



Agenda

1. Why use XAML?
2. How to create a XAML Page
3. Adding Behavior



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Why use XAML?

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Working in Markup

HTML has taught us that markup languages are a great way to define user interfaces

- > toolable
- > human readable
- > extensible

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```
<!DOCTYPE html PUBLIC  
<html xmlns="http://www  
<head>  
  <meta name="TITLE"  
  <meta http-equiv="C  
  <meta name="keyword  
  <meta name="descrip
```

Extensible Application Markup Language (XAML)

XAML

Xamarin Forms + XAML =
Sweetness!

Benefits

Separation of UI
from Behavior

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XAML

Agenda

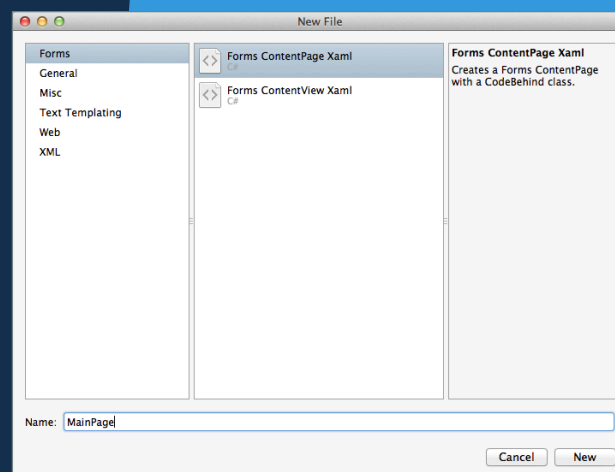
- ~~1. Why use XAML?~~
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Creating Pages in XAML

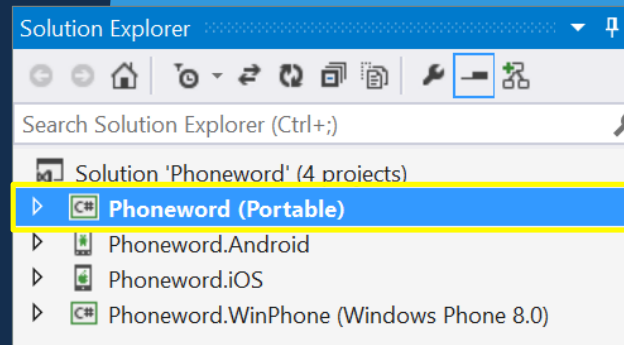
Templates in Visual Studio and Xamarin Studio are used to add XAML content and come in two forms



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Where does the XAML go?

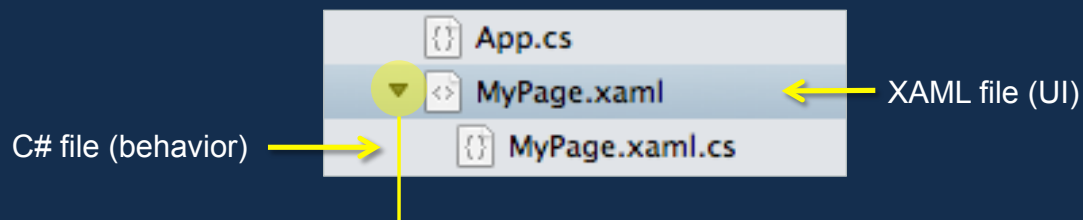
You should always add the XAML content to the *platform-independent* part of your application – this is **shared UI and code** for all your target platforms!



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What gets created?

- XAML pages have two related files which work together to define the class

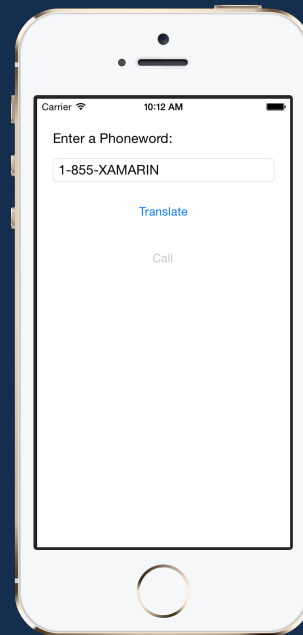


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Let's create a UI

Our goal is to build the UI for a Phone Translation application with a:

- Label (Enter a Phoneword:)
- Entry (1-8555-XAMARIN)
- Button (Translate)
- Button (Call)



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Describing a screen in XAML

XML based: case sensitive, open tags must be closed, etc.

```

<?xml version="1.0" encoding="UTF-8" ?>
<ContentPage ...>
  <StackLayout Padding="20" Spacing="10">
    <Label Text="Enter a Phoneword:" />
    <Entry Placeholder="Number" />
    <Button Text="Translate" />
    <Button Text="Call" IsEnabled="False" />
  </StackLayout>
</ContentPage>

```

Element tags create objects →

Child nodes are used to establish relationships →

Attributes set properties ↑

C# file contains the behavior for the screen

```
public partial class MyPage : ContentPage
{
    public MyPage ()
    {
        InitializeComponent ();
    }
}
```

↑
Constructor loads XML and creates UI from XAML

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Demo

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Naming elements

Use **x:Name** to associate a field to an element in your code behind file

```
<Entry x:Name="PhoneNumber" Placeholder="Number" />
```

.xaml

```
public partial class MainPage : ContentPage
{
    private Entry PhoneNumber;
    ...
}
```

.CS

field is created for you and is hidden away in another file

Event Handling in XAML

Can wire up to **UI events** in XAML, **handler** must be in the code-behind file

```
<Button Content="Translate" ...  
        Clicked="OnTranslateClicked" />
```

.xaml

```
void OnTranslateClicked(object sender, EventArgs e)  
{  
    Button button = (Button)sender;  
    ...  
}
```

.CS

handler is *not* created for you .. must add this yourself!

Demo

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Summary

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Questions?

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A presentation slide for Xamarin Evolve 2014. On the left is a portrait of Mark Smith, a man with short brown hair, smiling, wearing a grey zip-up jacket with the Xamarin logo on the sleeve. The background of the slide is dark blue with a subtle bokeh effect. The text 'Xamarin Evolve 2014' is in the top right. The title 'Cross Platform Development' is in large white font in the center right. At the bottom right, it says 'Mark Smith' and 'mark.smith@xamarin.com' in white, followed by the Xamarin logo (a white 'X' in a hexagon) and 'Xamarin University' in white.

Xamarin Evolve 2014

Cross Platform Development

Mark Smith
mark.smith@xamarin.com

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