

Agenda

- Introduction to Xamarin
- Cross Platform UI with Xamarin.Forms
- Breaking Through the Abstractions
- Mobile First Architecture
- Resilient Connected Apps (if time permits)

Let's get started.....



How would you rate your current Xamarin skills?

■ Mentimeter

0 No idea 0

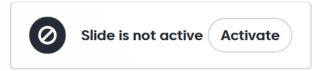
Familiar

0

Proficient

0 Advanced 0 Expert

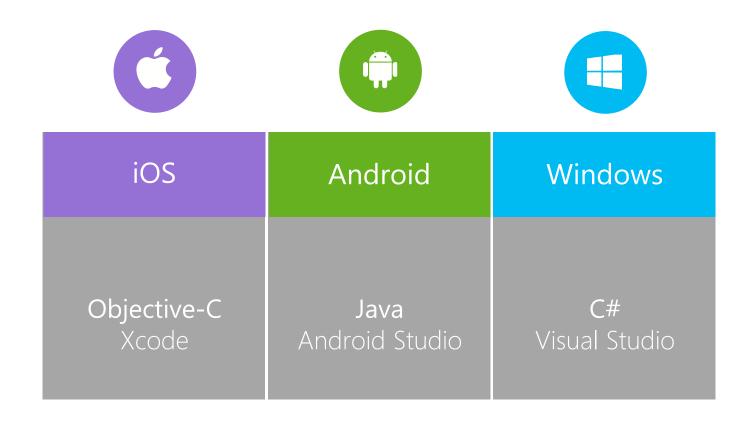
0 Jedi Master





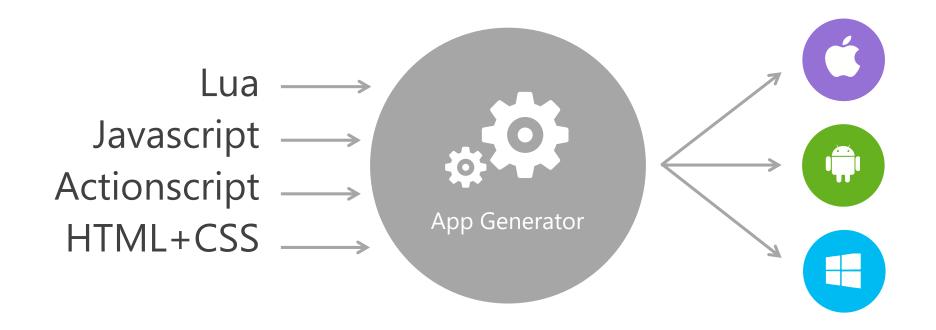
Architecting Mobile Apps

Silo Approach



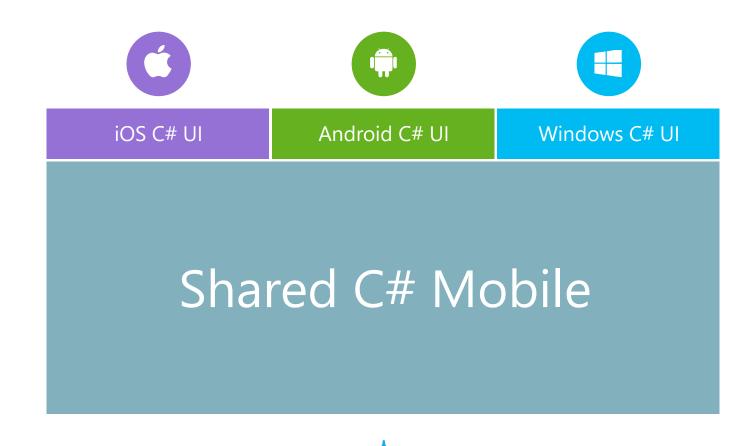
No shared code • Many languages & development environments • Multiple teams

Write Once, Run Anywhere



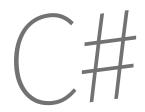
Limited native API access • Slow performance • Poor user experience

