

Slides & Code!

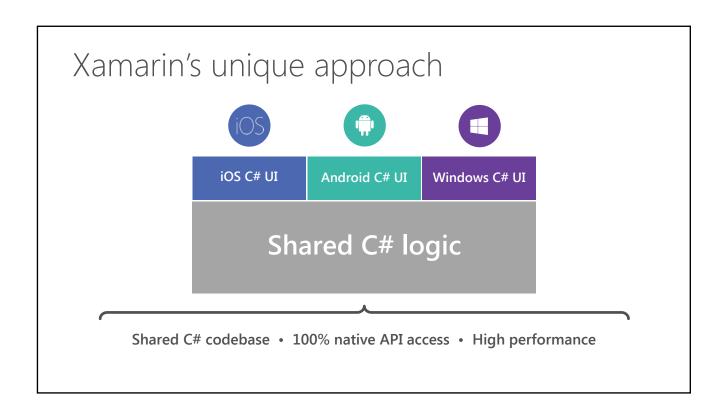
Slides: slideshare.net/MatthewSoucoup

Code: github.com/codemillmatt/MyWeather.Forms

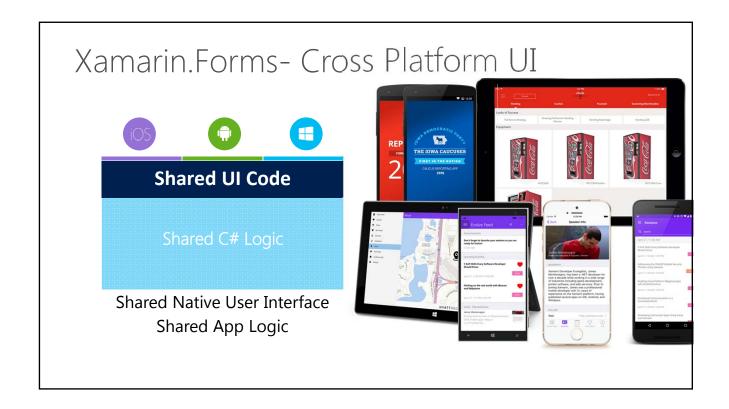
Code: github.com/codemillmatt/app-imagesearch-cogs

