

Introduction to XAML Don't Fear the Markup

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Level: Introductory

Next Generation Skills for Developers



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What is XAML?

- XAML = eXtensible Application Markup Language
- Classes/objects as markup
- Gets compiled to IL (just like C#)

- Various Environments
 - WPF
 - WinUI 3
 - MAUI
 - Uno Platform / Avalonia Ul

XAML Markup

- Namespaces
- Classes / Code Behind
- Properties as Attributes
- Properties as Nested Elements
- Attached Properties

- Comments
- TypeConverter-Enabled Properties
- Content
- Control Styles / Templates
- Data Binding Syntax

Namespaces

Built-in Namespaces

```
xmlns="http://schemas.microsoft.com/winfx/2006/xaml/presentation"
xmlns:x="http://schemas.microsoft.com/winfx/2006/xaml"
```

Custom Namespaces

xmlns:local="clr-namespace:WPFStopWatch"

Classes / Code Behind

Class in XAML

```
<Window x:Class="WPFStopWatch.MainWindow" ...>
</Window>
```

Class in Code

```
public partial class MainWindow : Window {...}
```

Properties as Attributes

Window Properties

Properties as Nested Elements

Grid.RowDefinitions

Attached Properties

Grid.Row

Property belongs to the Grid but is attached to the StackPanel

Comments

Just Like HTML / XML Comments

TypeConverter-Enabled Properties

Margin / Padding – Type Thickness

```
<Button x:Name="ClearButton"

Margin="6" Padding="10,3"

Content="Clear"

Click="ClearButton_Click"/>
```

```
Thickness

Left = 10

Top = 3

Right = 10

Bottom = 3
```

Background / Foreground - Type Brush
 Background="#FF333333" Foreground="White"

Content 3 Ways

Nested Element

- Default Content<Button x:Name="StopButton">Stop</Button>

Control Styles

- Target Type required
- x:Key optional
 - With x:Key, the style must be specified on each control
 - Without x:Key, the style applies to all controls of that type

Using a Static Resource

Specifying a Control Style

```
<Button x:Name="ClearButton"
Content="Clear"

Style="{StaticResource AppButtonStyle}"
/>
```

Adding a Custom Class to Markup

Class as a resource

```
<Window.Resources>
      <local:Ticker x:Key="LocalTicker" />
</Window.Resources>
```

• The class must have a no-parameter constructor

Data Binding

- DataContext Property: where the data comes from
- Binding Markup Extension: where the property value comes from
 - Note: Data Binding is extremely flexible.

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Thank You!

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https://github.com/jeremybytes/vslive2025-sandiego