Xamarin's Unique Approach



Windows APIs

Microsoft.Phone	Microsoft.Networking	Windows.Storage	Windows.Foundation	Microsoft.Devices
System.Net	System	System.IO	System.Linq	System.Xml
System.Data	System.Windows	System.Numerics	System.Core	System.ServiceModel



iOS – 100% API Coverage

MapKit	UIKit	iBeacon	CoreGraphics	CoreMotion
System.Net	System	System.IO	System.Linq	System.Xml
System.Data	System.Windows	System.Numerics	System.Core	System.ServiceModel

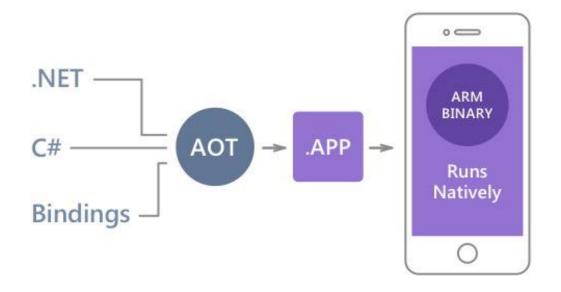


Android – 100% API Coverage

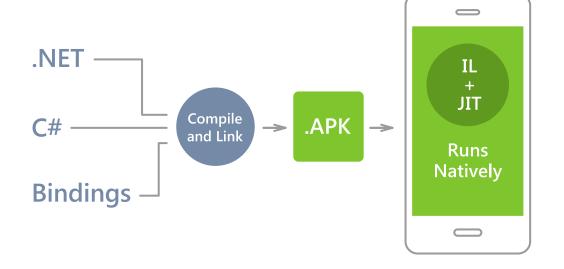
Text-to-speech	ActionBar	Printing Framework	Renderscript	NFC
System.Net	System	System.IO	System.Linq	System.Xml
System.Data	System.Windows	System.Numerics	System.Core	System.ServiceModel



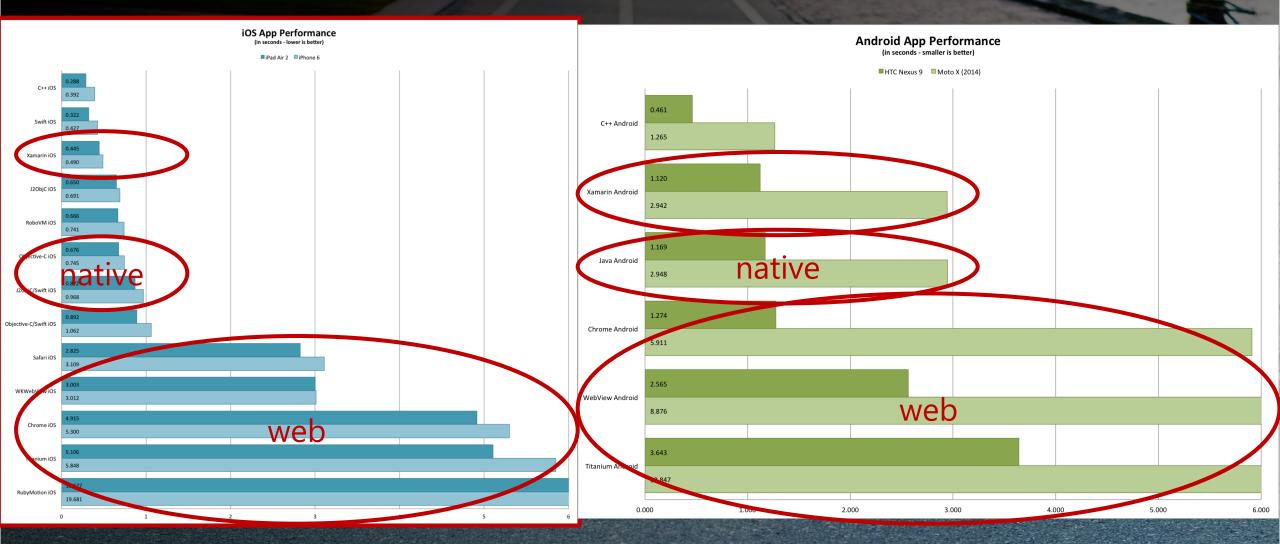
Native Performance



Xamarin.iOS does full Ahead Of Time (AOT) compilation to produce an ARM binary for Apple's App Store.



