Mike Berlin @mikeberlin http://mike-berlin.com





Kansas City Mobile .NET Developers Group



Flying a drone from an Apple Watch? GTFOH!

Started with an invitation



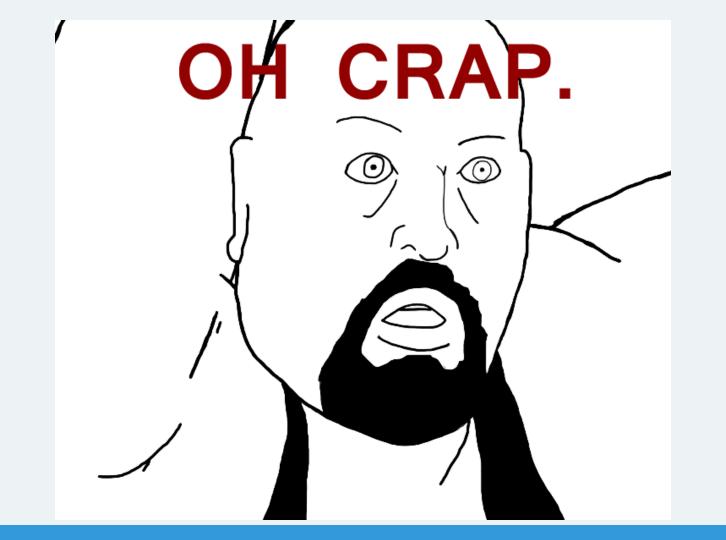
© Developer

You're invited to test your apps on Apple Watch.



We're looking forward to the innovation you'll bring to the most personal product Apple has ever made. If you have a WatchKit app, Glance, or notification that's ready to test on Apple Watch, you can reserve a day for testing at one of our upcoming labs.





The Xamarin devs r0x0r!





March 6, 2015

Like Clockwork, Xamarin Releases Watch Kit Support

By Miguel de Icaza

We're very excited to announce official support for Apple's just-released Watch Kit.

Xamarin + 10:09

To start building Watch apps with Xamarin immediately:

- Download the official <u>Xcode 6.2 release</u> from Apple.
- Update Xamarin.iOS to the latest version.

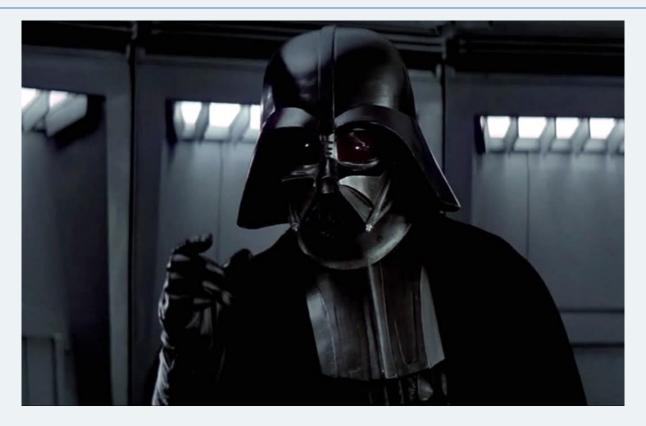
What you can do



- Three primary Apple Watch interactions
 - WatchKit Application
 - Glances
 - Actionable Notifications
- Digital crown (scrolling only at the moment)
- Tap gestures
- Annnnnnd...

Force Choke Touch



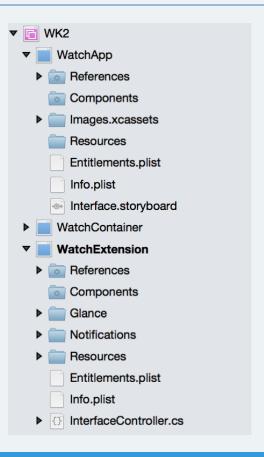


^{*} http://developer.xamarin.com/guides/ios/watch/controls/menu/

Solution Architecture



- Watch Container / Parent app
- Watch Extension
- Watch Application



Solution Architecture



About Watch Kit

- · iOS "Parent or Container" App
 - Watch Extension
 - · Watch App (delivered to watch)
- · Watch Extension and App communicate!
 - · Code runs in Extension on iPhone
 - UI (storyboard, images) is loaded on the watch itself



