

Introduction



Mike Irving

Macclesfield based Full Stack Developer

C# / Mobile / Web / Obj-C .. Lots of stuff

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Meetup Groups





Dot Net North

Meetup.com/DotNetNorth

@DotNetNorth



Macc Tech

Meetup.com/MaccTech

@MaccTech

'Project Islandwood'



The Windows Bridge for iOS

So what is it exactly?

A tool for creating UWP Apps, based on Apple / iOS stuff...

Objective-C Compiler for Windows / VS

Support for iOS SDKs / APIs / Frameworks / 'Kits'

- i.e. CoreFoundation, CoreData, CoreGraphics, UIKit, AudioToolbox..

Support for iOS Interface / Markup Files

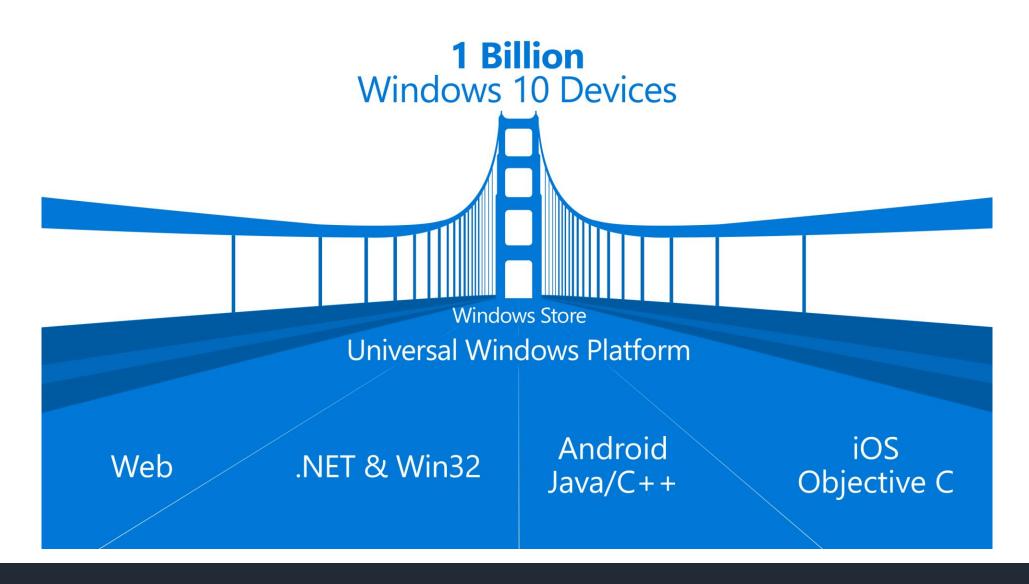
- Xib and Storyboard files

Support for iOS UI Components

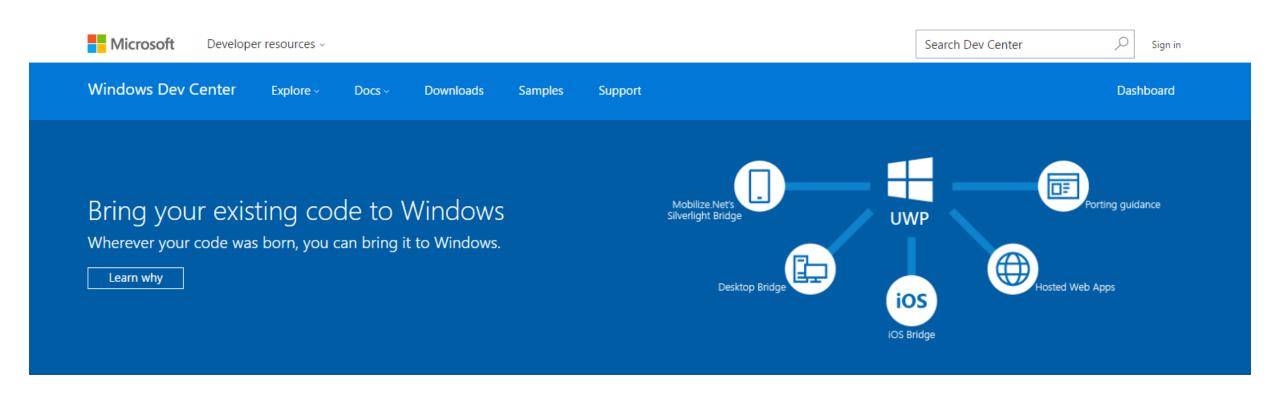
- These map on to UWP equivalents, via iOS Methods and Properties.

