

Apple Watch – Exploring the possibilities

WatchKit Framework

The old friends renamed

- WKInterfaceController
- WKInterfaceObject, WKInterfaceButton, WKInterfaceImage, WKInterfaceLabel, WKInterfaceSwitch
- WKInterfaceTable
- WKMapView
- WKInterfaceDevice

**NEW CHALLENGER
APPROACHING**



Our new challengers

- WKInterfaceSeparator
- WKInterfaceDate
- WKInterfaceTimer
- WKInterfaceSlider

WKInterfaceGroup

- Container of other elements
- Manage layout (horizontal or vertical)
- Can have a background image
- Can set a background color

WKUserNotificationInterface Controller

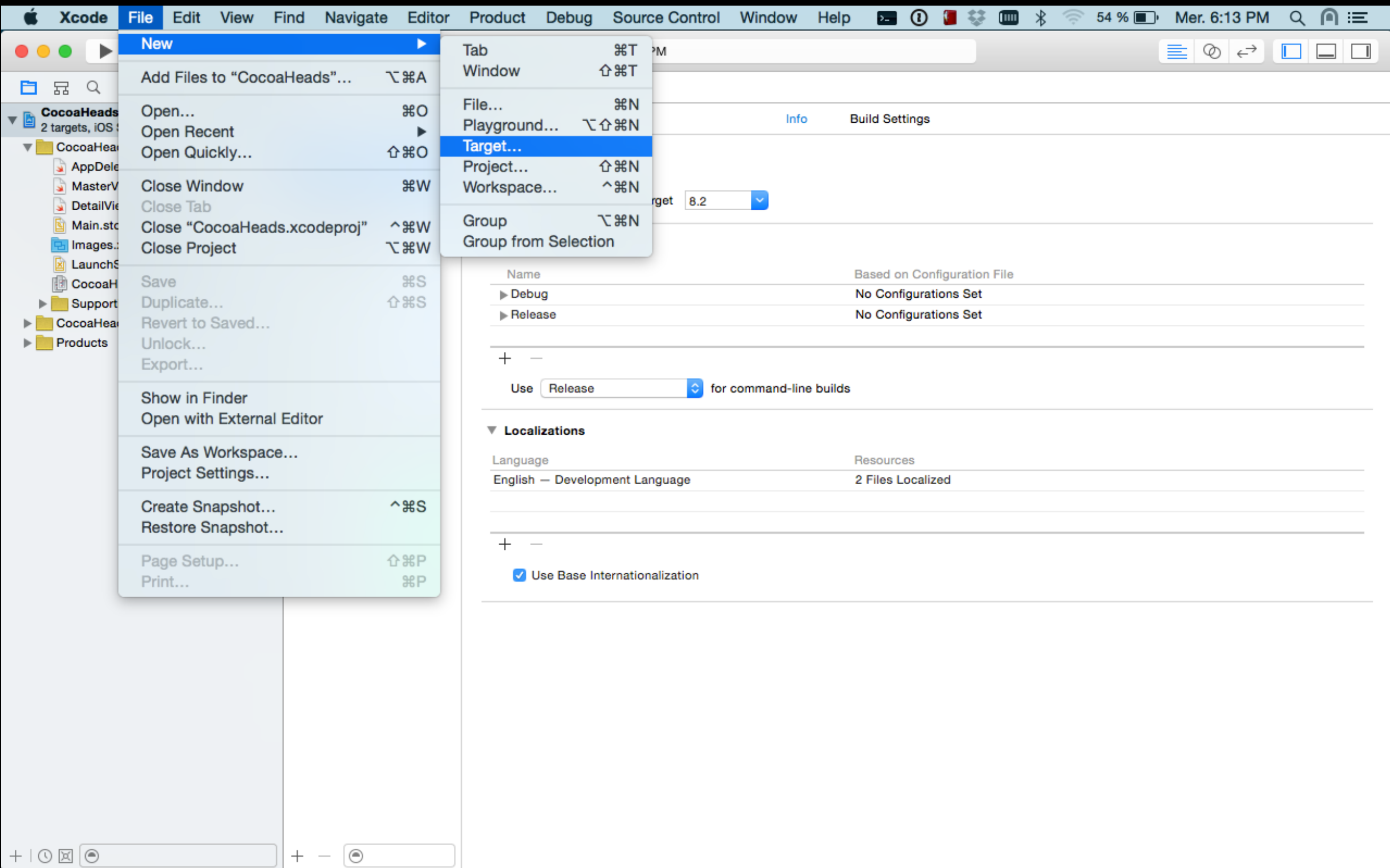
- Class that manages local and remote notifications

