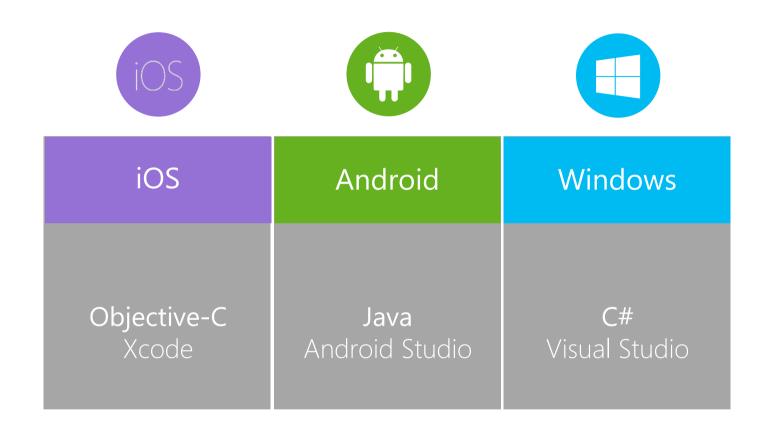


Native iOS & Android Development with Xamarin

Fabian Fernandez @kzfabi & fabi@kzsoftworks.com CEO @ Kaizen Softworks

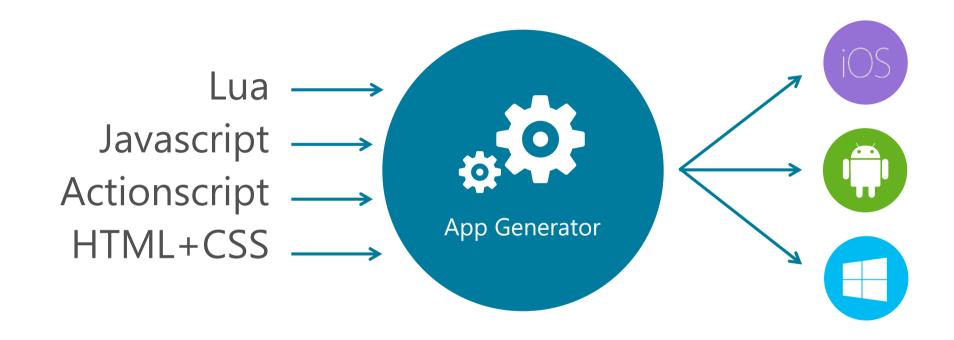
Architecting Mobile Apps

