

XAMARIN  
IS COMING

#MSAcademicTour

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XAMARIN IS  
COMING

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Comunidades técnicas:  
Granada, Barcelona, Madrid  
Founder & coord. de varias  
Microsoft, Chicas, JavaScript....

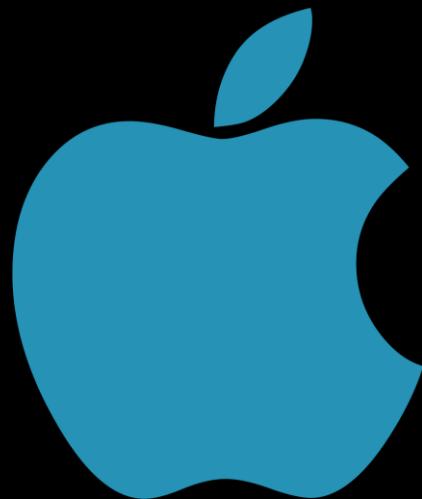




# Universal Windows Platform



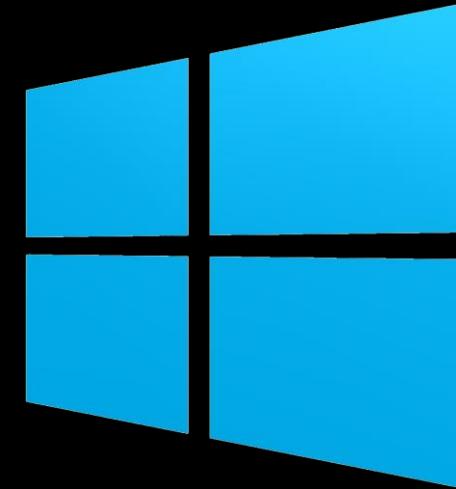
CROSS-PLATFORM  
