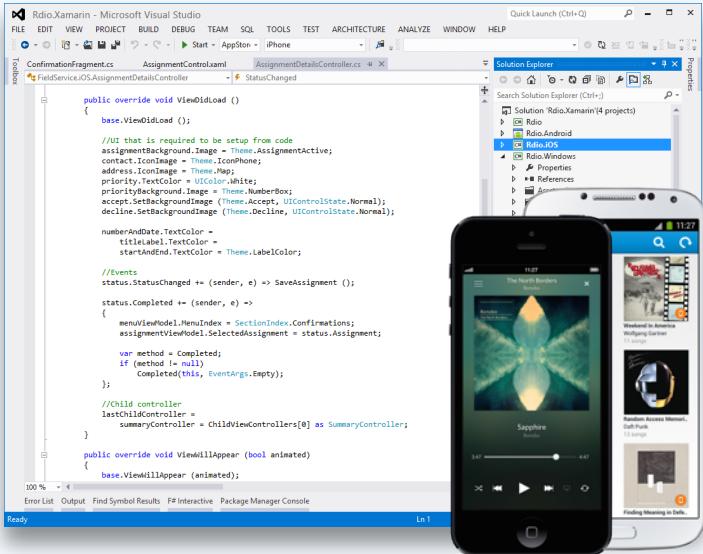


Xamarin.Forms: Native iOS, Android, and Windows Phone apps from ONE C# Codebase

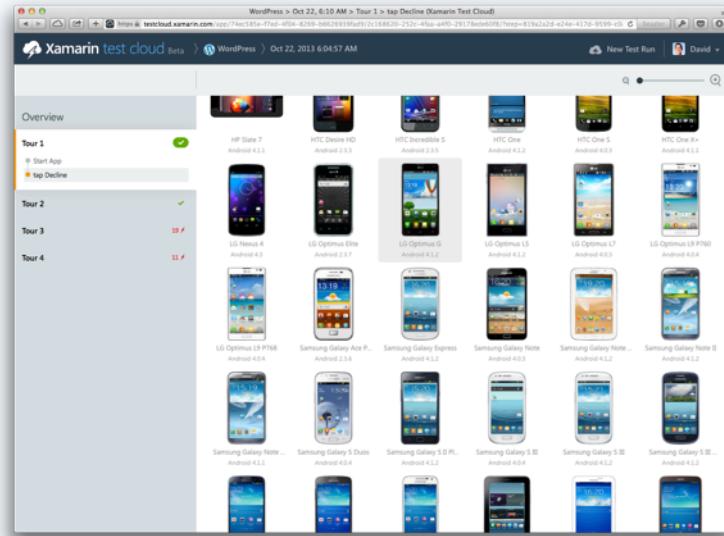
James Montemagno

Xamarin, Developer Evangelist

@JamesMontemagno | @XamarinHQ



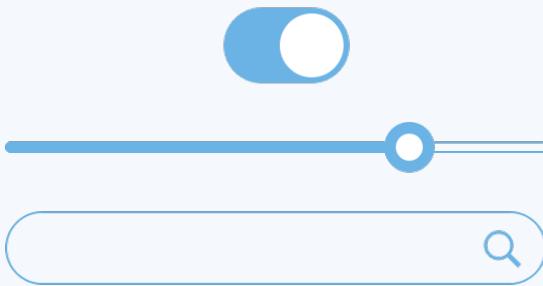
Create native iOS, Android, Mac and Windows apps in Visual Studio and C#



Automatically test your app on hundreds of mobile devices

What is native?