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

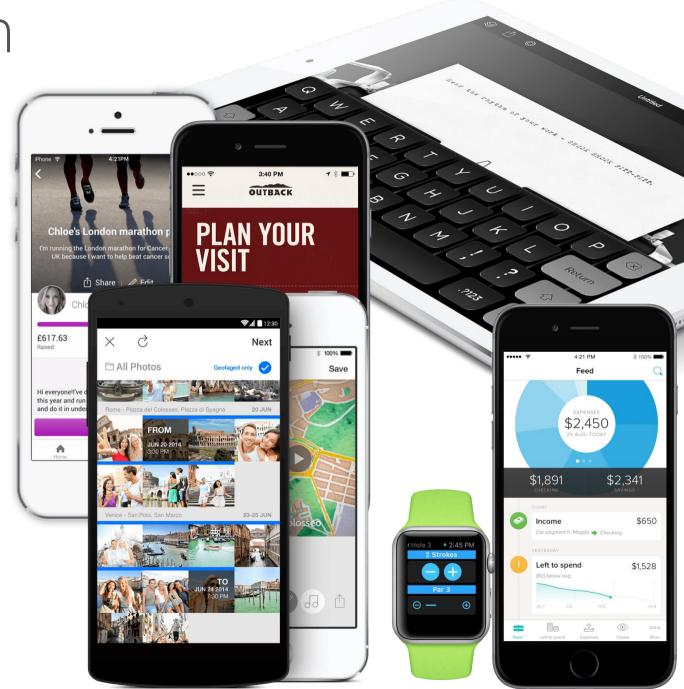


Building User Interfaces

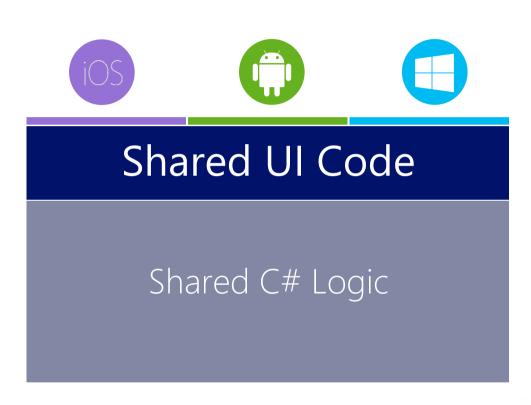
Traditional UI approach



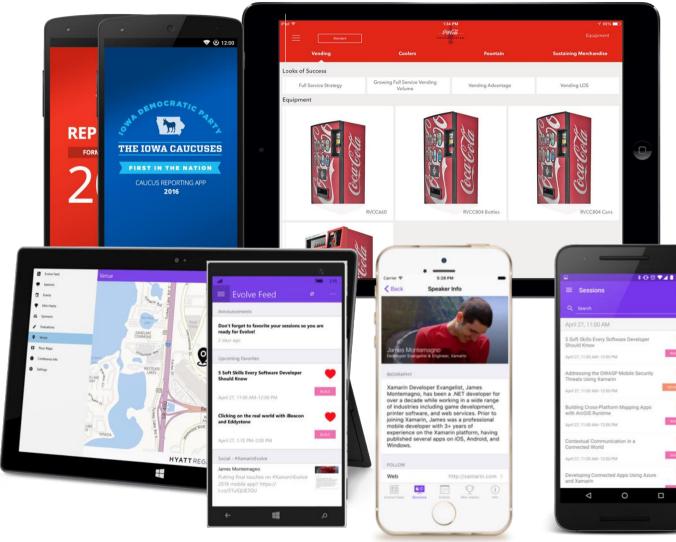
3 Native User Interfaces Shared App Logic