DEVELOPMENT



HOUSE  
IOS



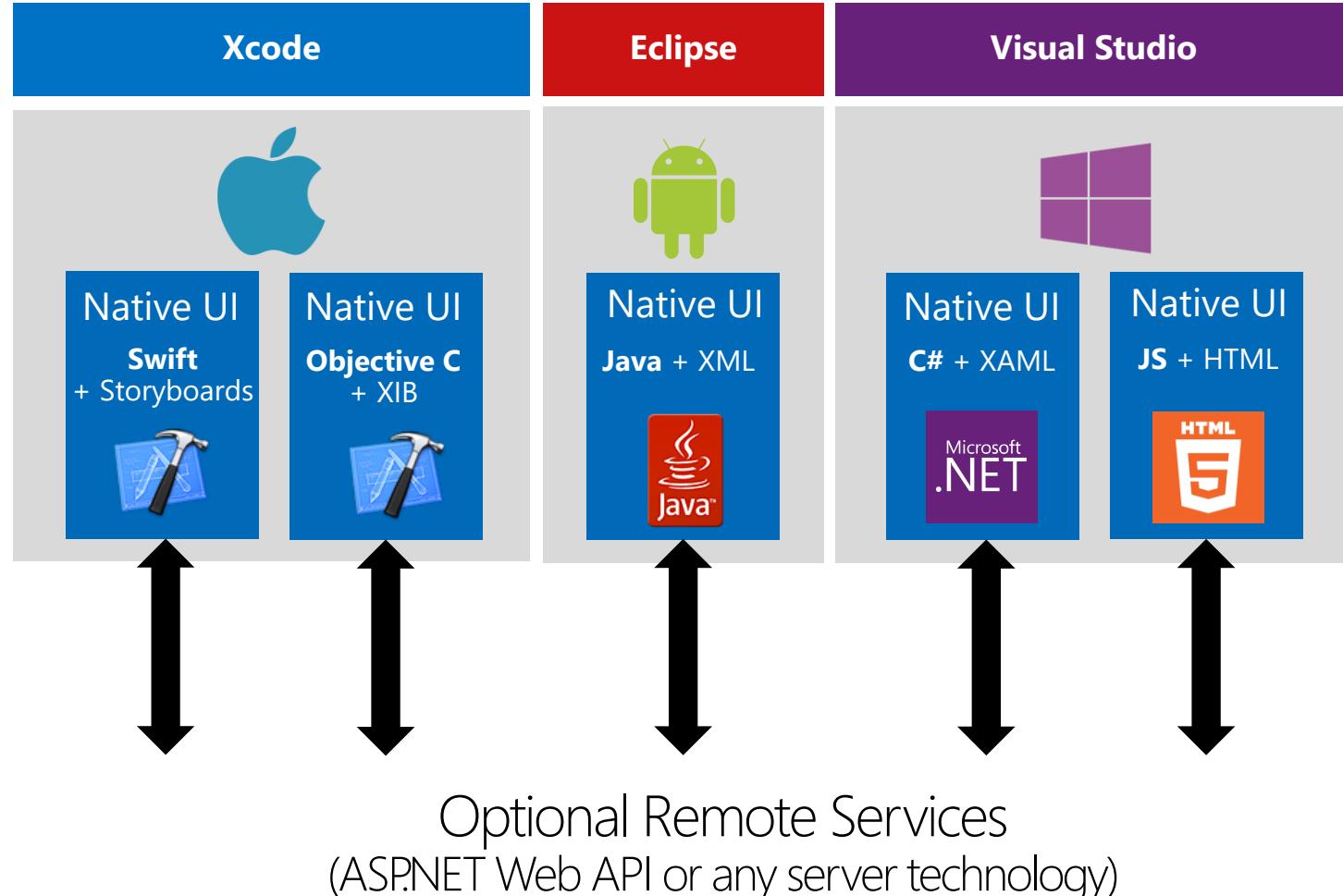
HOUSE  
ANDROID



HOUSE  
WINDOWS

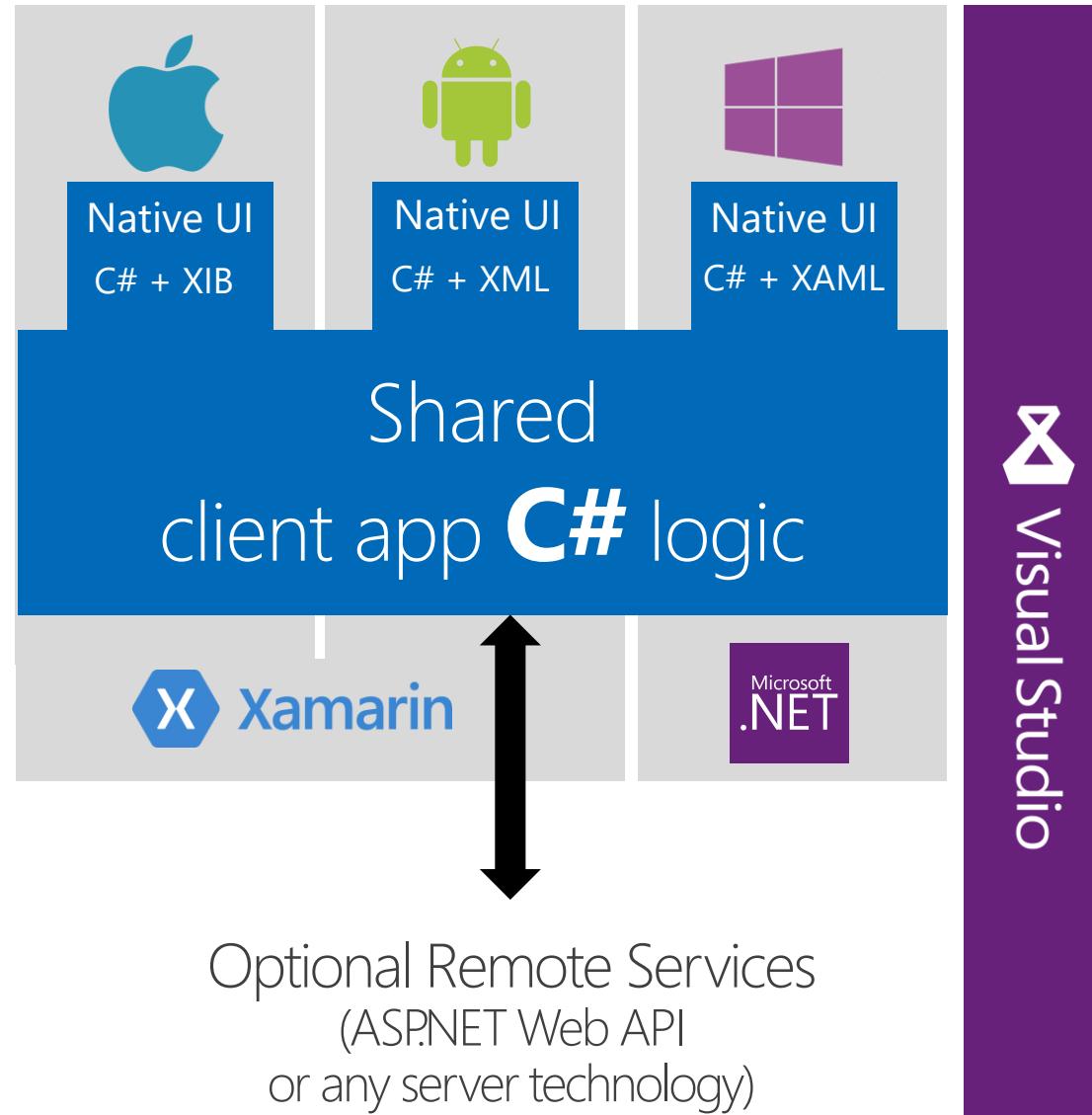


# The Siloed Approach





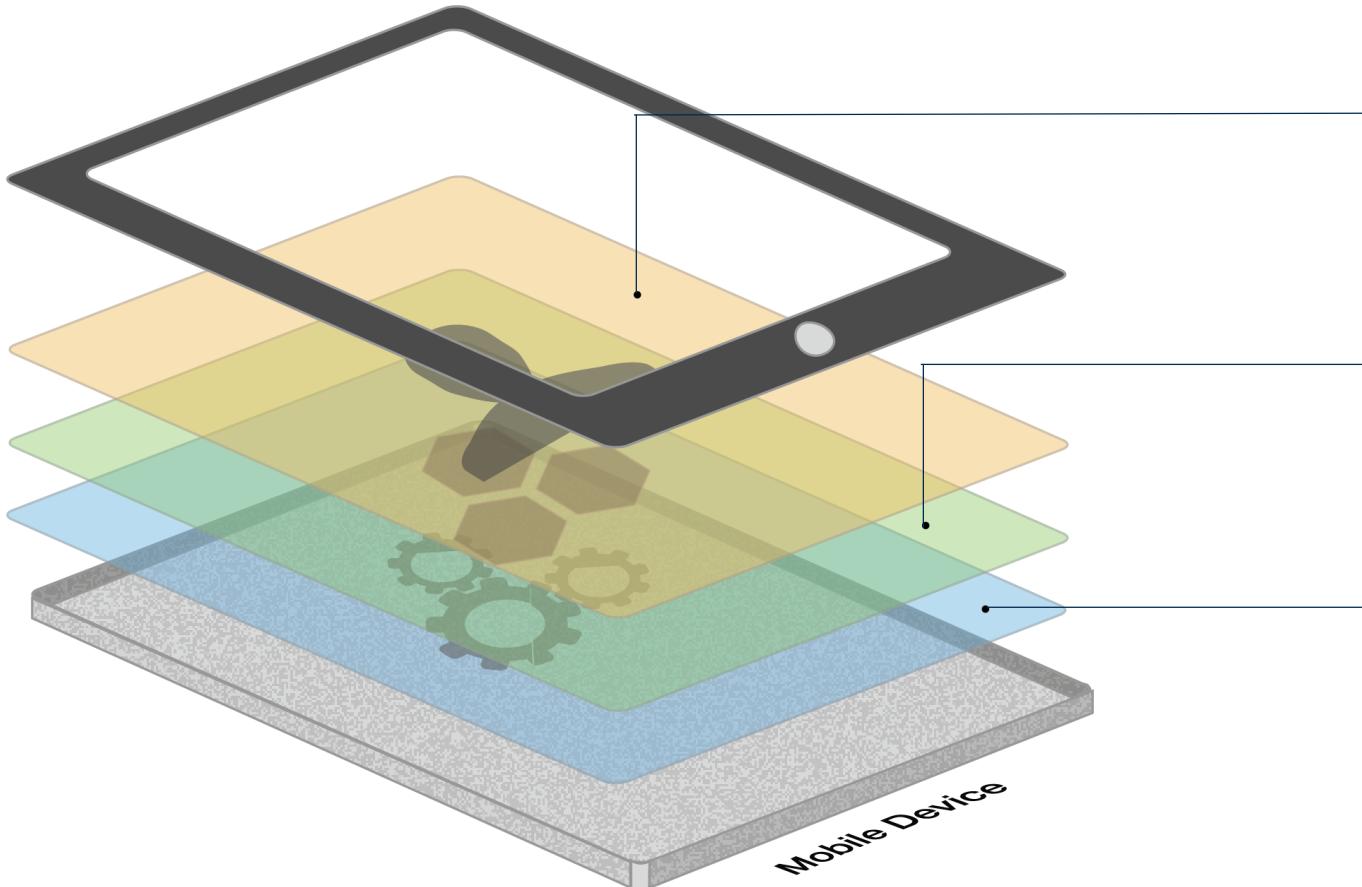
# C# Unique Approach



# XAMARIN



# Xamarin is native in all 3 ways



## Native User Interface

Apps are built with standard, native user interface controls for easy and familiar interactions