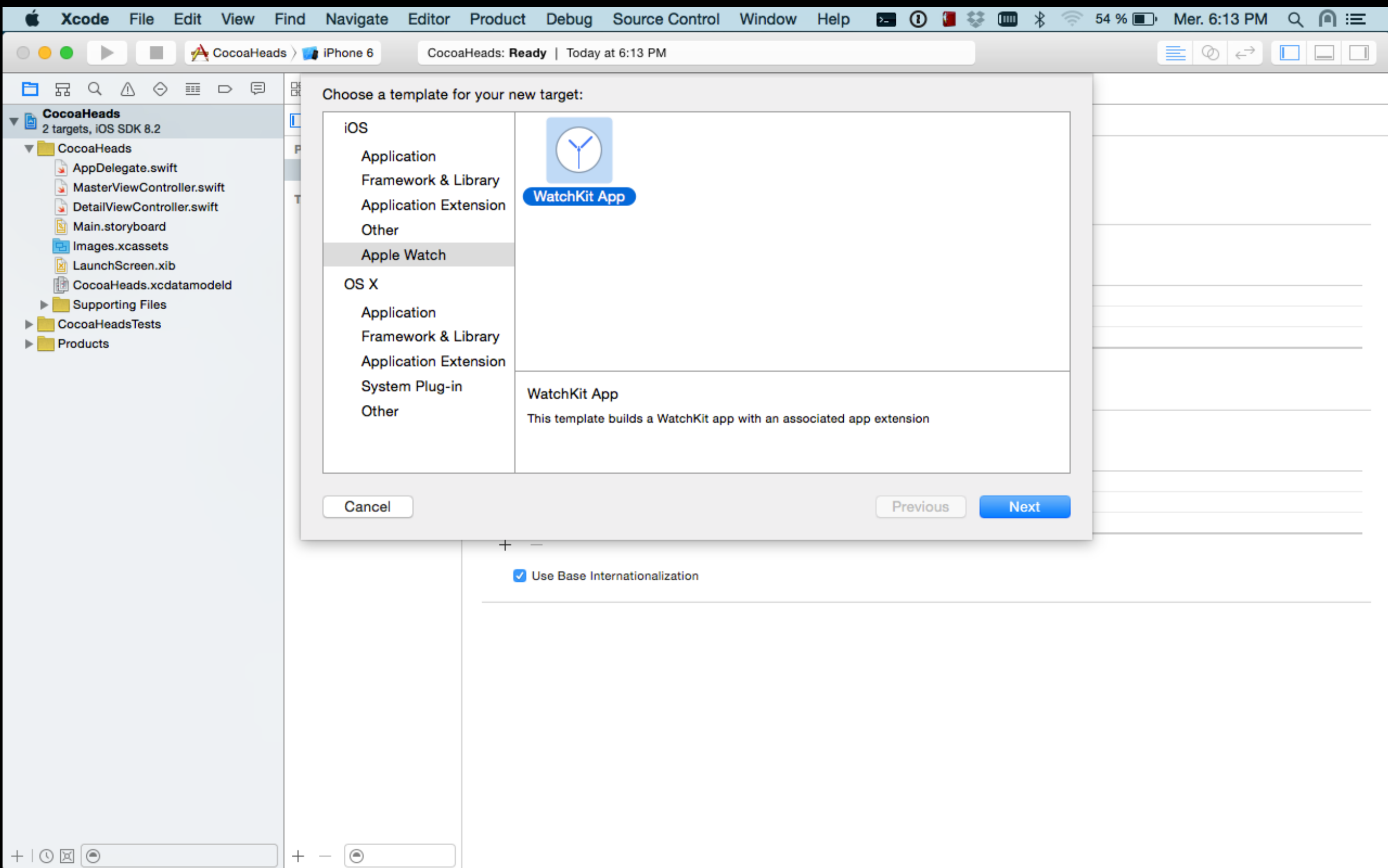
WKInterfaceMenu

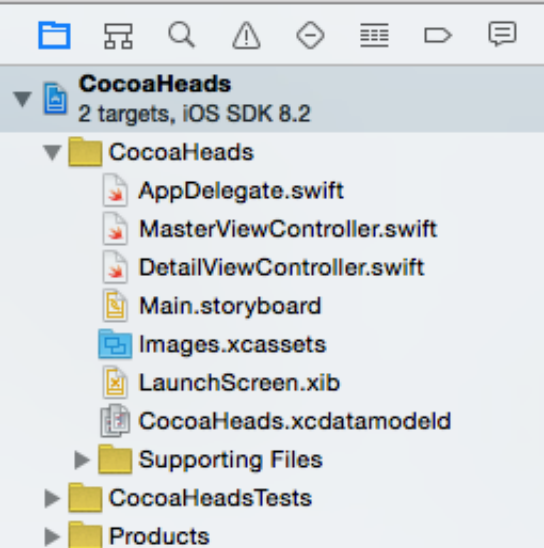
- Call on force press
- Add using storyboard or programmatically
- Up to 4 buttons
- One action for each button

