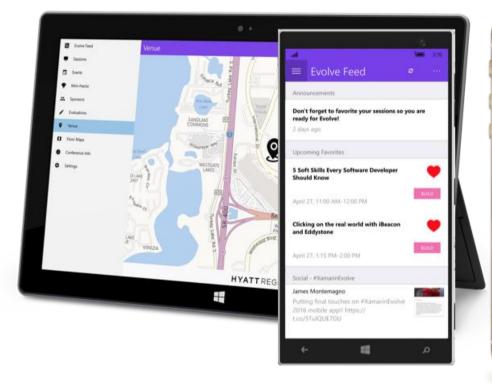


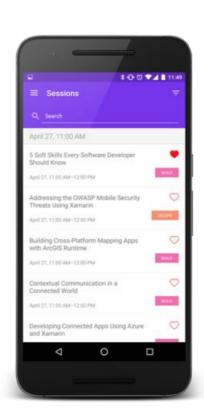
Cross-Platform Native User Interfaces with Xamarin.Forms

Presenter Name Presenter Twitter Presenter Title

Meet Xamarin.Forms

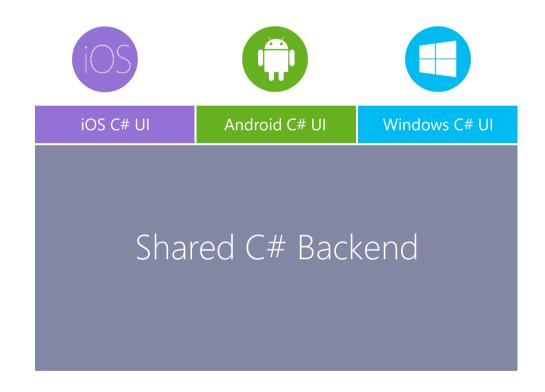




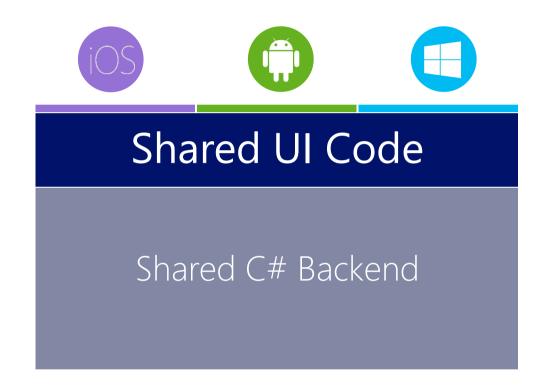


Build native UIs for iOS, Android, and Windows from a single, shared C# codebase.

Xamarin + Xamarin.Forms

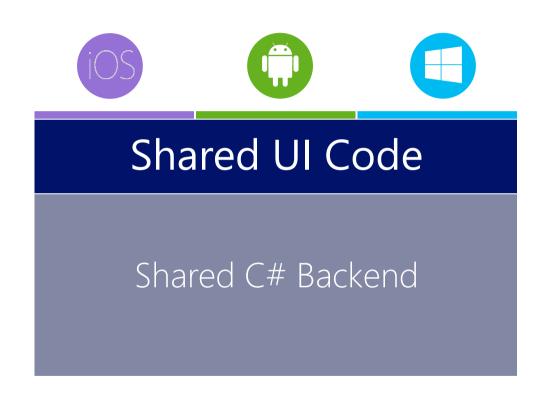


Traditional Xamarin
Approach



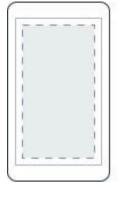
With Xamarin.Forms:
More code-sharing, all native

What's included

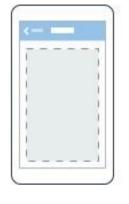


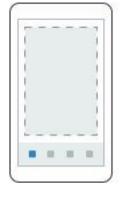
- √ 40+ Pages, layouts, and controls
 (Build from code behind or XAML)
- ✓ Two-way data binding
- ✓ Navigation
- ✓ Animation API
- ✓ Dependency Service
- ✓ Messaging Center

