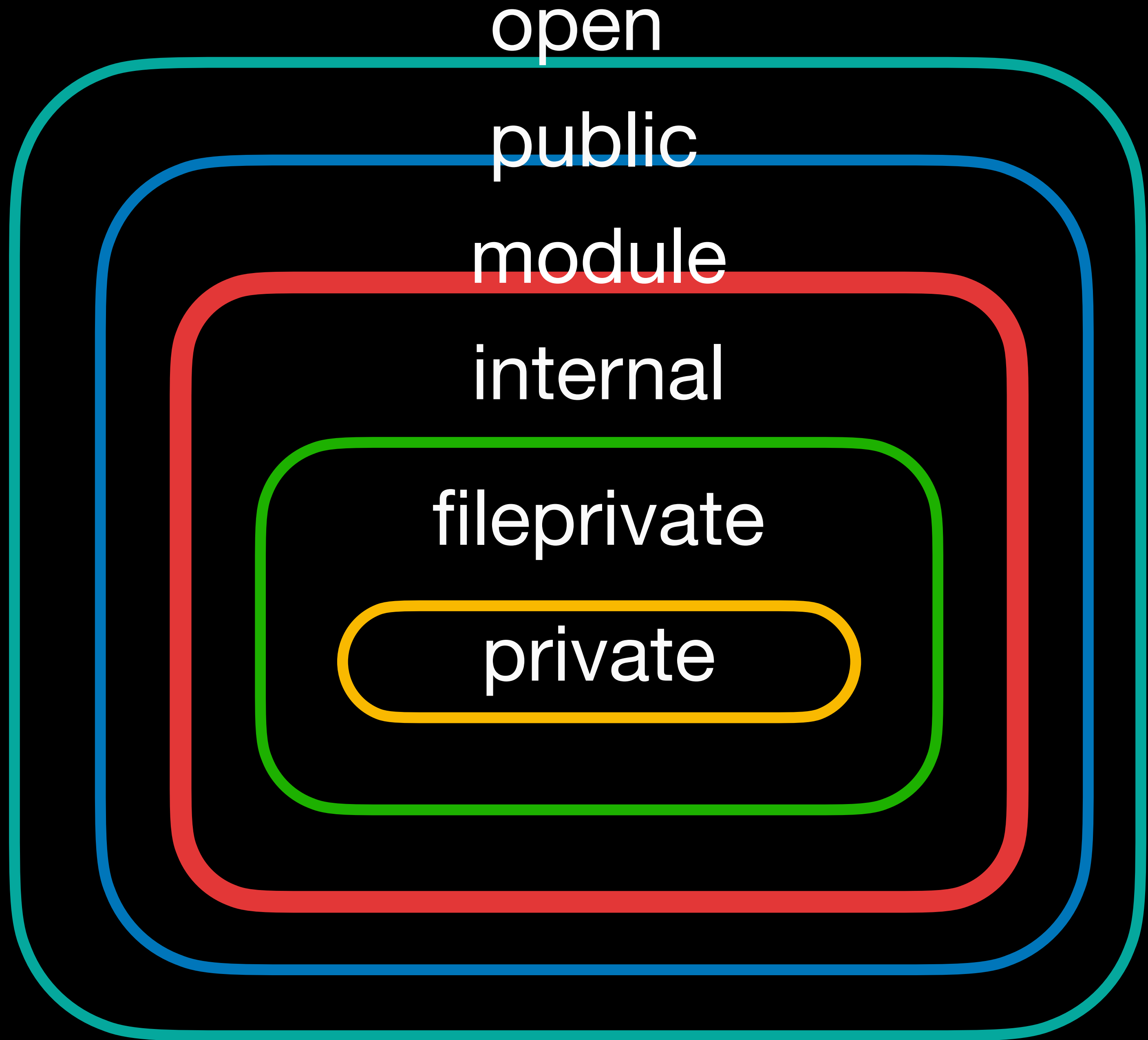
접근제어자

- private
- fileprivate
- internal
- public