Let's begin

Add an apple watch target to your iOS app







Choose options for your new target:

Product Name: CocoaHeads WatchKit App

Organization Name: Antoine Barrault

Organization Identifier: fr.asapps.CocoaHeads

Bundle Identifier: fr.asapps.CocoaHeads.watchkitapp

Language: Swift

☒ Include Notification Scene

☒ Include Glance Scene

Project: CocoaHeads

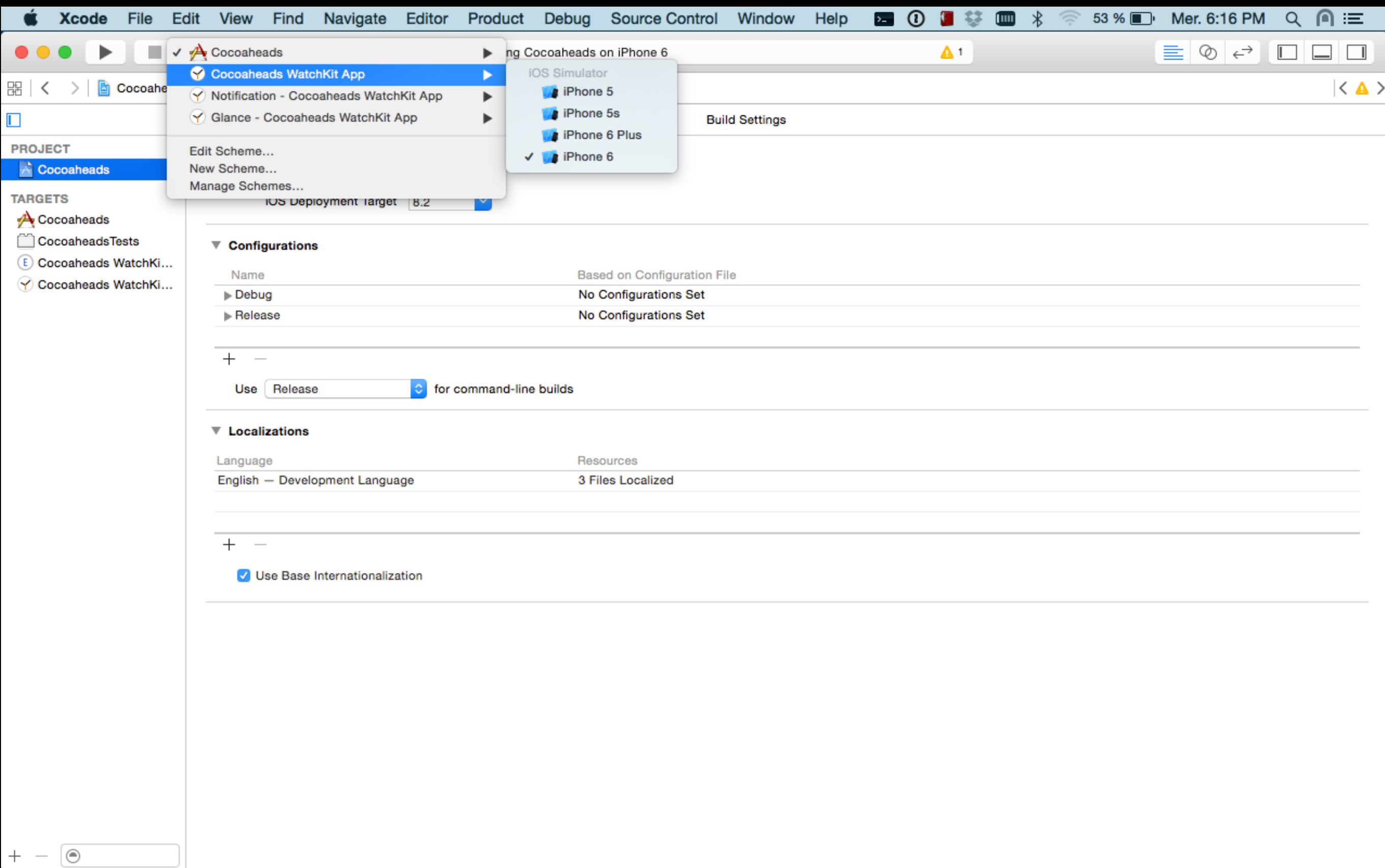
