

App distribution with xcrun and WatchKit

AUTOMATE COMPILING TO DISTRIBUTING

- Input is Xcode Project on CI Server
- Output is Signed, Provisioned Installable App

TOOLS

xcode-build (compiling .app)

xcrun (packaging .ipa)

xcode-select (managing xcode directories)

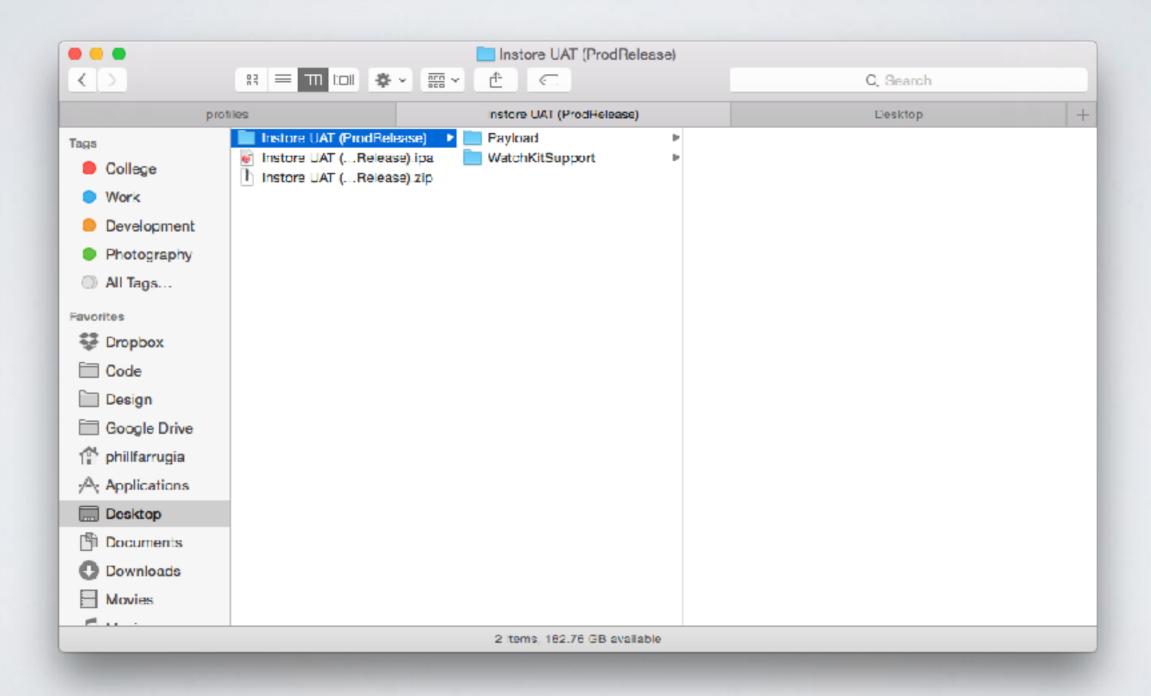
XCODE-BUILD

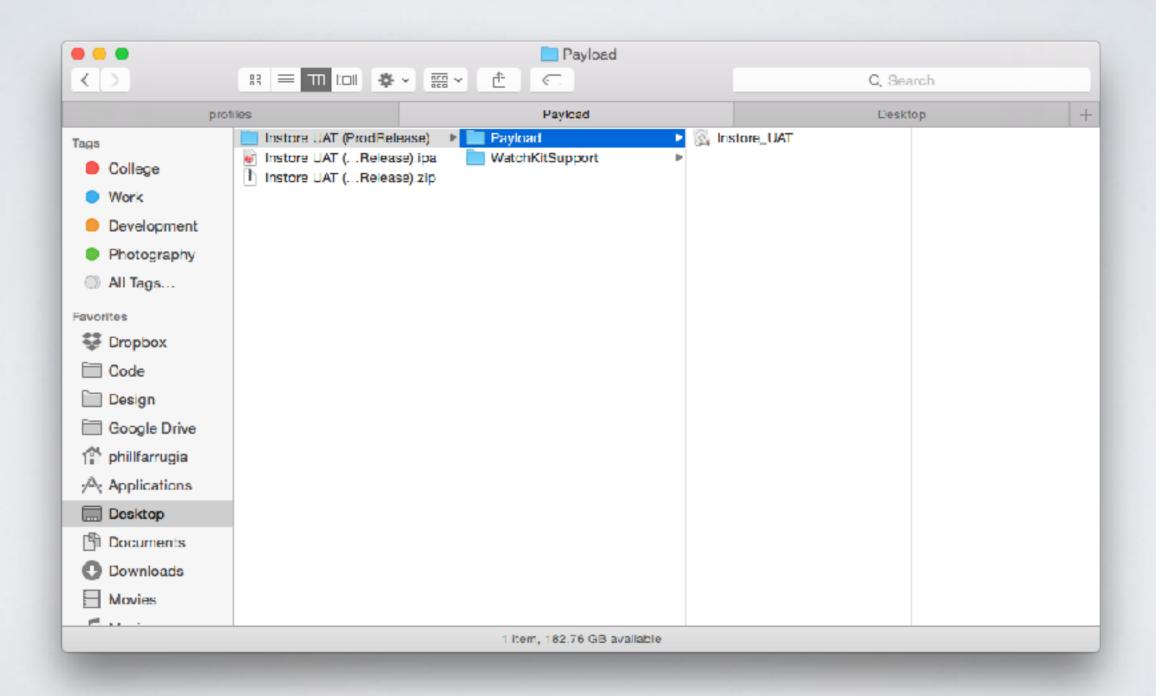
 builds an xcode-project and outputs into a .app file

