

### DEV DAYS Agenda

- Introduction to Xamarin
- Cross Platform UI with Xamarin.Forms
- Connected Apps with Azure
- Lunch Courtesy of Sponsor
- File -> New App Workshop

# Xamarin DEV DAYS

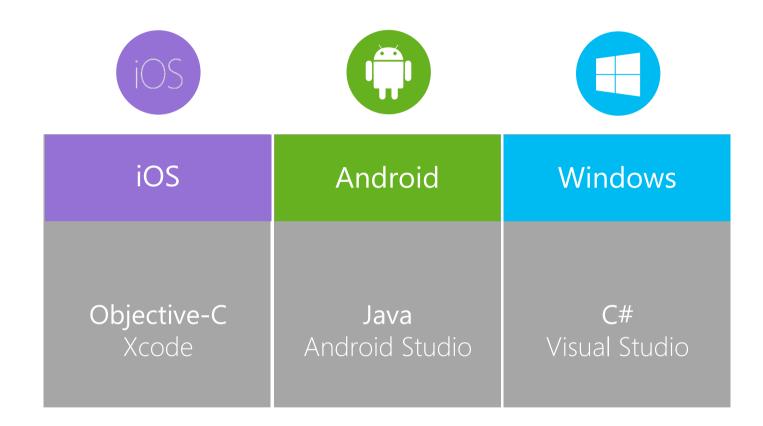
Slides, Demos, & Lab - Clone or Download: http://github.com/xamarin/dev-days-labs

# Native iOS & Android Development with Xamarin

Presenter Name Presenter Twitter Presenter Title

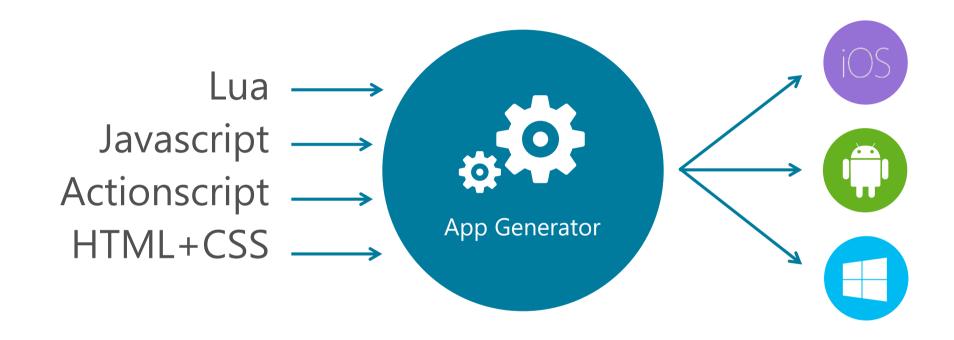
### Architecting Mobile Apps

#### Silo Approach



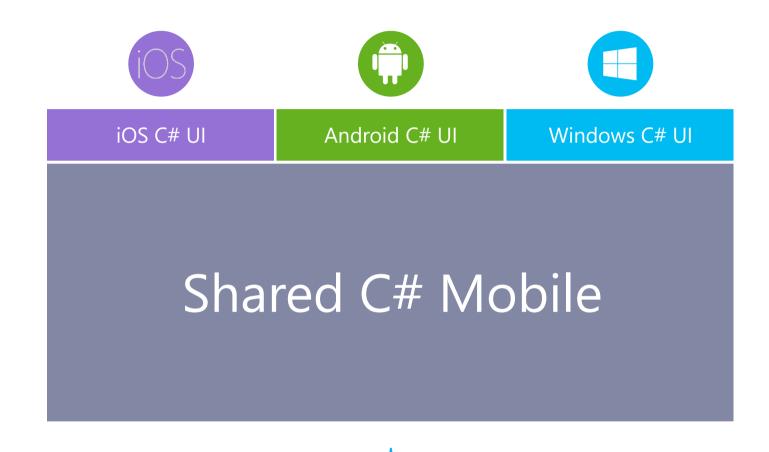
No shared code • Many languages & development environments • Multiple teams