Embed in Application: CocoaHeads

Cancel

Previous

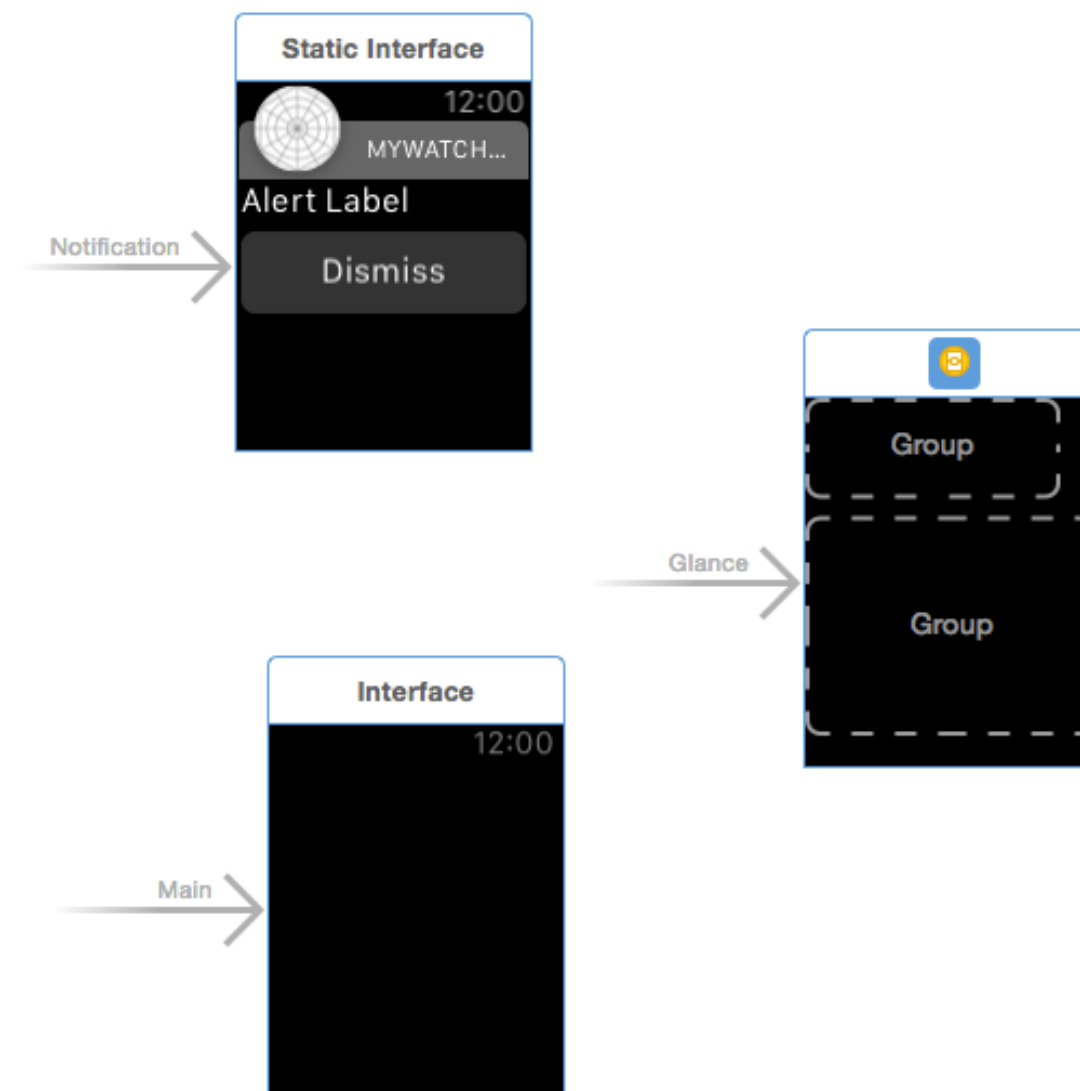
Finish

☒ Use Base Internationalization



Demo

It's all about storyboard



One storyboard to rules them all

It's all about storyboard

WKInterfaceTable

Create a WKInterfaceTable

- Add a WKInterfaceTable to your storyboard
- Set number of row
- No delegate, no datasource

Done!



What about our menu?