Xamarin.Forms approach



Shared User Interface
Shared App Logic









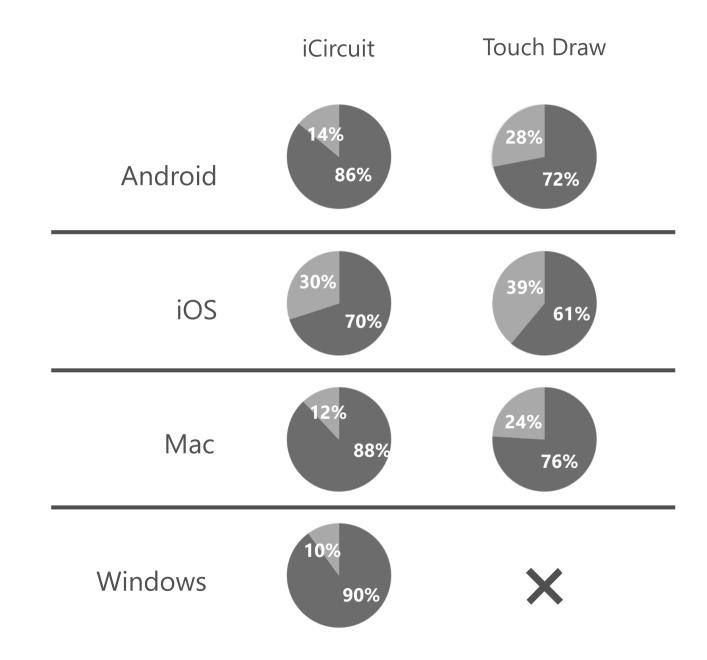




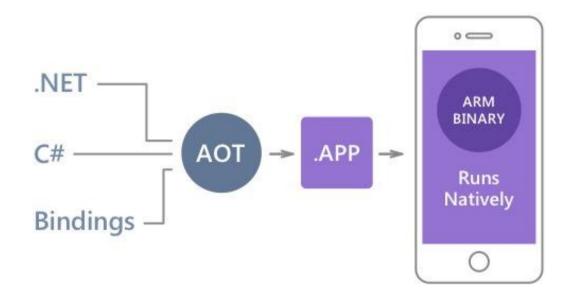




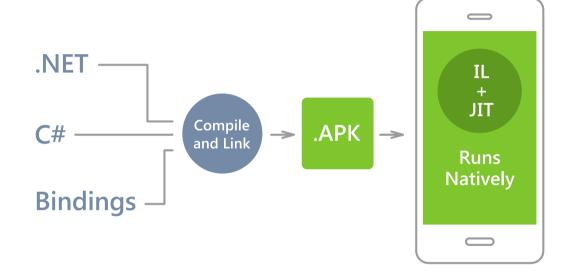
Code sharing stats



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

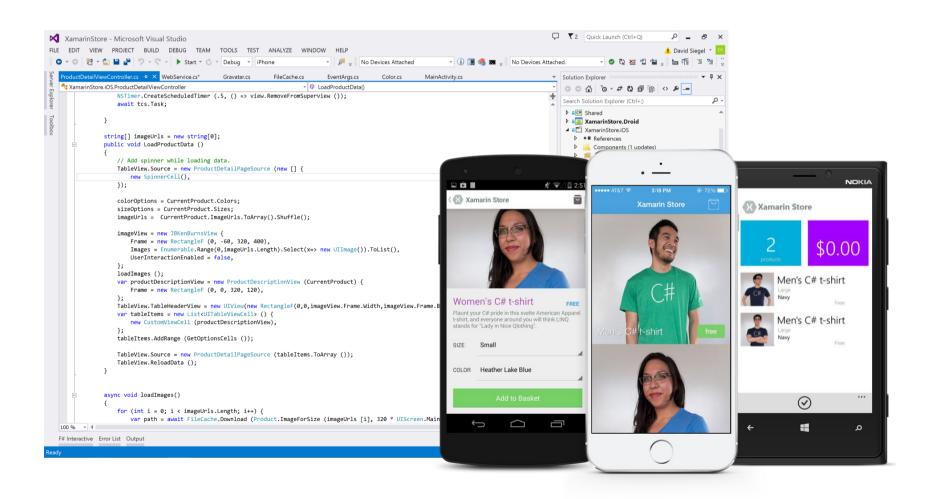
Same-day support:

- 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.