#### 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

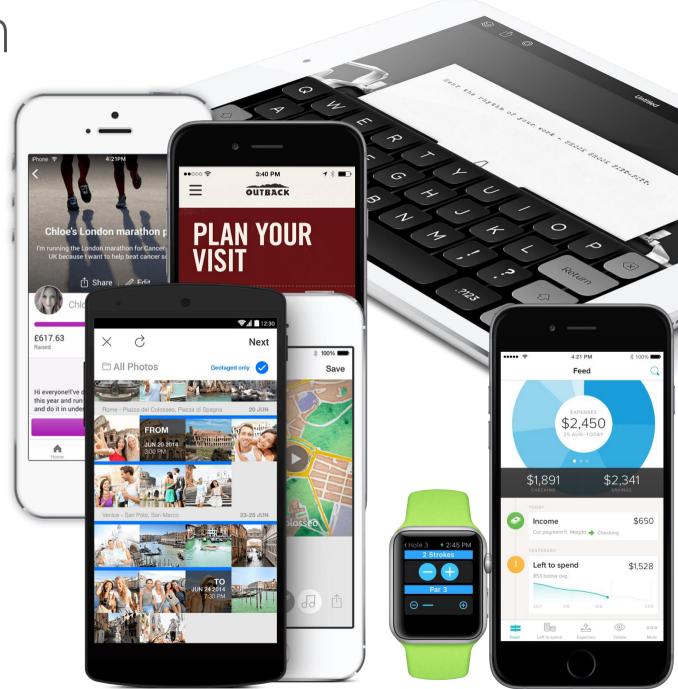


### Building User Interfaces

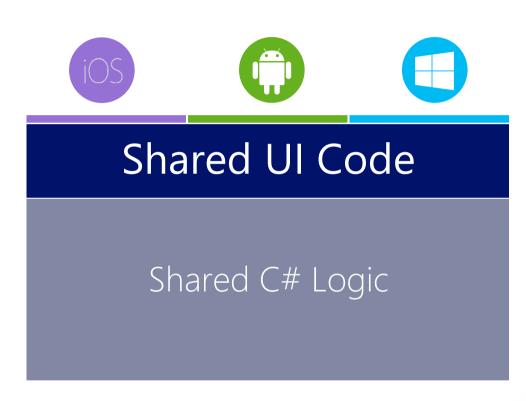
Traditional UI approach



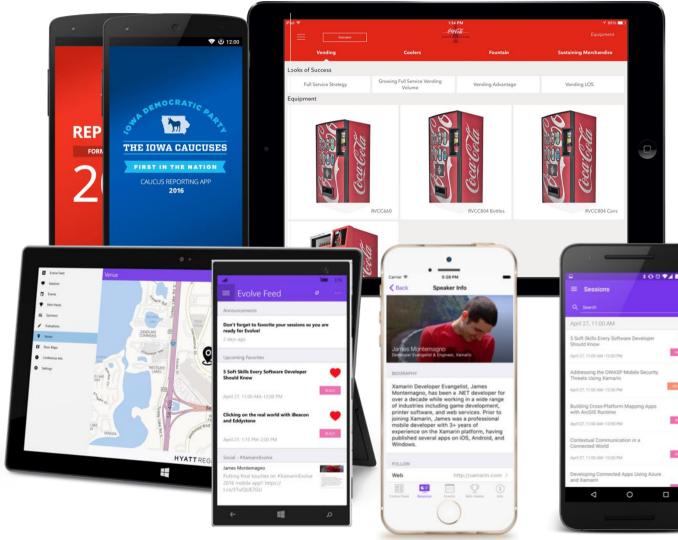
3 Native User Interfaces Shared App Logic