Access to all UWP stuff once across the bridge.. Via Obj-C or C++

Full Set of Windows Bridges

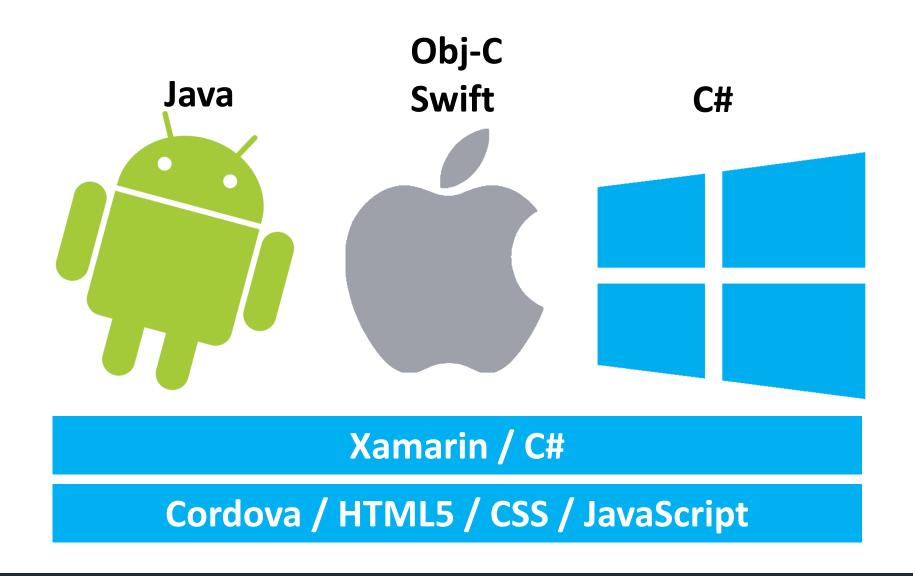


Bridges that didn't go A Bridge Too Far

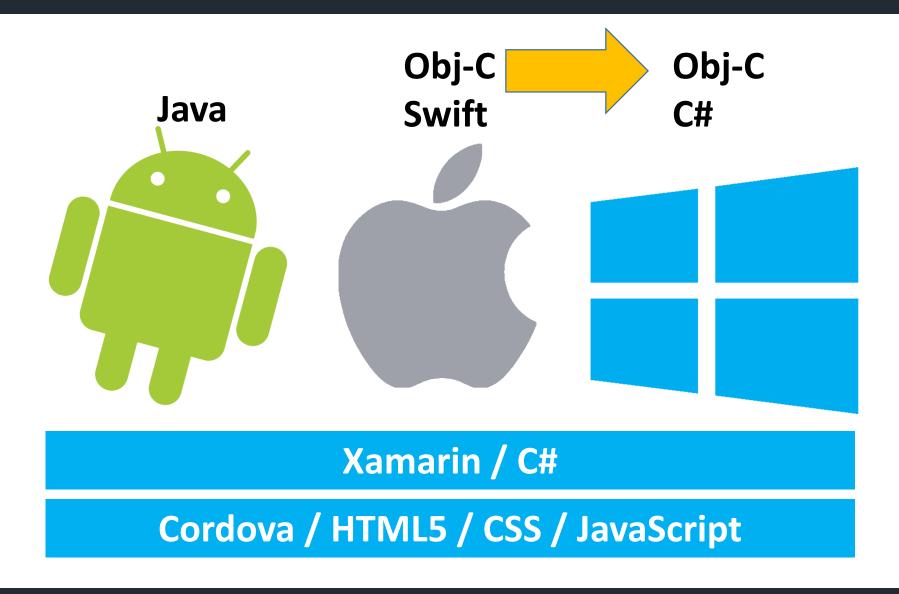


https://developer.microsoft.com/en-us/windows/bridges

Cross Platform Choices



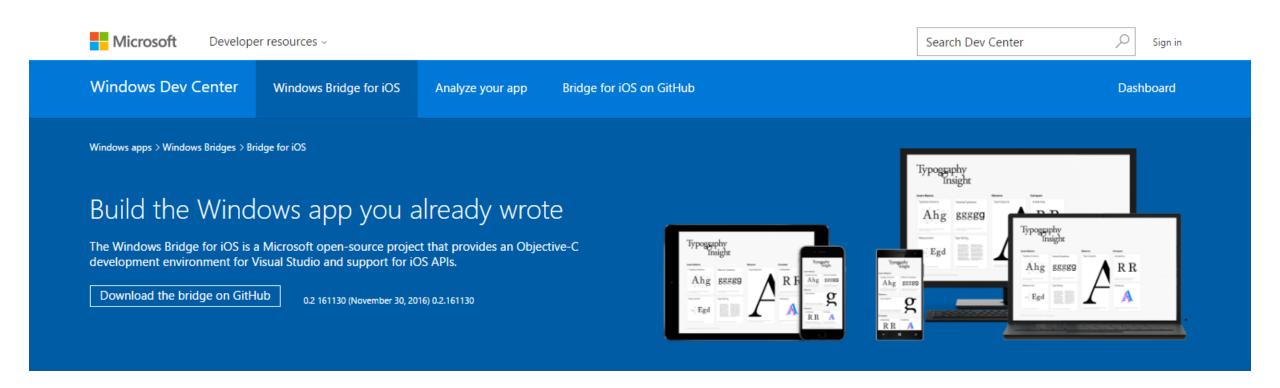
Yet Another Cross Platform Choice



An Objective-C UWP App

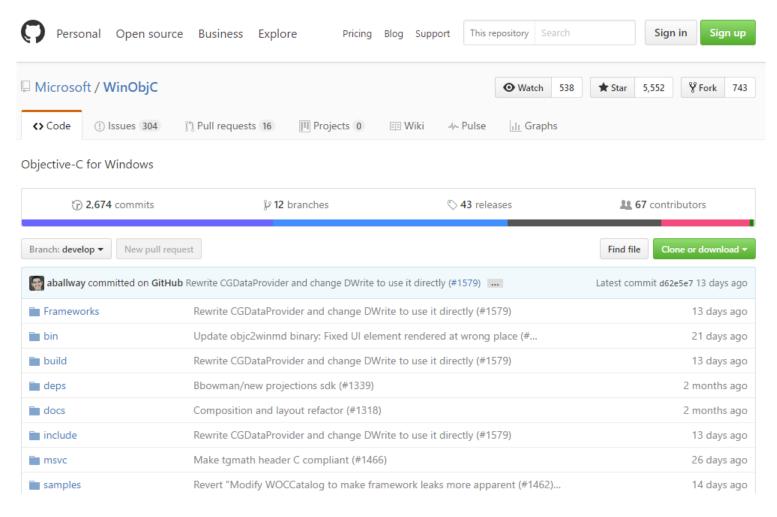


Available today, The Windows Bridge for iOS



https://developer.microsoft.com/en-us/windows/bridges/ios

Open Source, available on GitHub



https://github.com/Microsoft/WinObjC

What you'll need

Windows 10 PC

Visual Studio Community 2015

- Visual C++
- Universal Windows App Development Tools
- Windows 10 SDK
- Emulators for Windows 10 Mobile

https://www.visualstudio.com/

The Windows Bridge for iOS, latest recommended release https://github.com/Microsoft/WinObjC/releases

