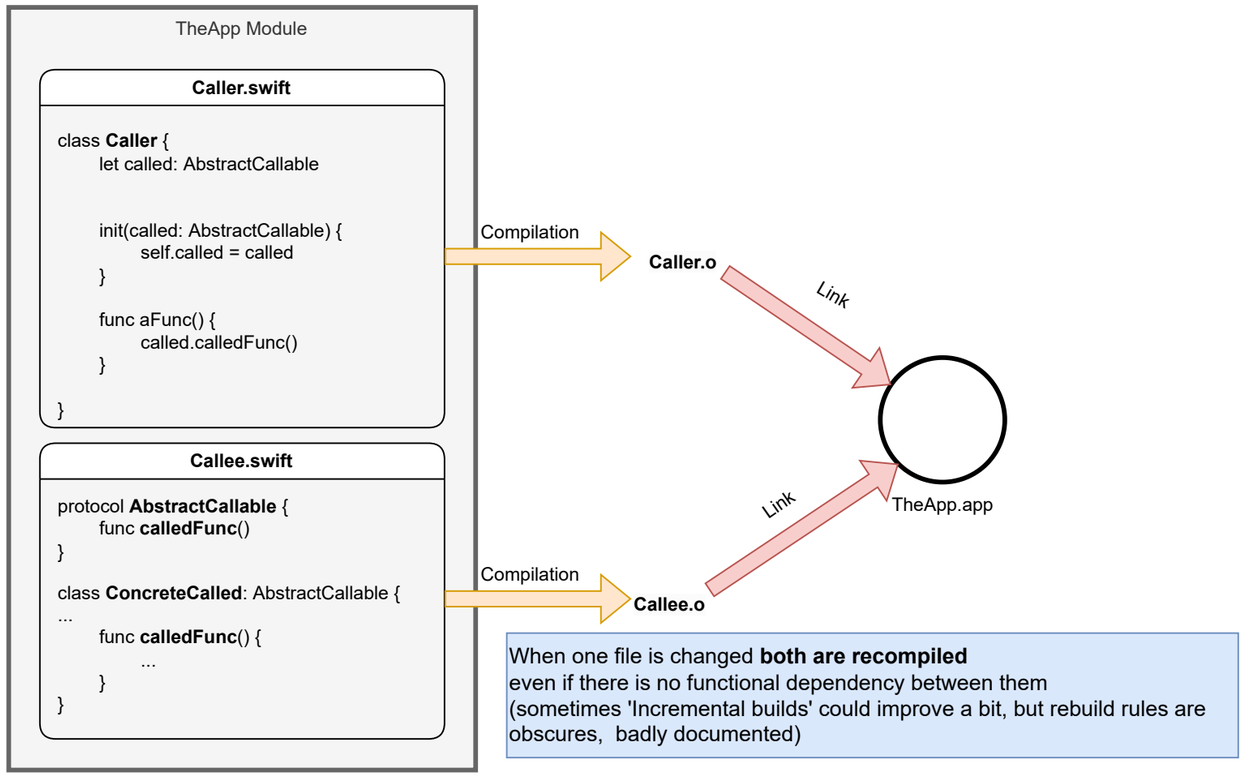
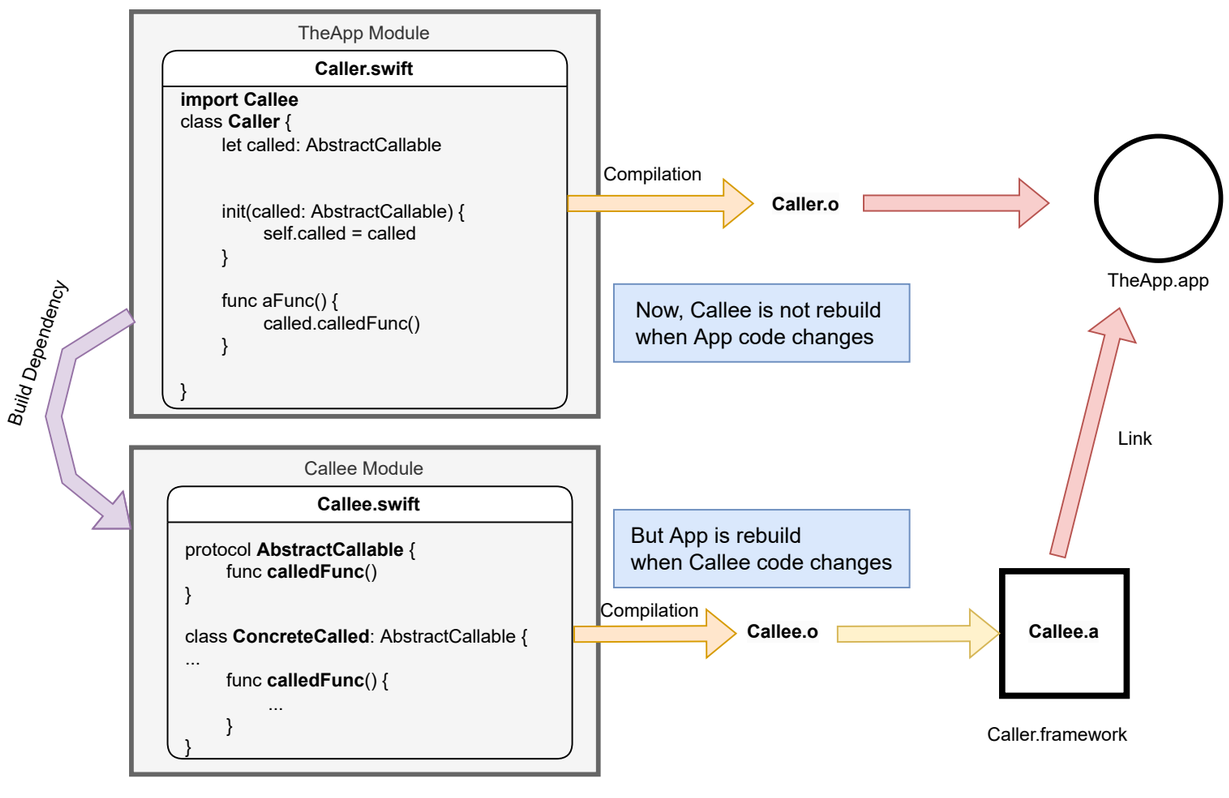
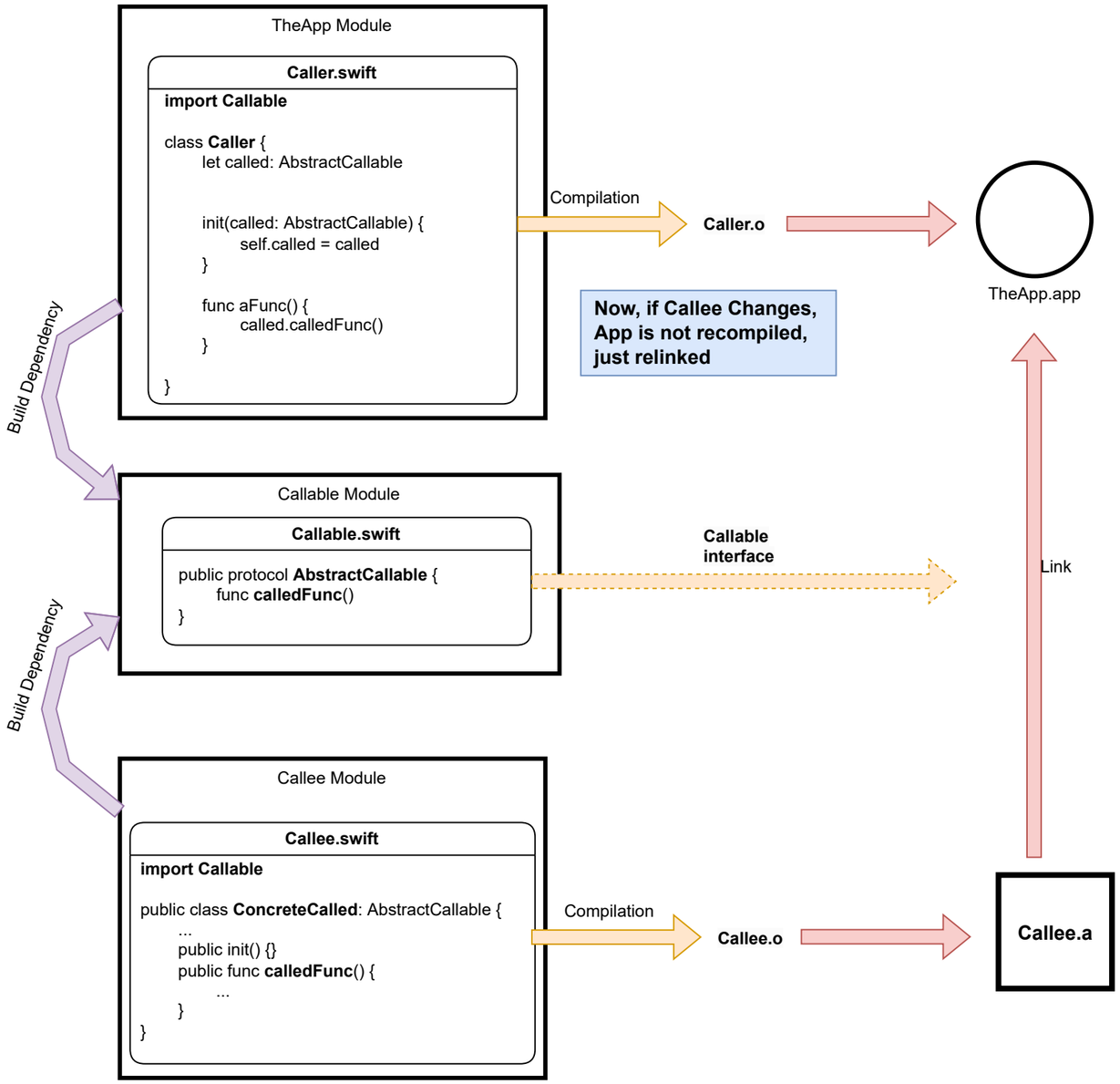
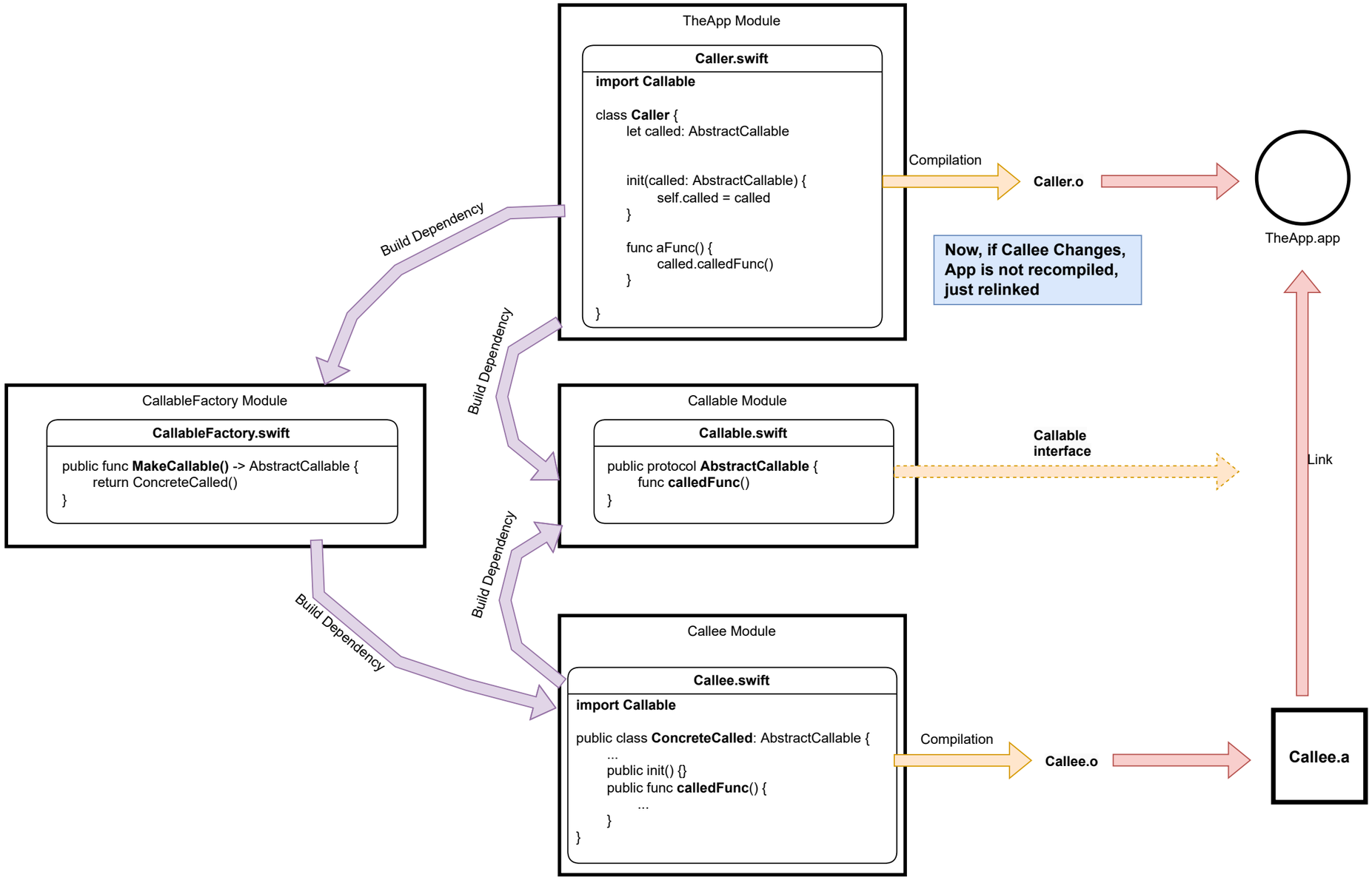
Step 0 : Caller & Calle in Same unique Target



Step 1 : App imports Calle




TheApp Module
Caller.swift
import Callable
class Caller {
let called: AbstractCallable
init(called: AbstractCallable) {
self.called = called
}
func aFunc() {
called.calledFunc()
}
}
Compilation
Caller.o
TheApp.app