#### Xamarin.Forms approach



Shared User Interface
Shared App Logic









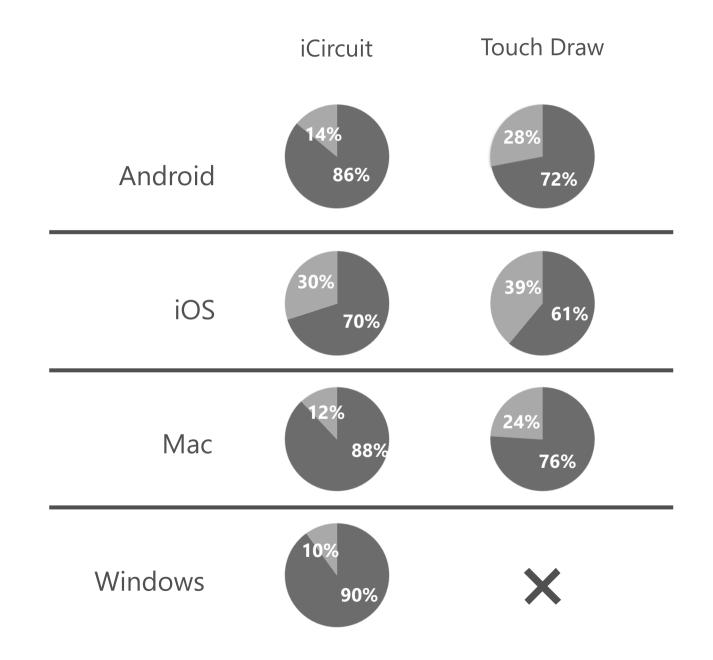




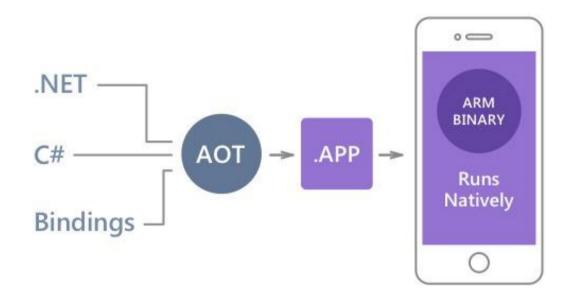




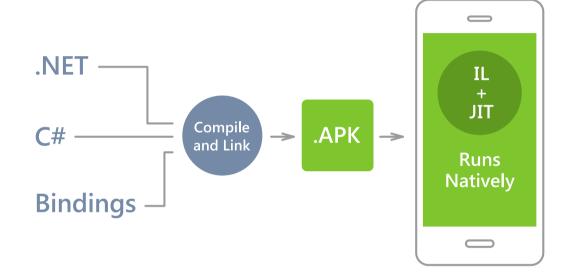
## Code sharing stats



#### 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.

# ✓Always Up-to-Date

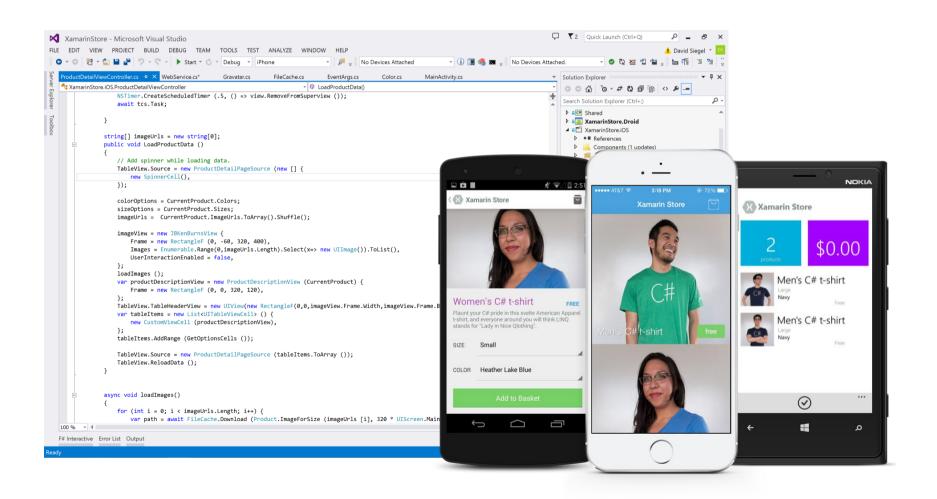
#### Same-day support:

- iOS 5
- iOS 6
- iOS 7
- iOS 8
- iOS 9
- iOS 10

#### Full support for:

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

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



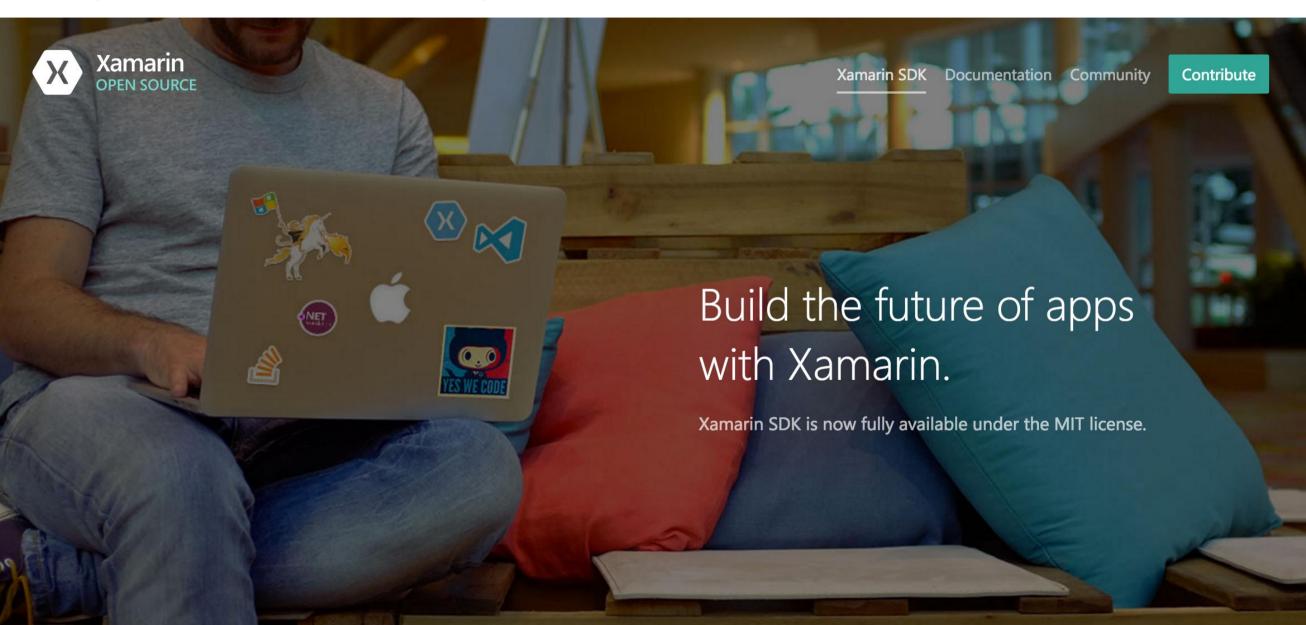
## Let's Build an App

#### Development Experience

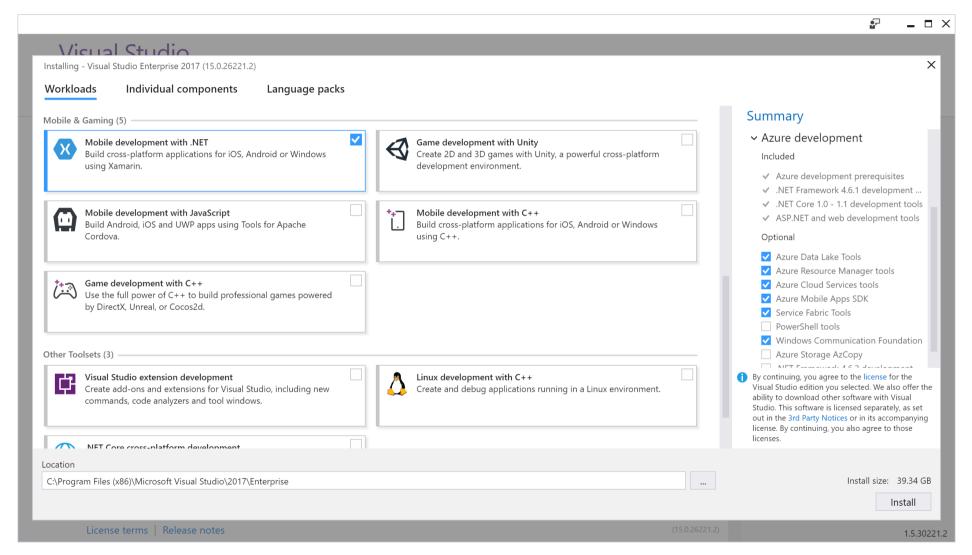
# Xamarin is included in Visual Studio

Including Community Edition!