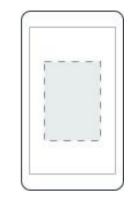












Content

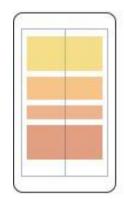
MasterDetail

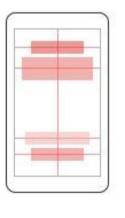
Navigation

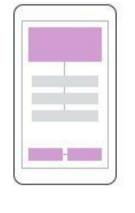
Tabbed

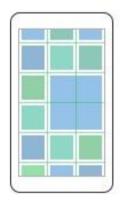
Carousel

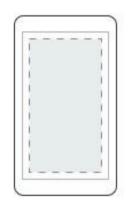
Layouts

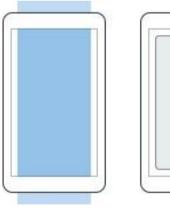














Stack

Absolute

Relative

Grid

ContentView

ScrollView

Frame

Controls

ActivityIndicator	BoxView	Button	DatePicker	Editor
Entry	lmage	Label	ListView	Мар
OpenGLView	Picker	ProgressBar	SearchBar	Slider
Stepper	TableView	TimePicker	WebView	EntryCell
ImageCell	SwitchCell	TextCell	ViewCell	

Xamarin.Forms Ecosystem













Windows	Xamarin.Forms	
StackPanel	StackLayout	
TextBox	Entry	
ListBox	ListView	
CheckBox	Switch	
ProgressBar	ActivityIndicator	
Grid	Grid	
Label	Label	
Button	Button	
Image	lmage	
Date/TimePicker	Date/TimePicker	

Control Comparison

Windows	Xamarin.Forms
DataContext	BindingContext
{Binding Property}	(Binding Property)
ItemsSource	ItemsSource
ItemTemplate	ItemTemplate
DataTemplate	DataTemplate

Binding Comparison

```
<ContentPage.Padding>
 <OnPlatform x:TypeArguments="Thickness">
    <OnPlatform.iOS>
      0, 20, 0, 0
    </OnPlatform.iOS>
    <OnPlatform.Android>
     0, 0, 0, 0
    </OnPlatform.Android>
    <OnPlatform.WinPhone>
     0, 0, 0, 0
    </OnPlatform.WinPhone>
 </OnPlatform>
</ContentPage.Padding>
```

Platform Customization

Native UI from shared code





```
<?xml version="1.0" encoding="UTF-8"?>
<TabbedPage xmlns="http://xamarin.com/schemas/2014/forms"
            xmlns:x="http://schemas.microsoft.com/winfx/2009/xaml"
            x:Class="MyApp.MainPage">
<TabbedPage.Children>
<ContentPage Title="Profile" Icon="Profile.png">
    <StackLayout Spacing="20" Padding="20"</pre>
                 VerticalOptions="Center">
        <Entry Placeholder="Username"</pre>
               Text="{Binding Username}"/>
        <Entry Placeholder="Password"</pre>
               Text="{Binding Password}"
               IsPassword="true"/>
        <Button Text="Login" TextColor="White"</pre>
                BackgroundColor="#77D065"
                Command="{Binding LoginCommand}"/>
    </StackLayout>
</ContentPage>
<ContentPage Title="Settings" Icon="Settings.png">
    <!-- Settings -->
</ContentPage>
</TabbedPage.Children>
</TabbedPage>
```