The Anatomy of a Native App



Native User Interfaces

Architecting Mobile Apps

Silo Approach

Build Apps
Multiple
Times



iOS App

Objective-C
XCode



Android App



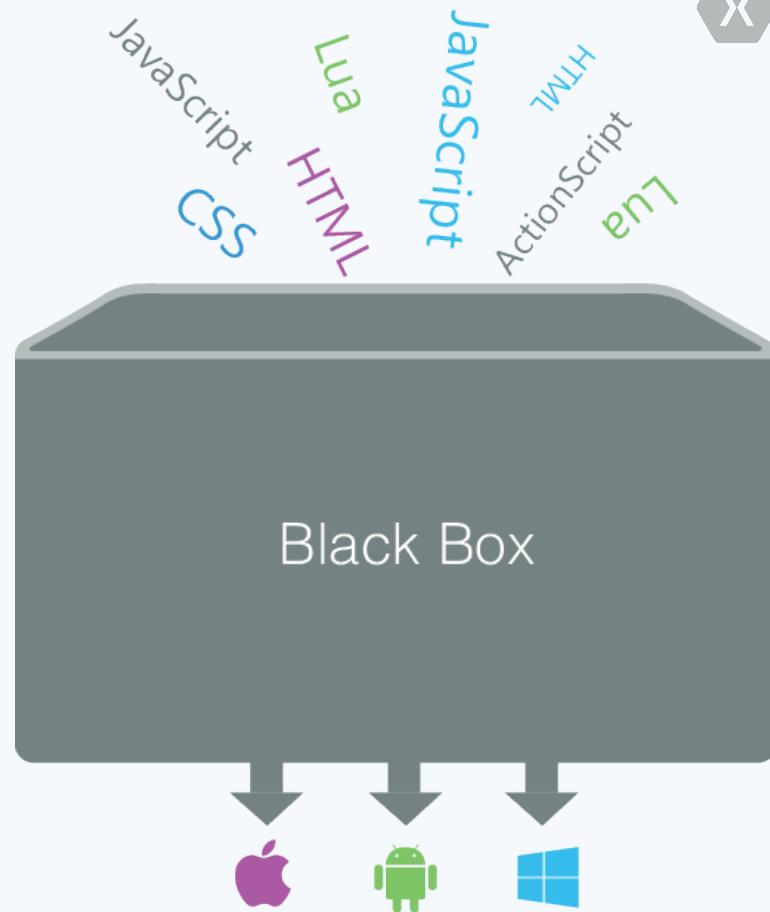
Windows App

Java
Eclipse

C#
Visual Studio