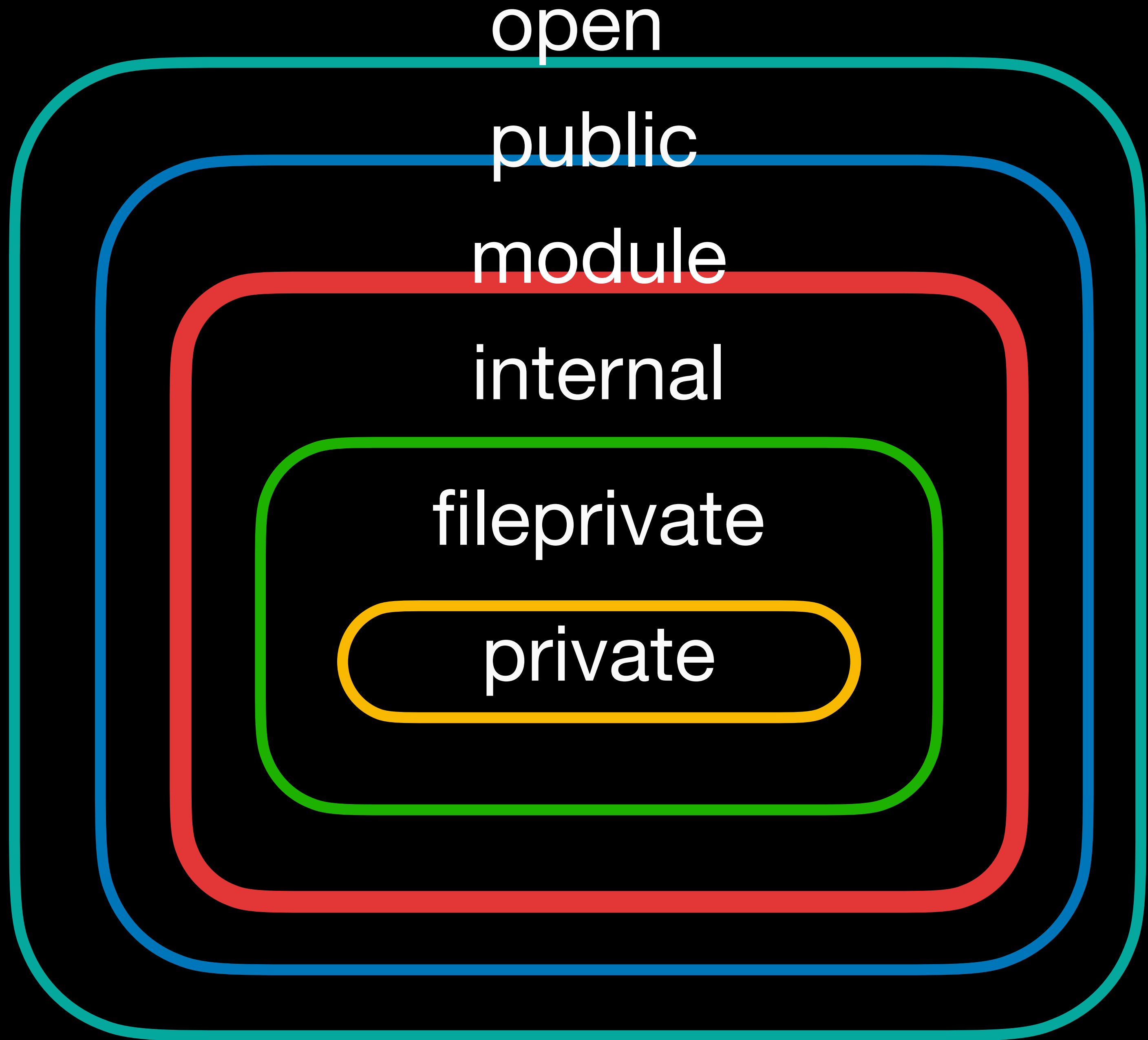
접근제어자

- private
- fileprivate
- internal
- public
- open



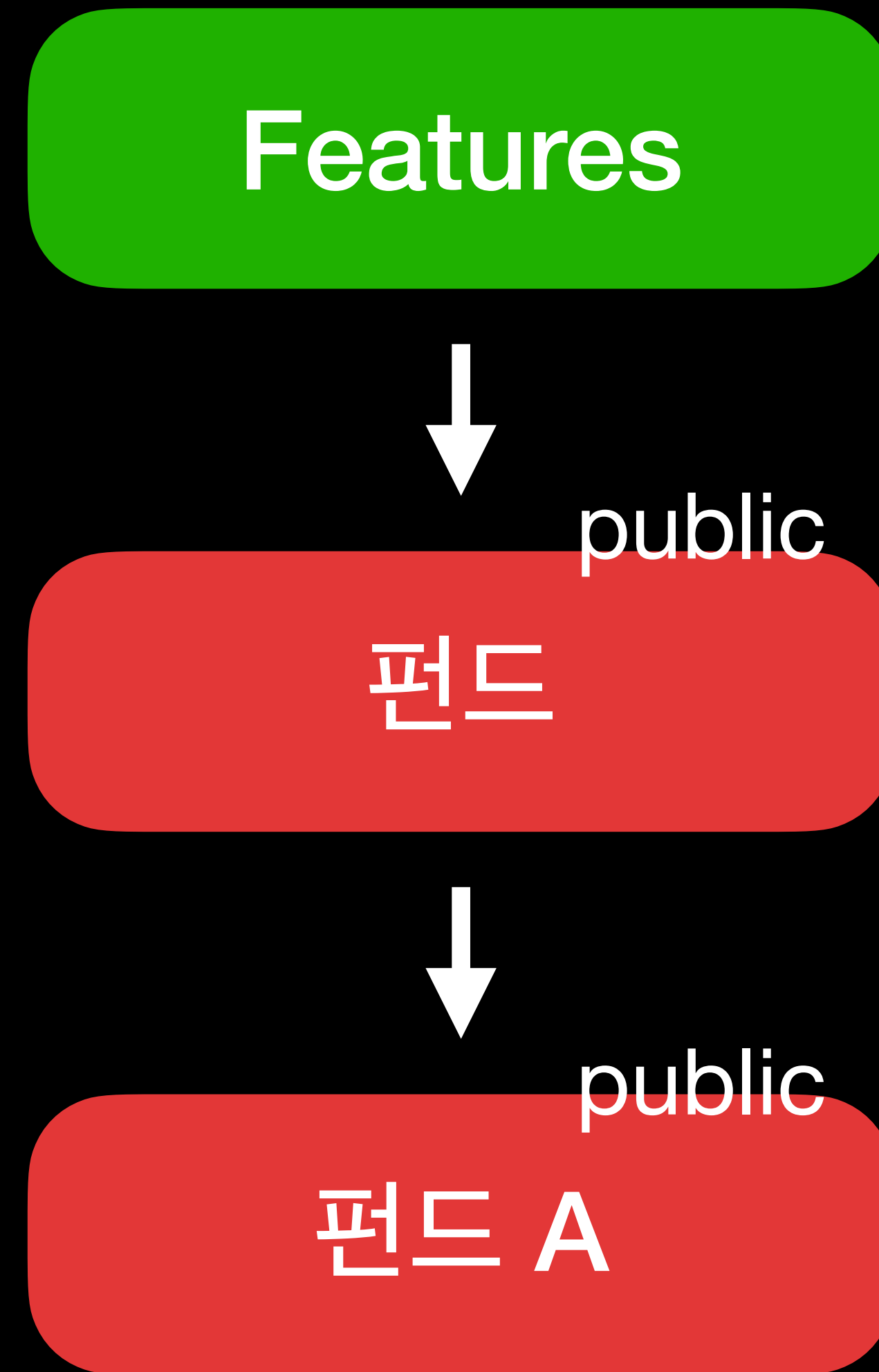
접근제어자

- private
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- internal
- public
- open