A decent spec machine

Hyper-V required for Windows 10 Mobile Emulator

Run on a Mac

A Windows 10 Virtual Machine

Nested Hypervisor for Windows 10 Mobile Emulator







Run on a Mac

Running Windows 10

- on a Mac
 - running the Windows 10 Mobile Emulator
 - running an app built originally for iOS

As simple as that!

Getting Started

Visual Studio 2015

The WinObjC ZIP from GitHub

The Windows Bridge for iOS, latest recommended release https://github.com/Microsoft/WinObjC/releases

An iOS project ZIP

Shot Time App



Shot Time – A Pool Game Timer

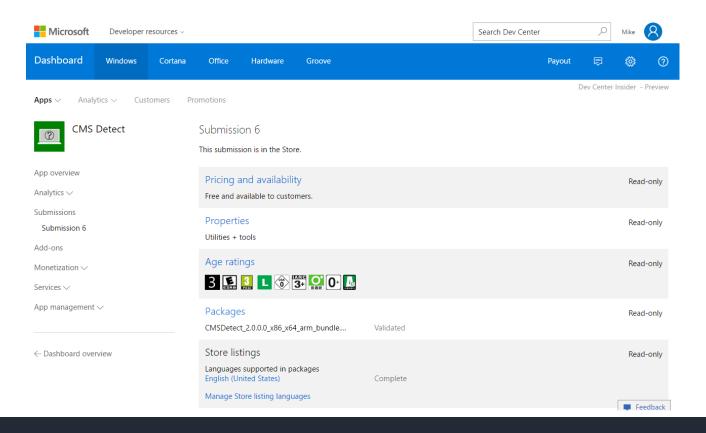
My first Objective-C App, dating from 2011

Demo

Publishing

Upload binary, artwork, screenshots, descriptions, pricing etc.

http://dev.windows.com



App Analysis Tool

Microsoft Developer resources ~						Search Dev Center	٩	Sign in
Windows Dev Center	Windows Bridge for iOS	Analyze your app	Bridge for iOS on GitHub				Dashb	oard
Windows Bridges > Bridge for iOS > App analysis tool								
Analyze your iOS app					How do I export an IPA from Xcode? You will need to export an unencrypted IPA from Xcode to use the app analysis tool. Here's how: 1. In Xcode, choose Generic iOS Device or a connected device from the Scheme toolbar menu. You can't create an IPA from a simulator build. 2. Choose Product > Archive. 3. In the Archives Organizer, select the archive and click Export. 4. Select Save for Development Deployment and click Next. The resultant IPA will be code signed with your development certificate.			
Drag and drop your IPA here or browse your files								
To help you evaluate how well the Windows Bridge for iOS will work for your app, we are providing an app analysis tool. The tool will examine your project and cross-reference the frameworks and classes used with the ones currently supported by the bridge, and return the results right in your browser. The tool will also identify third-party libraries and SDK packages used in your project and let you know if they – or equivalent libraries – are available on Windows 10. The analysis is just a starting point, but it will give you a good idea of how much work will be required to bring your iOS app to Windows 10.					5. Follow the Xcode prompts to generate and save your IPA.			
Note: Depending on the size of your IPA and the number of third-party libraries it uses, the analysis may take several minutes to complete. Name Email					What's next? The app analysis tool will give you a good sense of how well your code will run on Windows, but nothing beats actually trying out the bridge. If you have a PC, you can download the bridge from GitHub and try it out with your app. If you			lly d

Any Questions?

Links:

https://www.visualstudio.com/

https://github.com/Microsoft/WinObjC/releases

https://developer.microsoft.com/en-us/windows

http://www.mike-irving.co.uk/