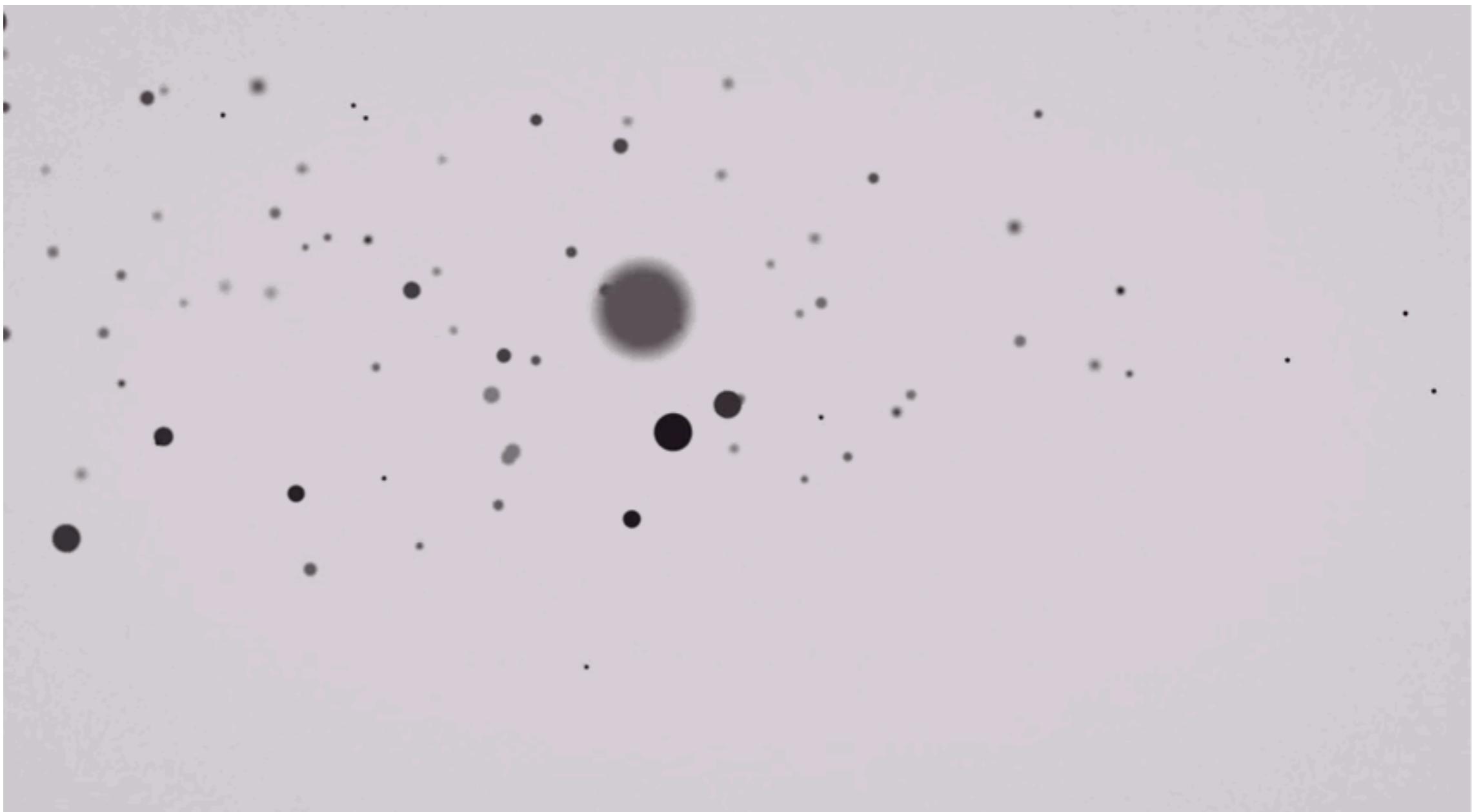




## Insight into Watch







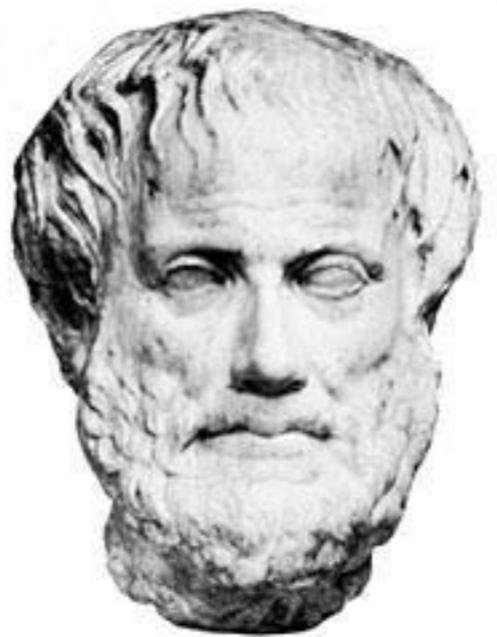


iHype Train

What is a watch?