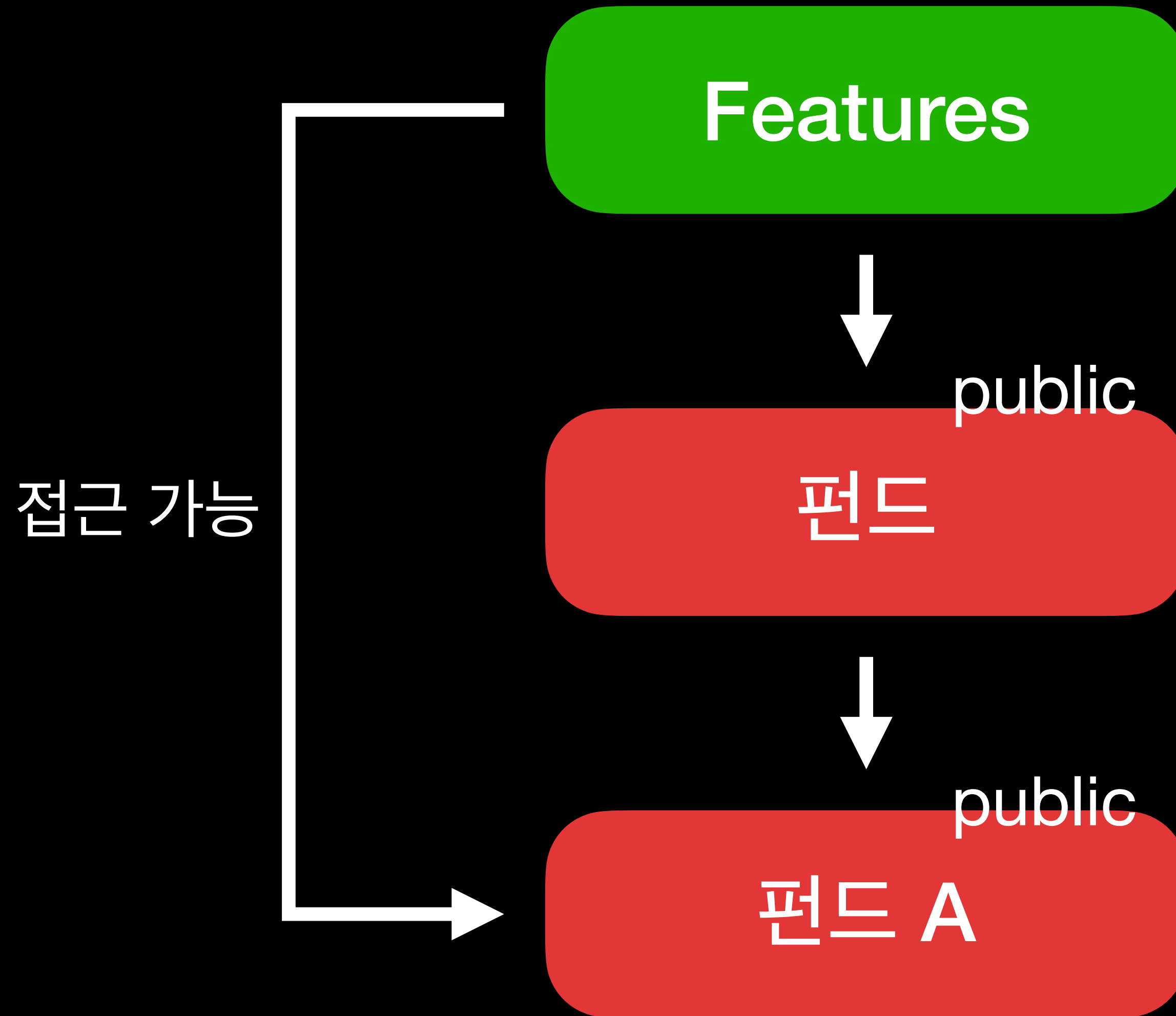
접근제어자

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