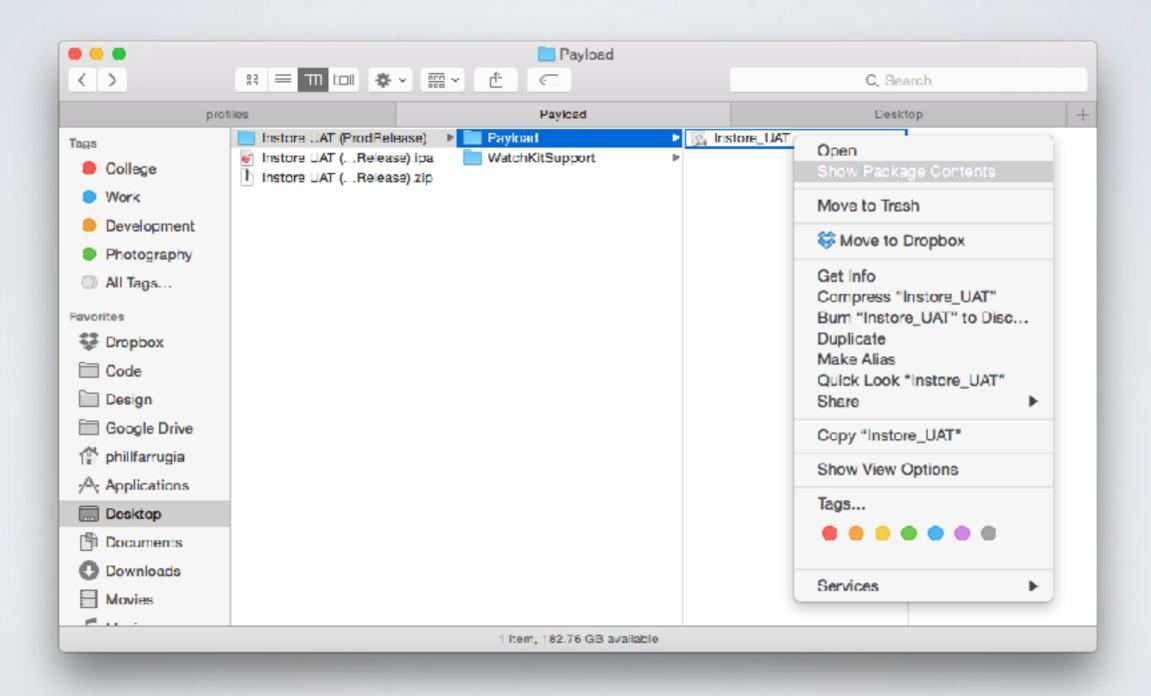
- can't distribute without provisioning profiles and developer certificate
- · we need a .ipa package

