



MODULE 15 CONTROL TEMPLATES

MODULE TOPICS

Logical and Visual Trees
Creating Control Templates
Templates vs. Styles

LOGICAL AND VISUAL TREES

- The elements you add to a window form the logical tree
 - Property value inheritance, event routing, and styling work through the logical tree
- To allow for the customization of elements, WPF goes deeper with the visual tree
 - A visual tree is an expanded version of the logical tree
 - Breaks elements into smaller pieces

VIEWING THE VISUAL TREE

- Use the Live Visual Tree and Live Property Explorer Windows
- While app is running
 - Debug | Windows | Live Visual Tree
 - Debug | Windows | Live Property Explorer

CREATING CONTROL TEMPLATES

```
<Style TargetType="Button">
   <Setter Property="Template">
        <Setter. Value>
            <ControlTemplate TargetType="Button">
                <Border>
                     <Border.Style>
                         <Style TargetType="{x:Type Border}">
                             <Setter Property="Control.Background" Value="Orange"</pre>
                             <Style.Triggers>
                                 <Trigger Property="IsMouseOver" Value="True">
                                      <Setter Property="Background" Value="Yellow"</pre>
                                 </Trigger>
                             </Style.Triggers>
                         </Style>
```

TEMPLATES VS. STYLES

- Both templates and styles allow you to change the appearance of an element
- Styles can only adjust properties
- Templates can replace an entire visual tree

ANY QUESTIONS?