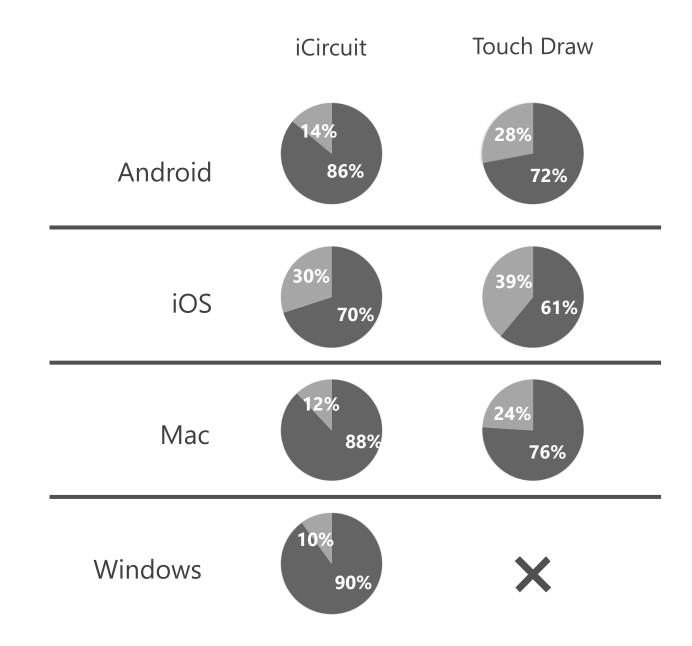
Xamarin.Android takes advantage of Just In Time (JIT) compilation on the Android device.



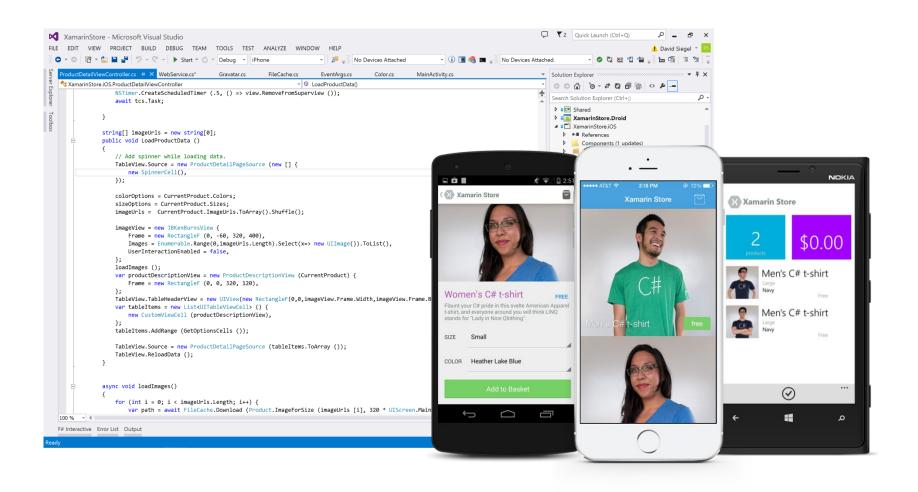
http://bit.ly/mobile-app-performance

DOESTREAM 2

Code sharing stats



Anything you can do in Objective-C, Swift, or Java can be done in C# and Visual Studio with Xamarin.