Matthew Soucoup Sr. Cloud Developer Advocate Microsoft





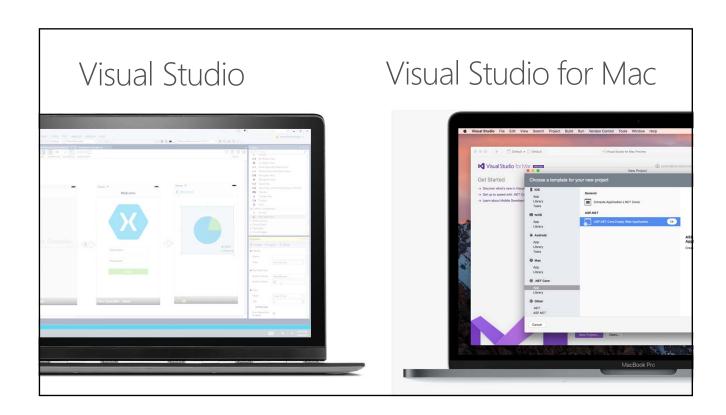


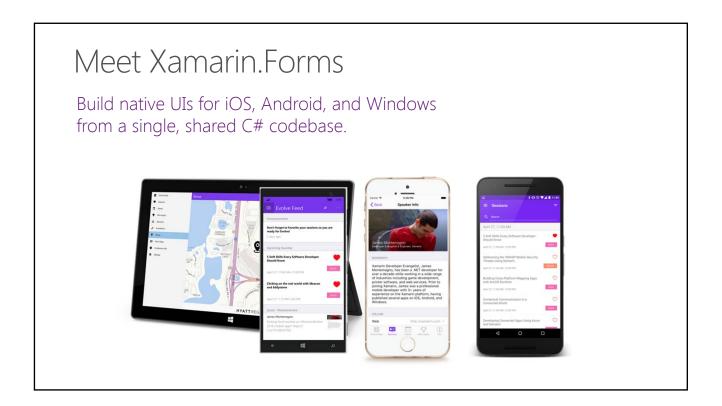


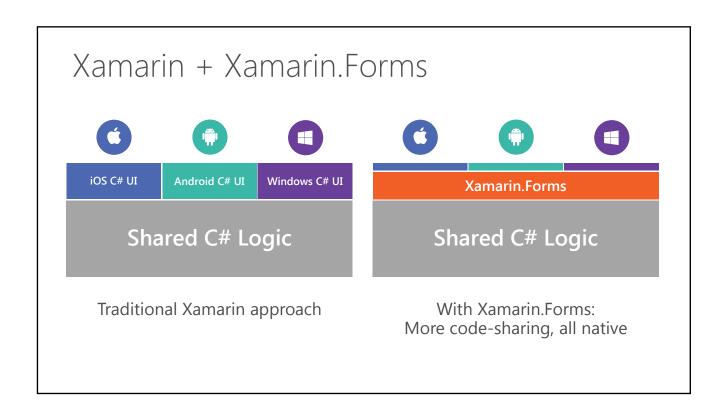
Xamarin Platform is included in Visual Studio

