Building a SQLite Framework in Swift

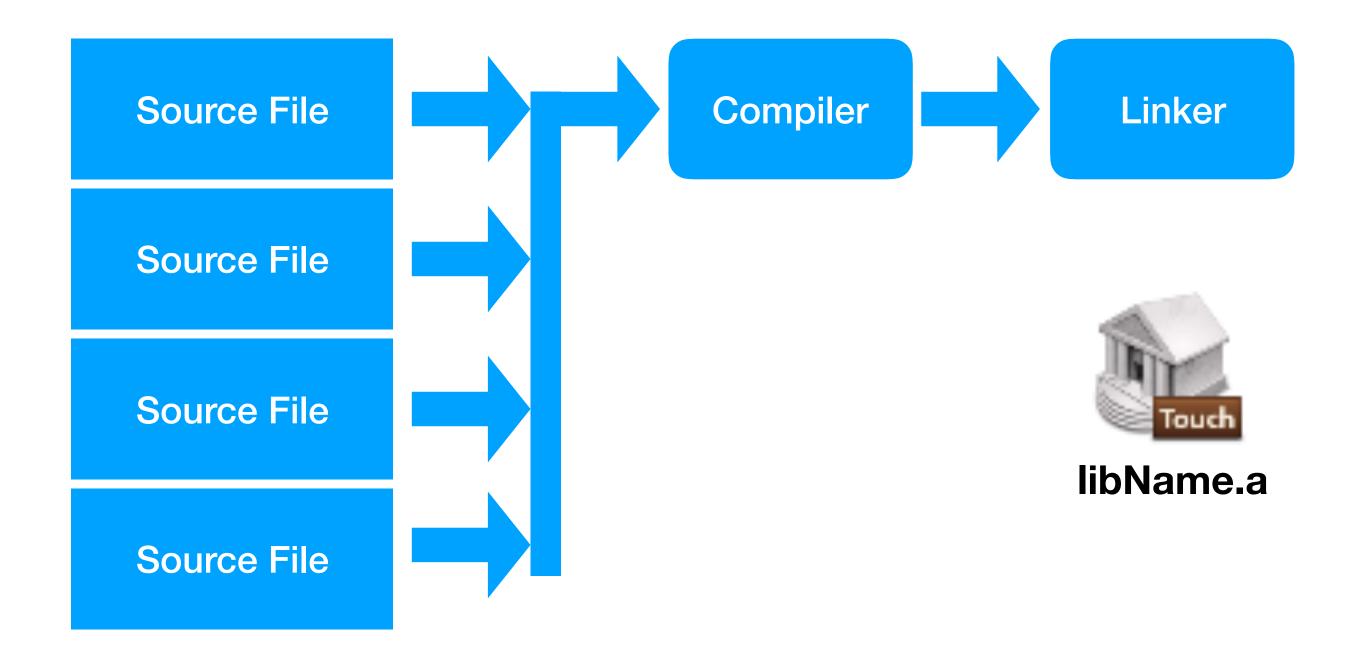
Chris Woodard, Tampa Bay Cocoaheads

Recap

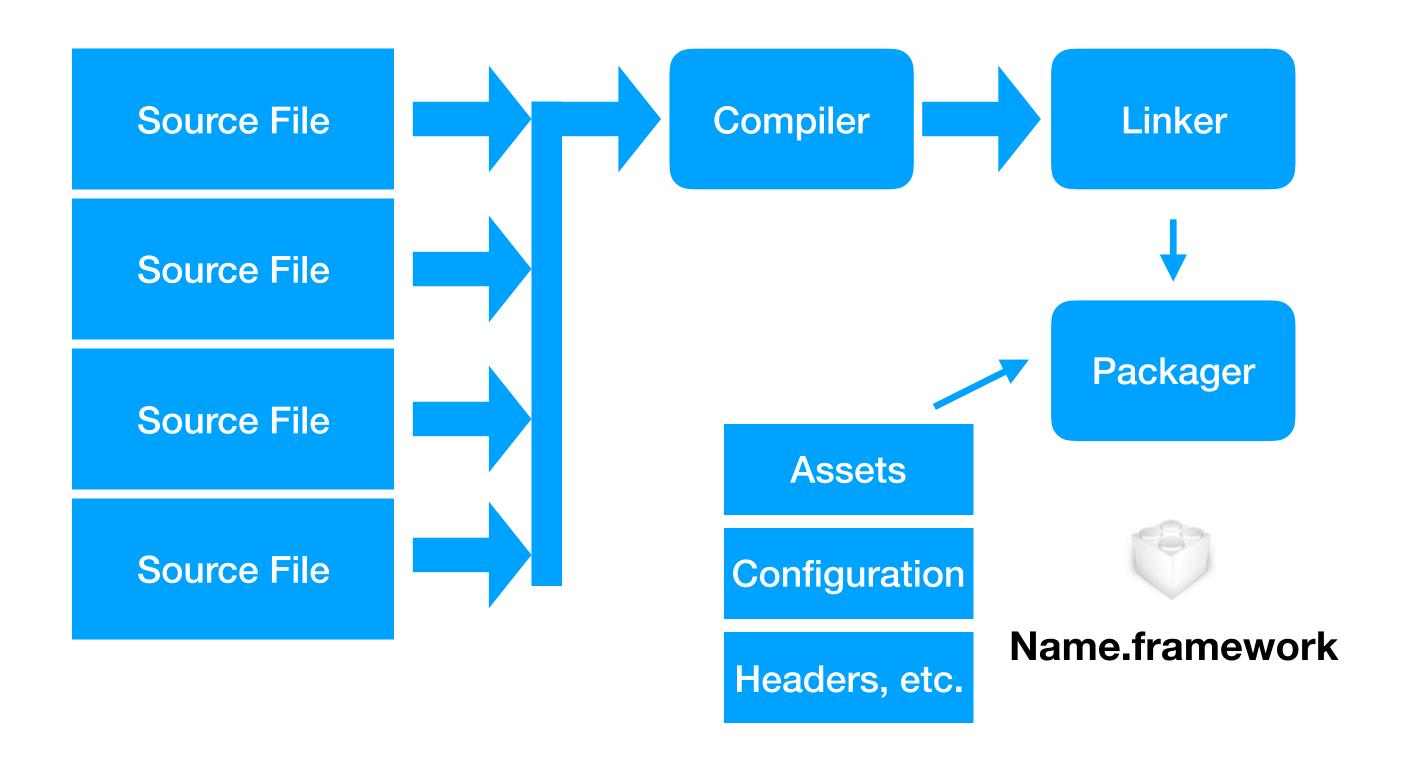
Reusable Code

- Adding source code directly into your project
 - Updating, naming collisions
- Cocoapods / Alcatraz
 - Needing to update either one; may need to write your own pods
- Building a static library
- Building a framework