## High-fidelity API Access

Apps have access to the full spectrum of functionality exposed by the underlying platform and device

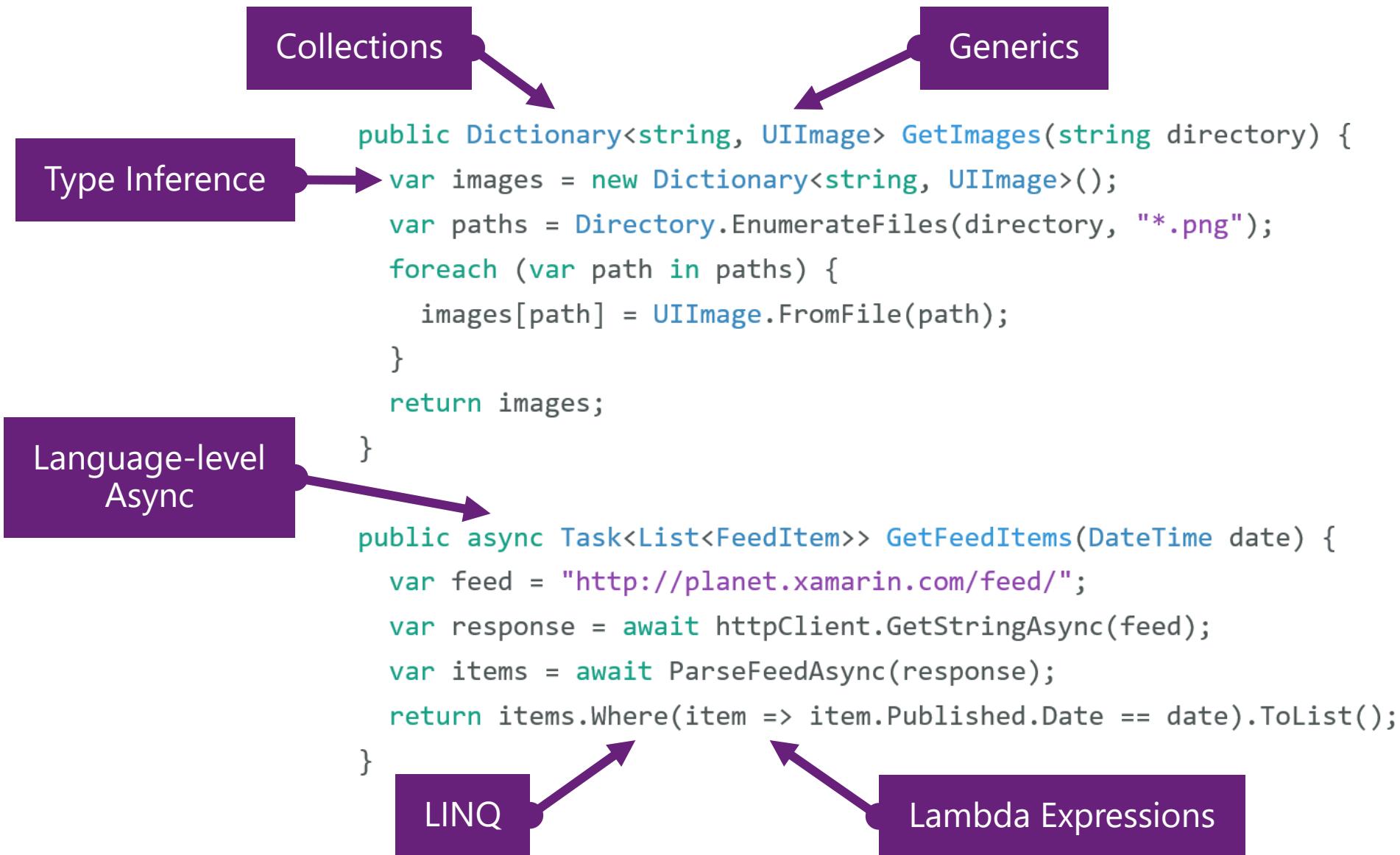


## Native Performance

Apps leverage platform-specific hardware acceleration, and are compiled as native binaries, not interpreted at runtime.