#### Open Source – open.xamarin.com

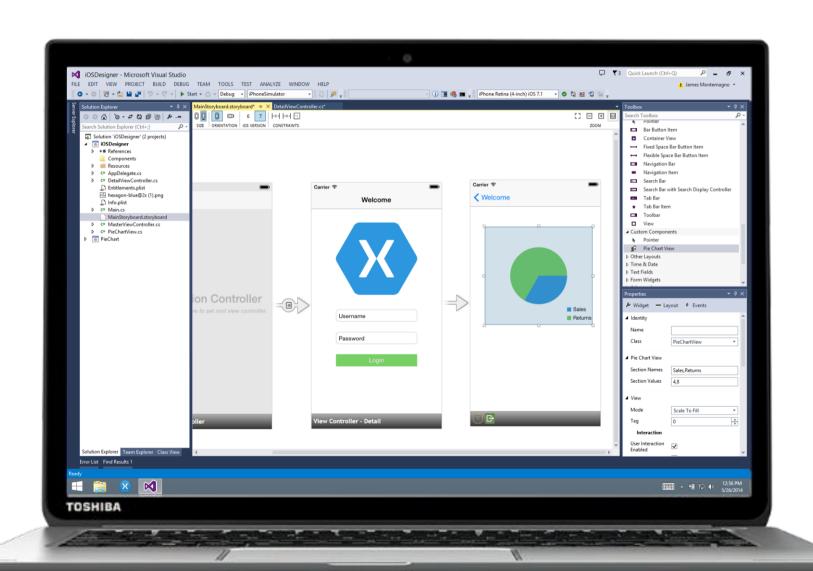


#### Visual Studio Integration



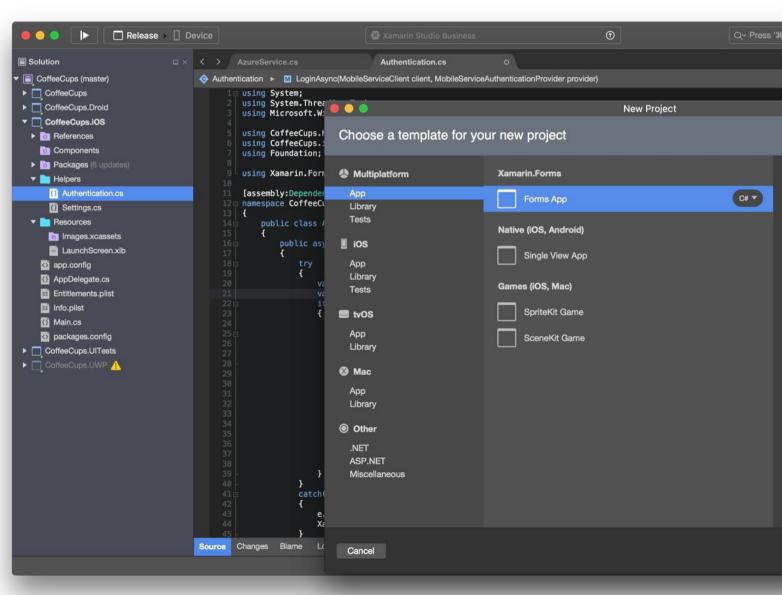
#### Xamarin.com/Download

#### Xamarin for Visual Studio



#### Xamarin Studio – Mac





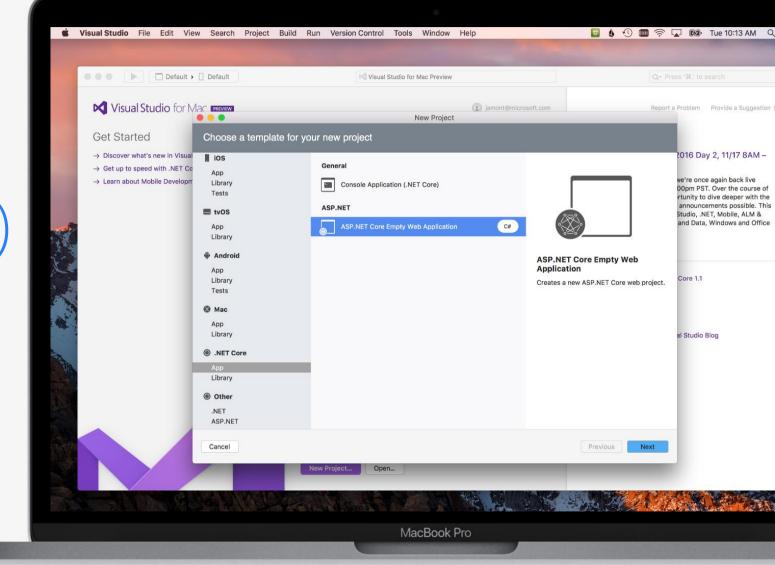
# Visual Studio for Mac (Preview)