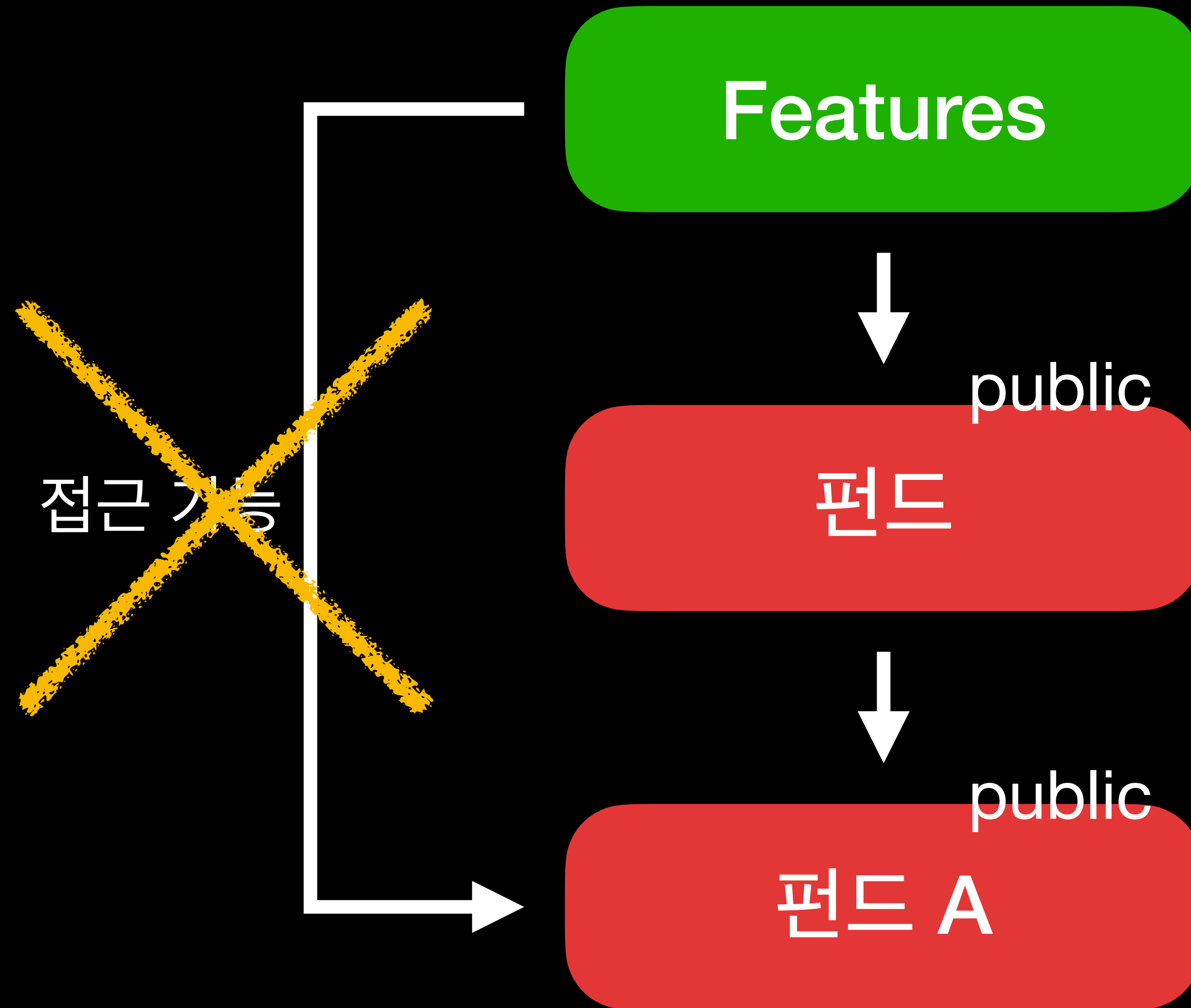
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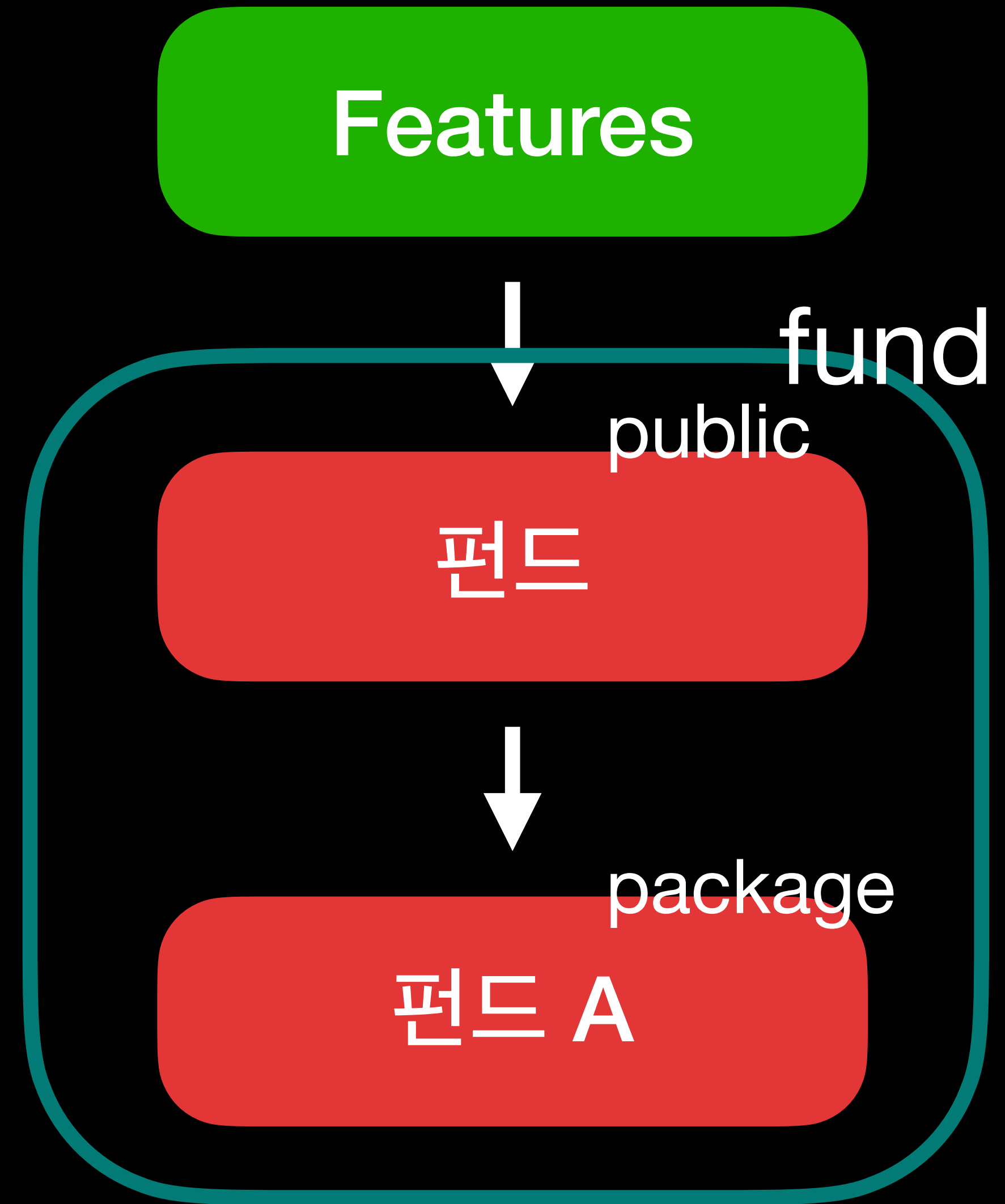