Why does it deserve to exist?

What is a watch?



“We do not have knowledge of a thing until we have grasped its why, that is to say, its cause.”

- Aristotle





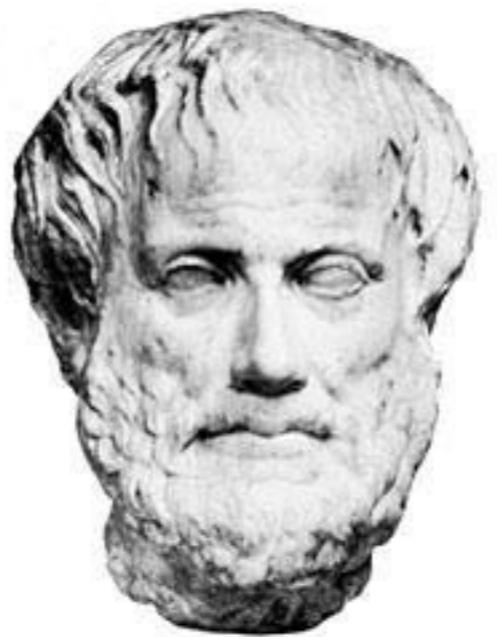




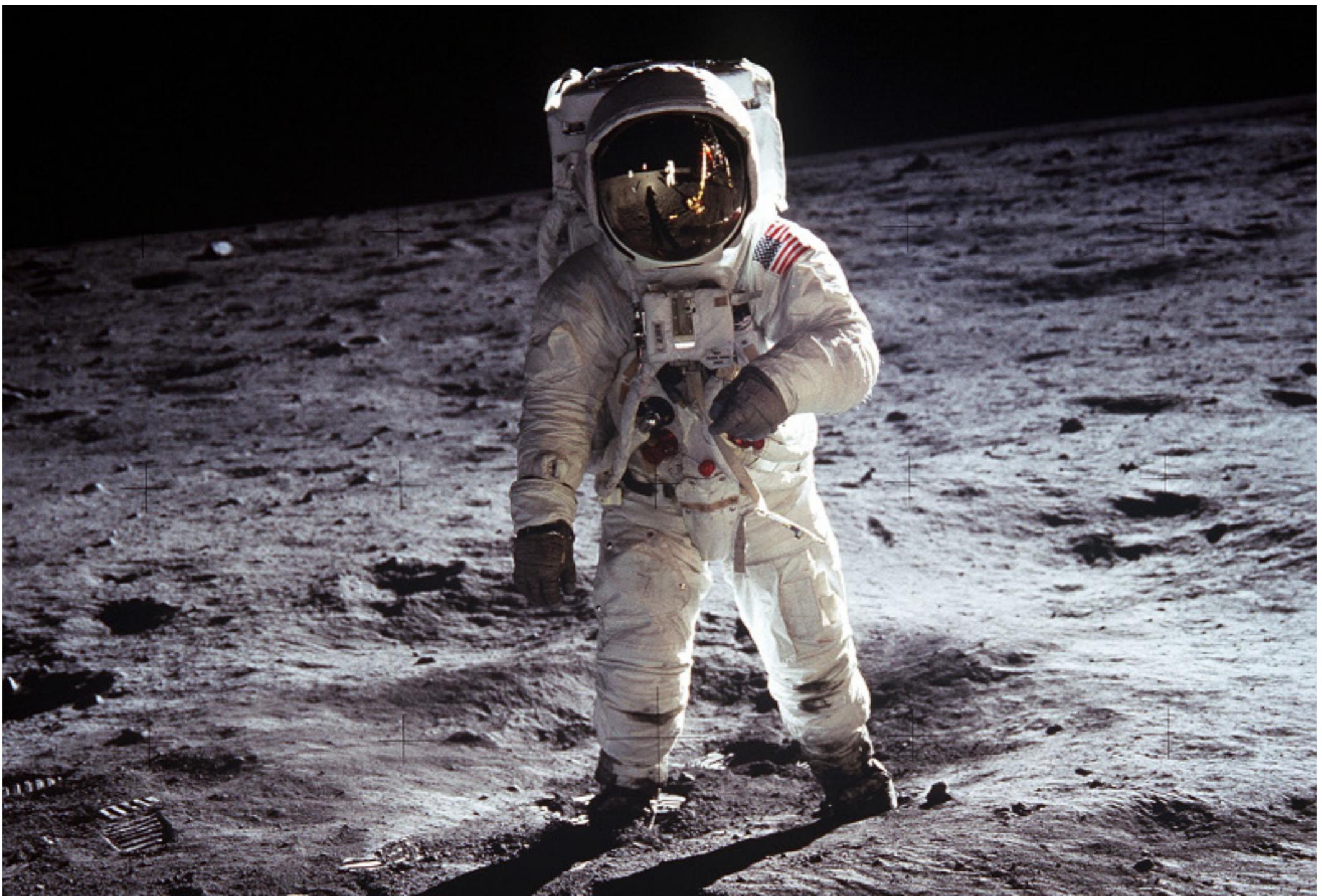




What is a watch?



Why does it deserve to exist?