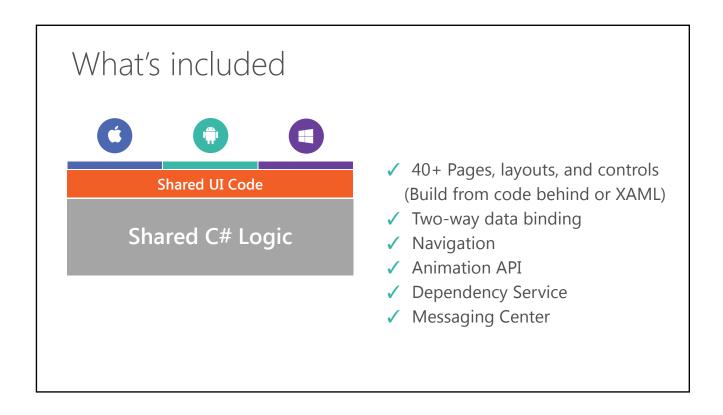
Including Community Edition

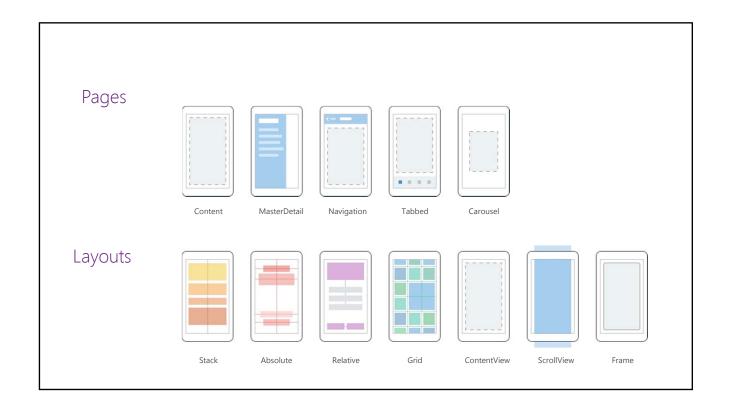




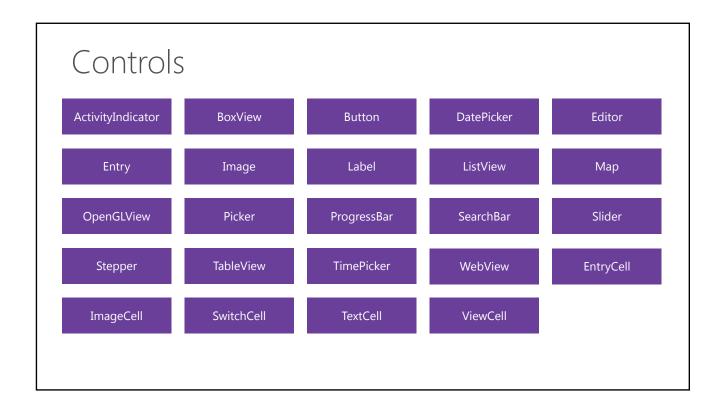


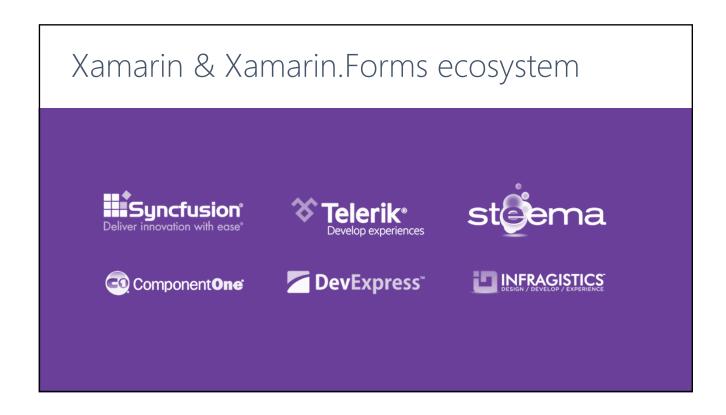


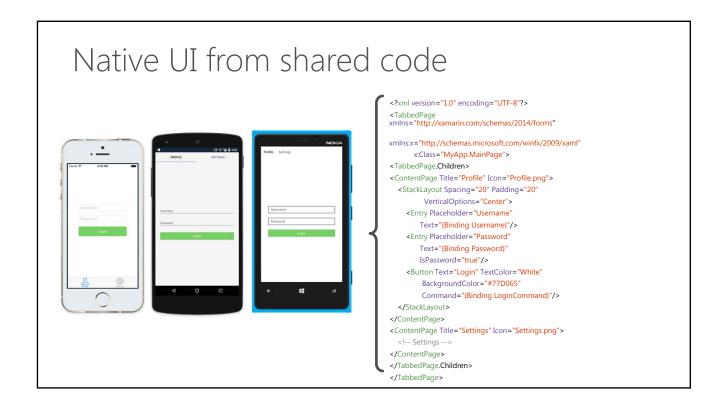


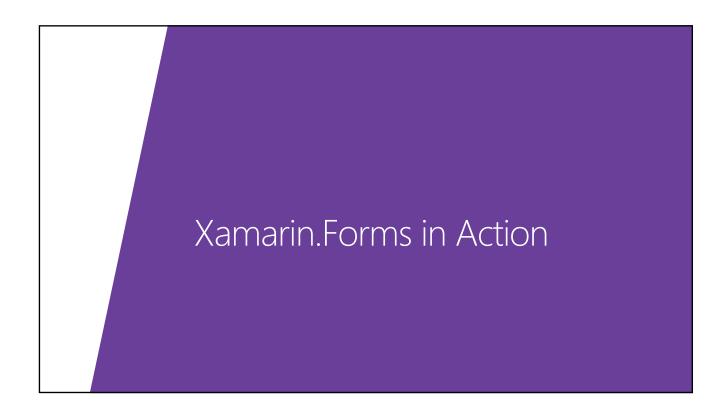


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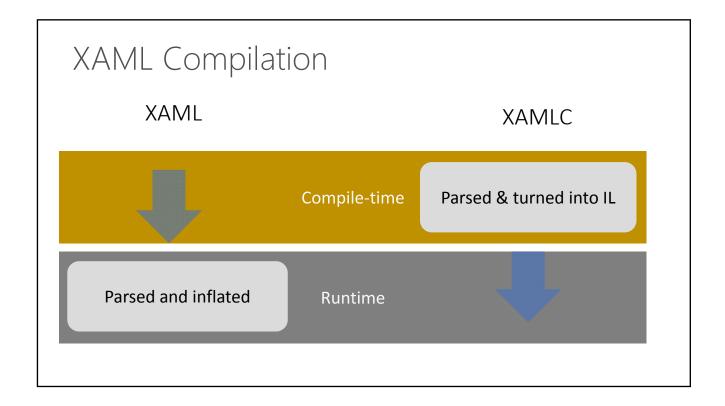