접근제어자

- private
- fileprivate
- internal
- ★ package - Swift 5.9
- public
- open

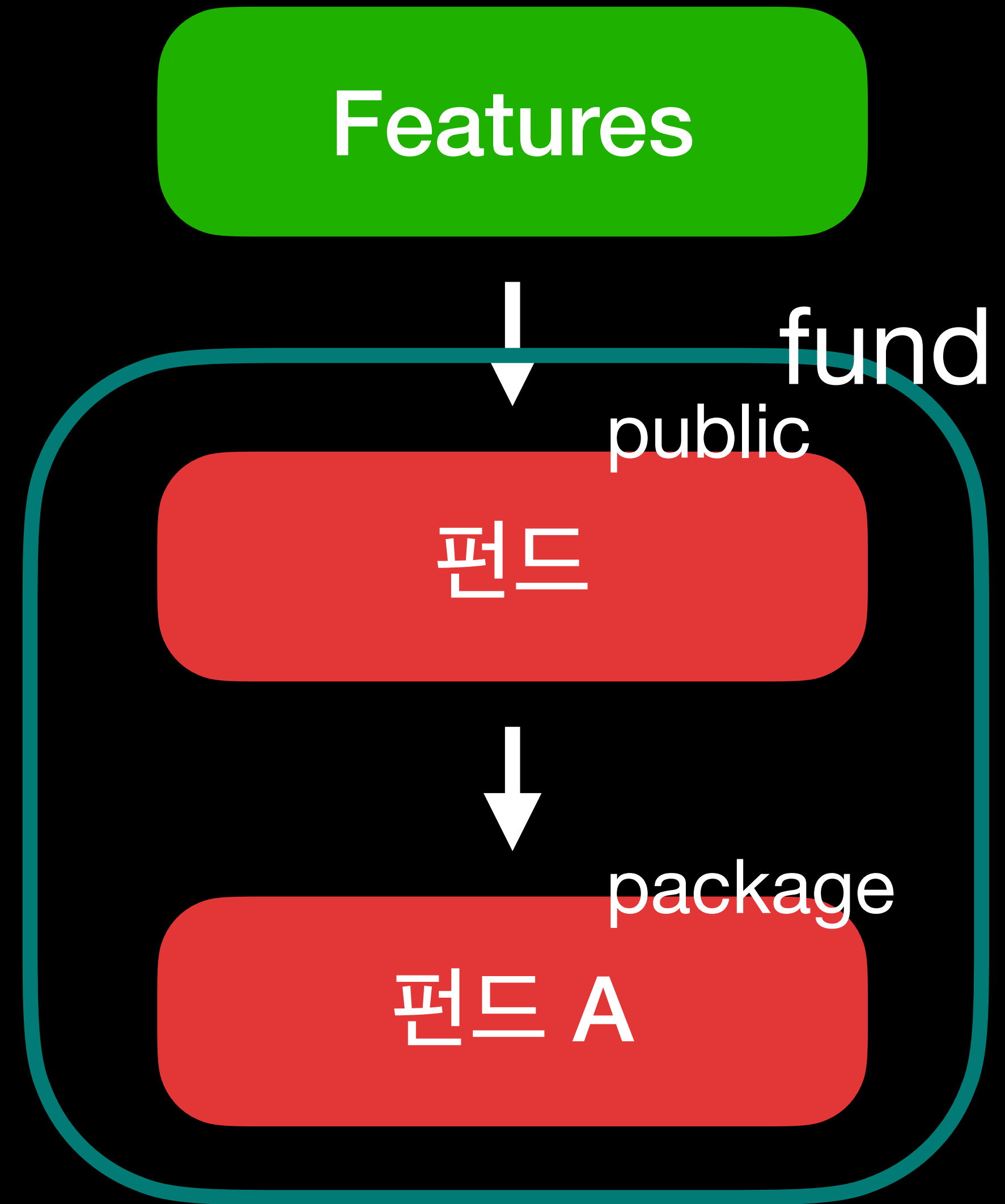
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접근제어자