iOS, Android, & macOS

.NET development

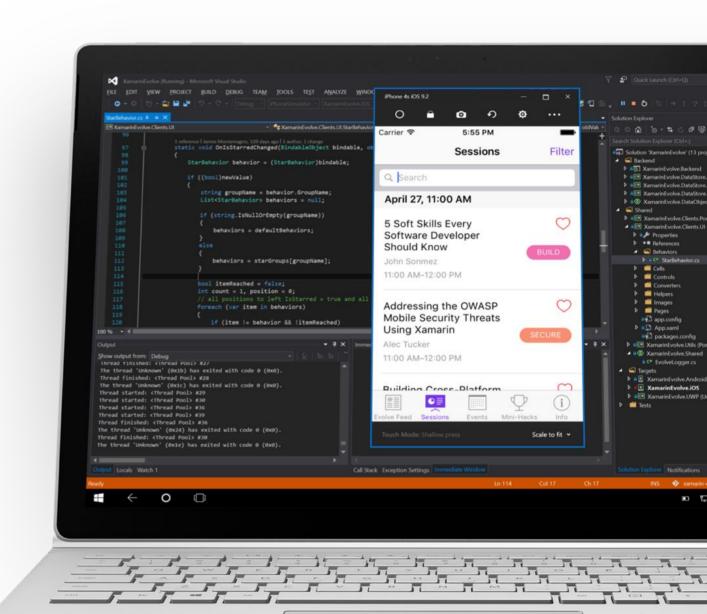
.NET Core & ASP.NET Core

Tools for Azure

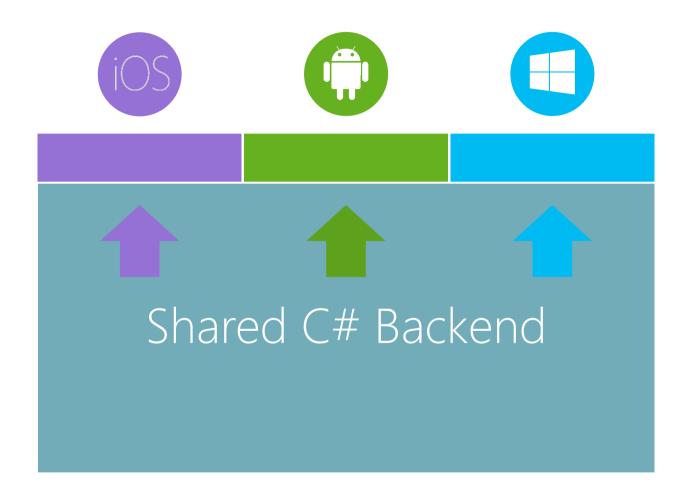


#### Visual Studio iOS Simulator Remoting

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



#### Streamlined Development









#### UI+APIs

Battery
GPS
Lights
Notifications
Settings
Text To Speech

#### UI + APIs

Battery
GPS
Lights
Notifications
Settings
Text To Speech

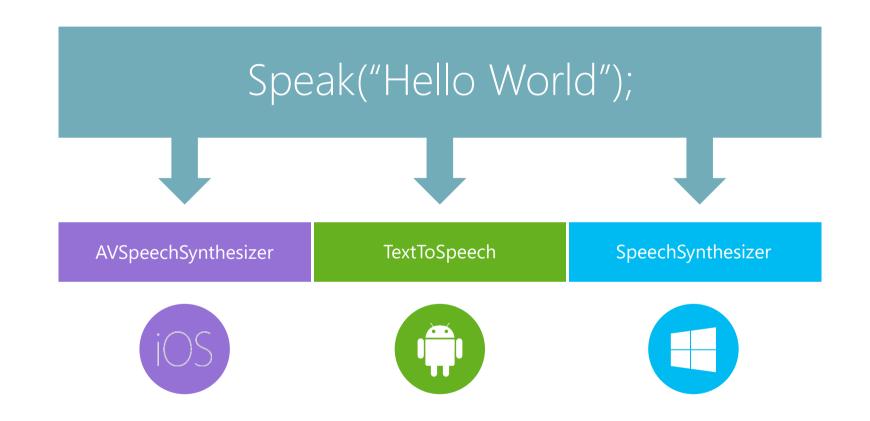