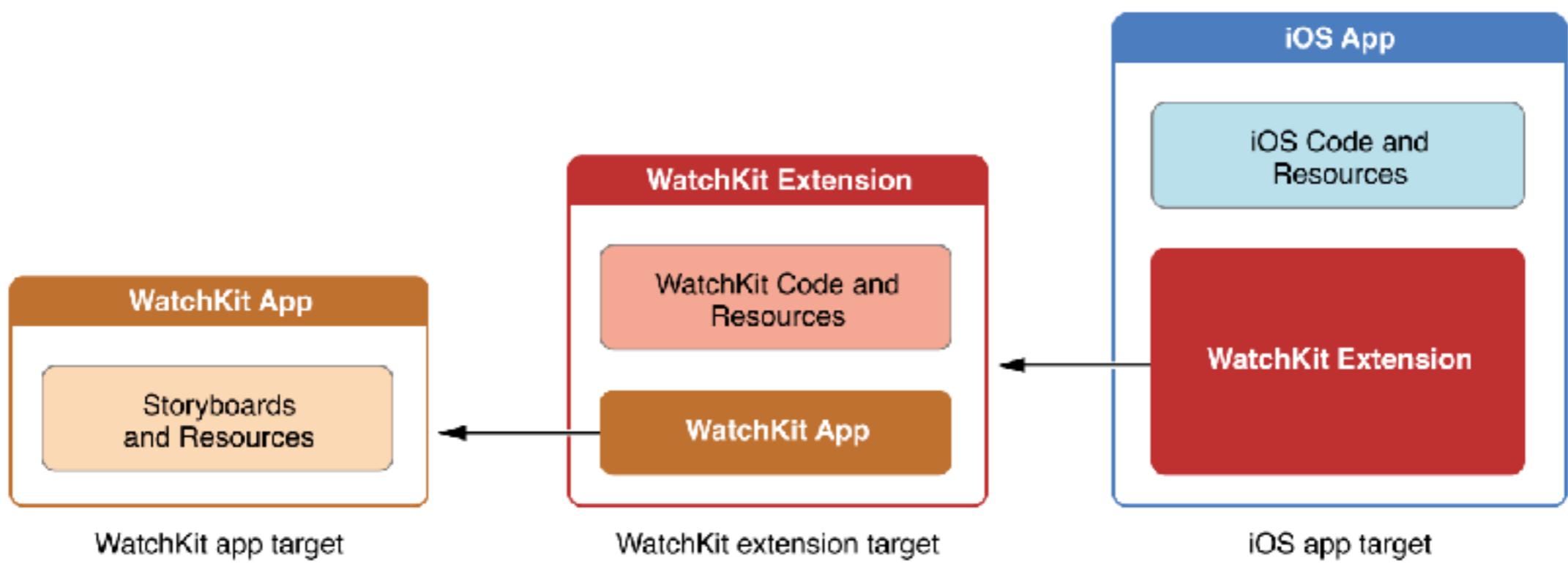


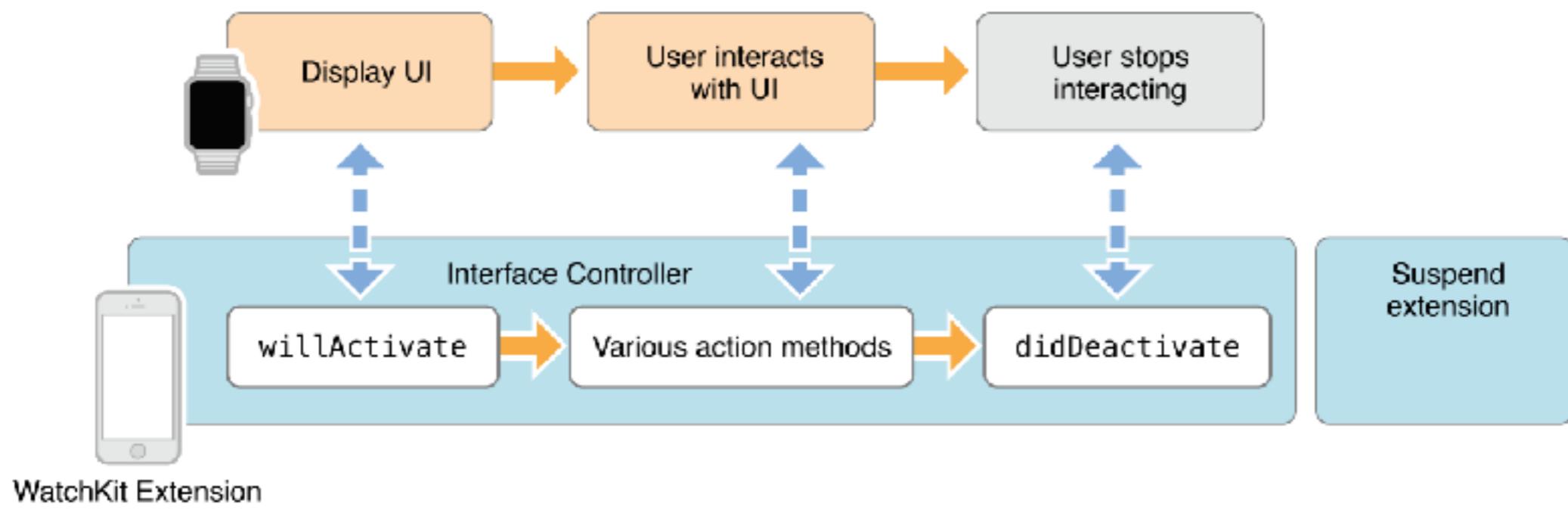


pushing the world forward

Developers?







Choose a template for your new target:

iOS

- Application
- Framework & Library
- Application Extension
- Other
- Apple Watch

OS X

- Application
- Framework & Library
- Application Extension
- System Plug-in
- Other