WKInterfaceController



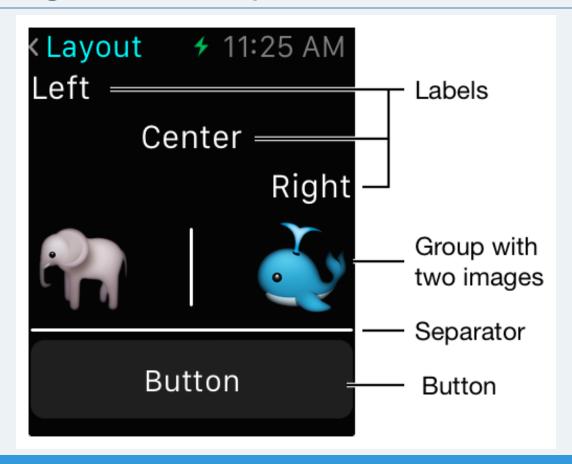
- Serves the same purpose as a View Controller in iOS
 - Presents and manages content on the screen
 - Responds to user interaction
- Unlike a View Controller, it does not manage the View
 - Handled by WatchKit



Creating the User Interface

Assembling Your Storyboard Scenes







The App Idea

Parrot FR. Drune 2.0



The challenge



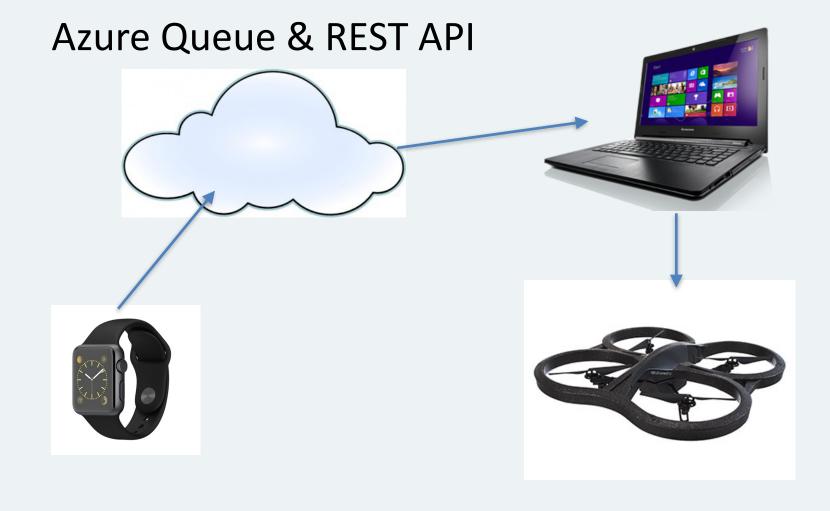
- I'll be in California
- Drone will be in Missouri



AR.Drone C# Project



- Fly the drone through a WinForms app
- Built using C#
- https://github.com/Ruslan-B/AR.Drone
- Piece that issues commands directly to the AR Drone 2.0





Apple Dev Lab

SECURITY NOTICE

NO PHOTOS OR VIDEO ALLOWED



SmartSign.com • 800-952-1457 • K-2525





DEMO

Demo gawds!!!



https://www.facebook.com/bernsteinrein/videos/vb.
11770529289/10152845606549290/

Useful Links



- Apple's WatchKit Site THE source (Programming Guide)
 - https://developer.apple.com/watchkit/
- Apple Watch Programming Guide
 - https://developer.apple.com/library/prerelease/ios/documentation/General/Conceptual/ WatchKitProgrammingGuide/
- Craig Dunn's wealth of WatchKit knowledge
 - http://conceptdev.blogspot.com/2015/02/apple-watch-kit-round-up.html
- Xamarin's Developer Documentation
 - http://developer.xamarin.com/guides/ios/watch/intro-to-watchkit/
- Xamarin's Blog Post
 - http://blog.xamarin.com/xamarin-releases-watch-kit-support-like-clockwork/



Try Xamarin Today







Unrivaled Mobile Development Training

Live unlimited mobile development training from mobile experts, in your time-zone, on your schedule and as often as you'd like



Thank You

Mike Berlin @mikeberlin http://mike-berlin.com