#### UI + APIs

Battery
GPS
Lights
Notifications
Settings
Text To Speech

## Platform Specific Code

What if we didn't have to write this code?

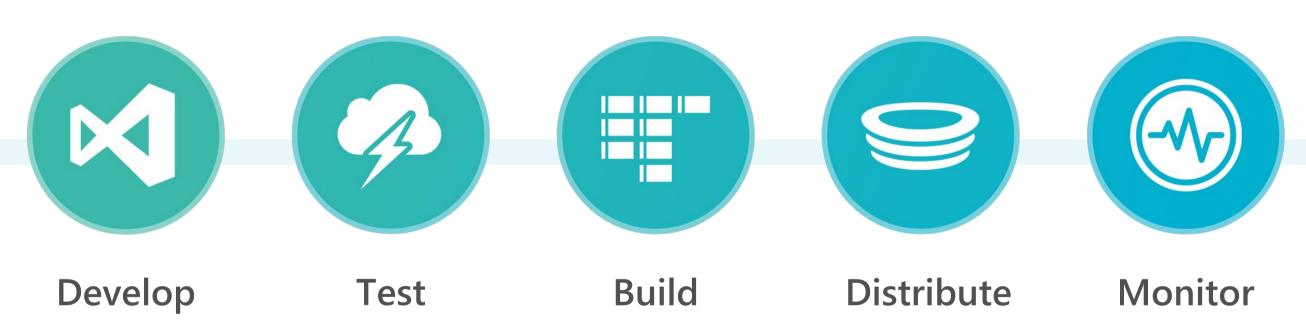
What if we could access it from shared code?

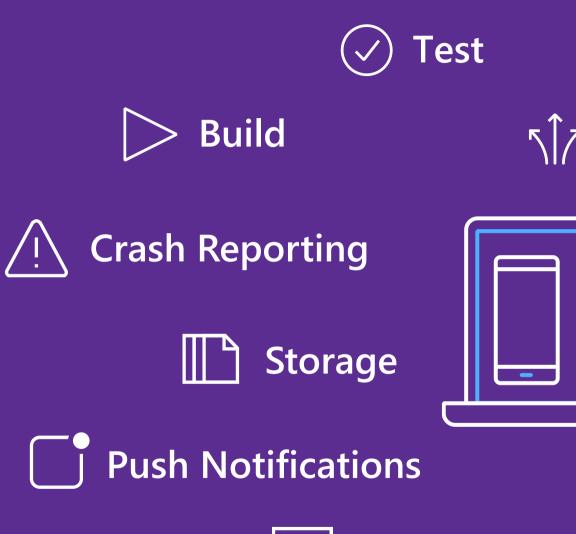


# Common API O S S O O

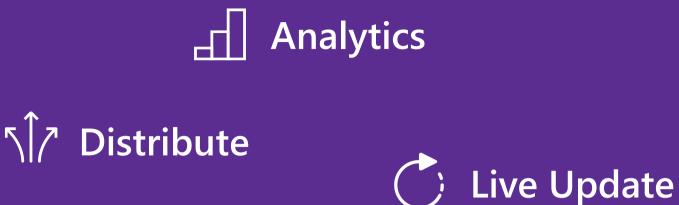
Let's use a Plugin for Xamarin

#### Microsoft's complete mobile DevOps solution





Tables









# 15 Minute Break

Presenter First Name Presenter Last Name Presenter Title