Xamarin.Forms

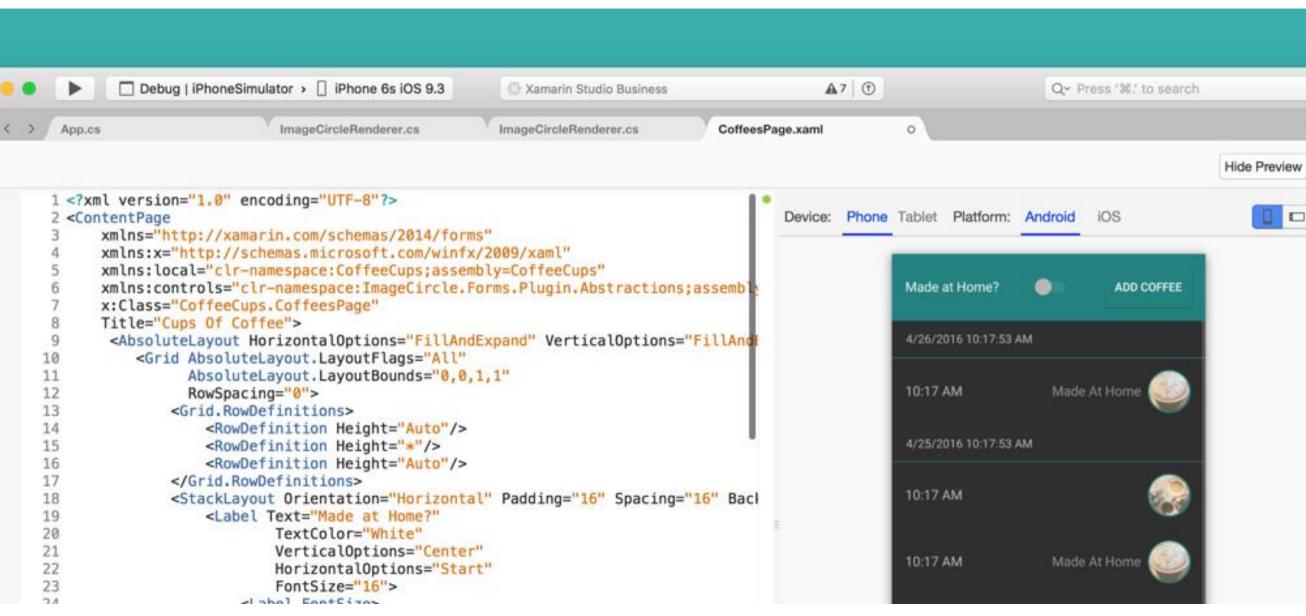
Demo

Latest and Greatest in Xamarin.Forms

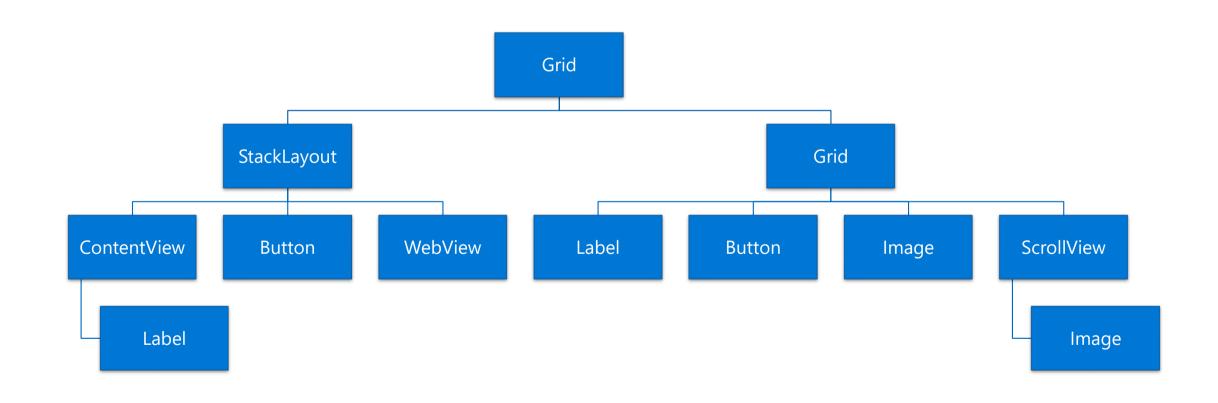
Xamarin.Forms is Open Source!

