Styles



Outline

- Styles and Properties
- Resources
- Triggers
- Styling, templates, & controls



Styles

Style of Elements

WPF has a styling mechanism which, in some respects, resembles that found in word processing software such as Microsoft Word. Styles offer a convenient way of applying a consistent look and feel across an application

through the use of named sets of visual attributes and settings.

For example, we might define a set of paragraph styles for headings. We might also define a style with a monospaced font for representing code samples.



Styles and Properties

Styles set properties

```
<Style>
  <Setter Property="Control.FontFamily" Value="Segoe Script" />
  <Setter Property="Control.Foreground" Value="DarkRed" />
  </Style>
```



Resources



Extending Styles



Styles vs Local Properties

- Properties supplied by style are inherited
- Can mix of setter target types
 - Inapplicable properties ignored



Triggers



Animation Triggers (Properties)

```
<Style x:Key="mixed">
  <Setter Property="TextElement.FontFamily" Value="Palatino Linotype" />
  <Style.Triggers>
    <Trigger Property="UIElement.IsMouseOver" Value="True">
      <Trigger.EnterActions>
        <BeginStoryboard>
          <Storyboard>
            <DoubleAnimation Duration="0:0:2" To="75"</pre>
                Storyboard.TargetProperty="(TextElement.FontSize)" />
          </Storyboard>
        </BeginStoryboard>
      </Trigger.EnterActions>
      <Trigger.ExitActions>
        <BeginStoryboard>
          <Storyboard>
            <DoubleAnimation
                Storyboard.TargetProperty="(TextElement.FontSize)" />
          </Storyboard>
        </BeginStoryboard>
      </Trigger.ExitActions>
    </Trigger>
  </Style.Triggers>
```



Animation Triggers (Events)

```
<Style x:Key="mixed">
  <Setter Property="TextElement.FontFamily" Value="Palatino Linotype" />
  <Style.Triggers>
    <EventTrigger RoutedEvent="UIElement.MouseEnter">
      <BeginStoryboard>
        <Storyboard>
          <DoubleAnimation Duration="0:0:2" To="75"</pre>
              Storyboard.TargetProperty="(TextElement.FontSize)" />
        </Storyboard>
      </BeginStoryboard>
    </EventTrigger>
  </Style.Triggers>
</Style>
```



Items Container Style

- ItemsControls generate container
 - □ ListBox → ListBoxItem
 - □ TreeView → TreeViewItem
 - □ etc.
- ItemContainerStyle applied to container



Styles, Templates, and Controls

- Theming typically uses styles
 - Setter for Template
- Templates reflect properties



Summary

- Styles and Properties
- Resources
- Triggers
- Styling, templates, & controls