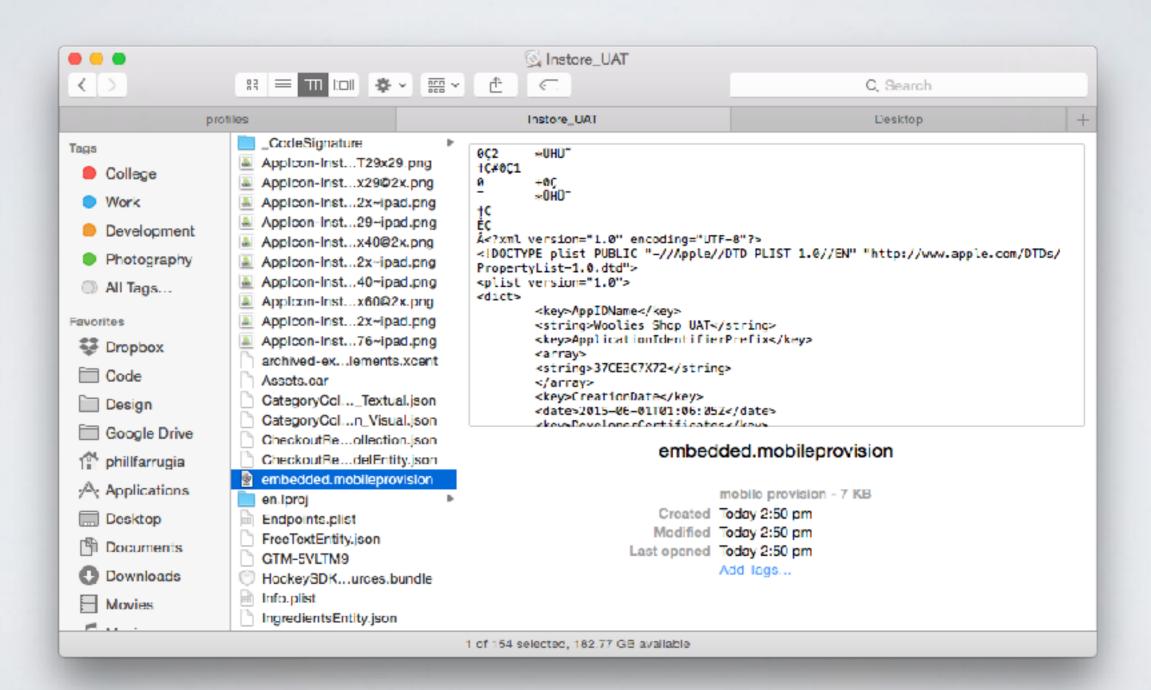
XCRUN

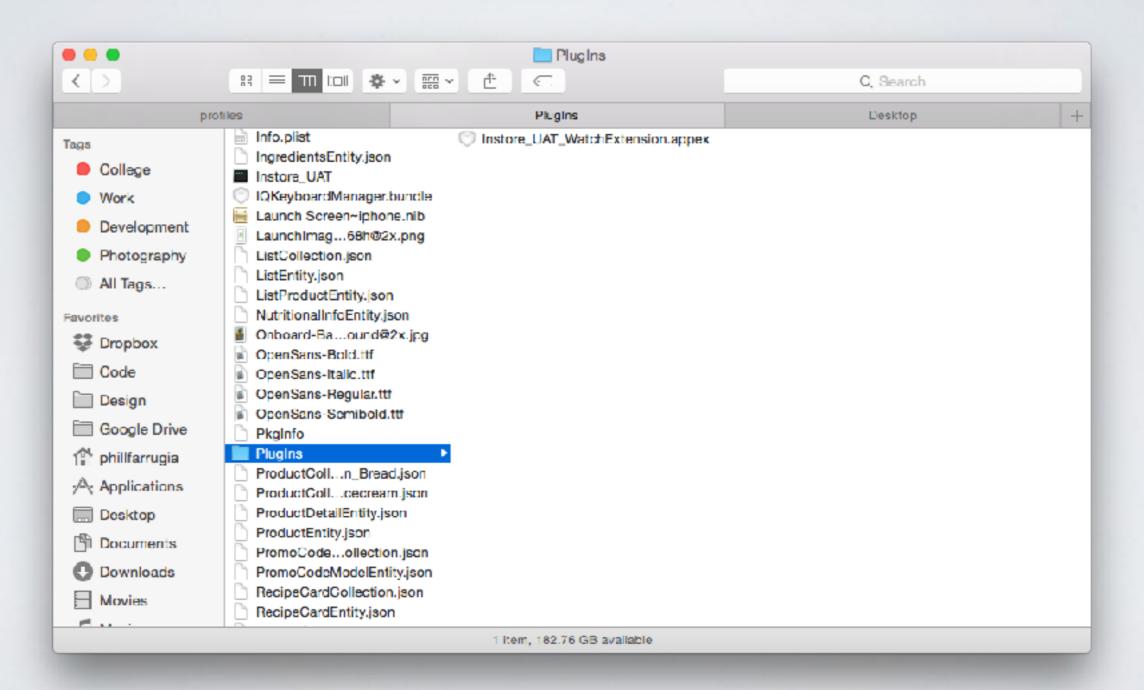
- packages a .app file (from xcode-build) into a .ipa file with provisioning profiles and developer certificates
- output .ipa is the compressed archived file installable on an iOS device
- jailbroken devices would allow you to install unsigned .ipa files