✓Always Up-to-Date

Same-day support:

- iOS 6
- iOS 7
- iOS 8
- iOS 9
- iOS 10
- iOS 11
- iOS 12

Full support for:

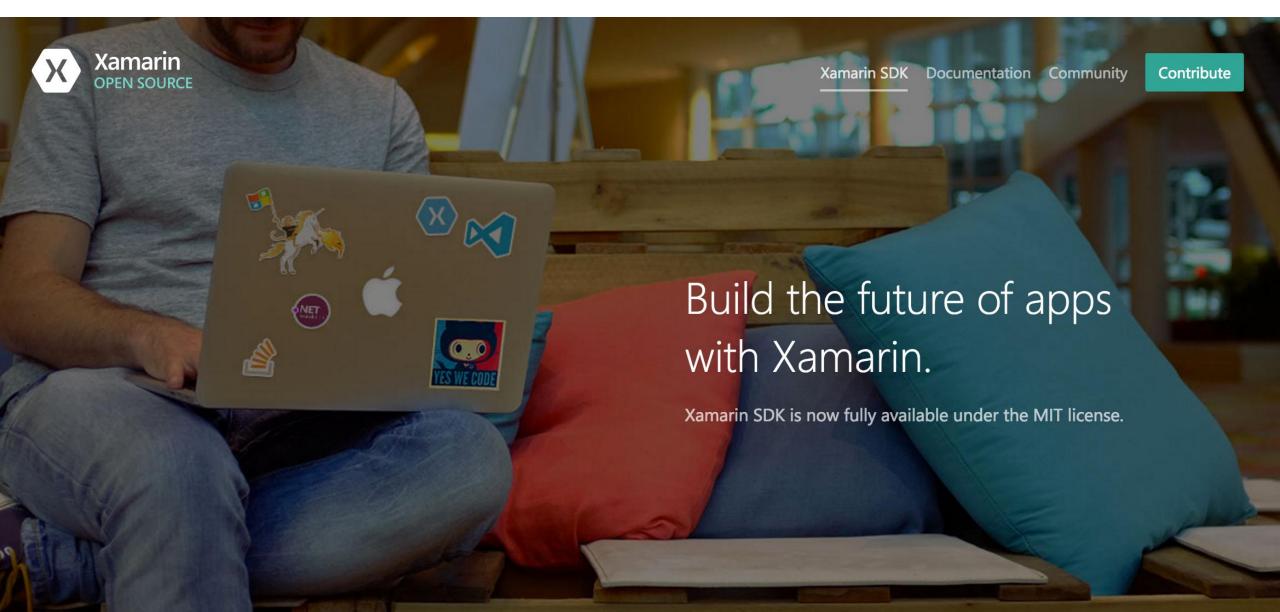
- Apple Watch
- Apple TV
- Android Wear
- Amazon Fire TV
- Google Glass
- and much more

Development Experience

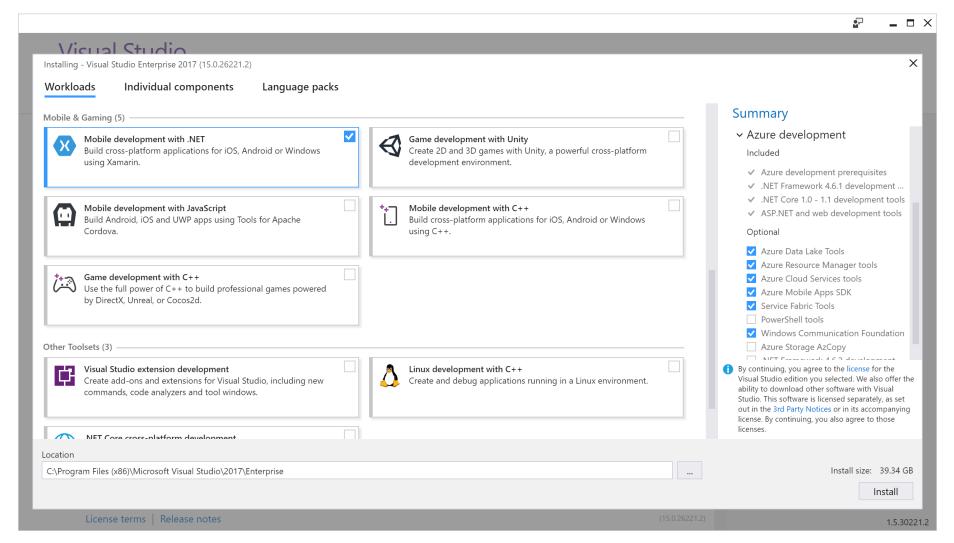
Xamarin is included in Visual Studio

Including Community Edition!