XAML Compilation Usage

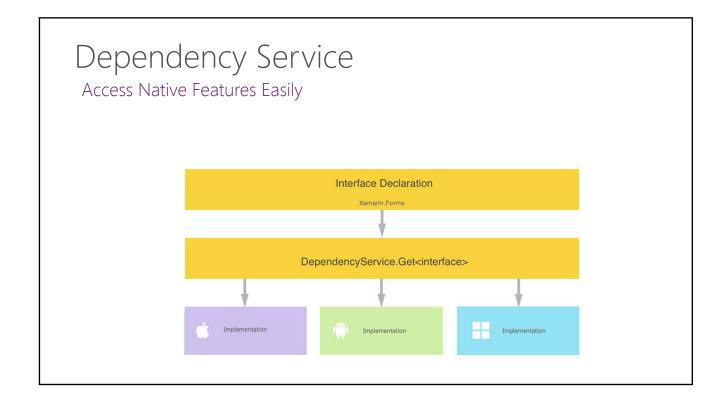
At assembly level:

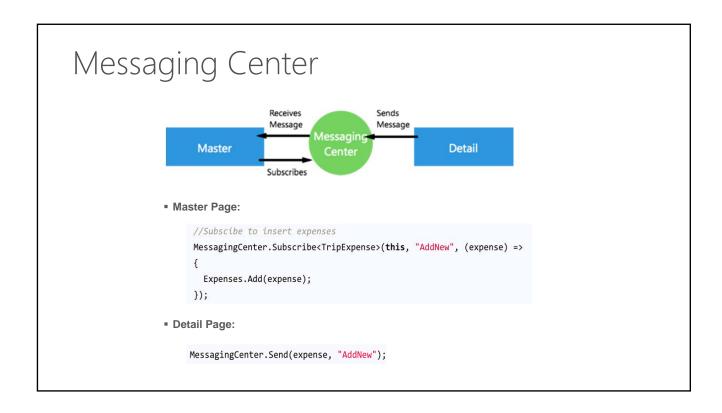
[assembly: XamlCompilation(XamlCompilationOptions.Compile)]

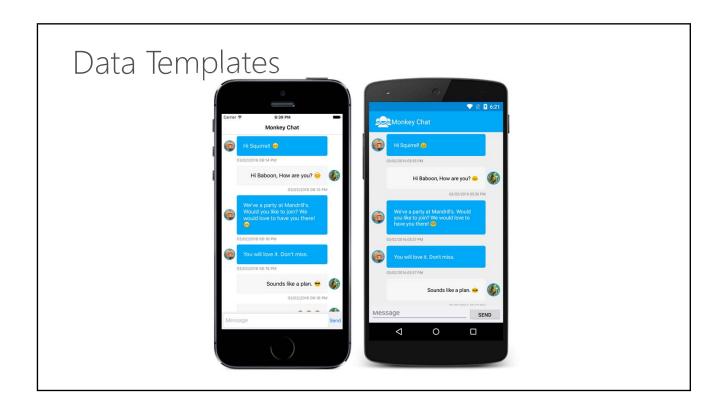
At class level:

[XamlCompilation(XamlCompilationOptions.Compile)]

[XamlCompilation(XamlCompilationOptions.Skip)]





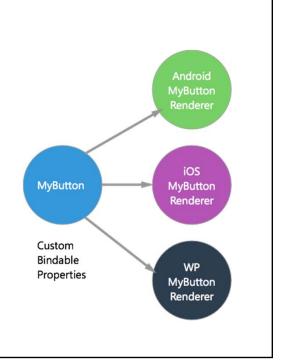




Custom Renderers

Custom Renderers

- Extend Forms functionality
- Platform-specific implementations
- Customize an existing control or write your own



Custom Renderers - Examples

- Custom page (subclass PageRenderer)
- Circle Image (subclass ImageRenderer)
- Calendar (subclass ViewRenderer)