Now, if Callee Changes, App is not recompiled, just relinked
Build Dependency
Callable Module
Callable.swift
public protocol AbstractCallable {
func calledFunc()
}
Callable interface
Link
Build Dependency
Callee Module
Callee.swift
import Callable
public class ConcreteCalled: AbstractCallable {
...
public init() {}
public func calledFunc() {
...
}
}
Compilation
Callee.o
Callee.a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Caller.swift
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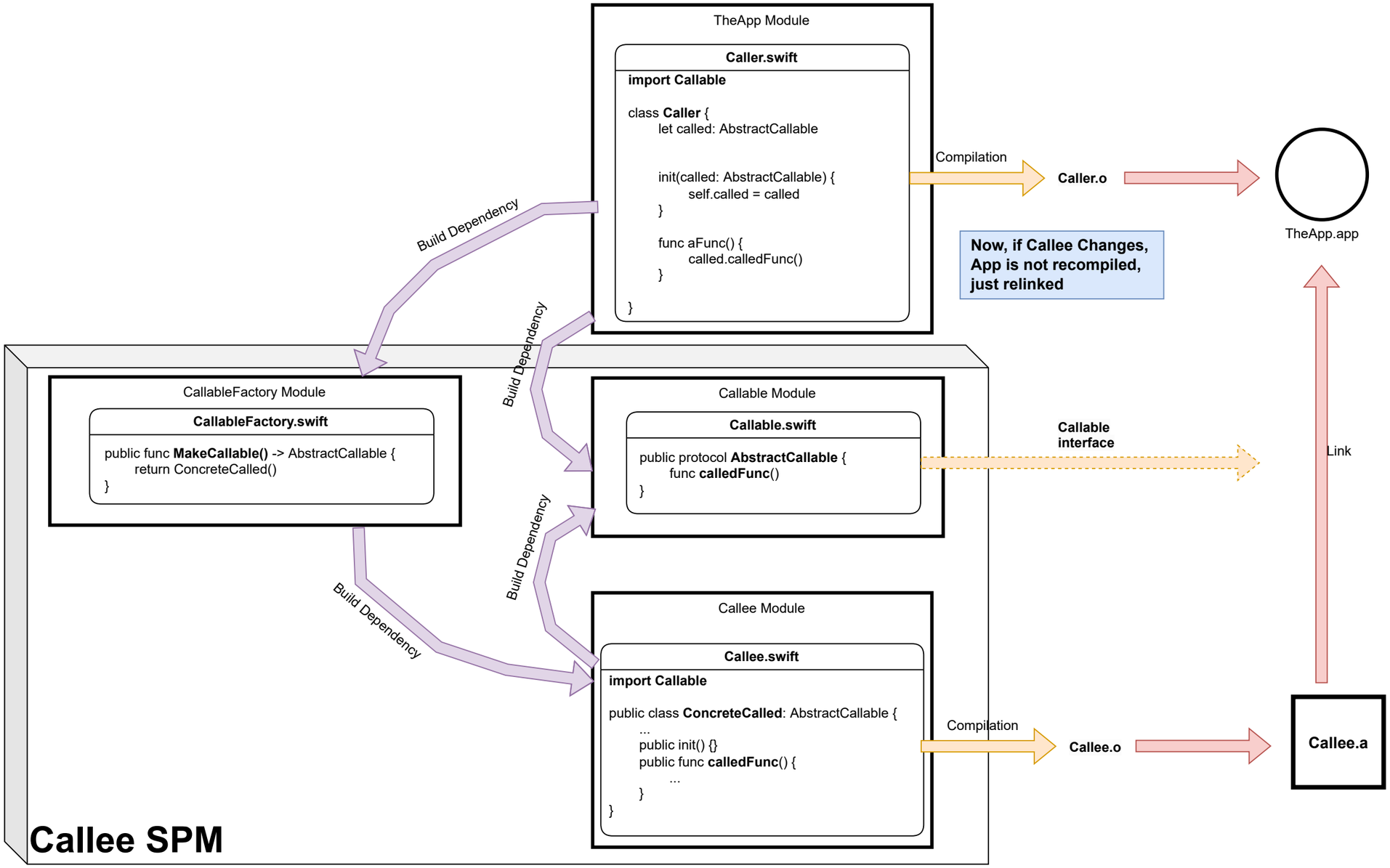
}
func aFunc() {
called.calledFunc()
}
}
Compilation
Caller.o
TheApp.app
Now, if Callee Changes, App is not recompiled, just relinked
Build Dependency
Build Dependency
CallableFactory Module
CallableFactory.swift
public func MakeCallable() -> AbstractCallable {
return ConcreteCalled()
}
Callable Module
Callable.swift
public protocol AbstractCallable {
func calledFunc()
}
Callable interface
Link
Build Dependency
Build Dependency
Callee Module
Callee.swift
import Callable
public class ConcreteCalled: AbstractCallable {
...
public init() {}
public func calledFunc() {
...
}
}
Compilation
Callee.o
Callee.a


TheApp Module
Caller.swift
import Callable
class Caller {
let called: AbstractCallable
init(called: AbstractCallable) {
self.called = called
}
func aFunc() {
called.calledFunc()
}
}
Compilation
Caller.o
TheApp.app
Now, if Callee Changes, App is not recompiled, just relinked
Build Dependency
Build Dependency
Build Dependency
Build Dependency
CallableFactory Module
CallableFactory.swift
public func MakeCallable() -> AbstractCallable {
return ConcreteCalled()
}
Callable Module
Callable.swift
public protocol AbstractCallable {
func calledFunc()
}
Callable interface
Link
Callee Module
Callee.swift
import Callable
public class ConcreteCalled: AbstractCallable {
...
public init() {}
public func calledFunc() {
...
}
}
Compilation
Callee.o
Callee.a
Callee SPM