WatchKit App

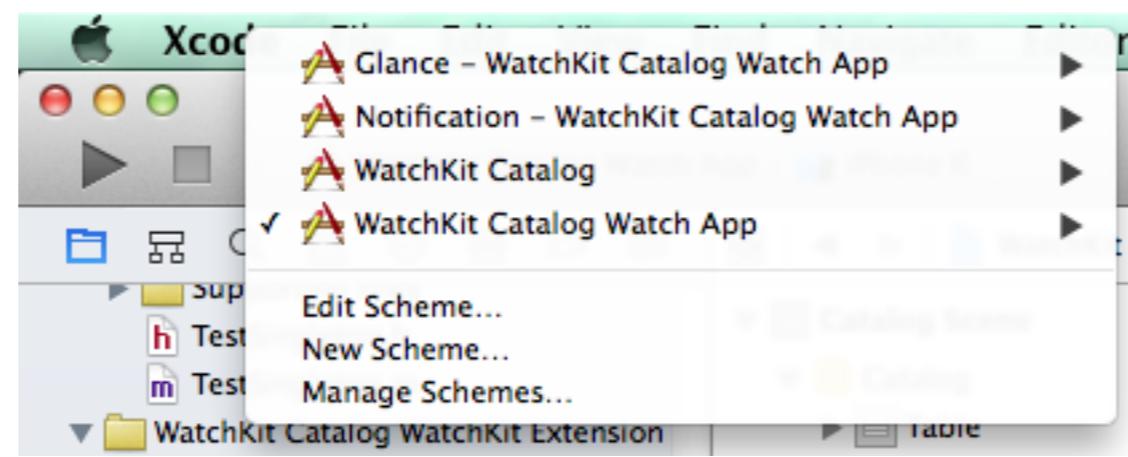
WatchKit App

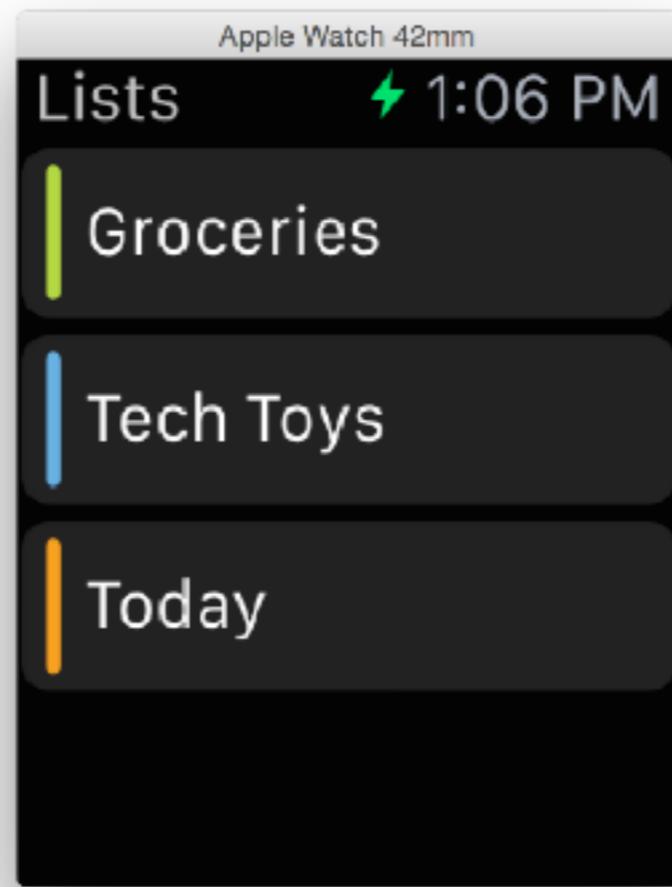
This template builds a WatchKit app with an associated app extension

Cancel

Previous

Next









**WatchKit Apps.** Your app on Apple Watch contains a full user interface. Users can launch, control, and interact with your app in ways unique to Apple Watch.



**Glances.** You can provide users with timely read-only information that they care about with a Glance — a quick and lightweight view of your app.



**Actionable Notifications.** Actionable notifications built and designed with WatchKit let users take action right from their wrists.





No custom views

No access to sensors

No custom watch faces

No playing sound

No In App Purchases

No gestures







Sharing Data

- + openParentApplication:reply:
- application:handleWatchKitExtensionRequest:reply:

▼  App Groups

ON

App Groups:  group.com.