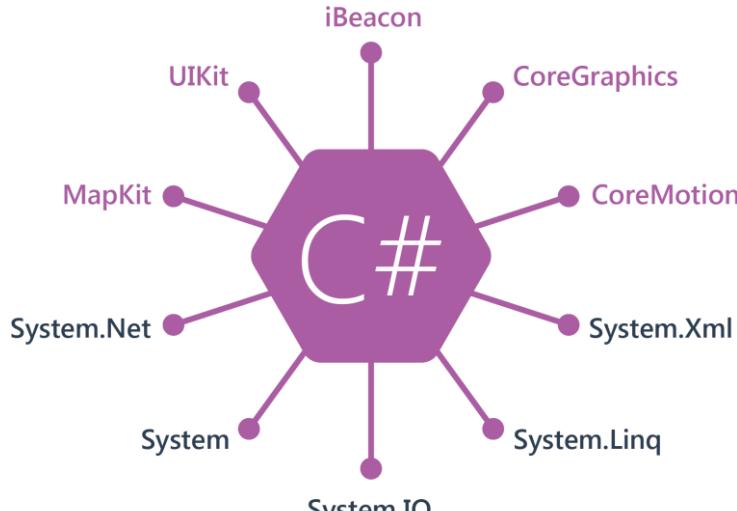


# C#



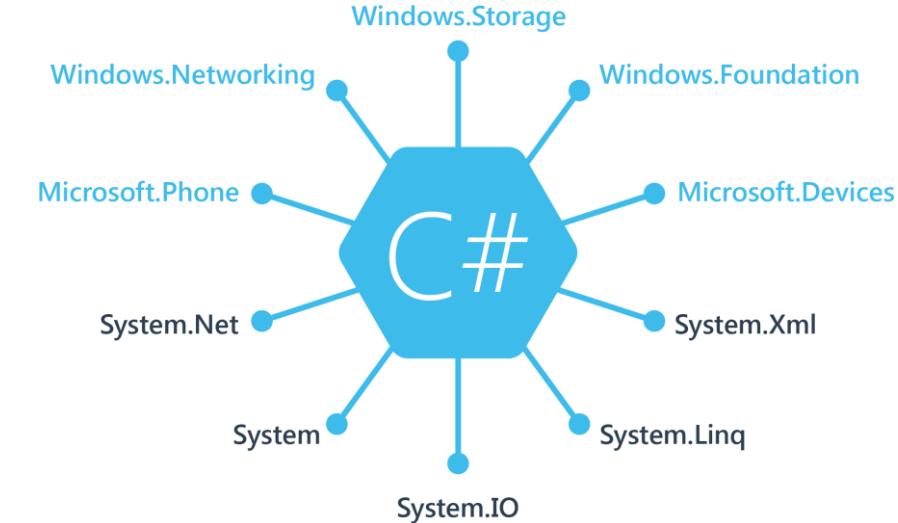
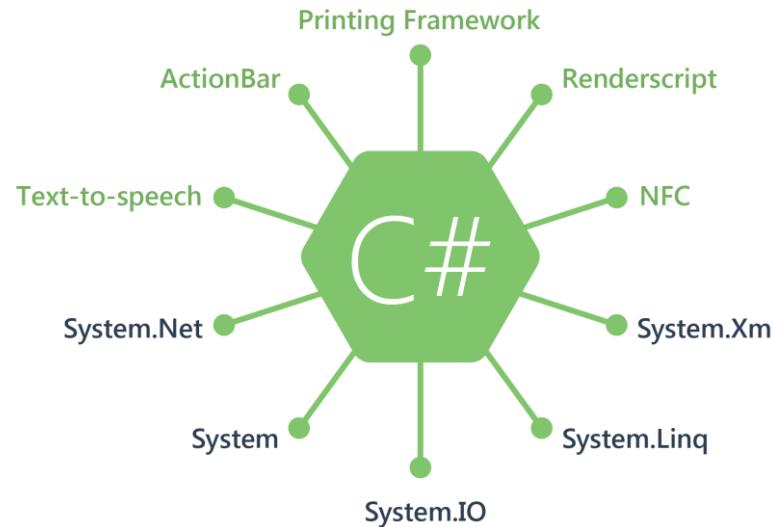


# 100% API Coverage



iOS

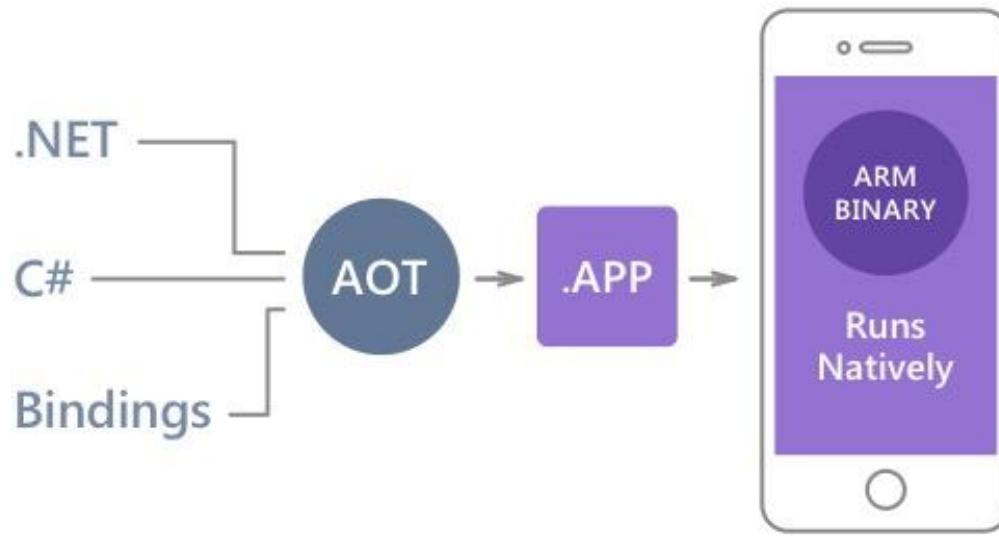
Android



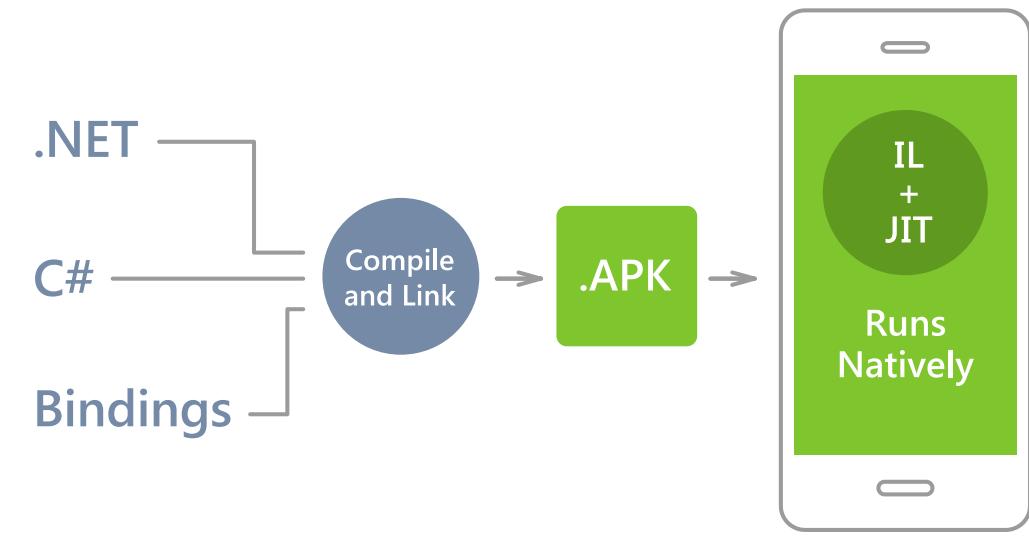
Windows



# 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.



# open.xamarin.com



Xamarin  
OPEN SOURCE

Xamarin SDK

Documentation

Community

Contribute



Build the future of apps  
with Xamarin.

Xamarin SDK is now fully available under the MIT license.