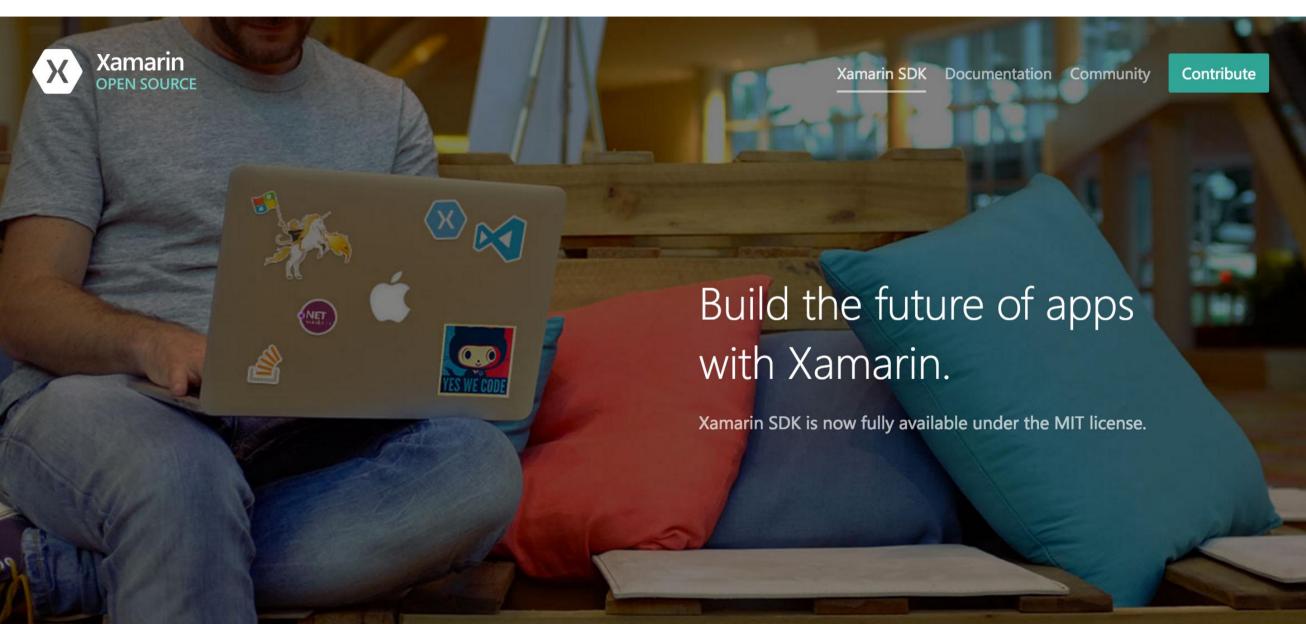


Development Experience

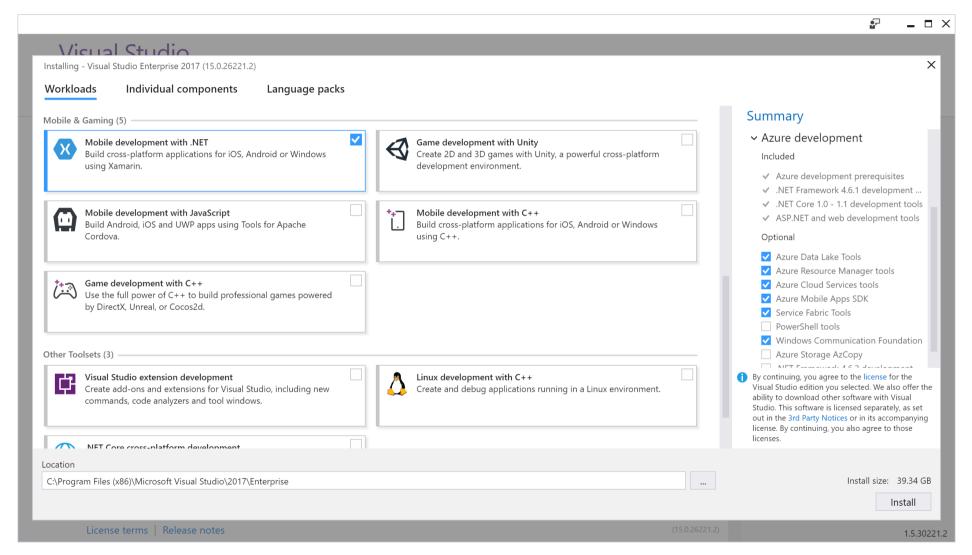
Xamarin is included in Visual Studio

Including Community Edition!