Effects

Effects

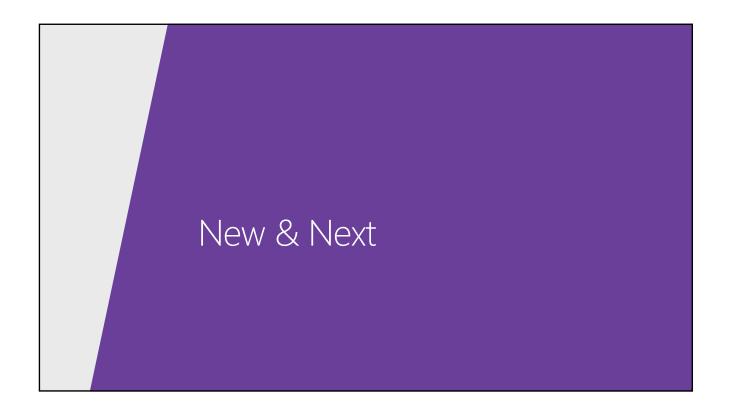
- ✓ Custom renderer "lite"
- ✓ Change properties on the native control
- ✓ Optional
- ✓ "stringly-typed"
- X No methods or events
- **X** No replacing the control

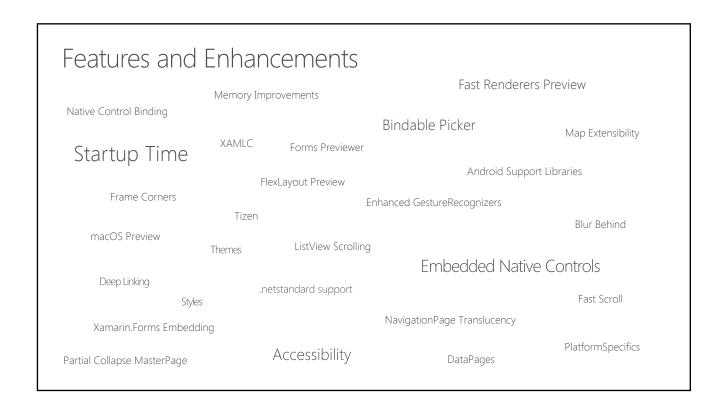
```
Effects

// located inside iOS specific codebase
public class BorderEffect : PlatformEffect
{
    protected override void OnAttached ()
    {
        Control.Layer.BorderColor = UIColor.Purple.CGColor;
        Control.Layer.BorderWidth = 2;
    }

    protected override void OnDetached ()
    {
        Control.Layer.BorderWidth = 0;
    }
}
```