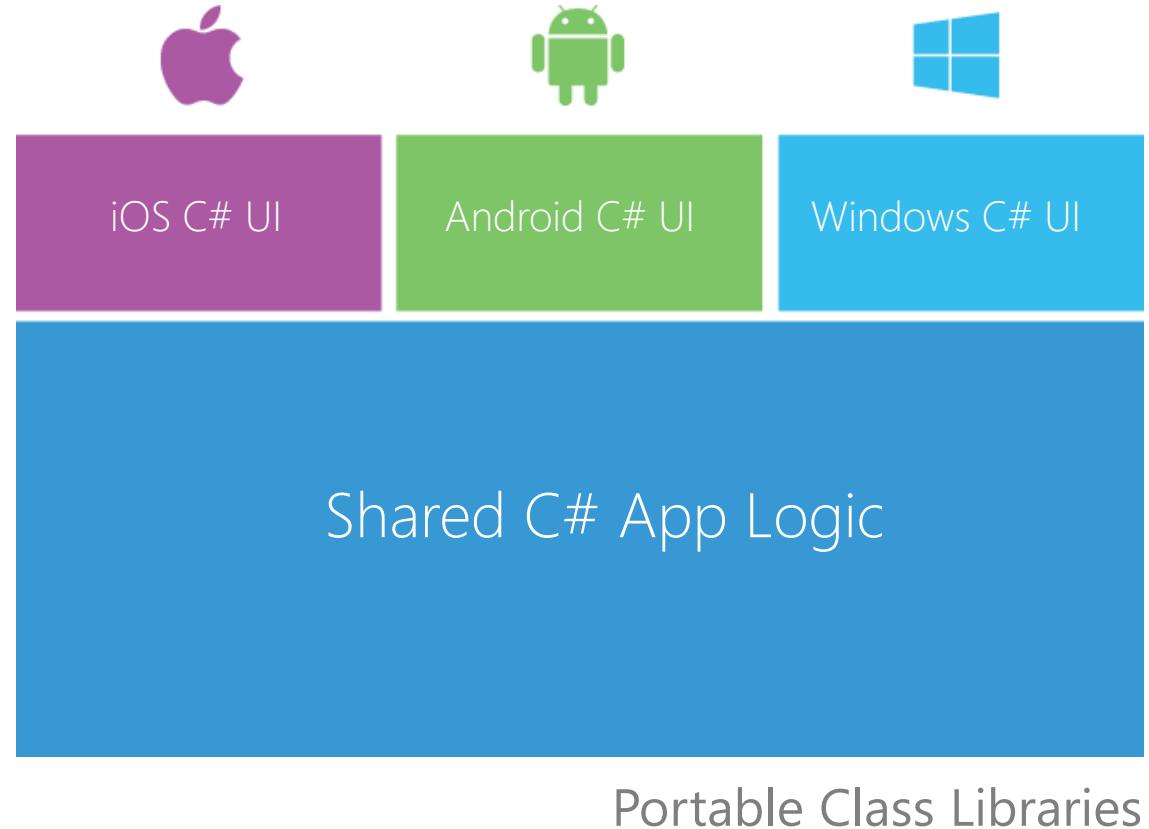


WHEN YOU DO A  
DEMO YOU WIN OR  
YOU DIE

XAMARIN.FORMS

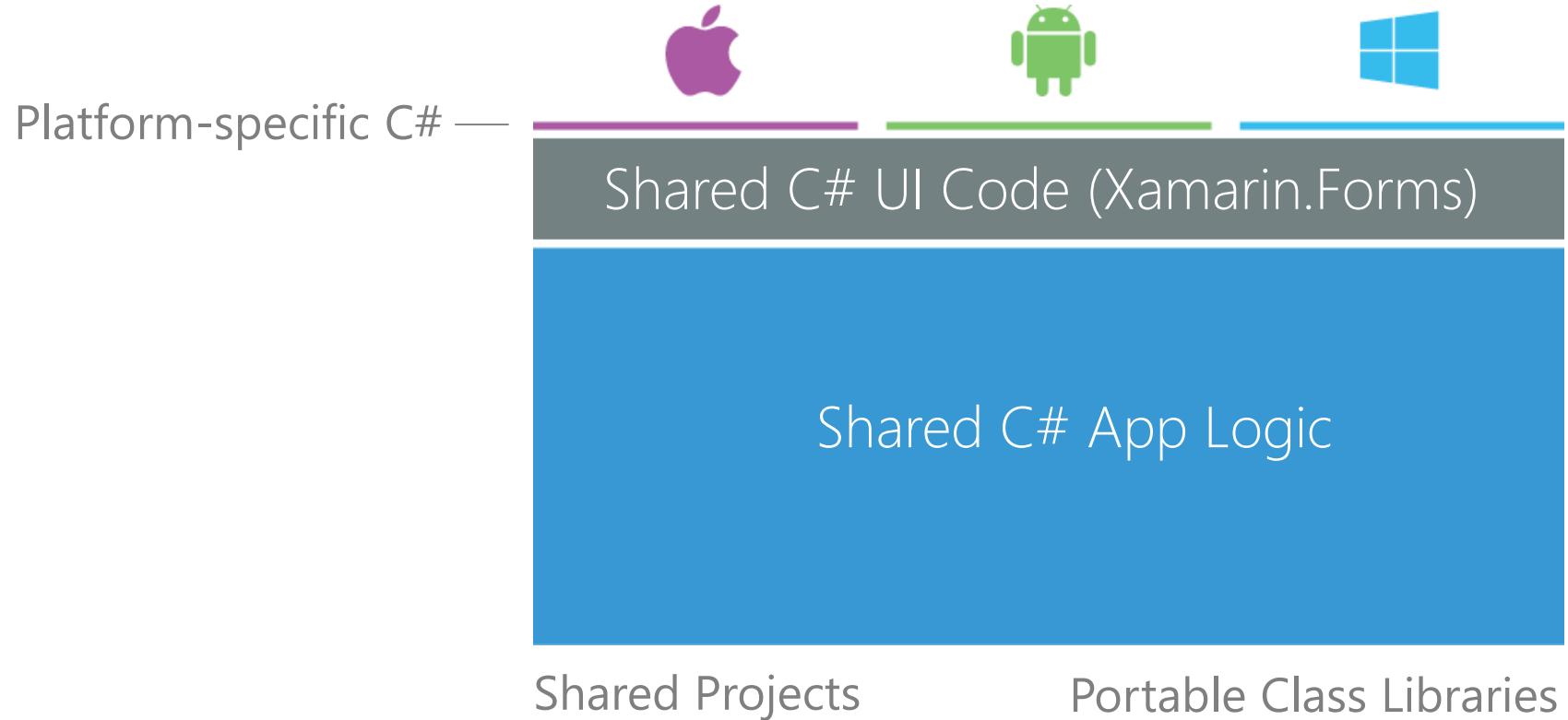


# Xamarin's Default App Architecture



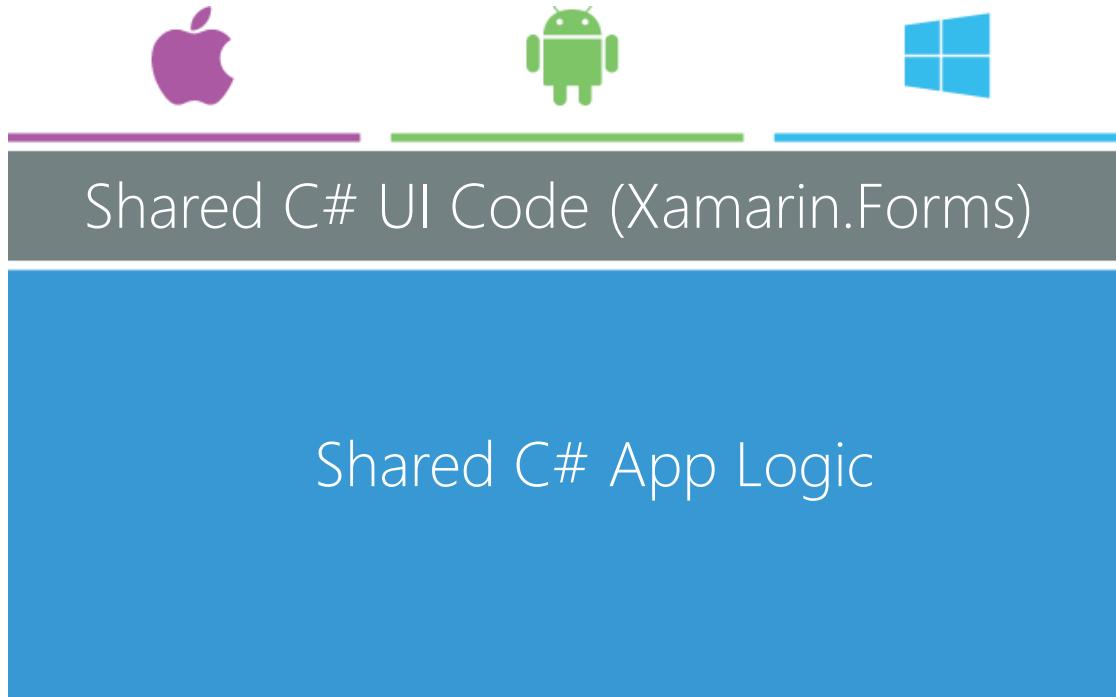


# Xamarin Forms App Architecture





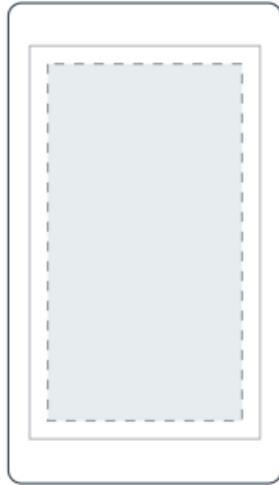
# What's Included



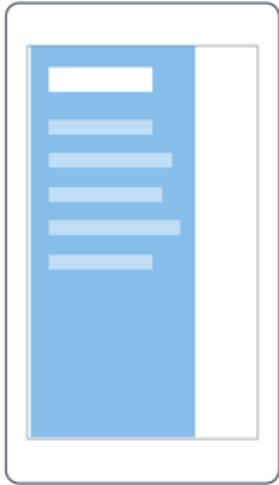
- ✓ 40+ Pages, layouts, and controls  
(Build from code behind or XAML)
- ✓ Two-way data binding
- ✓ Navigation
- ✓ Animation API
- ✓ Dependency Service
- ✓ Messaging Center