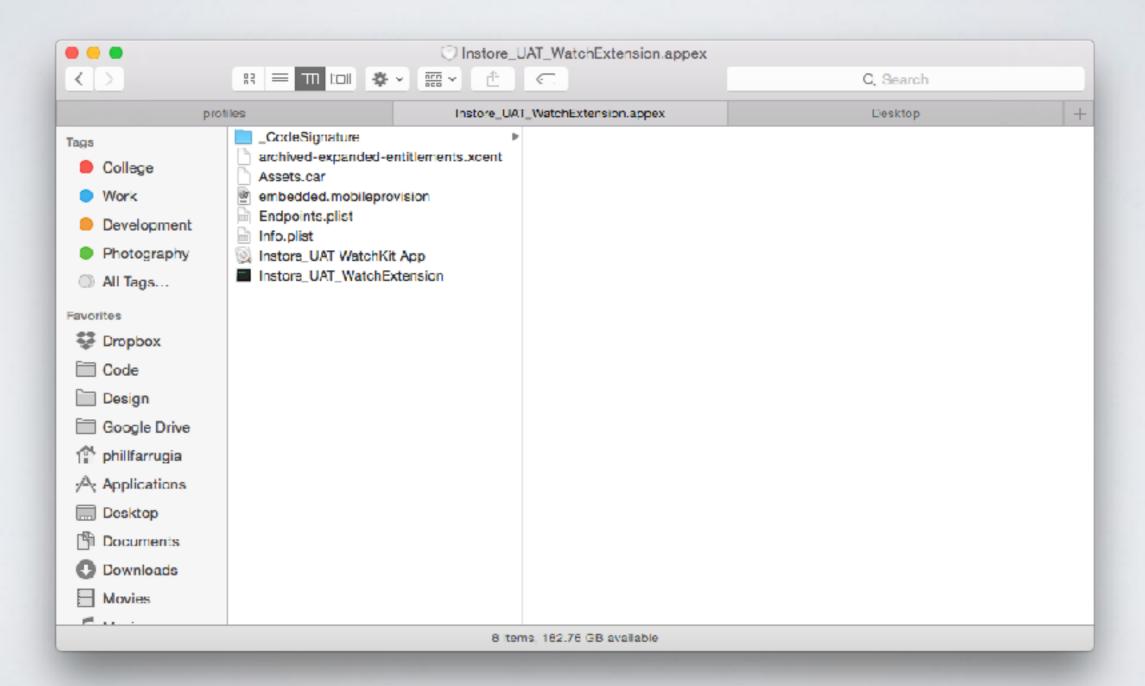


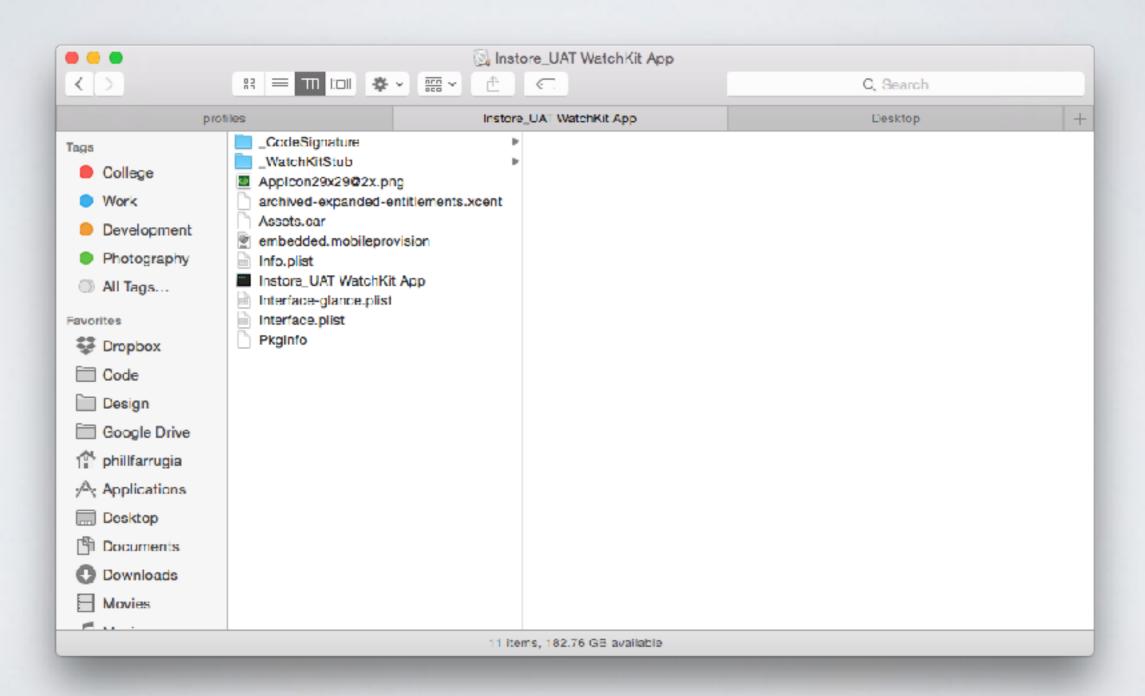


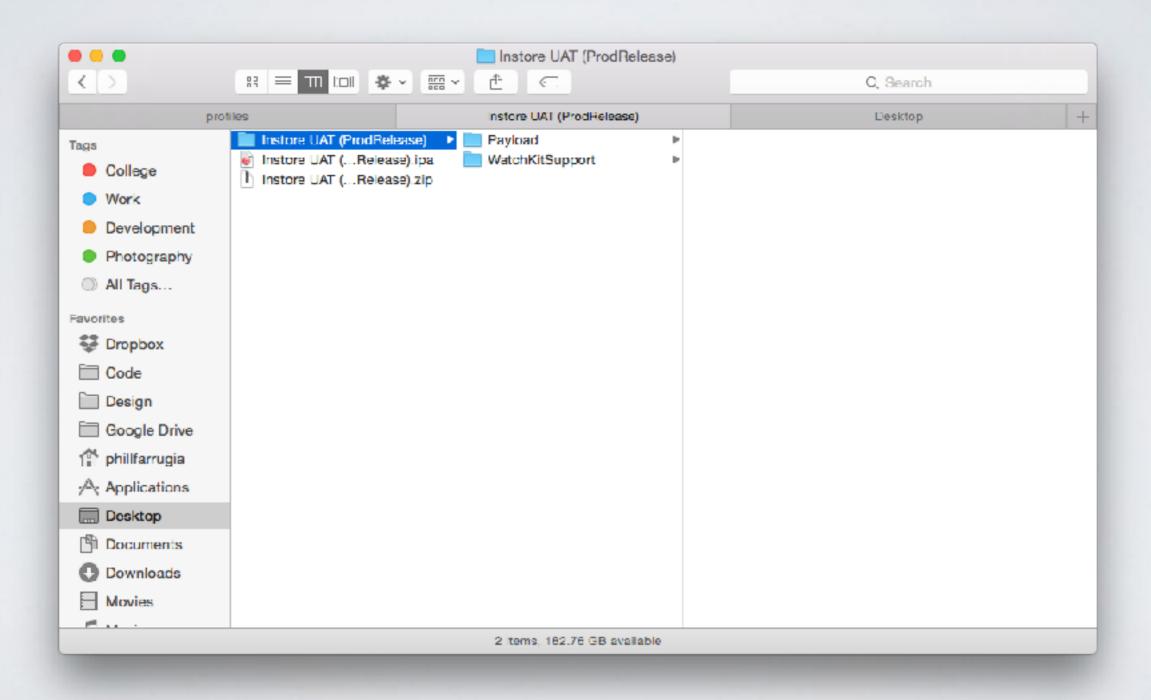


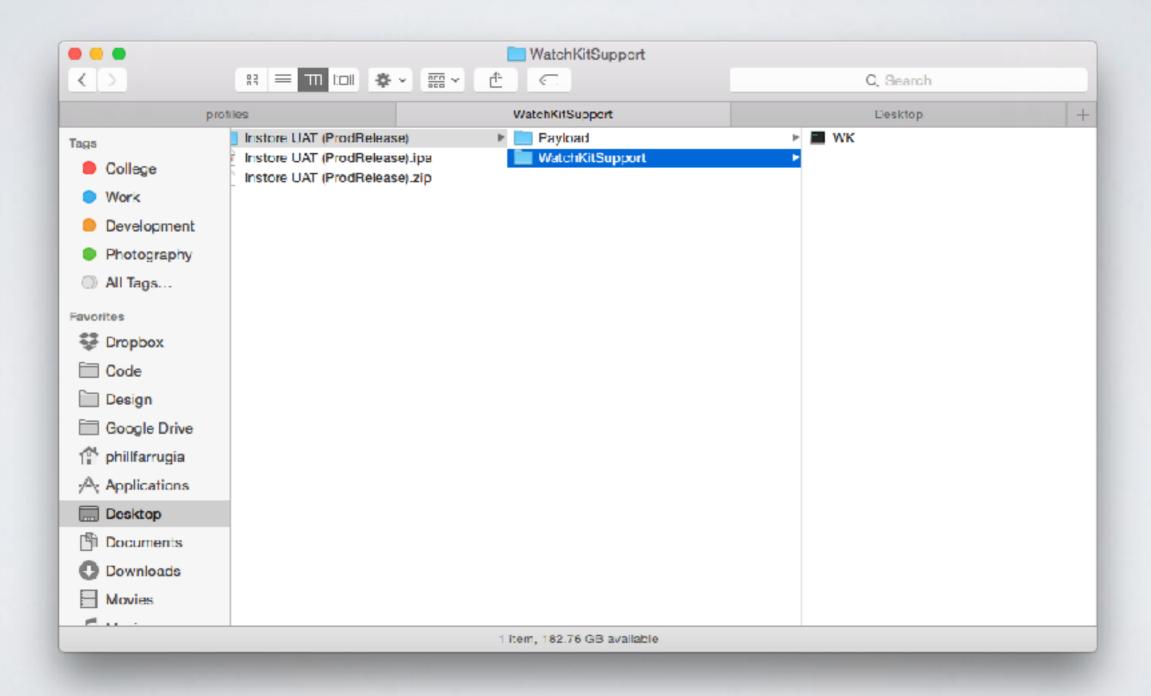














WORKAROUND



2. Re: Invalid WatchKit Support	99 Quote 4 Reply
In response to HerrBob on Apr 1, 2015 1:16 PM	
If you are building your final product outside of Xcode (or have interesting build scripts), before zipping contents to create the IPA, you	ou should:
1. Create a directory named WatchKitSupport as a sibling to Payload.	
 Copy a binary named "WK" from the iOS 8.2 SDK in Xcode to your new WatchKitSupport directory. This binary can be found at: /Applications/Xcode.app/Contents/Developer/Platforms/iPhoneOS.platform/Developer/SDKs/iPhoneOS.sdk/Library/Application Support directory. 	port/WatchK/t/
3. Make sure the "WK" binary is not touched/re-signed in any way. This is important for validation on device.	
4. Zip everything into an IPA.	
When expanded the IPA should contain (at least):	
xxx.ipa	
Payload/	
Symbols/	
WatchKitSupport/ WK	
That should help when building.	

WORKAROUND

```
#!/bin/sh
    echo "*
                 SIGN RELEASE
    xcrun \
    -log \
    -sdk $10S_RELEASE_SDK PackageApplication "$PWD/$OUTPUTDIR/Products/$APP_NAME.app" \
10 -o "$PWD/$OUTPUTDIR/Products/$APP_NAME.ipa" \
    -sign "$DEVELOPER_NAME" \
11
    -embed "$PROVISIONING_PROFILE" "$PROVISIONING_PROFILE_WATCHEXT" "$PROVISIONING_PROFILE_WATCHAPP"
12
13
    # Extract IPA
    unzip "$PWD/$OUTPUTDIR/Products/$APP_NAME.ipa"
15
17
    # Include WatchKitSupport
    mkdir "$PWD/$OUTPUTDIR/Products/$APP_NAME/WatchKitSupport"
    cp "/Applications/Xcode.app/Contents/Developer/Platforms/iPhoneOS.platform/Developer/SDKs/iPhoneOS.sdk/Library/Application\
        Support/WatchKit/WK" WatchKitSupport/WK
    # Repackage
22
    zip -qr "$APP_NAME.ipa" Payload WatchKitSupport
23
24
    exit $?
25
```

RADAR

http://tinyurl.com/otx8rzk