Open Source – open.xamarin.com

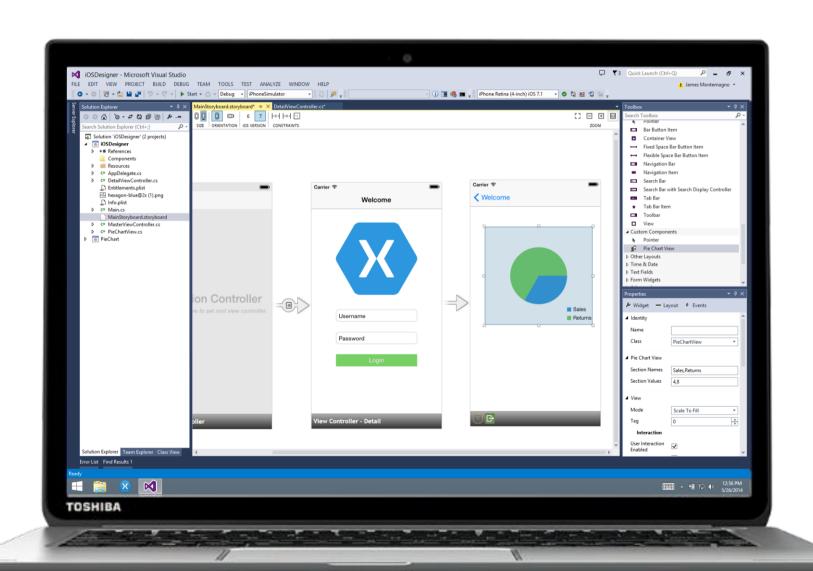


Visual Studio Integration



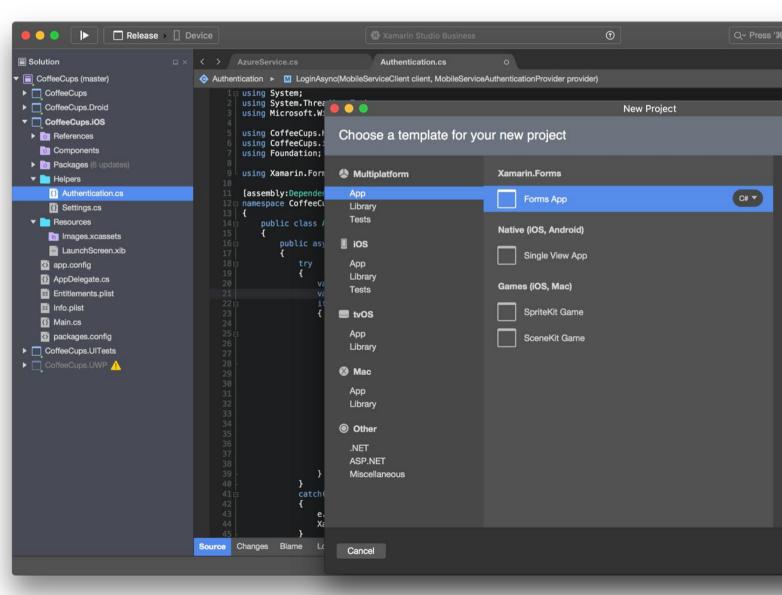
Xamarin.com/Download

Xamarin for Visual Studio



Xamarin Studio – Mac





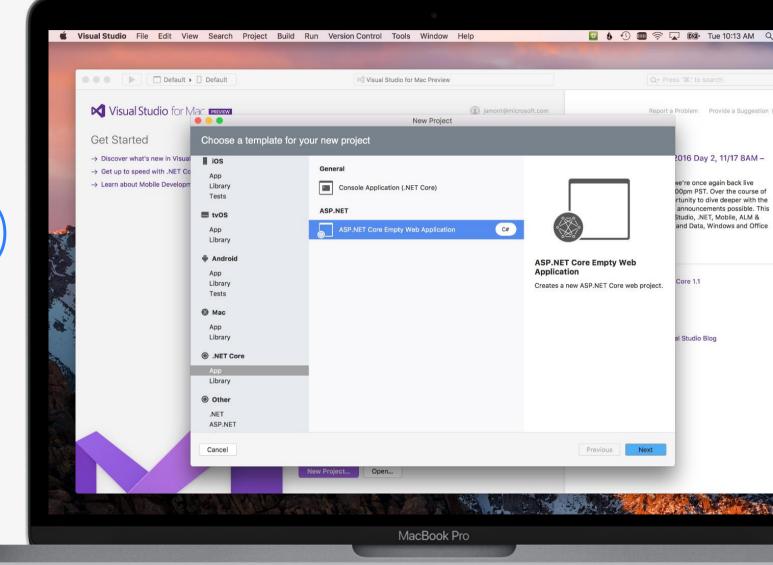
Visual Studio for Mac (Preview)