Create a custom cell

```
import WatchKit

class MyWatchCell: NSObject {
    @IBOutlet weak var labelOnCell: WKInterfaceLabel!
}
```

Apple Xcode File Edit View Find Navigate Editor Product Debug Source Control Window Help

Cocoaheads iPhone 6 Finished running Cocoaheads on iPhone 6

Cocoaheads Cocoaheads WatchKit App Interface.storyboard Interface.storyboard (Base) Home Scene Home Table myRow

Home Scene

- Home
 - Table
 - myRow
 - Group
 - Label

→ Main Entry Point

Glance Interface Controller Scene

modalFirstScreen Scene

2 Scene

3 Scene

Menu Scene

Animation Scene

OpenApp Scene

Static Notification Interface Controller Scene

Notification Controller Scene

Home 12:00

Label

Main

Any Screen Size

Custom Class

Class MyWatchCell

Module Cocoaheads_WatchKi...

Document

Label Xcode Specific Label

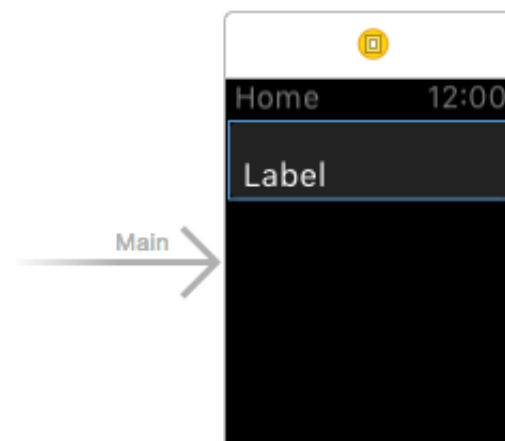
Object ID U9O-wC-Tei

Lock Inherited - (Nothing)

Notes

No Font

- Home Scene
 - Home
 - Table
 - myRow
 - Group
 - Main Entry Point
 - Glance Interface Contr...
 - modalFirstScreen Scene
 - 2 Scene
 - 3 Scene
 - Menu Scene
 - Animation Scene
 - OpenApp Scene
 - Static Notification Inte...
 - Notification Controller...



Row Controller

Identifier myRow

+ ☒ Selectable

Configure each row

```
@IBOutlet weak var table: WKInterfaceTable!

var rows = ["Animation", "Open App", "Menu", "Modal"]

override func willActivate() {
    super.willActivate()

    table.setNumberOfRows(rows.count, withRowType: "myRow")

    for (index, value) in enumerate(rows) {

        let actualRowForThisIndex =
            table.rowControllerAtIndex(index) as MyWatchCell
        actualRowForThisIndex.labelOnCell.setText(value)
    }
}
```


Let start animation!

Let start animation!

- ~~UIView.animateWithDuration~~
- ~~setFrame, setOrigin~~
- Only one solution : WKInterfaceImage

```
func startAnimatingWithImagesInRange(imageRange: NSRange,  
duration: NSTimeInterval, repeatCount: Int)
```

Let start animation!

```
@IBOutlet weak var image: WKInterfaceImage!  
  
override func willActivate() {  
    image.setImageNamed("frame_")  
    let animateRange = NSRange(location: 0, length: 75)  
    image.startAnimatingWithImagesInRange(animateRange,  
        duration: 4.0, repeatCount: 0)  
    super.willActivate()  
}
```

Communicate with the iPhone app

The simplest way

```
let userInfo = ["method":"glance"]

WKInterfaceController.openParentApplication(userInfo, reply: {
(theReply : [NSObject : AnyObject]!, error : NSError!) -> Void in
    if error == nil {
        if let dico = theReply {
            if let number = dico["eventsNumber"] as? NSNumber {
                self.numberLabel.setText("\(number)")
            }
        }
    }
})
```

```
func application(application: UIApplication!, handleWatchKitExtensionRequest
    userInfo: [NSObject : AnyObject]!,
    reply: ([NSObject : AnyObject]!) -> Void) {

    if let method = userInfo["method"] as? String {
        var number : Int?
        switch method {
            case "checkNumber" : number = numberOfEvents()
            case "addEvent": number = addEvent()
            case "deleteEvents": deleteAll()
            default : number = addEvent()
        }
        let dico = ["eventsNumber":NSNumber(integer: number!)]
        reply(dico)
    }
}
```

What's more

- Text input
- Received notifications on the watch

Thanks.

Antoine Barrault - iOS Developer at VivaReal
Twitter : @devasapps
antoine.barrault@vivareal.com