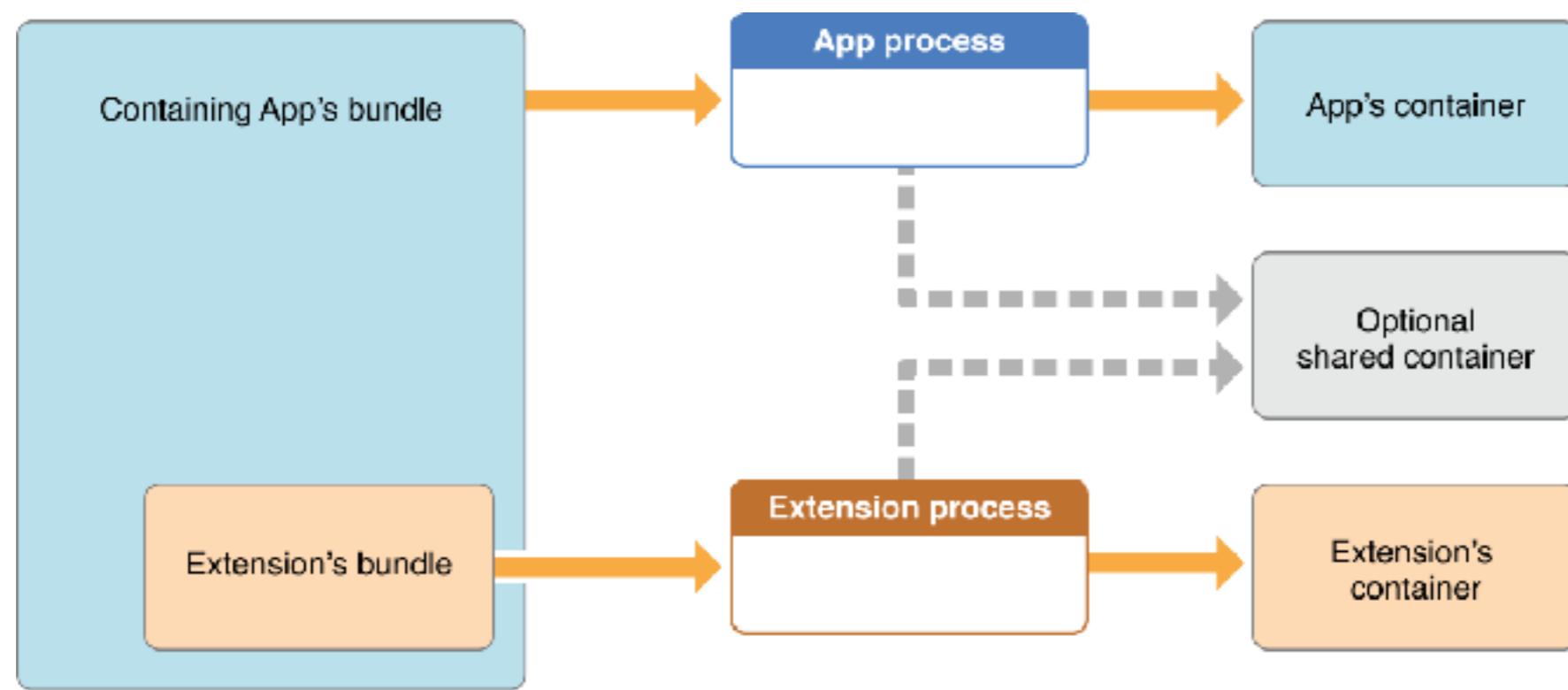


- 
- Steps: ✓ Add the "App Groups" entitlement to your entitlements file  
✓ Add the "App Groups" entitlement to your App ID  
✓ Add the "App Groups containers" entitlement to your App ID