iOS, Android, & macOS

.NET development

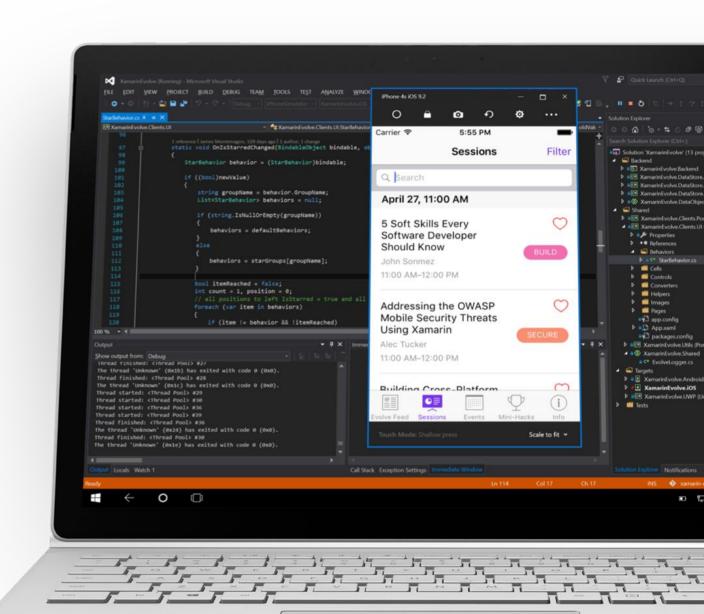
.NET Core & ASP.NET Core

Tools for Azure

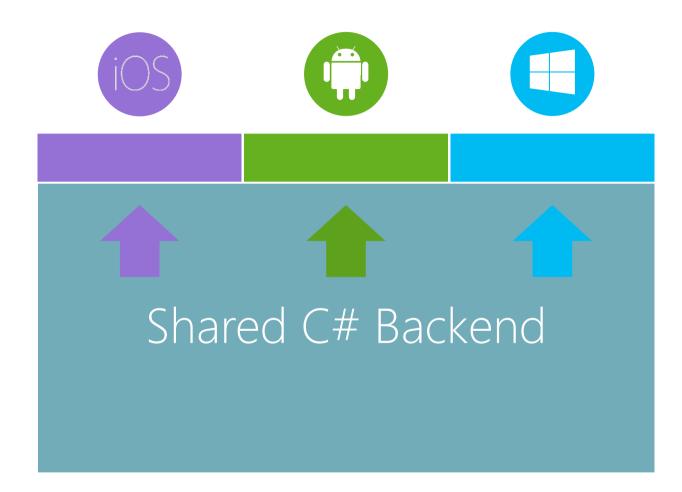


Visual Studio iOS Simulator Remoting

- 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

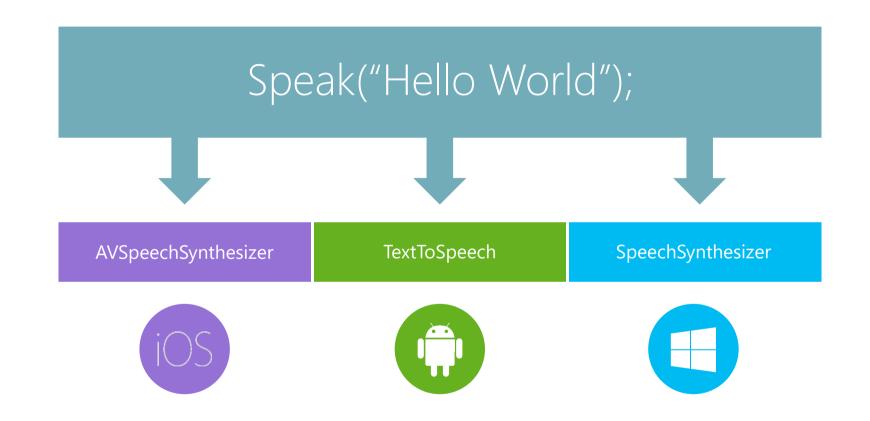
Battery

GPS
Lights
Notifications
Settings
Text To Speech

Platform Specific Code

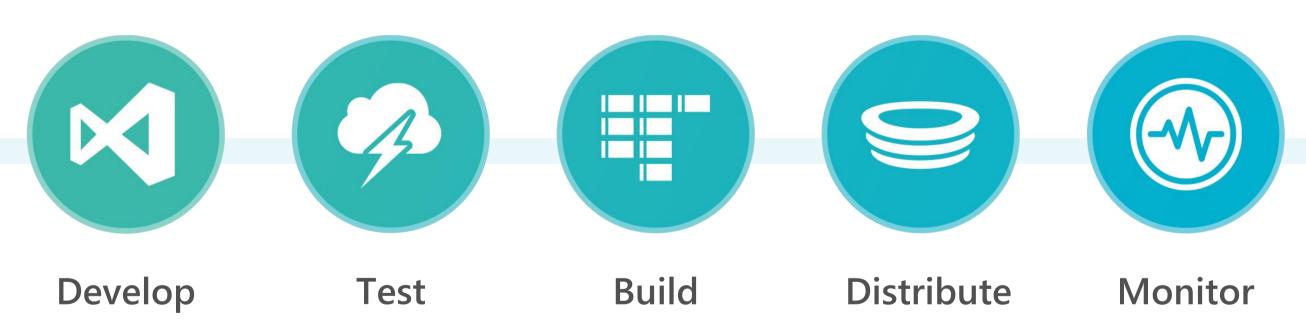