- private
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- public
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```
import PackageDescription

let package = Package(
  name: "MyLibrary",
  products: [
    .library(
      name: "MyLibrary",
      targets: ["MyLibrary"]
    ),
  ],
  targets: [
    .target(
      name: "MyLibrary",
      packageAccess: true
    ),
    .testTarget(
      name: "MyLibraryTests",
      dependencies: ["MyLibrary"]
    ),
  ]
)
```

```
import PackageDescription

let package = Package(
  name: "MyLibrary",
  products: [
    .library(
      name: "MyLibrary",
      targets: ["MyLibrary"]
    ),
  ],
  targets: [
    .target(
      name: "MyLibrary",
      packageAccess: true
    ),
    .testTarget(
      name: "MyLibraryTests",
      dependencies: ["MyLibrary"]
    ),
  ]
)
```


- Package 접근 제어자
- Swift Package - 🙄
- Xcode Project - 🙄

Package 접근제어자를

Xcode Project에서 사용할 수 없을까?

```
$ swift build --verbose
```

```
$ swift build --verbose
Planning build
Building for debugging...
Write auxiliary file /MyLibrary/.build/arm64-apple-macosx/debug/swift-version-4987FB7F52197B0.txt
/Applications/Xcode-15.3.0-Beta.app/Contents/Developer/Toolchains/XcodeDefault.xctoolchain/usr/bin/
swiftc -module-name MyLibrary -emit-dependencies -emit-module -emit-module-path /MyLibrary/.build/
arm64-apple-macosx/debug/MyLibrary.swiftmodule -output-file-map /MyLibrary/.build/arm64-apple-macosx/
debug/MyLibrary.build/output-file-map.json -parse-as-library -incremental -c @/MyLibrary/.build/
arm64-apple-macosx/debug/MyLibrary.build/sources -I /MyLibrary/.build/arm64-apple-macosx/debug
-target arm64-apple-macosx10.13 -swift-version 5 -v -enable-batch-mode -index-store-path /
MyLibrary/.build/arm64-apple-macosx/debug/index/store -Onone -enable-testing -j8 -DSWIFT_PACKAGE
-DDEBUG -module-cache-path /MyLibrary/.build/arm64-apple-macosx/debug/ModuleCache -parseable-output
-parse-as-library -emit-objc-header -emit-objc-header-path /MyLibrary/.build/arm64-apple-macosx/
debug/MyLibrary.build/MyLibrary-Swift.h -color-diagnostics -sdk /Applications/Xcode-15.3.0-Beta.app/
Contents/Developer/Platforms/MacOSX.platform/Developer/SDKs/MacOSX14.4.sdk -F /Applications/
Xcode-15.3.0-Beta.app/Contents/Developer/Platforms/MacOSX.platform/Developer/Library/Frameworks -I /
Applications/Xcode-15.3.0-Beta.app/Contents/Developer/Platforms/MacOSX.platform/Developer/usr/lib
-L /Applications/Xcode-15.3.0-Beta.app/Contents/Developer/Platforms/MacOSX.platform/Developer/usr/lib
-g -Xcc -isysroot -Xcc /Applications/Xcode-15.3.0-Beta.app/Contents/Developer/Platforms/
MacOSX.platform/Developer/SDKs/MacOSX14.4.sdk -Xcc -F -Xcc /Applications/Xcode-15.3.0-Beta.app/
Contents/Developer/Platforms/MacOSX.platform/Developer/Library/Frameworks -Xcc -fPIC -Xcc -g
-package-name mylibrary
Apple Swift version 5.10 (swiftlang-5.10.0.10.5 clang-1500.3.7.4)
Target: arm64-apple-macosx10.13
Build complete! (0.20s)
```

