



Windows App SDK



Custom Button









Custom Button

Custom Button shows how to create a customised Style for a Button using Windows App SDK

Step 1

Follow **Setup and Start** on how to get **Setup** and **Install** what you need for **Visual Studio 2022** and **Windows App SDK**.

In **Windows 11** choose **Start** and then find or search for **Visual Studio 2022** and then select it.

Once Visual Studio 2022 has started select Create a new project.

Then choose the **Blank App, Packages (WinUl in Desktop)** and then select **Next**.

After that in **Configure your new project** type in the **Project name** as *CustomButton*, then select a Location and then select **Create** to start a new **Solution**.



Step 2

Then in **Visual Studio** within **Solution Explorer** for the **Solution** double-click on **App.xaml** to see the **XAML** for the **Project**.









In the **XAML** for **App.xaml** below the **Comment** of **<!-- Other app resources here -->** type in the following **XAML**:

```
<Style x:Key="CustomButton" TargetType="Button">
    <Setter Property="Background">
        <Setter.Value>
            <LinearGradientBrush StartPoint="0.5,0" EndPoint="0.5,1">
                <GradientStop Offset="0" Color="LightSalmon"/>
                <GradientStop Offset="1" Color="DarkSalmon"/>
            </LinearGradientBrush>
        </Setter.Value>
    </Setter>
    <Setter Property="Template">
        <Setter.Value>
            <ControlTemplate TargetType="Button">
                <Grid>
                    <!-- Visual State Groups -->
                    <!-- Content -->
                </Grid>
            </ControlTemplate>
        </Setter.Value>
    </Setter>
</Style>
```

This **XAML** is part of a **Style** of **CustomButton** that will be used to target a **Button** which will contain some **Visual State Groups** and **Content** for the **Custom Button**.







While still in the **XAML** for **App.xaml** below the **Comment** of **<!-- Visual State Groups -->** type the following **XAML**:

```
<VisualStateManager.VisualStateGroups>
    <VisualStateGroup x:Name="CommonStates">
        <VisualState x:Name="Normal"/>
        <VisualState x:Name="PointerOver">
            <Storyboard>
                <ObjectAnimationUsingKeyFrames Storyboard.TargetName="Inner"
                Storyboard.TargetProperty="(ScaleTransform.ScaleY)">
                    <DiscreteObjectKeyFrame KeyTime="0" Value="-1"/>
                </ObjectAnimationUsingKeyFrames>
                <ObjectAnimationUsingKeyFrames Storyboard.TargetName="Outer"
                Storyboard.TargetProperty="(ScaleTransform.ScaleY)">
                    <DiscreteObjectKeyFrame KeyTime="0" Value="1"/>
                </ObjectAnimationUsingKeyFrames>
            </Storyboard>
        </VisualState>
        <VisualState x:Name="Pressed">
            <Storyboard>
                <ObjectAnimationUsingKeyFrames Storyboard.TargetName="Inner"
                Storyboard.TargetProperty="(ScaleTransform.ScaleY)">
                    <DiscreteObjectKeyFrame KeyTime="0" Value="1"/>
                </ObjectAnimationUsingKeyFrames>
                <ObjectAnimationUsingKeyFrames Storyboard.TargetName="Outer"
                Storyboard.TargetProperty="(ScaleTransform.ScaleY)">
                    <DiscreteObjectKeyFrame KeyTime="0" Value="-1"/>
                </ObjectAnimationUsingKeyFrames>
            </Storyboard>
        </VisualState>
    </VisualStateGroup>
</VisualStateManager.VisualStateGroups>
```

This **XAML** is for the **Visual State Groups** that will represent the **States** for the **Button** including how it will behave when **Normal** and when it is **Pressed** for the **Custom Button**.







Then in the **XAML** for **App.xaml** below the **Comment** of <!-- **Content** --> type the following **XAML**:

This **XAML** is the **Content** for the layout of a **Button** when the **Style** is applied for the **Custom Button**.

Step 6

Within **Solution Explorer** for the **Solution** double-click on **MainWindow.xaml** to see the **XAML** for the **Main Window**.









In the **XAML** for **MainWindow.xaml** there be some **XAML** for a **StackPane1**, this should be **Removed** by removing the following:

```
<StackPanel Orientation="Horizontal"
HorizontalAlignment="Center" VerticalAlignment="Center">
<Button x:Name="myButton" Click="myButton_Click">Click Me</Button>
</StackPanel>
```

Step 8

While still in the XAML for MainWindow.xaml above </Window>, type in the following XAML:

```
<Button HorizontalAlignment="Center" Content="Button"
Height="200" Width="200" Style="{StaticResource CustomButton}"/>
```

This XAML contains a Button with Style set to the StaticResource of CustomButton from App.xaml.

Step 9

Then, within **Solution Explorer** for the **Solution** select the arrow next to **MainWindow.xaml** then double-click on **MainWindow.xaml.cs** to see the **Code** for the **Main Window**.



Step 10

In the **Code** for **MainWindow.xaml.cs** there be a **Method** of **myButton_Click(...)** this should be **Removed** by removing the following:

```
private void myButton_Click(object sender, RoutedEventArgs e)
{
    myButton.Content = "Clicked";
}
```







That completes the **Windows App SDK** application. In **Visual Studio 2022** from the **Toolbar** select **CustomButton (Package)** to **Start** the application.

Step 12

WinUI Desktop

Once running you will see the **Custom Button** displayed.



CustomButton (Package) -

Step 13

To **Exit** the **Windows App SDK** application, select the **Close** button from the top right of the application as that concludes this **Tutorial** for **Windows App SDK** from <u>tutorialr.com</u>!







o ×