open.xamarin.com

XAML Previewer

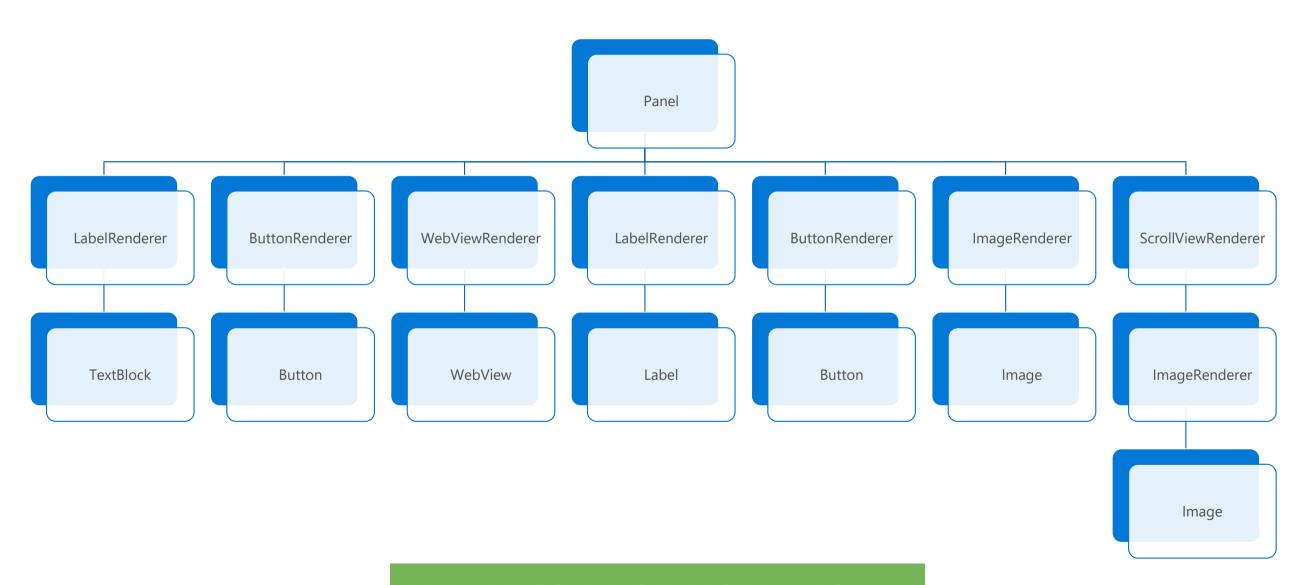


Fast Renderers



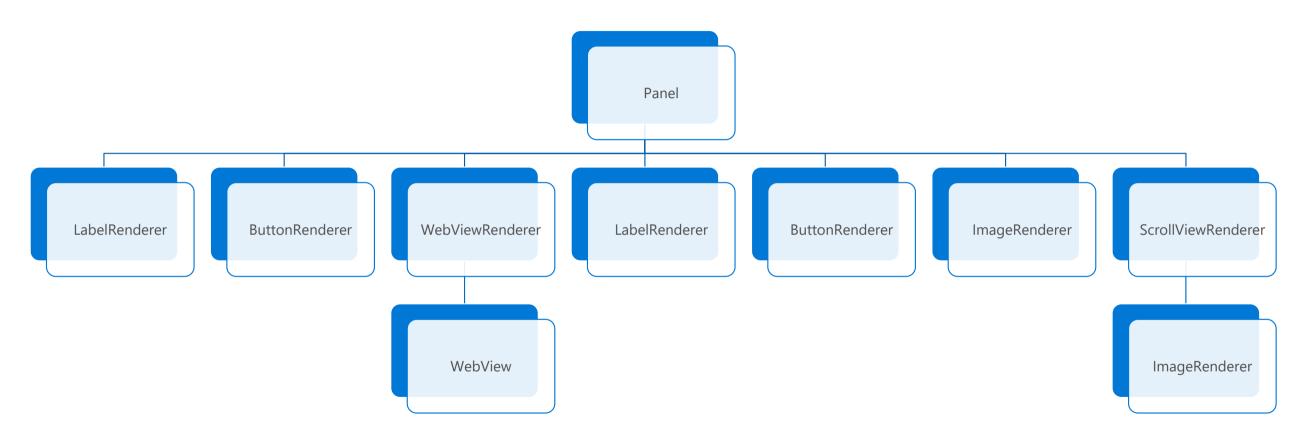
FORMS STRUCTURE

Fast Renderers



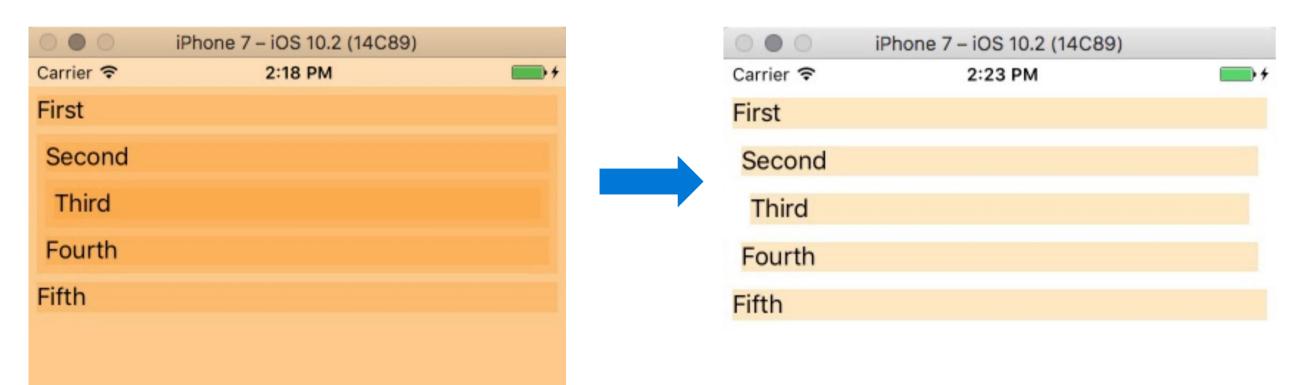