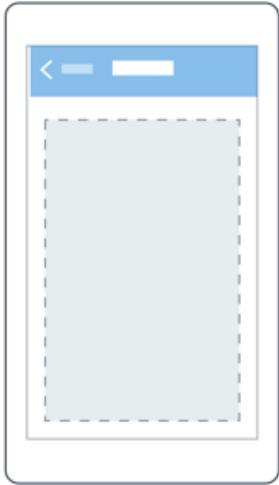
# Pages



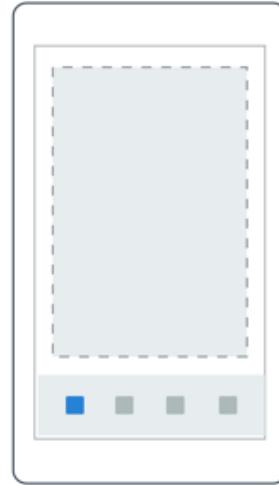
Content



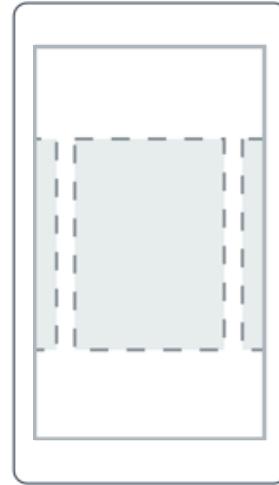
MasterDetail



Navigation



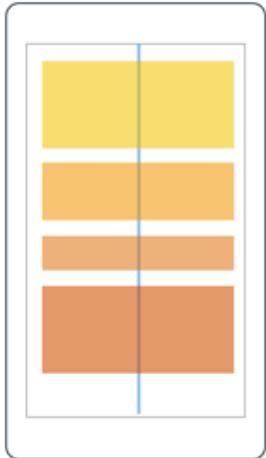
Tabbed



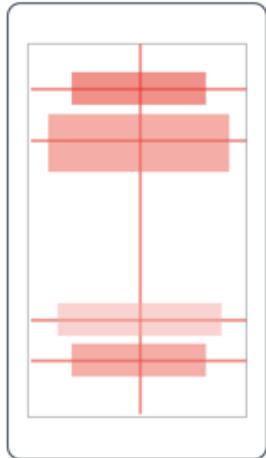
Carousel



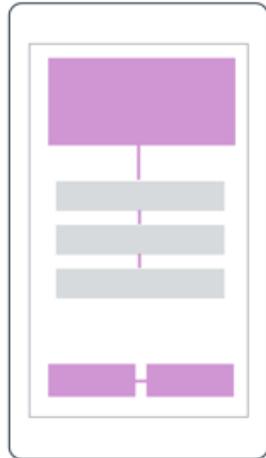
# Layouts



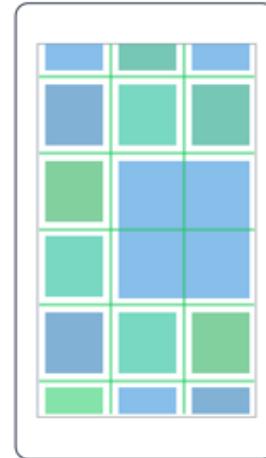
Stack



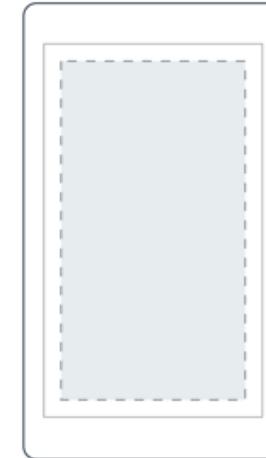
Absolute



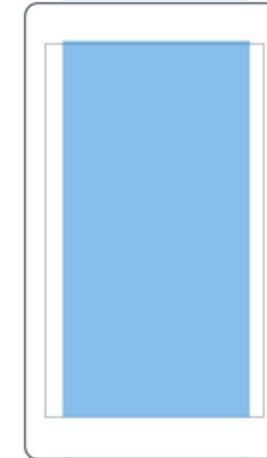
Relative



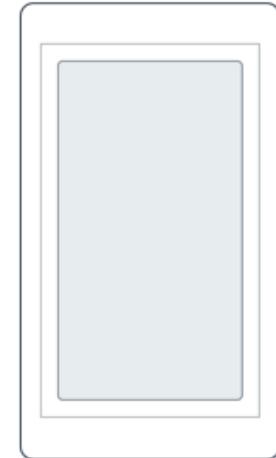
Grid



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

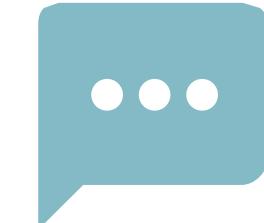
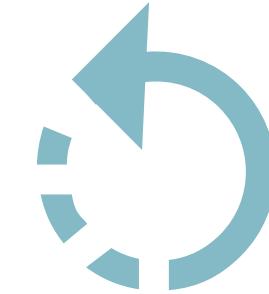
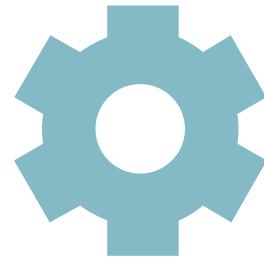
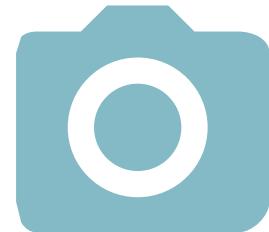
TextCell

ViewCell



# Plugins for Xamarin

Common API





# Plugins for Xamarin

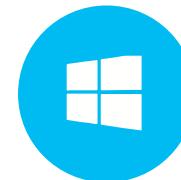
```
Speak("Hello World");
```



AVSpeechSynthesizer

TextToSpeech

SpeechSynthesizer

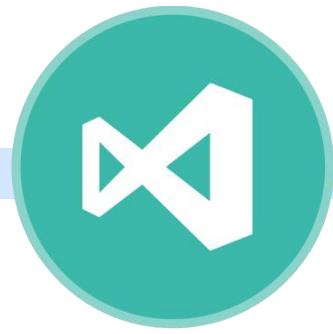


A dark, atmospheric scene from Game of Thrones. In the foreground, a knight in dark armor and a plumed helmet sits on a black horse, looking towards a massive army of soldiers on horseback. The soldiers are dressed in various styles of armor, some with plumes. The background is filled with smoke and the silhouettes of many horses and riders, creating a sense of a massive, approaching army.

DEMO CUTS DEEPER  
THAN SWORDS

XAMARIN  
MOBILE SOLUTION

# Xamarin – Your Complete Mobile Solution



## Develop



## Test



# Build



## Distribute



## Monitor

Xamarin test cloud >  MonkeyChat > master > May 24, 2016 7:37 PM

New Test Run | Support | Docs |  James ▾

Overview

RECODER TEST  
ScrollToEvent[AppView: Class=Xamarin.TestRec...]

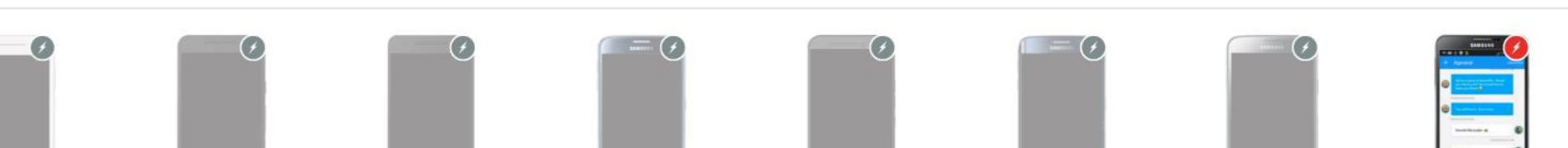
ALL RESULTS

Recorder Test

New Test 8 ⚡

- Tapped on view with class: AppCompatButton 6 ⚡
- Tapped on view with class: EntryEditText
- Tapped on view with class: AppCompatButton
- Tapped on view with class: EntryEditText 1 ⚡

