



Xamarin.Forms

Mike James







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Who is this guy?



Cross platform developer









Architecting Mobile Apps



Build Apps Multiple Times







Java Eclipse

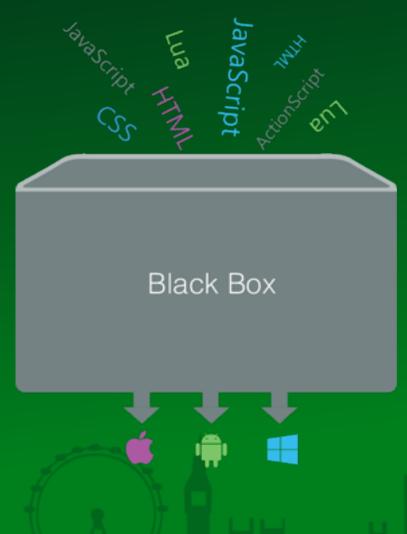


Windows App

C# Visual Studio

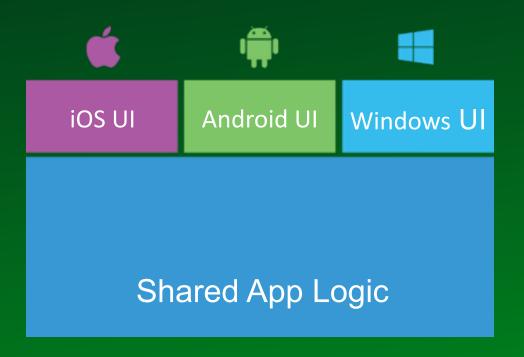


Lowest
Common
Denominator





Xamarin Standard App Architecture



- Business logic, data models and common code shared between all platforms.
- All platform-specific UI and API calls are in C# as well.
- Retain fine-grain control app user interface
- Recommended for sophisticated UX requirements (complicated gestures, animations, design)



Native Performance

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

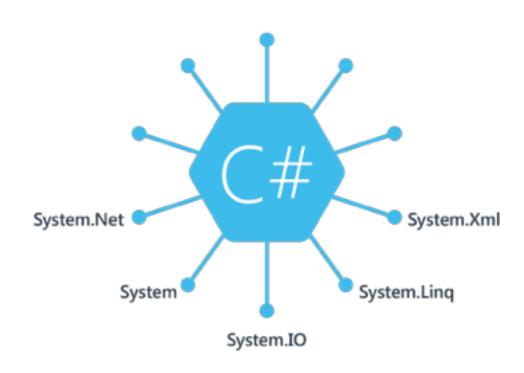
Xamarin. Android takes advantage of Just In Time (JIT) compilation on the Android device.





