

# 05 | Working with Resources, Styles, and Templates

Jerry Nixon | Microsoft Developer Evangelist Daren May | President & Co-founder, Crank211



# Module Agenda

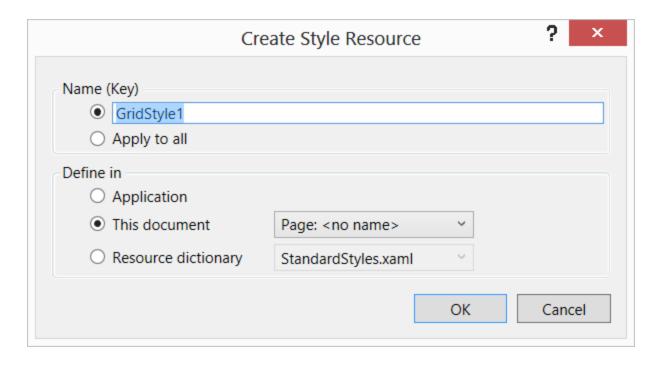
- Resources
- Styles
- Templates



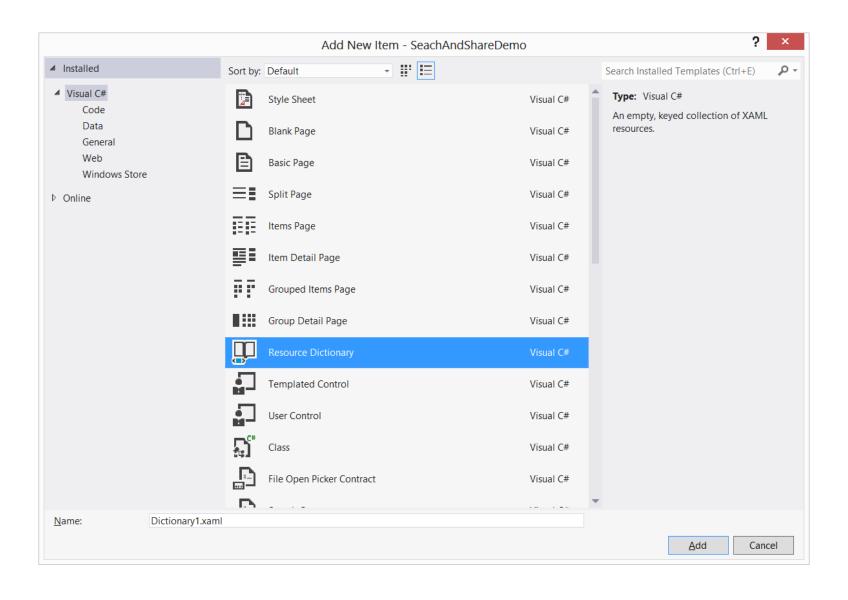
#### What is a resource?

- Types of resources
  - Constants
    - Colors
    - Font sizes
    - More...
  - Styles
  - Templates
    - Control templates
    - Data templates

#### Resource Scope



#### Resource Dictionary



#### Merged Dictionaries

```
<Application.Resources>
    <ResourceDictionary>
        <ResourceDictionary.MergedDictionaries>
            <!-- standard resource file -->
            <ResourceDictionary Source="Common/StandardStyles.xaml"/>
            <!-- custom resource file -->
            <ResourceDictionary Source="Common/CustomStyles.xaml"/>
        </ResourceDictionary.MergedDictionaries>
    </ResourceDictionary>
</Application.Resources>
```

MVA Microsoft Virtual Academy

Styles

Microsoft Virtual Academy

#### Typed Styles

```
<Grid>
    <Grid.Resources>
        <Style TargetType="TextBox">
            <Setter Property="Background" Value="Blue" />
            <Setter Property="Foreground" Value="White" />
        </Style>
    </Grid.Resources>
    <TextBox Text="Hello World"
             Foreground="Yellow" />
</Grid>
```

#### Named Styles

```
<Grid>
    <Grid.Resources>
        <Style TargetType="TextBox" x:Name="MyRedTextBox">
            <Setter Property="Background" Value="Blue" />
            <Setter Property="Foreground" Value="White" />
        </Style>
    </Grid.Resources>
    <TextBox Text="Hello World"
             Style="{StaticResource MyRedTextBox}" />
</Grid>
```

#### Based On Styles

```
<Style TargetType="TextBox" x:Name="MyTextBoxBase">
    <Setter Property="FontFamily" Value="Segoe UI" />
    <Setter Property="FontSize" Value="35" />
</Style>
<Style TargetType="TextBox" x:Name="MyRedTextBox"</pre>
       BasedOn="{StaticResource MyTextBoxBase}">
    <Setter Property="Foreground" Value="Red" />
    <Setter Property="Background" Value="White" />
</Style>
<Style TargetType="TextBox" x:Name="MyWhiteTextBox"</pre>
       BasedOn="{StaticResource MyTextBoxBase}">
    <Setter Property="Background" Value="White" />
    <Setter Property="Foreground" Value="Black" />
</Style>
```

#### Complex Styles

### DEMO



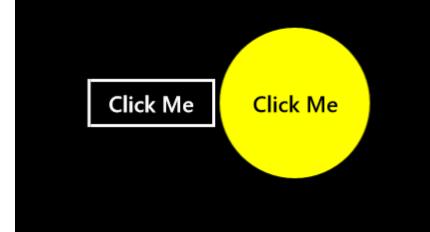
Styles



#### Composing controls

- Control Style
- Control Template
- Item Data Template
- Items Panel Template
- GroupStyle Templates
  - Header
  - Panel
- More ...

#### Control template



```
<!-- button 1 -->
<Button Content="Click Me" />
<!-- button 2 -->
<Button Content="Click Me">
    <Button.Template>
        <ControlTemplate>
            <Grid>
                <Ellipse Height="100" Width="100" Fill="Yellow" />
                <ContentPresenter Content="{Binding}" />
            </Grid>
        </ControlTemplate>
    </Button.Template>
</Button>
```

#### Data Template

#### Items Panel Template

#### 123

```
<ItemsControl>
    <ItemsControl.ItemsPanel>
        <!-- items panel template -->
        <ItemsPanelTemplate>
            <StackPanel Orientation="Horizontal" />
        </ItemsPanelTemplate>
    </ItemsControl.ItemsPanel>
    <ItemsControl.ItemTemplate>
        <DataTemplate>
            <TextBlock FontSize="50" Text="{Binding}" />
        </DataTemplate>
    </ItemsControl.ItemTemplate>
    <x:Int32>1</x:Int32>
    <x:Int32>2</x:Int32>
    <x:Int32>3</x:Int32>
</ItemsControl>
```

# DEMO Microsoft

Templates & GridView

## Module Recap

- Resources
- Styles
- Templates



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