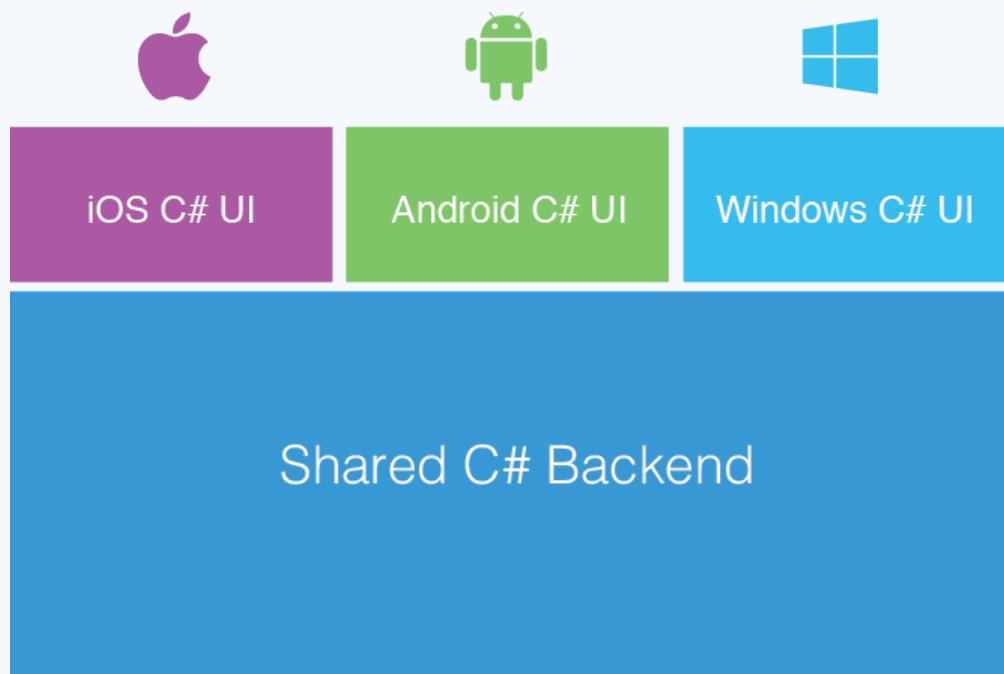
Write Once, Run Anywhere Approach

Lowest
Common
Denominator

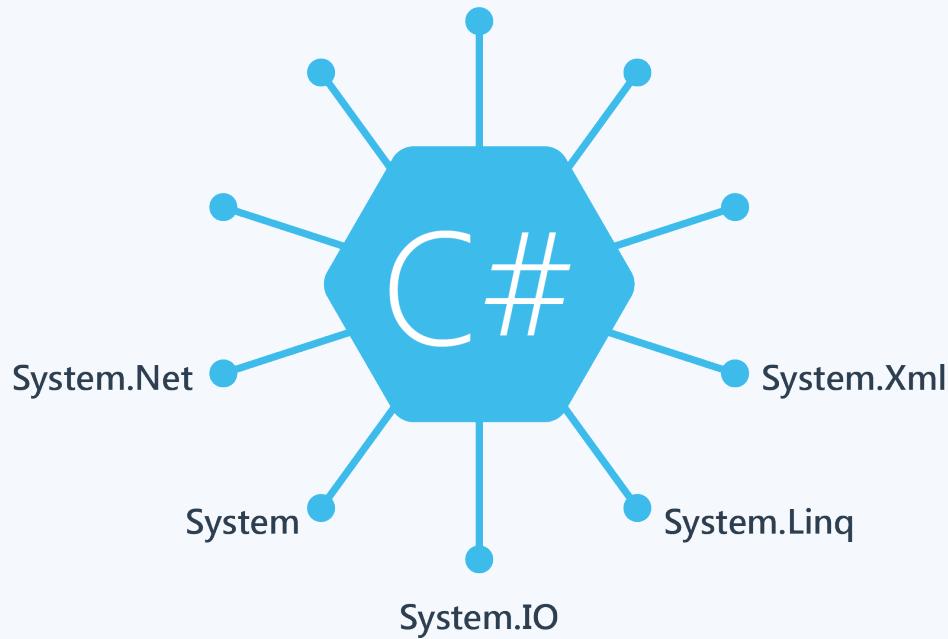


Xamarin's Unique Approach

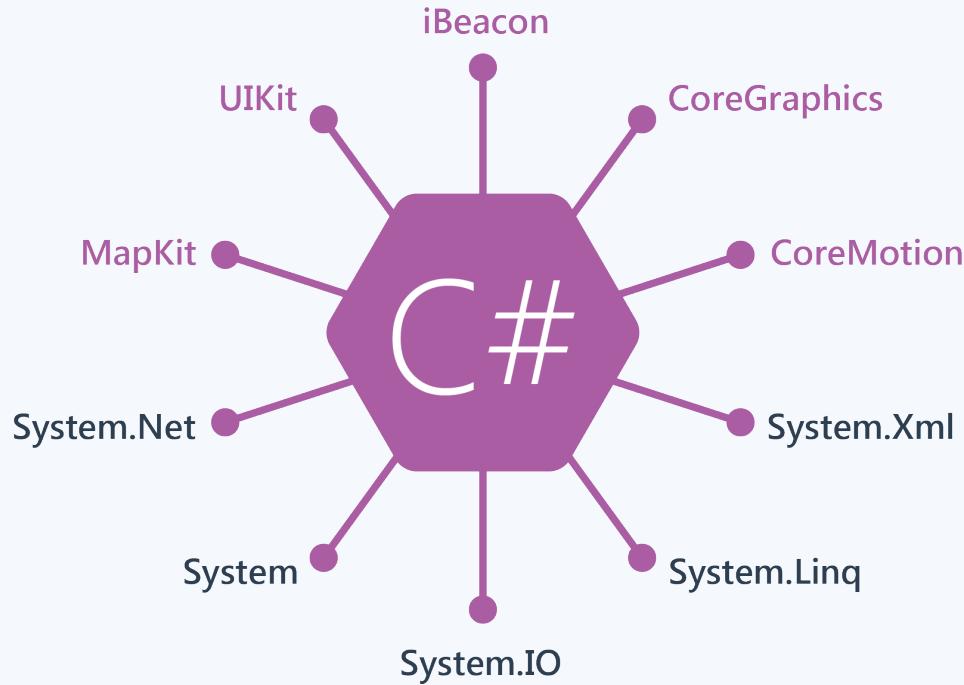
Native With
Code Sharing



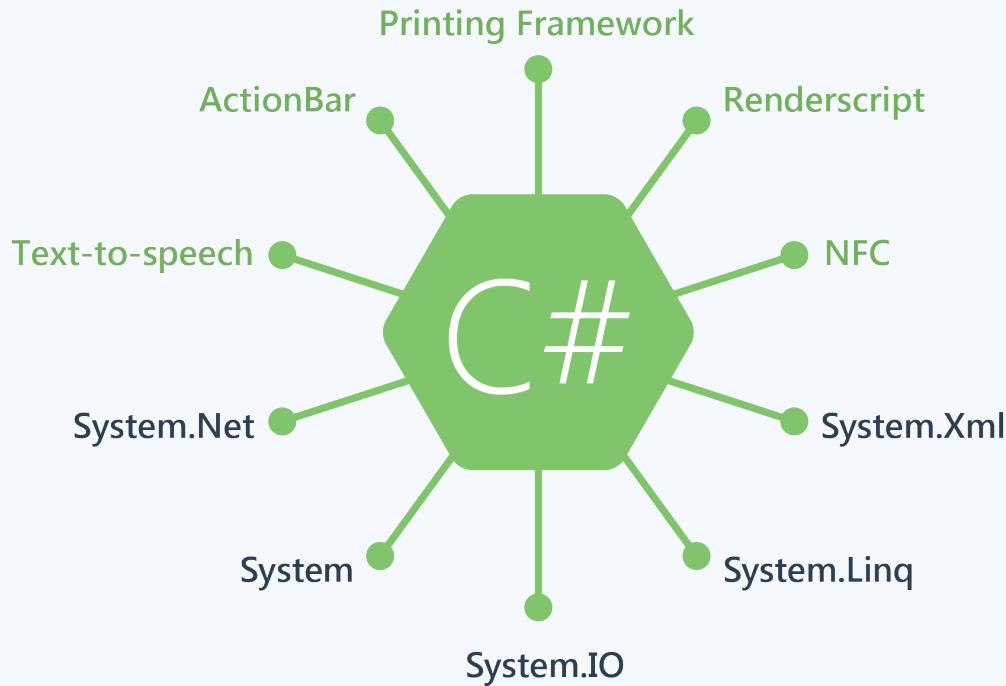
Windows APIs



iOS APIs | 100% Coverage



Android APIs | 100% Coverage



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



C# runs on 2.6 Billion Devices

How Xamarin Works

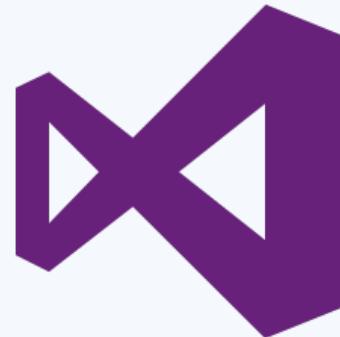
- C# + .NET Runtime
- Native UI
- Native Performance