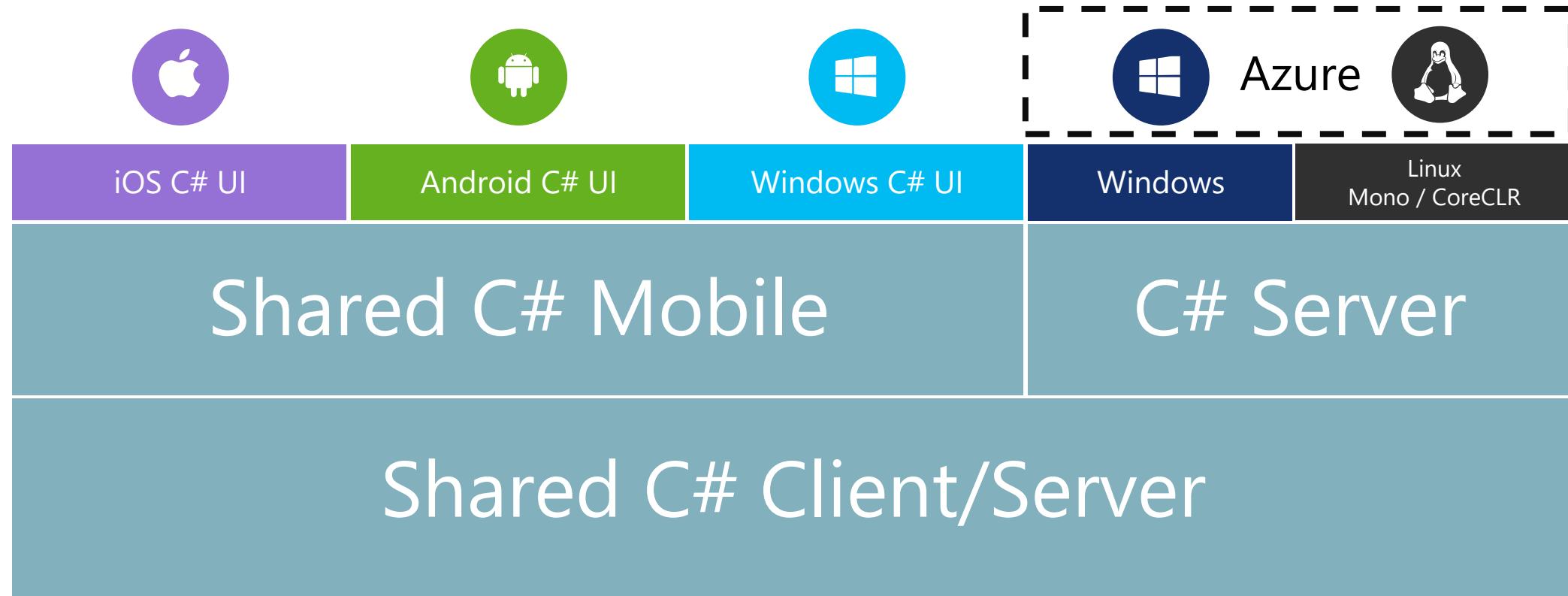
Filter devices



# AZURE MOBILE APPS

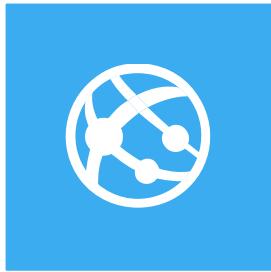


# Xamarin Apps + Backend Services

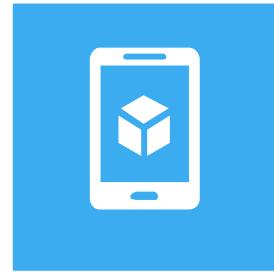


Shared C# codebase • 100% native API access • High performance

# Azure App Services



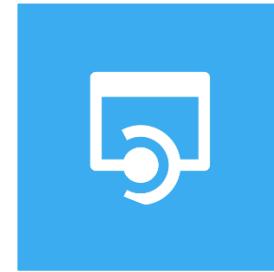
Web  
App



Mobile  
App



Function  
App



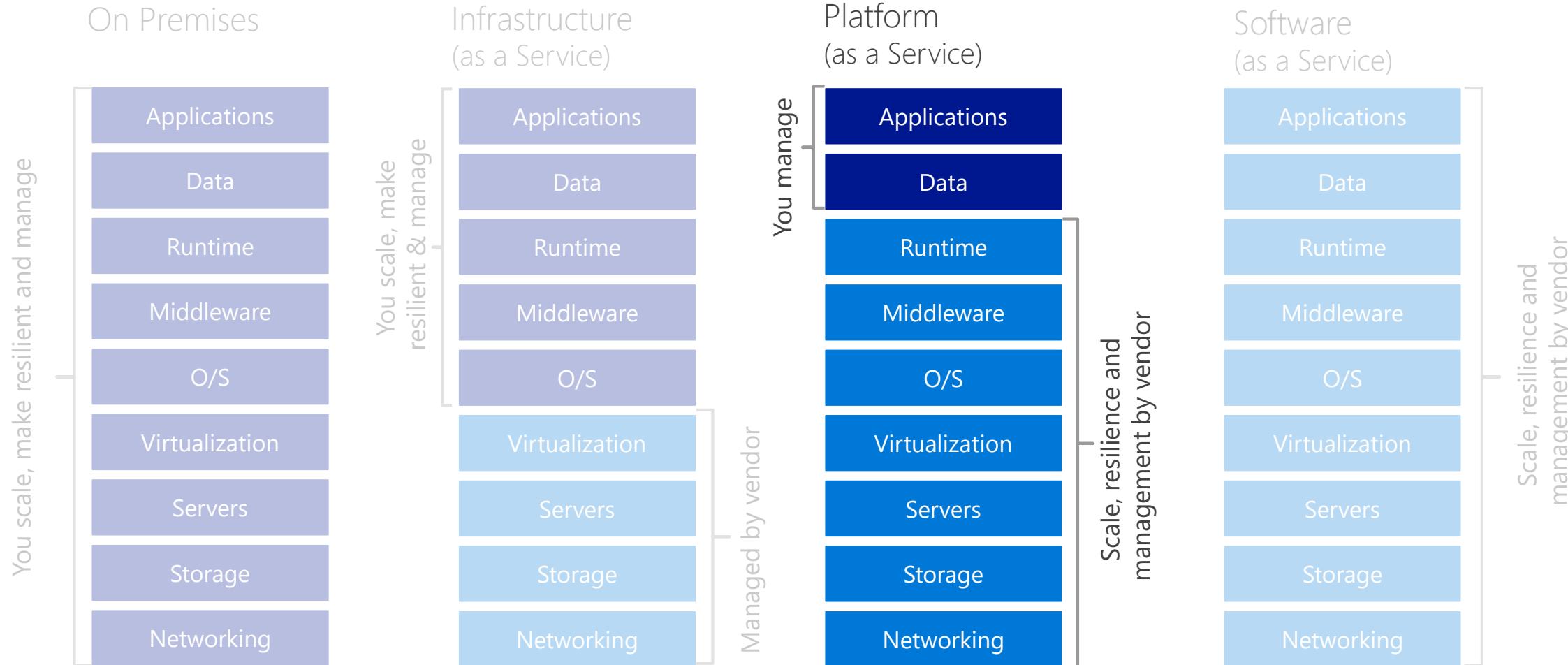
API  
App



Logic  
App

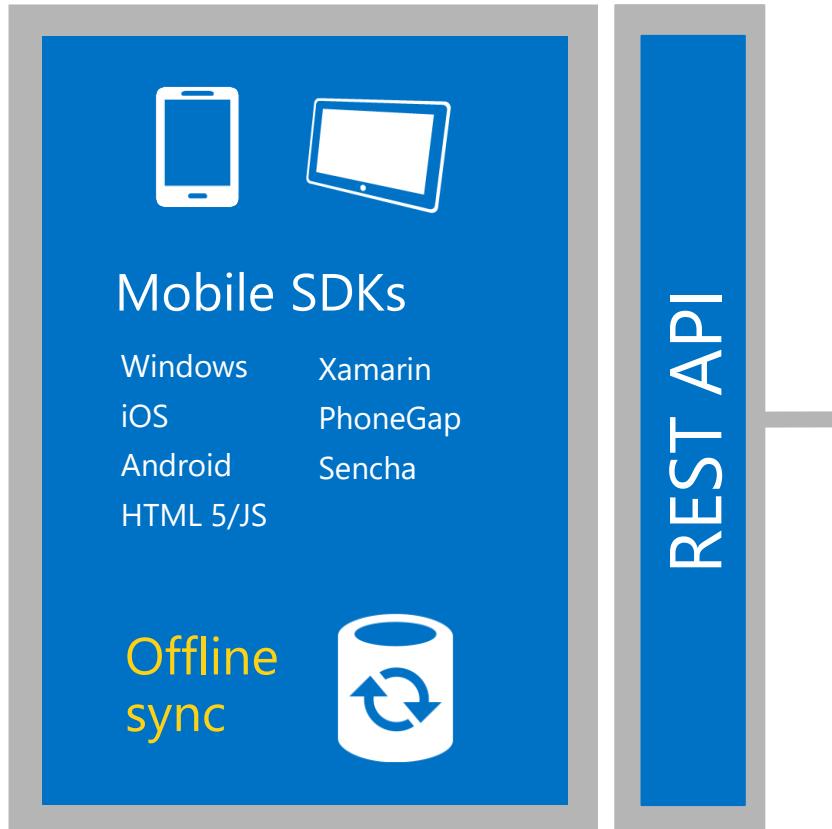


# App Services is PaaS





# Mobile Apps



A MIND NEEDS DEMOS  
AS A SWORD  
NEEDS A WHETSTONE



Microsoft



Isabel Cabezas  
@isabelcabezas