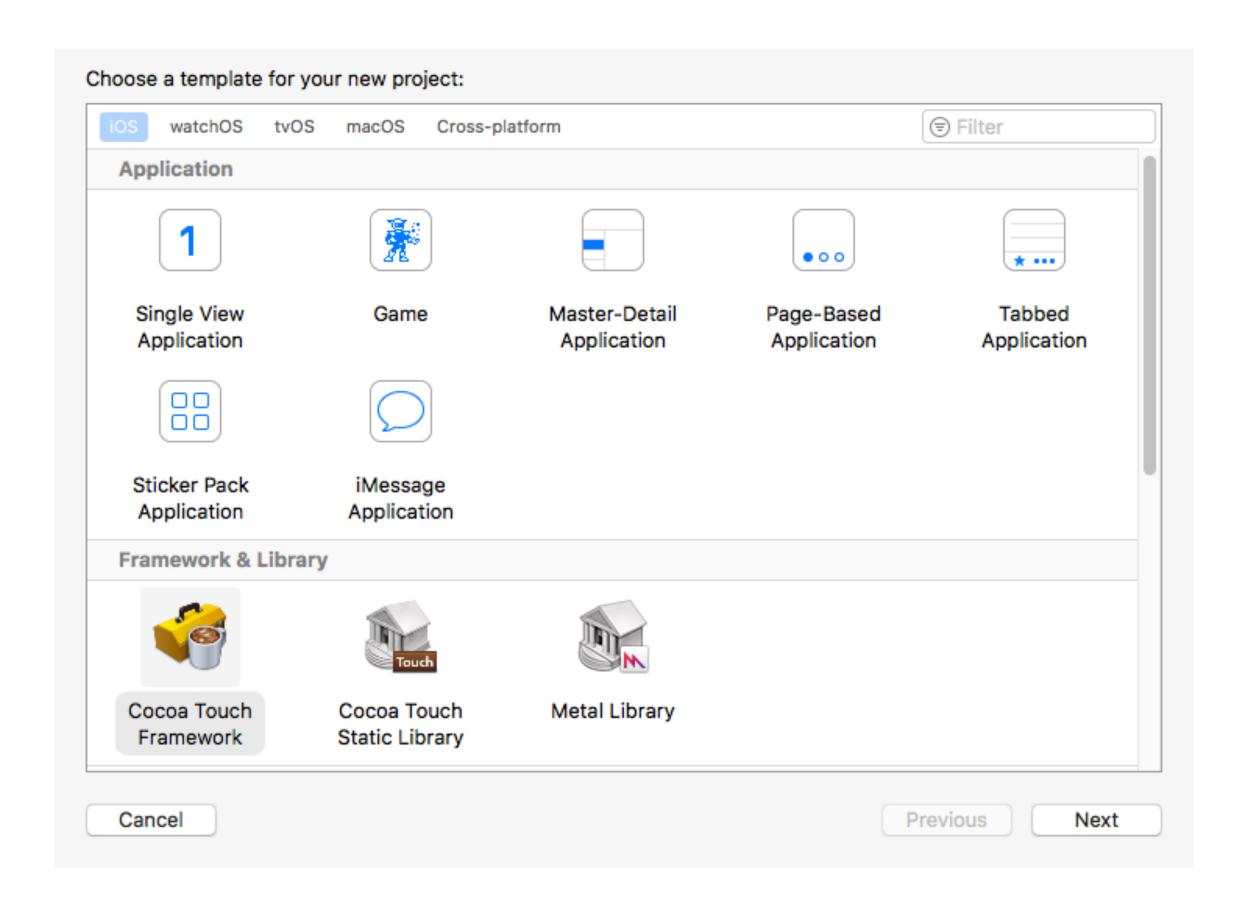
Static Library



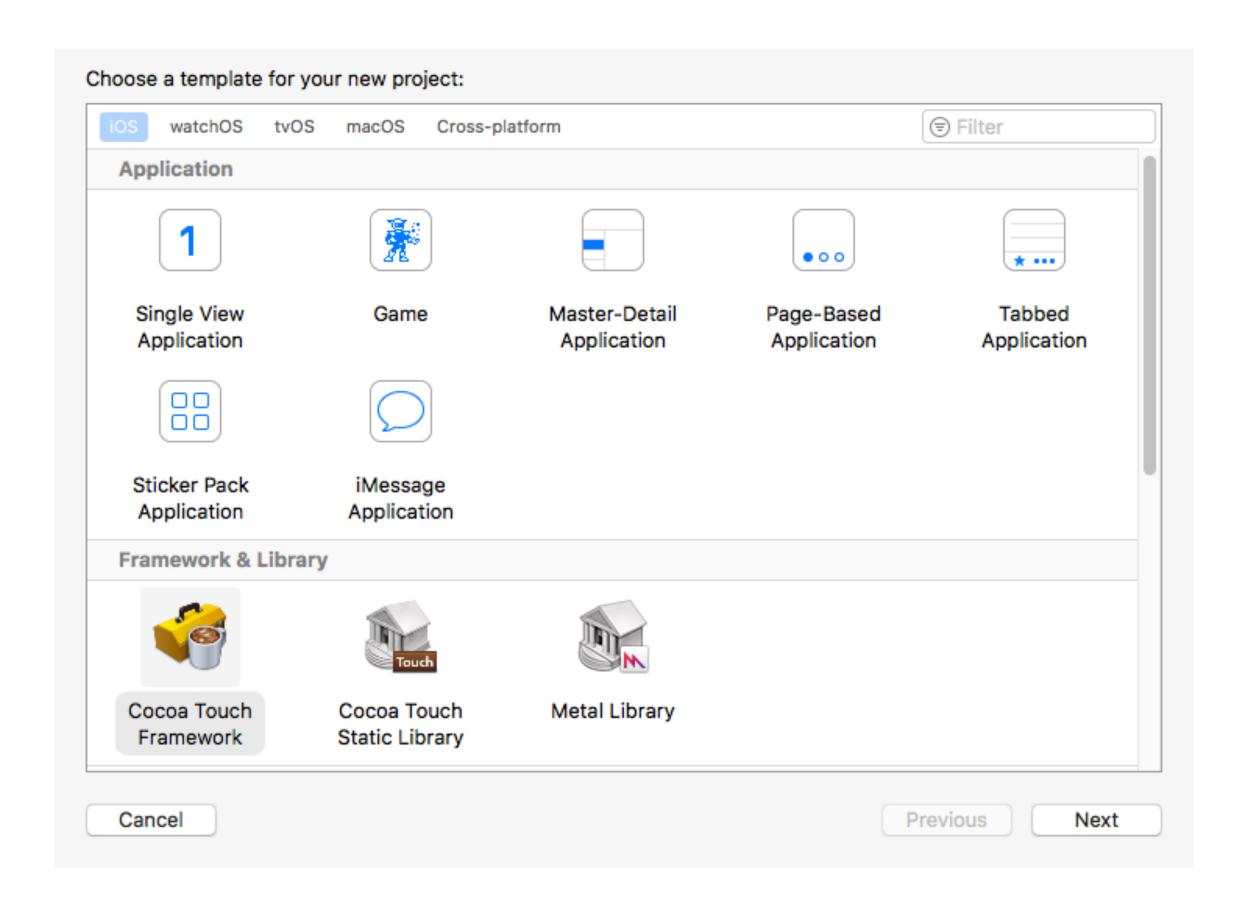
Framework



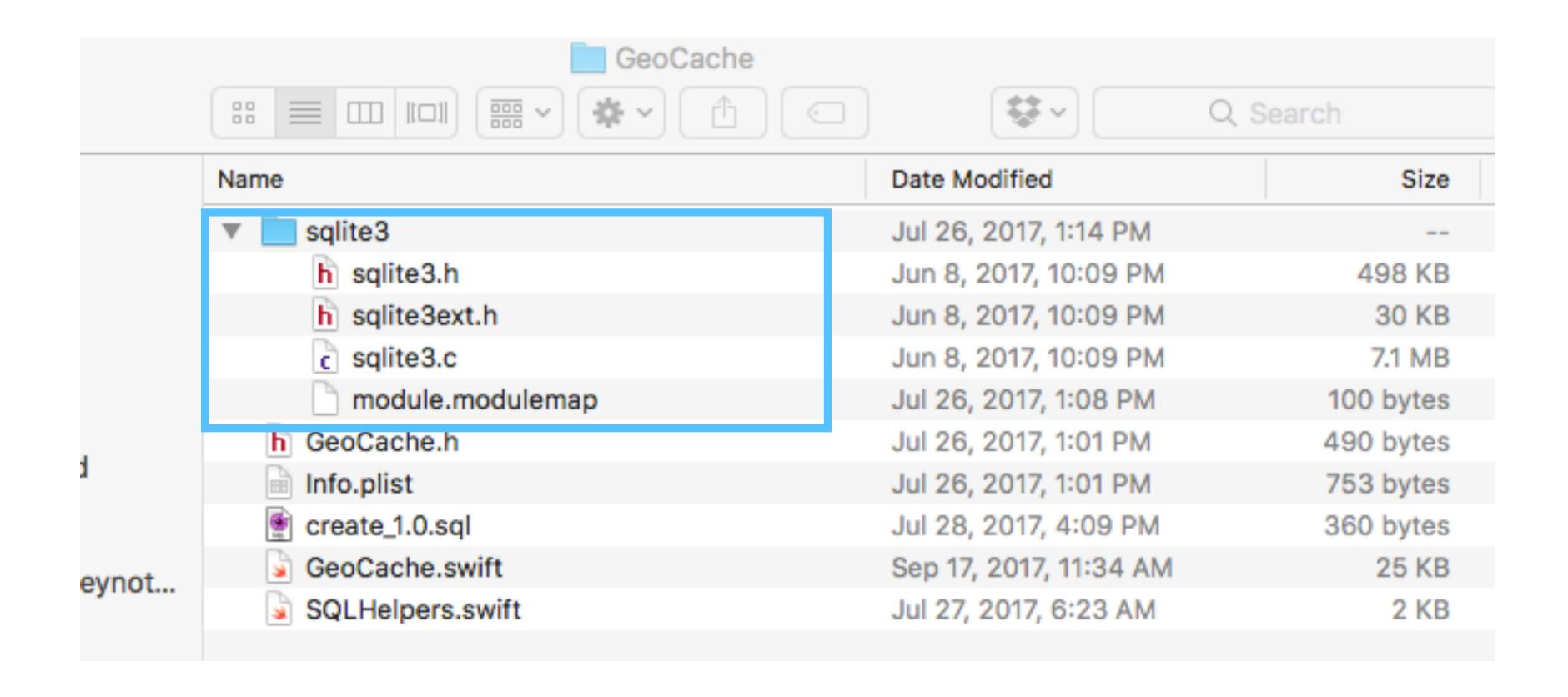
Framework Mechanics



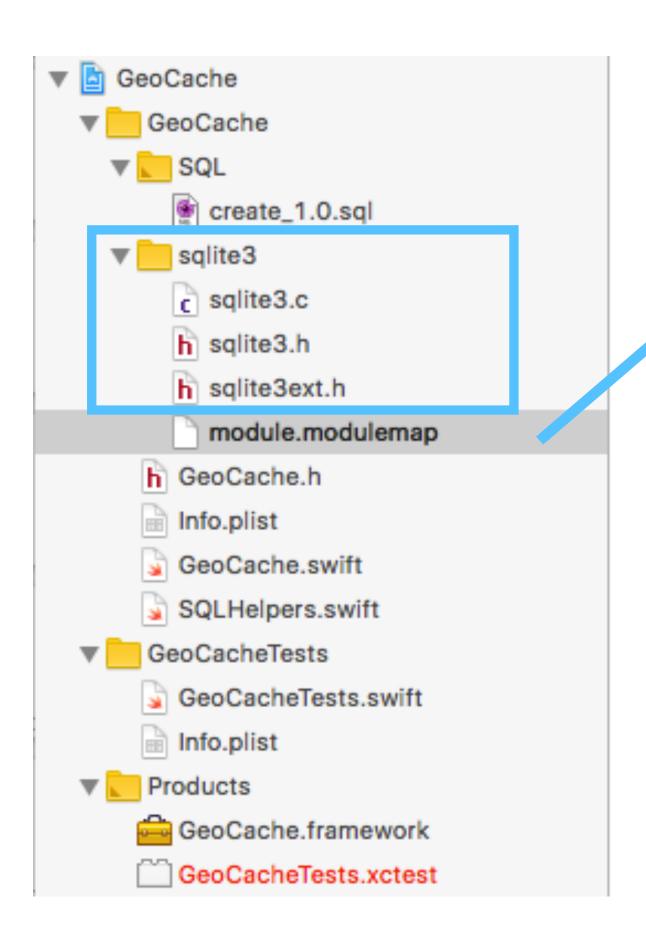
Framework Mechanics



Using C Source Code

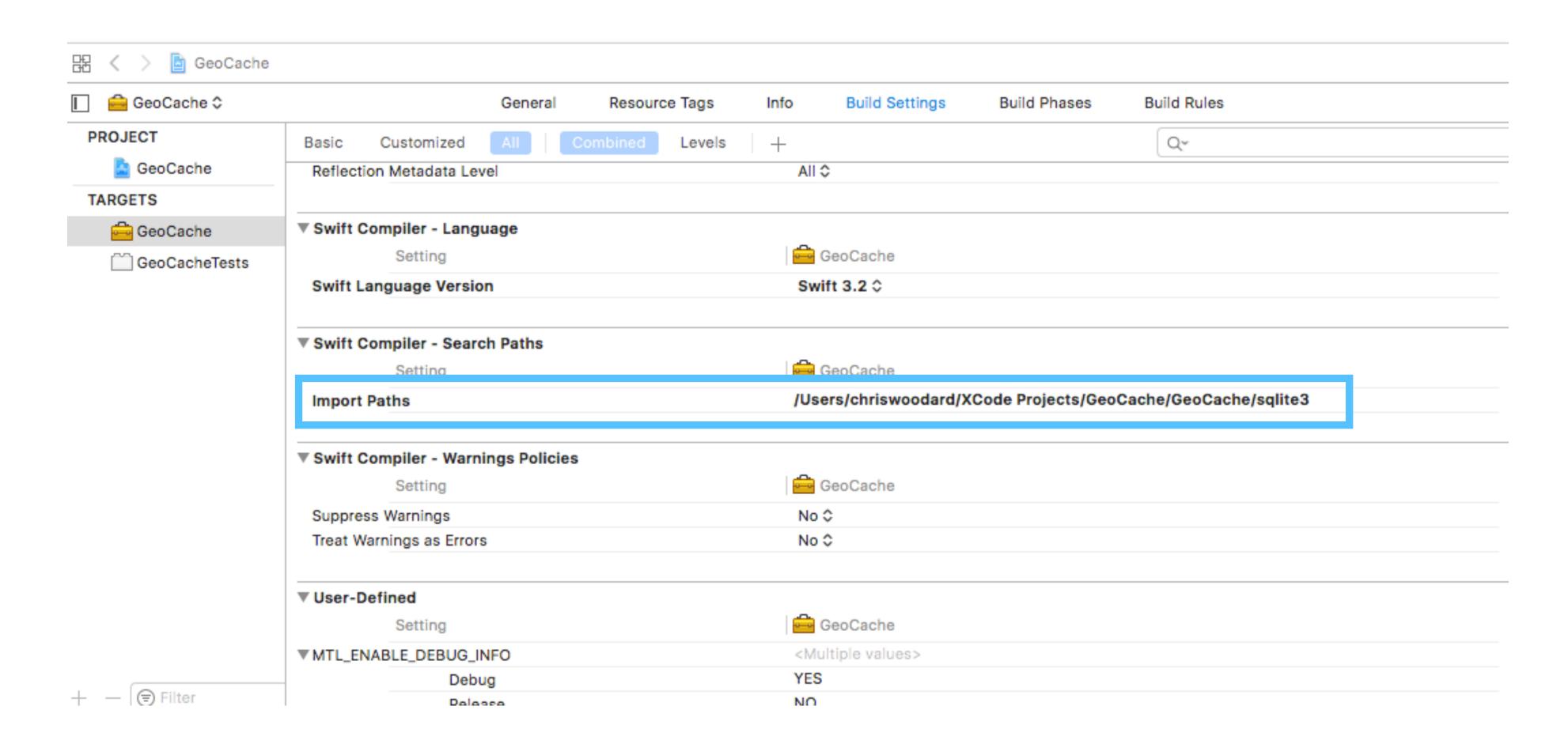


Using C Source Code



```
module sqlite3 [system][extern_c] {
    header "sqlite3.h"
    header "sqlite3ext.h"
    export *
```

Using C Source Code



Building for Simulator and Device

```
Mersenne
 Mersenne-Merge 
                                Build :
                    Resource Tags
Target Dependencies (0 items)
Run Script
# Replace the framework executable within the framework with
  a new version created by merging the device and simulator
# frameworks' executables with lipo.
 lipo -create -output "${HOME}/Desktop/${FRAMEWORK_NAME}.framework/${FRAME
 "${SRCROOT}/build/Debug-iphoneos/${FRAMEWORK_NAME}.framework/${FRAMEWORK_
 "${SRCROOT}/build/Debug-iphonesimulator/${FRAMEWORK_NAME}.framework/${FR/
```

Resources

- https://medium.com/swift-and-ios-writing/using-a-c-library-inside-a-swift-framework-d041d7b701d9
- https://www.raywenderlich.com/126365/ios-frameworks-tutorial
- http://arsenkin.com/ios-universal-framework.html