Shared App Groups

Shared UserDefaults

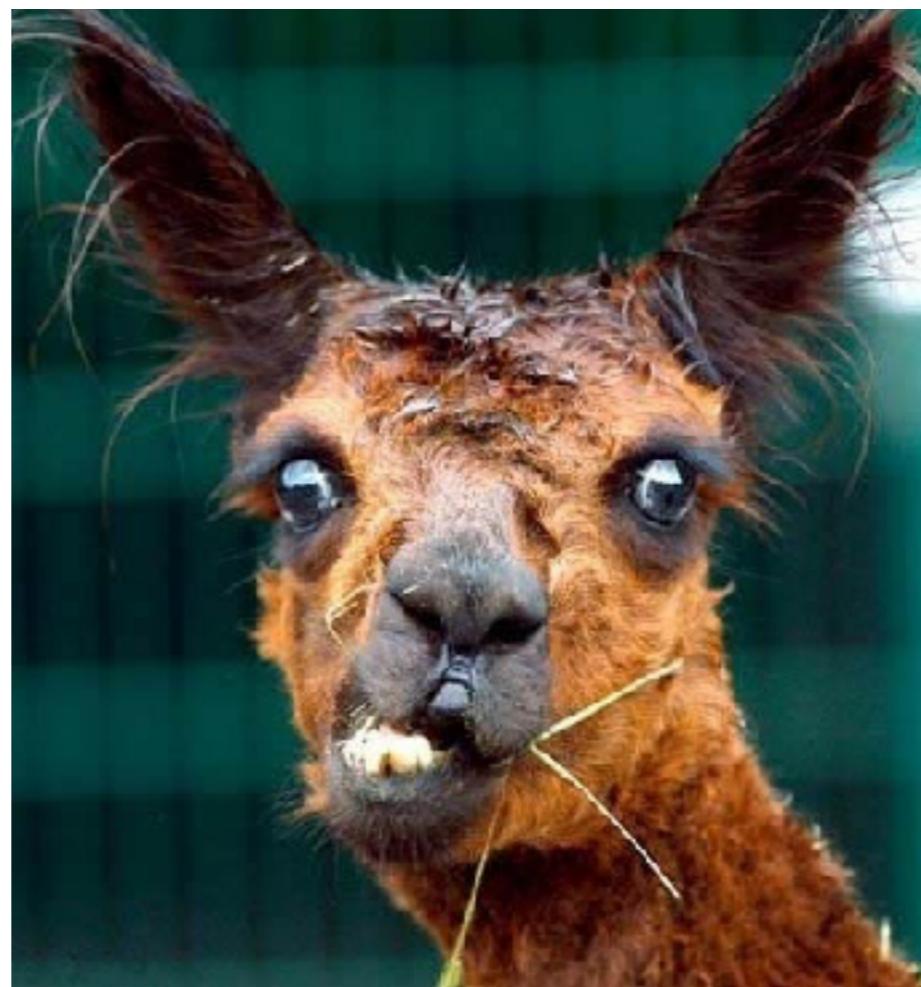
Shared Container



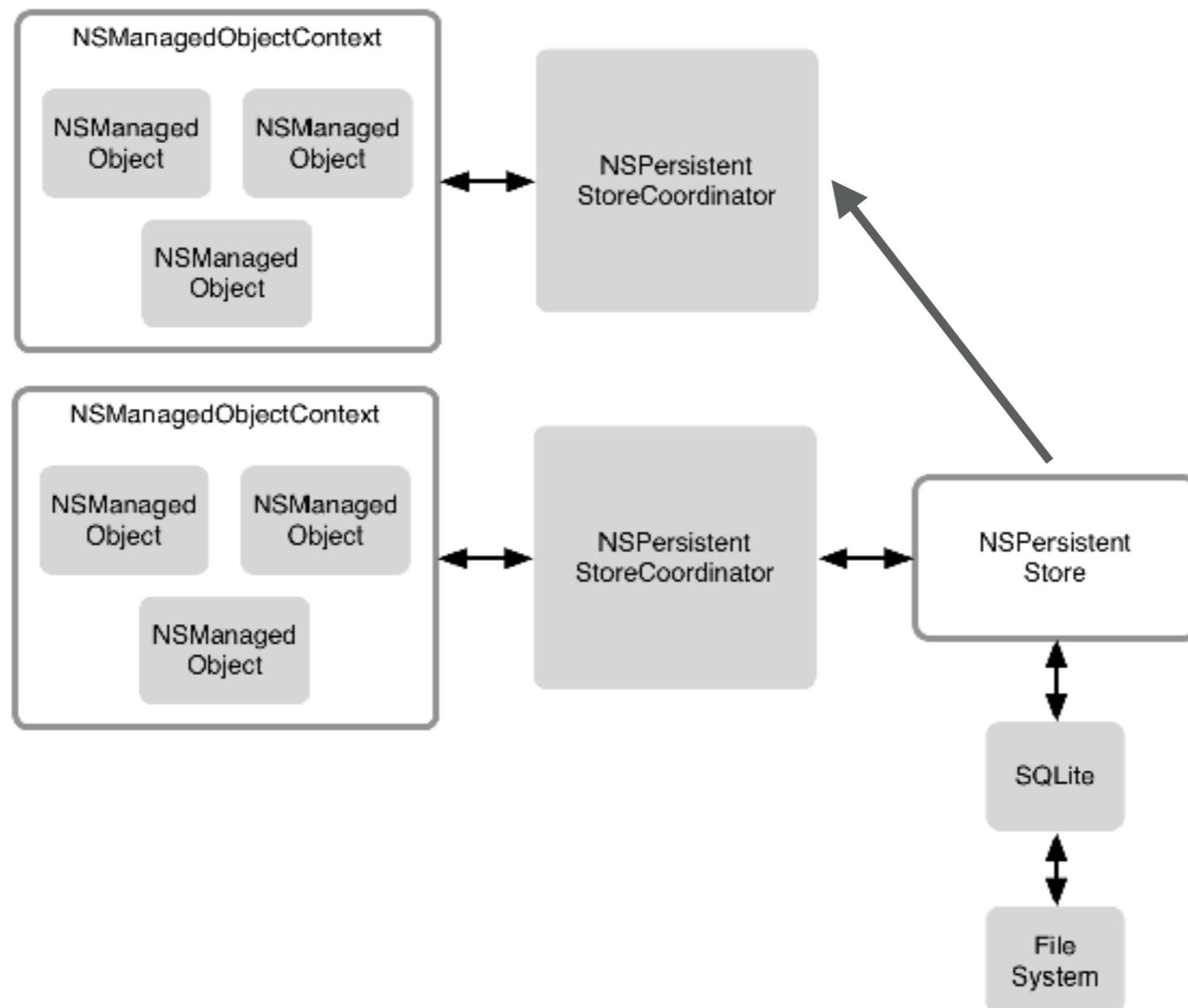
```
NSUserDefaults *myDefaults = [[NSUserDefaults alloc]
    initWithSuiteName:@"group.com.atomicbird.demonotes"];
[myDefaults setObject:@"foo" forKey:@"bar"];
```

Interprocess Communication?





addPersistentStoreWithType: configuration:  
URL: options: error:



Darwin Notification Centre?

Berkeley Sockets?

NSFileCoordinator?

## Interprocess communication on iOS with Berkeley sockets

Feb 6, 2015 • Damien DeVille

With iOS 8, Apple introduced App Extensions. App Extensions are self-contained apps that developers can ship along with their main application. They can be launched on demand by the system to perform things such as sharing, editing a photo, displaying a widget in the Notification Center, presenting a custom keyboard or even provide content to an app running on the Apple Watch.