What if we didn't have to write this code?

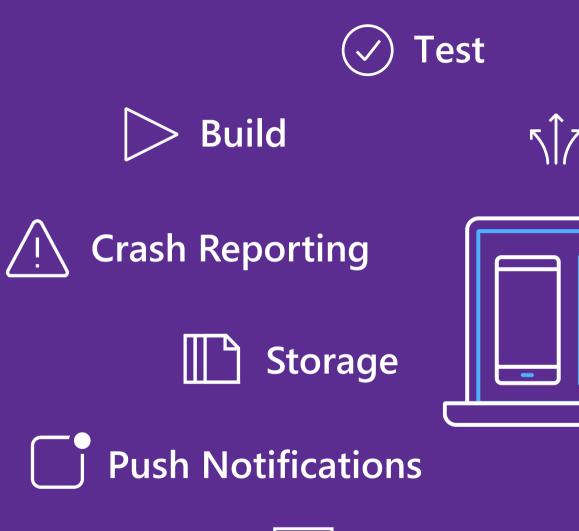
What if we could access it from shared code?



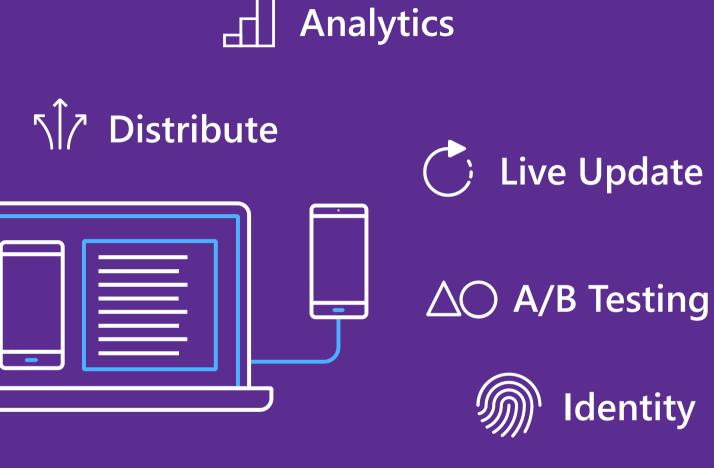
Common API Common API Common API

Microsoft's complete mobile DevOps solution





Tables



Remote Config.

Visual Studio Mobile Center mobile.azure.com



Thanks!

Fabian Fernandez @kzfabi & fabi@kzsoftworks.com CEO @ Kaizen Softworks