Open Source – open.xamarin.com

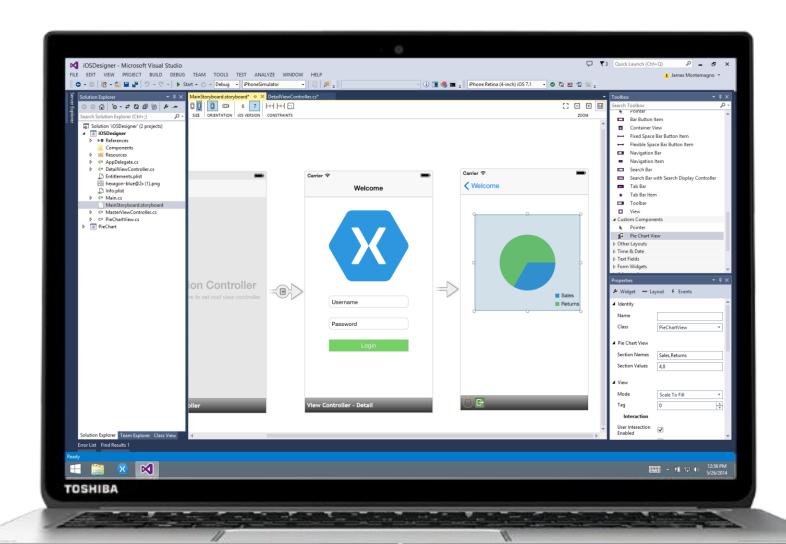


Visual Studio Integration



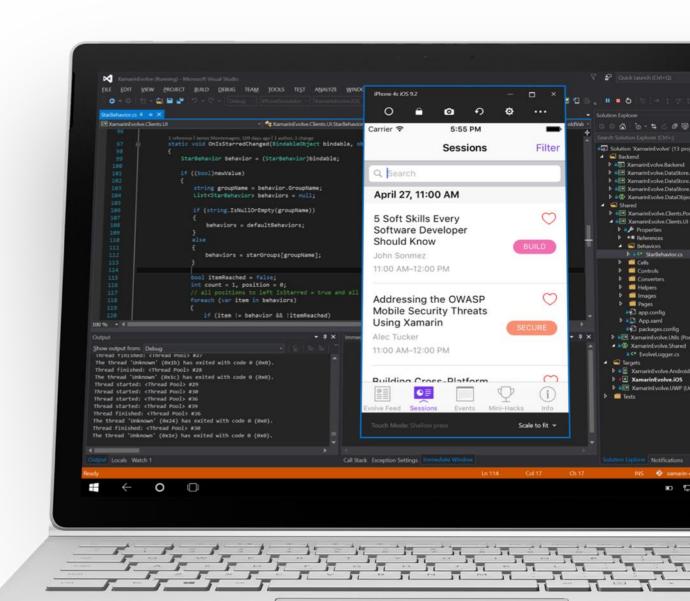
https://visualstudio.microsoft.com/xamarin

Xamarin for Visual Studio



Visual Studio iOS Simulator Remoting

- Multi-Touch Enabled
- Pressure Sensitive
- Super Fast
- Rotate, screenshots, location changes
- Never leave VS



Demos, & Labs - Clone or Download

github.com/xpiritbv/xamarin-hands-on-labs

Validate your installation

Lab

Demo: iOS

Demo: Android

Let's build a native app

Lab01 — app-helloworld pick Android or iOS (or both)