```
$ swift build --verbose
Planning build
Building for debugging...
Write auxiliary file /MyLibrary/.build/arm64-apple-macosx/debug/swift-version-4987FB7F52197B0.txt
/Applications/Xcode-15.3.0-Beta.app/Contents/Developer/Toolchains/XcodeDefault.xctoolchain/usr/bin/
swiftc -module-name MyLibrary -emit-dependencies -emit-module -emit-module-path /MyLibrary/.build/
arm64-apple-macosx/debug/MyLibrary.swiftmodule -output-file-map /MyLibrary/.build/arm64-apple-macosx/
debug/MyLibrary.build/output-file-map.json -parse-as-library -incremental -c @/MyLibrary/.build/
arm64-apple-macosx/debug/MyLibrary.build/sources -I /MyLibrary/.build/arm64-apple-macosx/debug
-target arm64-apple-macosx10.13 -swift-version 5 -v -enable-batch-mode -index-store-path /
MyLibrary/.build/arm64-apple-macosx/debug/index/store -Onone -enable-testing -j8 -DSWIFT_PACKAGE
-DDEBUG -module-cache-path /MyLibrary/.build/arm64-apple-macosx/debug/ModuleCache -parseable-output
-parse-as-library -emit-objc-header -emit-objc-header-path /MyLibrary/.build/arm64-apple-macosx/
debug/MyLibrary.build/MyLibrary-Swift.h -color-diagnostics -sdk /Applications/Xcode-15.3.0-Beta.app/
Contents/Developer/Platforms/MacOSX.platform/Developer/SDKs/MacOSX14.4.sdk -F /Applications/
Xcode-15.3.0-Beta.app/Contents/Developer/Platforms/MacOSX.platform/Developer/Library/Frameworks -I /
Applications/Xcode-15.3.0-Beta.app/Contents/Developer/Platforms/MacOSX.platform/Developer/usr/lib
-L /Applications/Xcode-15.3.0-Beta.app/Contents/Developer/Platforms/MacOSX.platform/Developer/usr/lib
-g -Xcc -isysroot -Xcc /Applications/Xcode-15.3.0-Beta.app/Contents/Developer/Platforms/
MacOSX.platform/Developer/SDKs/MacOSX14.4.sdk -Xcc -F -Xcc /Applications/Xcode-15.3.0-Beta.app/
Contents/Developer/Platforms/MacOSX.platform/Developer/Library/Frameworks -Xcc -fPIC -Xcc -g
-package-name mylibrary
Apple Swift version 5.10 (swiftlang-5.10.0.10.5 clang-1500.3.7.4)
Target: arm64-apple-macosx10.13
Build complete! (0.20s)
```

-package-name myLibrary

PROJECT

SampleApp

TARGETS

SampleApp

FeatureA

FeatureB

General

Signing & Capabilities

Resource Tags

Info

Build Settings

Build Phases

Build Rules

+

Basic

Customized

All

Combined

Levels

Filter

Swift Compiler - Custom Flags

Setting

SampleApp

Active Compilation Conditions

<Multiple values>

Debug

DEBUG

Release

> Other Swift Flags

-package-name mylibrary

SampleApp

General

Signing & Capabilities

Resource Tags

Info

Build Settings

Build Phases

Build

PROJECT

SampleApp

TARGETS

SampleApp

FeatureA

FeatureB

Basic

Customized

All

Combined

Levels

Setting

SampleApp

Force Package Info Generation

Yes

Setting

SampleApp

> Package Access Identifier

alpha

Quick Help

Summary

An identifier that allows grouping of modules with access to symbols with a package access modifier.

Declaration

SWIFT_PACKAGE_NAME

Value Type

String

시연