Development Environment

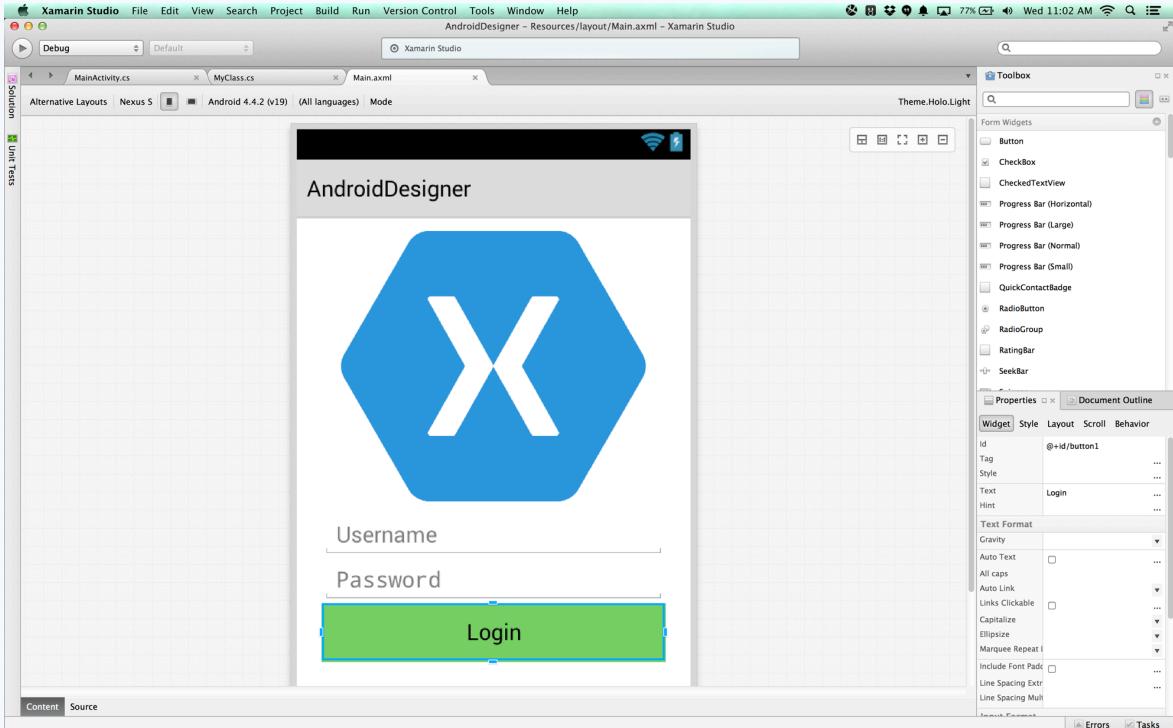


Xamarin Studio
PC or Mac



Visual Studio Plugin
VS 2010/2012/2013

Xamarin Designer for Android



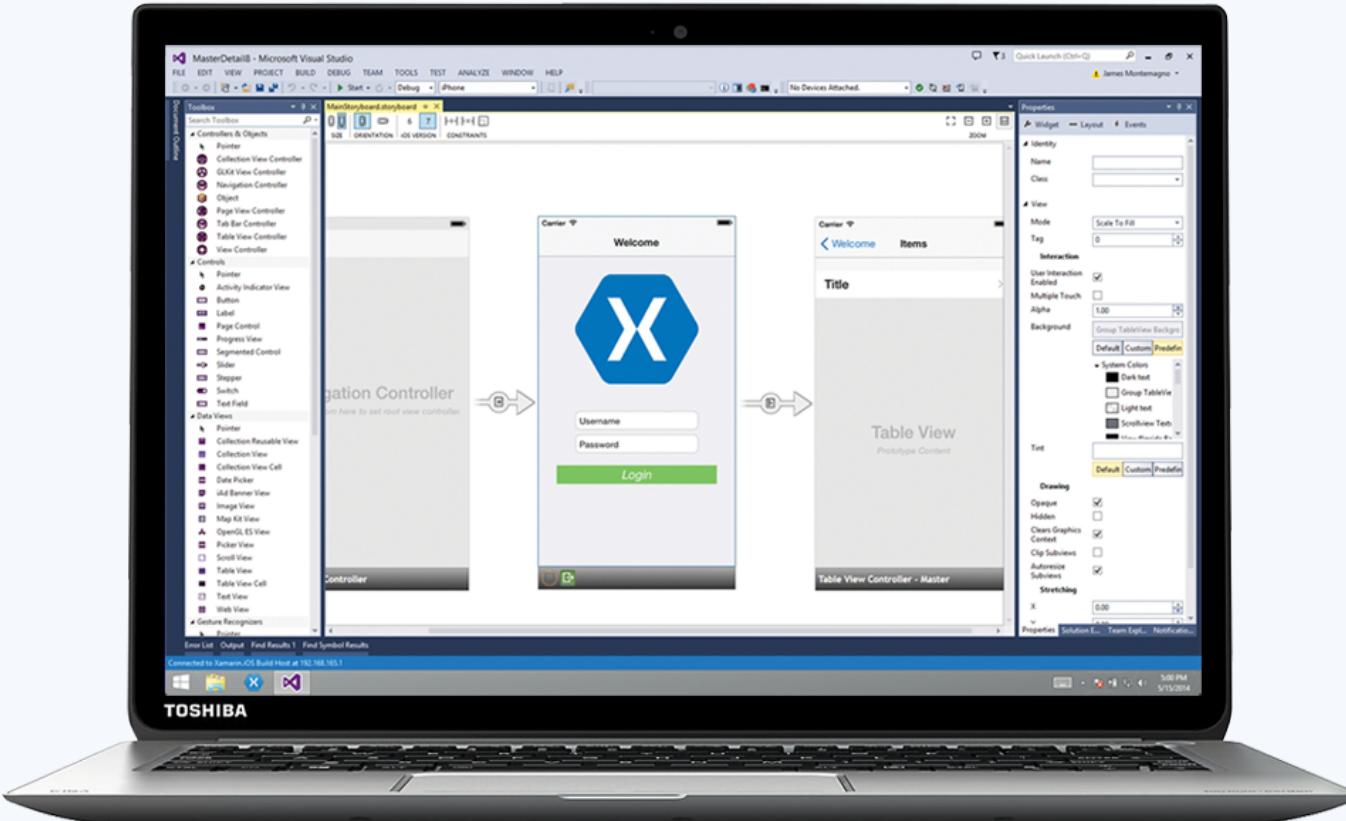
Fully integrated into
Xamarin Studio & Visual
Studio

