



MODULE 16 FORMATTING BOUND DATA

MODULE TOPICS

Formatting Bound Data
StringFormat Property
Value Converters
Data Templates

STRINGFORMAT PROPERTY

- StringFormat Property is the perfect tool for formatting numbers that need to be displayed as text
- The Binding.StringFormat property can be used to convert the raw text to its display value just before it appears in the control
- When setting the StringFormat property, you use standard .NET format strings

STRINGFORMAT PROPERTY

```
<TextBlock Text="{Binding Path=UnitCost,
    StringFormat={}{0:C}}" />

<TextBlock Text="{Binding Path=Date,
    StringFormat={}{0:MM/dd/yyyy}}" />

<TextBlock Text="{Binding Source={x:Static system:DateTime.Now},
    StringFormat=Time: {0:HH:mm}}" />
```

VALUE CONVERTERS

- A value converter is responsible for converting the source data just before its displayed in the target and converting the new target value just before it's applied back to the source
- Create a class that implements IValueConverter
 - Add the ValueConversion attribute to the class
 - Implement a Convert() method
 - Implement a ConvertBack() method

VALUE CONVERTERS

```
[ValueConversion(typeof(decimal), typeof(string))]
public class PriceConverter : IValueConverter
    public object Convert(object value, Type targetType, object parameter,
        decimal price = (decimal) value;
        return price. ToString("c", culture);
    public object ConvertBack(object value, Type targetType, object paramete
        string price = value.ToString();
        decimal result;
        if (Decimal.TryParse(price, System.Globalization.NumberStyles.Any,
```

VALUE CONVERTERS

- Define an instance of the converter as a resource
- Set the Converter property of the target element binding

DATA TEMPLATES

 A data template is a chunk of XAML that defines how a bound data object should be displayed

```
<ListBox Name="CustomersListBox" MouseDoubleClick="CustomersListBox MouseDoubleC"</pre>
    <ListBox.ItemTemplate>
        <DataTemplate>
            <Border Margin="5" BorderThickness="1" BorderBrush="SteelBlue" Corne</pre>
                <StackPanel>
                     <TextBlock Text="{Binding Path=ContactName} FontWeight="Bold
                     <TextBlock Text="{Binding Path=CompanyName}"/>
                </StackPanel>
            </Border>
        </DataTemplate>
    </ListBox.ItemTemplate>
</ListBox>
```

DATA TEMPLATES

Data Templates can also be stored as a reusable resource

ANY QUESTIONS?