In order to allow an extension and its hosting application to share data and resources, application groups were also introduced (it's worth noting that they were originally introduced on OS X in 10.7.4 to support sharing data between an application and a Login Item application shipped within its bundle).

An application group is an identifier shared between various applications in the same group (it can be enabled through an entitlement). Applications in the same group can share a group container directory that is located outside of their own sandbox but accessible by all applications in the group. Think of it as another sandbox shared between applications. An application and its extensions can share this group container but so can multiple applications released by the same developer (assuming they have all specified the same identifier for the `com.apple.security.application-groups` entitlement).

While it might not seem much at first, this means that applications belonging to the same group can now:

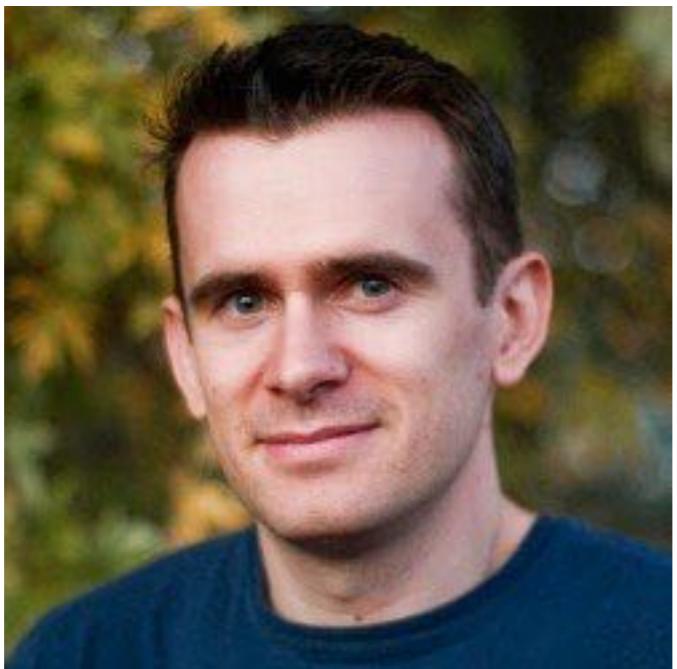
Need an official IPC API

Resources?

resolve

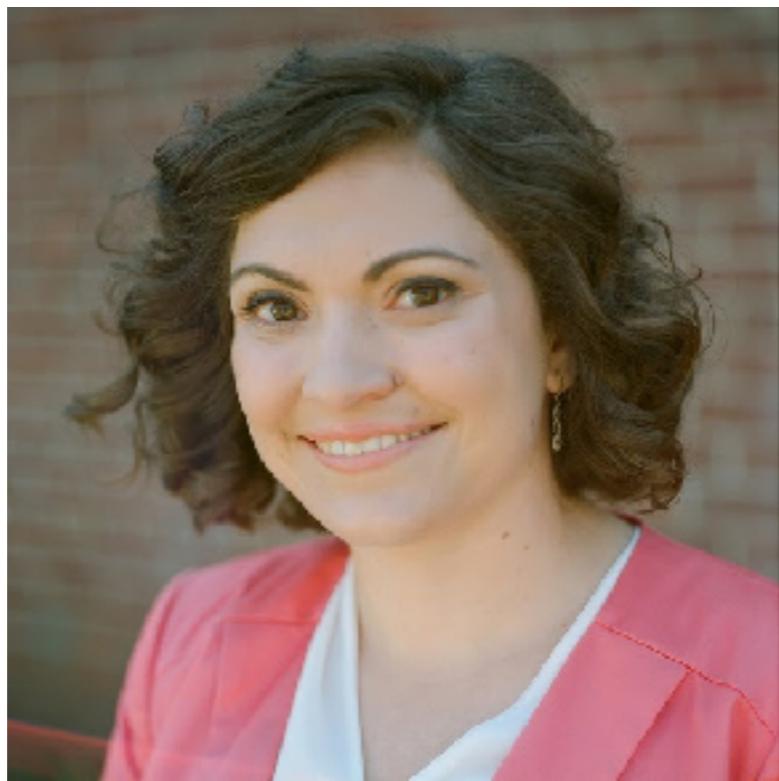


hackathon.watch



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<http://david-smith.org/watchkit/>



@natashatherobot  
<http://natashatherobot.com>

<https://devforums.apple.com/community/ios/watchkit>



Questions?



Thank you!