Multi-resolution editing

Easy switch between
design and Android XML

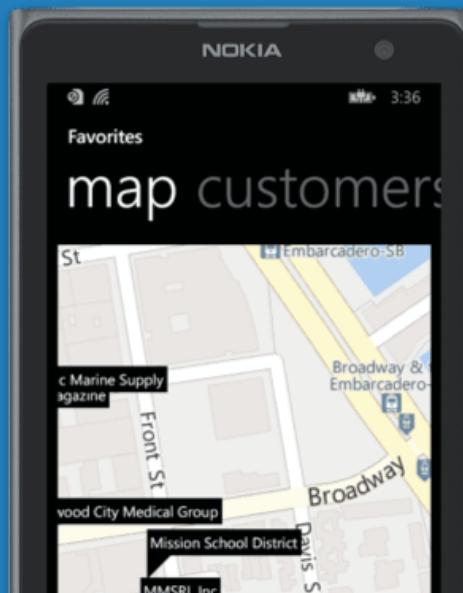
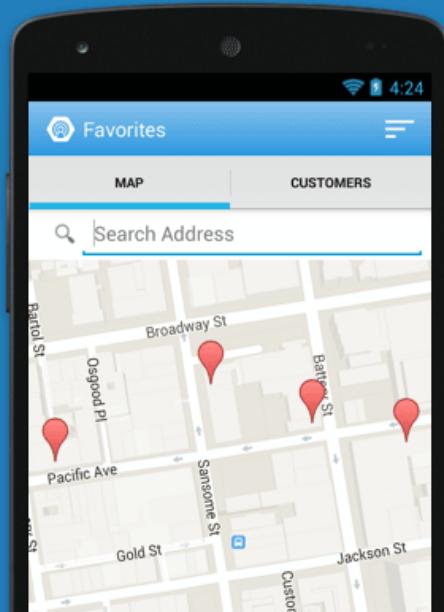
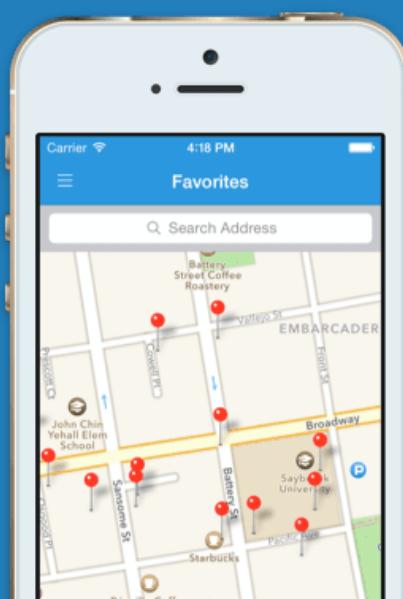
Shipping for over 2 years

Xamarin Designer for iOS



Meet Xamarin.Forms

Build native UIs for iOS, Android and Windows Phone
from a single, shared C# codebase.



