

Understanding XAML Type Conversion



Thomas Claudius Huber

SOFTWARE DEVELOPER

@thomasclaudiush www.thomasclaudiushuber.com



Module Outline



How the XAML processor converts types

Ways to set the Customer property

- Property Element Syntax
- Content Syntax
- Attribute Syntax

Convert from string to Customer

- UWP
- WPF



How the XAML Processor Converts Types

```
XAML <Button Content="Add customer"  
        Width="200"  
        VerticalAlignment="Top" />
```

```
C#    var btn = new Button  
        {  
            Content = "Add customer",  
            Width = 200,  
            VerticalAlignment = VerticalAlignment.Top  
        };
```



How the XAML Processor Converts Types

**In XAML every
attribute value is
by default a string**

**XAML processor
converts primitive
types like bool,
int, and double**

**XAML processor
converts
enumeration
values**



How the XAML Processor Converts Types

```
XAML <Button Margin="10 5 0 0"  
        Background="Black" />
```

```
C#    var btn = new Button  
    {  
        Margin = new Thickness(10, 5, 0, 0),  
        Background = new SolidColorBrush(  
            Colors.Black)  
    };
```



Where is the conversion
logic defined?



How the XAML Processor Converts Types

UWP

**Integrated in the
XAML processor**

WPF

**Specified with
TypeConverters**



How the XAML Processor Converts Types

```
<controls:CustomerDetailControl  
    Customer="Thomas,Huber,true" />
```



Demo



Ways to set the Customer property

- Property Element Syntax
- Content Syntax
- Attribute Syntax



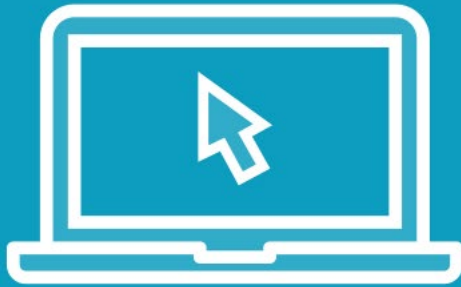
Demo



Convert from string to Customer in UWP



Demo



Convert from string to Customer in WPF



Summary



XAML processor converts strings to types

Ways to set the Customer property

- Property Element Syntax
- Content Syntax
- Attribute Syntax

Convert from string to Customer

- UWP
- WPF