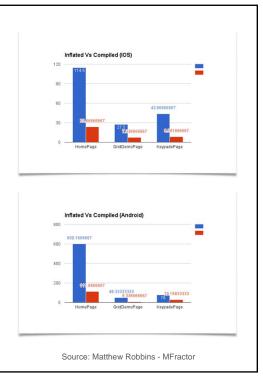




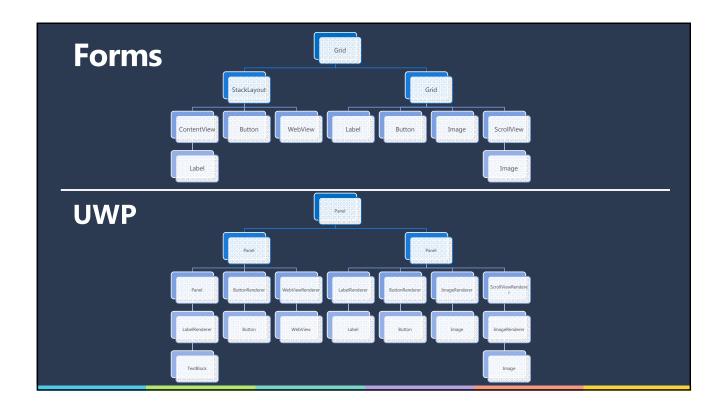


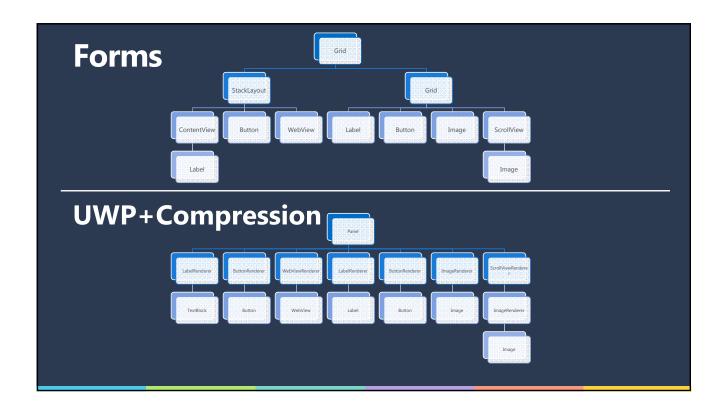
Quality and Performance

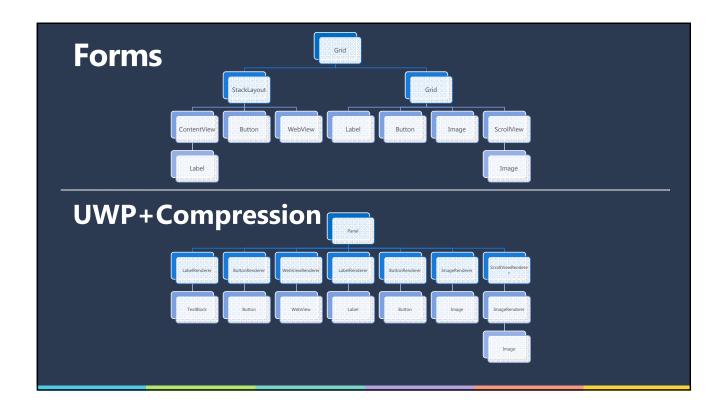
- Aggressive bug triage
 - New issues reviewed within 24 hrs
 - Reproduction projects for quick resolution
- Performance Improvements
 - Startup Time
 - Fast Renderers for Android
 - ListView improvements, Fast Scroll
 - XAMLC 5x faster
 - Discussion: aka.ms/xfperformance

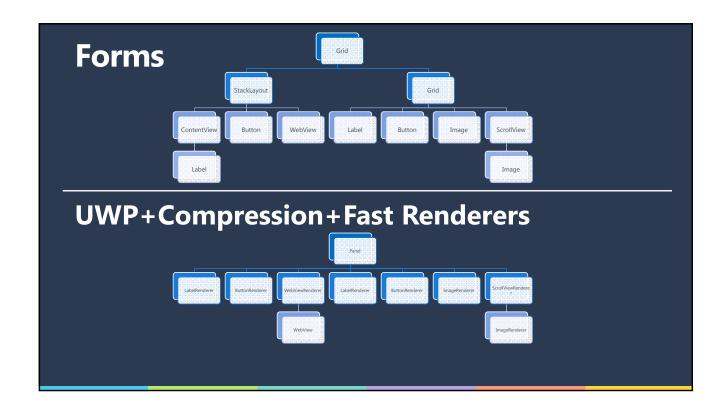


Compression + Fast Renderers





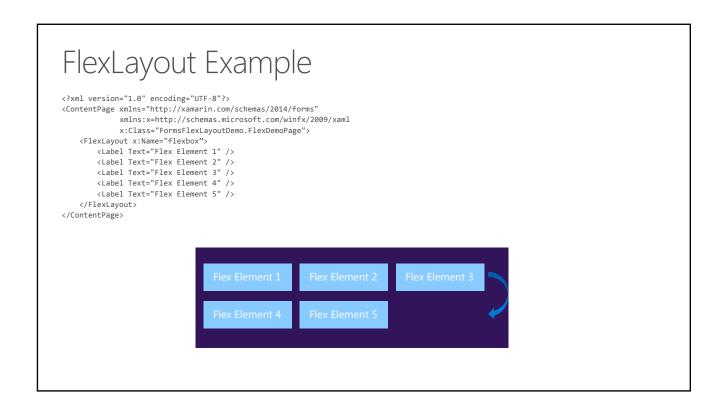




Flex Layout

FlexLayout

- A CSS FlexBox inspired layout system
- Used for
 - Flowing items
 - Adaptive layout