Xamarin.Forms

Traditional Xamarin approach



iOS C# UI

Android C# UI

Windows C# UI

Shared C# Backend

With Xamarin.Forms:
more code-sharing, native controls



Shared UI Code

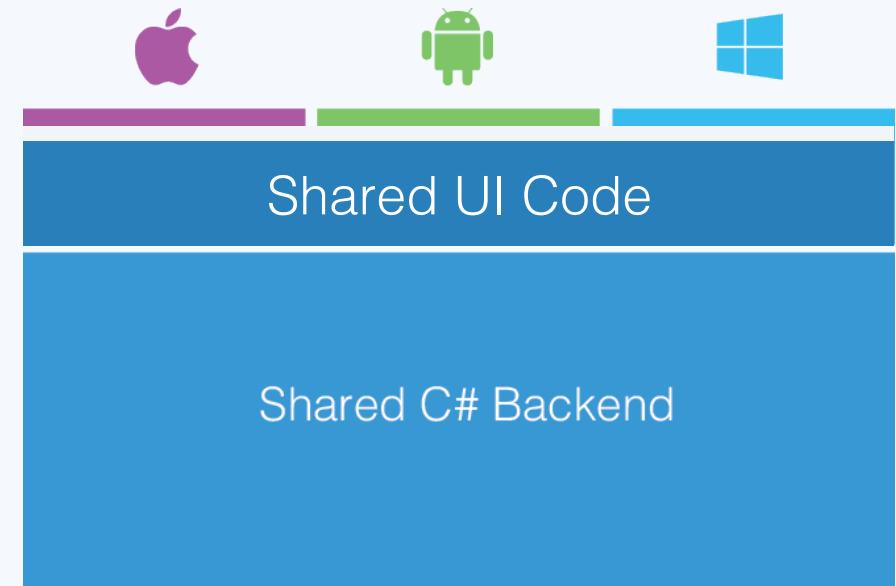
Shared C# Backend

Xamarin.Forms

Quickly and easily build native user interfaces using shared code

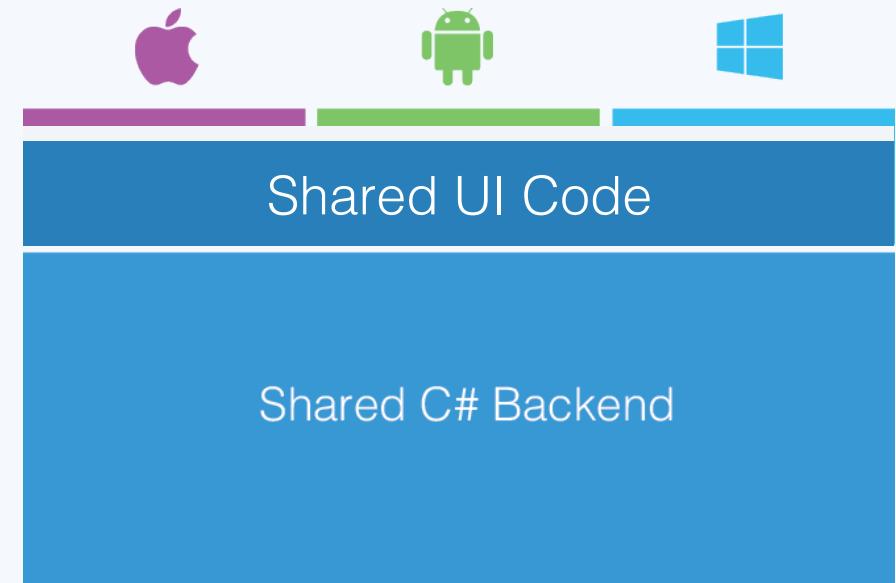
Xamarin.Forms elements map to native controls and behaviors

Mix-and-match Xamarin.Forms with native APIs

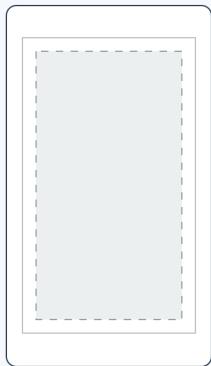


What's Included

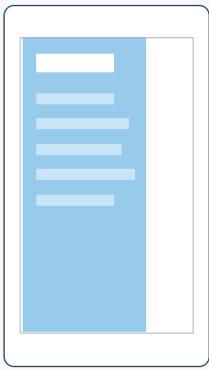
- 40+ Pages, Layouts, and Controls
 - Build from code behind or XAML
- Two-way Data Binding
- Navigation
- Animation API
- Dependency Service
- Messaging Center