Windows APIs

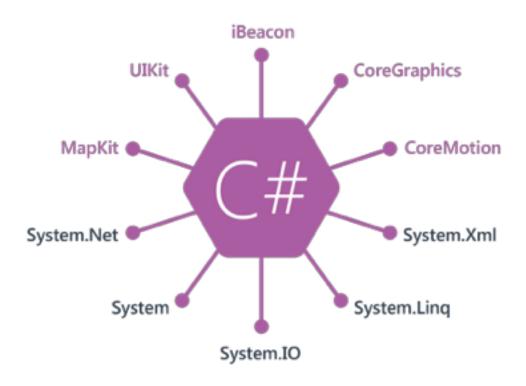






iOS APIs | 100% Coverage

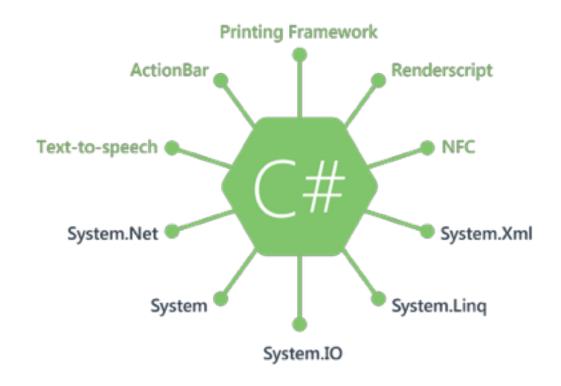






Android APIs | 100% Coverage

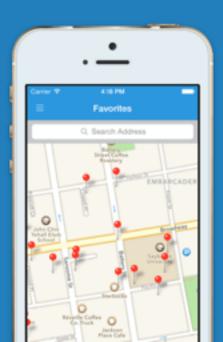


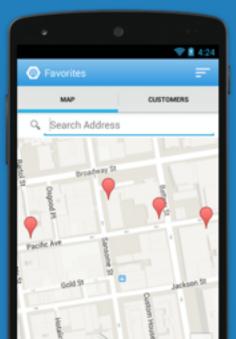


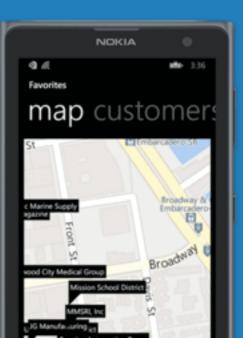


Meet Xamarin.Forms

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









Considerations

- Not for all types of apps
- Is your app very customised?
- Great for data driven apps
- Utility apps
- Also supports maps

Xamarin App Architectures





Option for OS – specific UI/UX elements
Recommended for: Sophisticated UX (complicated gestures, animations, design)



Option for 100% code share Recommended for: forms-based, apps with a lot of data entry screens

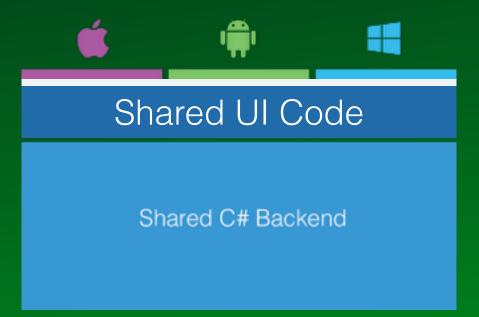
Xamarin.Forms

Quickly and easily build native user interfaces using shared code

Xamarin.Forms elements map to native controls and behaviours

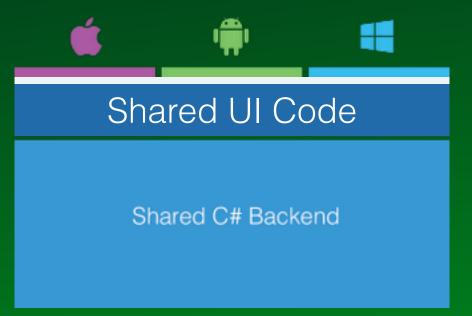
Mix-and-match Xamarin.Forms with native APIs





What's Included

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





Pages





Layouts





Controls

ActivityIndicator

BoxView

Button

DatePicker

Editor

Entry

Image

Label

ListView

Мар

OpenGLView

Picker

ProgressBar

SearchBar

Slider

Stepper

TableView

TimePicker

WebView

EntryCell

ImageCell

SwitchCell

TextCell

ViewCell



Demo



Pages

- Single screen of content
- ContentPage holds one visual element

ContentPage

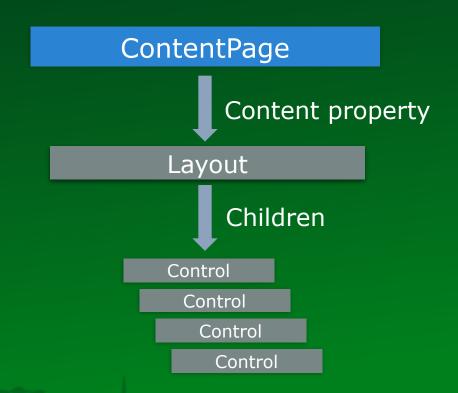
Content property

Control



Layout

- Layouts handle child elements
- Layouts come in two types: managed and unmanaged





Demo



Read the book



Charles Petzold Xamarin





Where to find some interesting samples

- https://github.com/MikeCodesDotNet/
- https://github.com/pierceboggan



Looking for a Forms weekend project?





Questions?



Thanks!