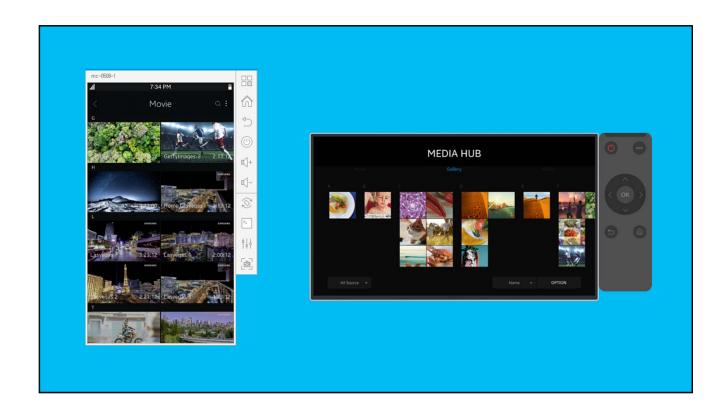


New Platforms

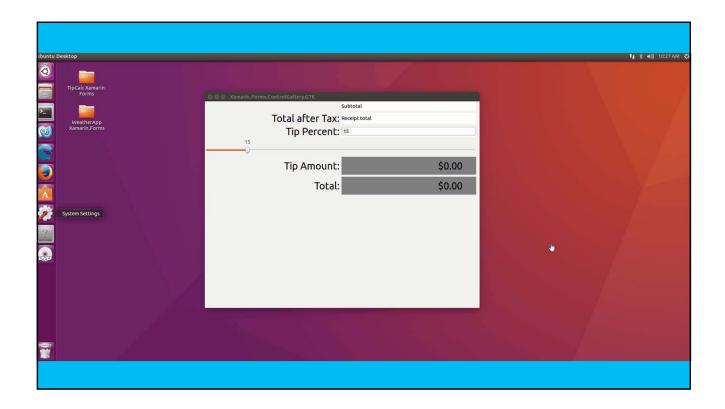
- · Samsung Tizen
 - · Televisions, Wearables, Mobile
- macOS
- · WPF
- · Linux: GTK#







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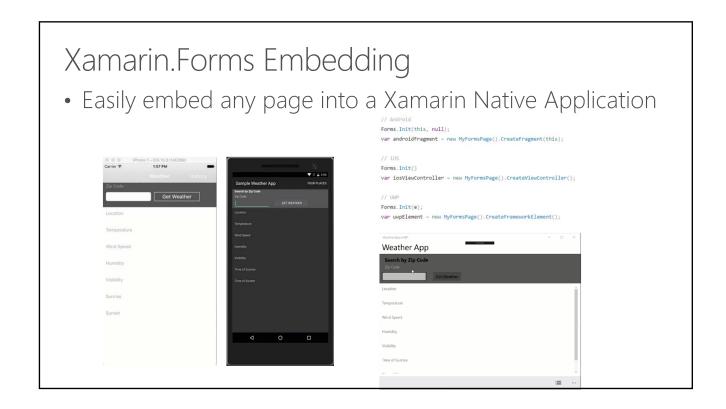


Now available 2.3.5-pre

Available Today: Xamarin.Forms 2.3.5-pre3

- .NET Standard Compatible
 - Recommend 1.1+ target
- Fast Renderers for Android
 - Button, Image, Label
- Accessibility
- macOS Preview
- XAMLC type improvements
- 160+ bug fixes and enhancements





• Works on ContentPages • Full support for DependencyService and MessagingCenter OS Xama → iorms ios C# Android C# Windows C# Android Java Obj-C Swift Shared C# Logic ?







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