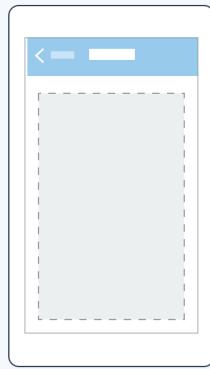
Pages



Content



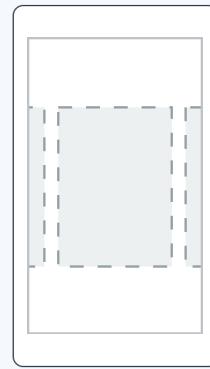
MasterDetail



Navigation

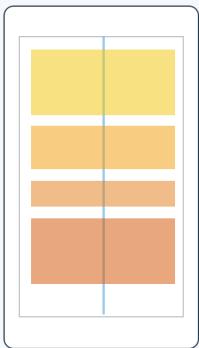


Tabbed

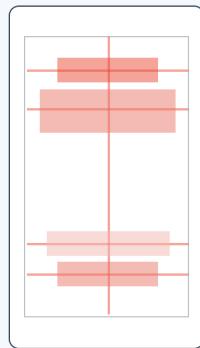


Carousel

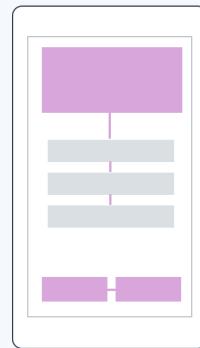
Layouts



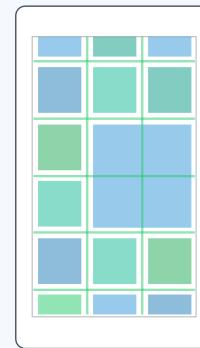
Stack



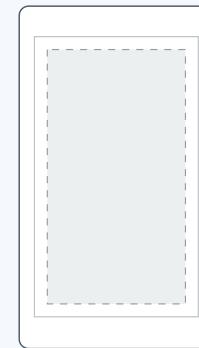
Absolute



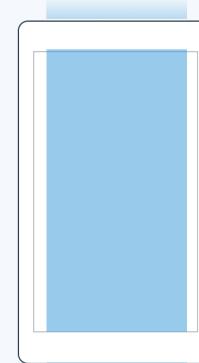
Relative



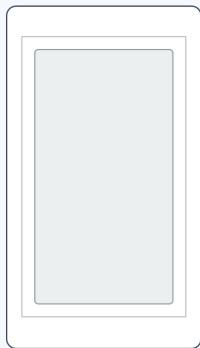
Grid



ContentView



ScrollView



Frame

Controls

ActivityIndicator

BoxView

Button

DatePicker

Editor

Entry

Image

Label

ListView

Map

OpenGLView

Picker

ProgressBar

SearchBar

Slider

Stepper

TableView

TimePicker

WebView

EntryCell

ImageCell

SwitchCell

TextCell

ViewCell

Demo

Cross Platform Cloud Service

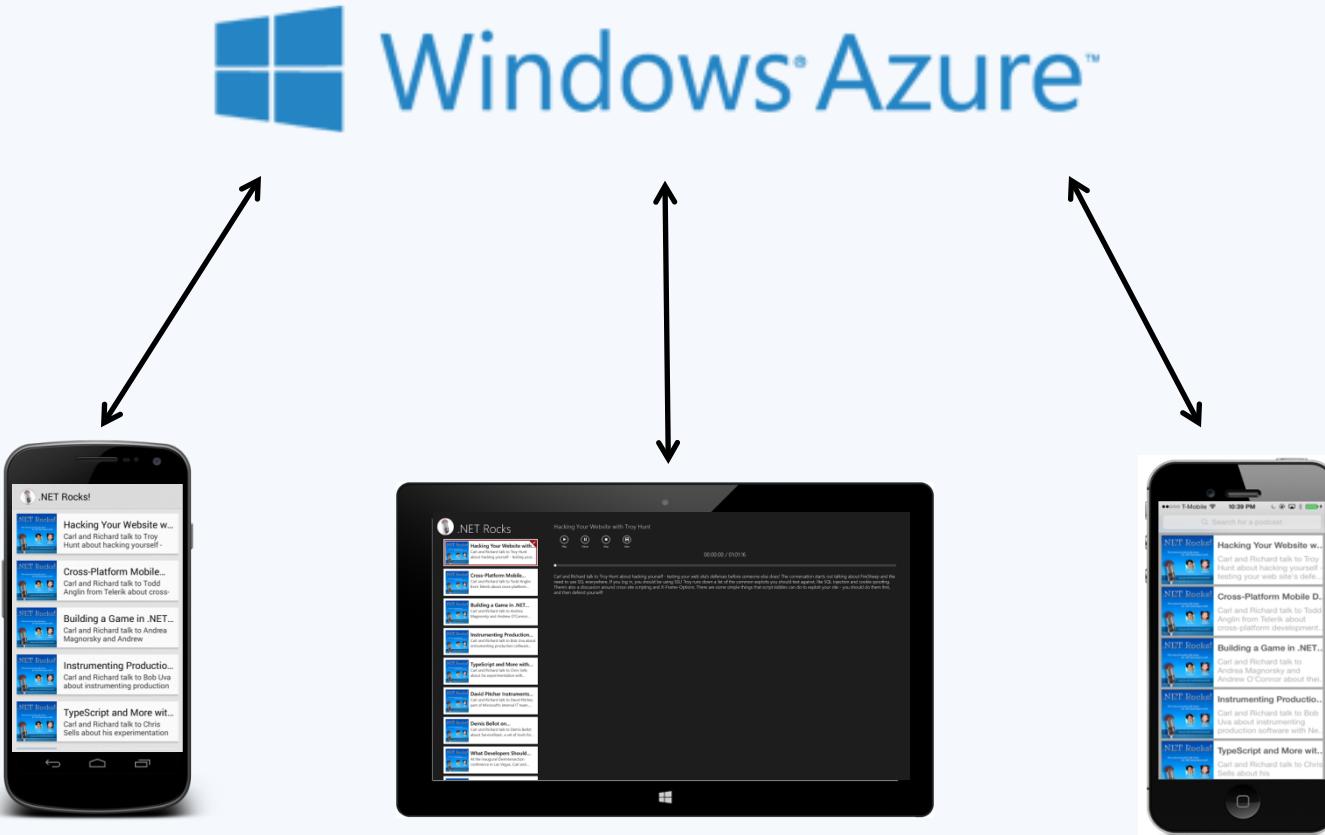


- Azure Mobile Service
 - Cross Platform
 - Component & NuGet
 - PCL Support
 - Online / Offline Sync

Cloud Made Easy

- OAuth
 - Twitter
 - Facebook
 - Microsoft Account
 - Google
 - Custom
- Easy Implementation
 - Look and Feel of Each Platform

Client Synchronization



Let's Do It!

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