WHAT IS PRODUCED NOW

Fast Renderers

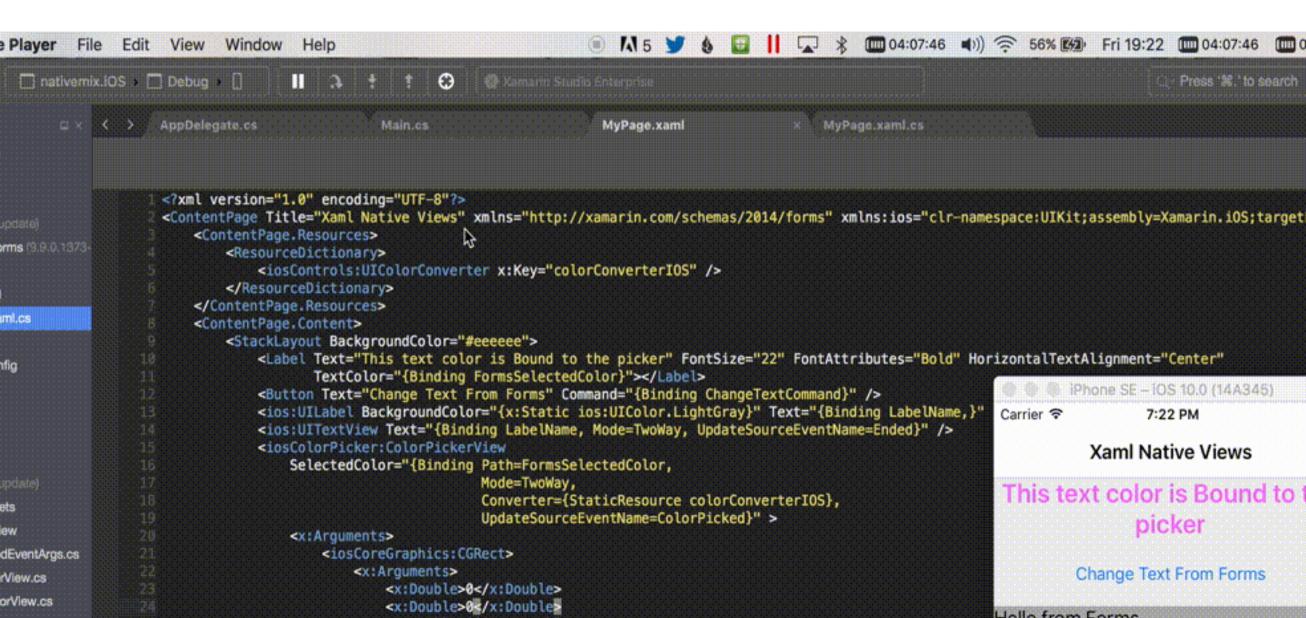


AFTER FAST RENDERERS + COMPRESSION

Layout Compression

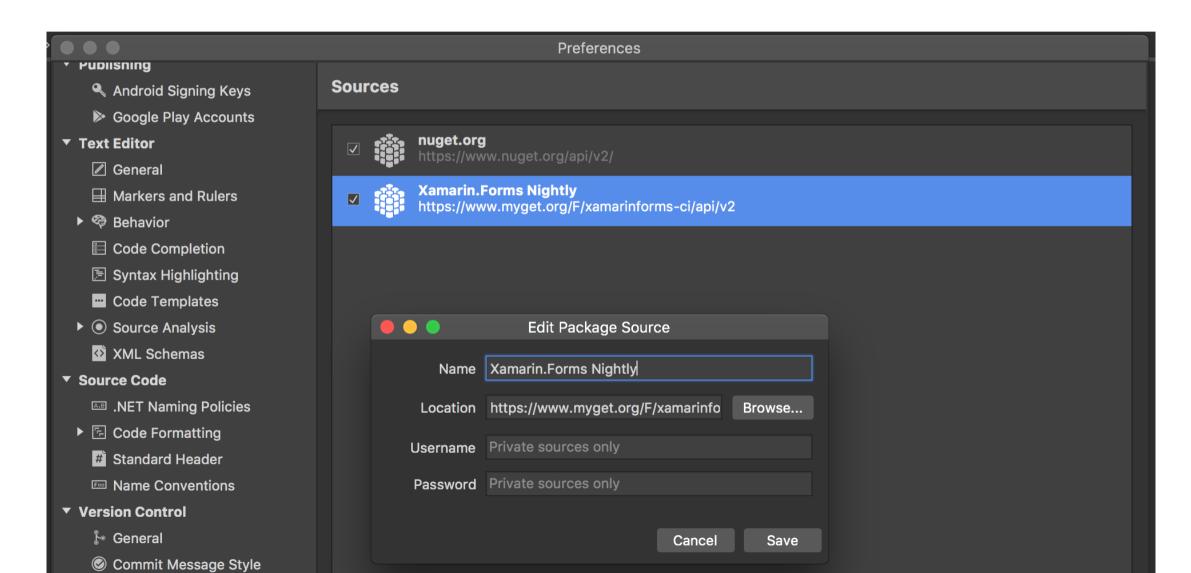


Native View Declarations



Nightly Builds

https://github.com/xamarin/Xamarin.Forms/wiki/Nightly-Builds



More Performance Enhancements

- Android Startup
- Reduce Android GPU Overdraw
- Single DLL

15 Minute Break

Presenter First Name Presenter Last Name Presenter Title