



Windows App SDK



Custom Slider

Custom Slider

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

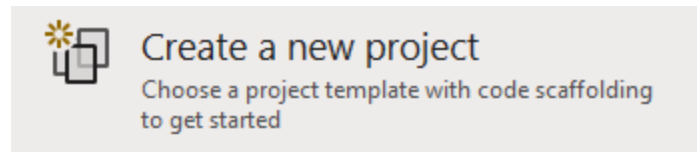
Step 1

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

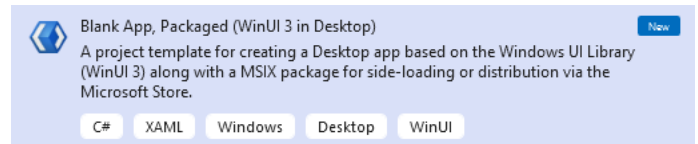
In **Windows 11** choose **Start** and then find or search for **Visual Studio 2022** and then select it.



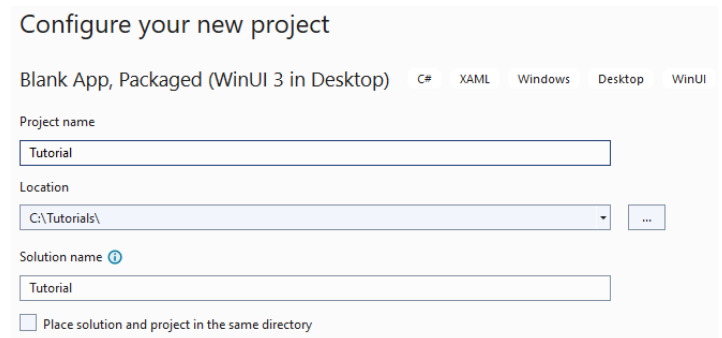
Once **Visual Studio 2022** has started select **Create a new project**.



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

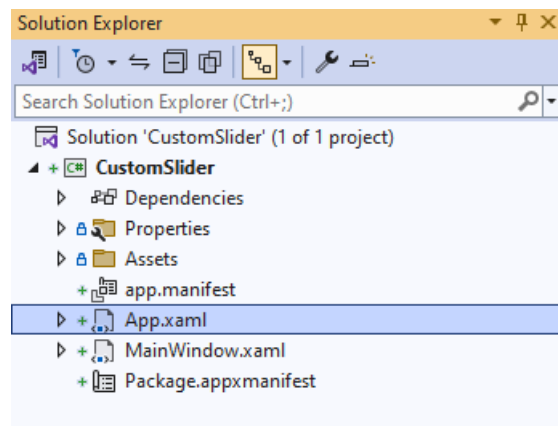


After that in **Configure your new project** type in the **Project name** as *CustomSlider*, then select a Location and then select **Create** to start a new **Solution**.



Step 2

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



Step 3

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

```
<Style x:Key="CustomSlider" TargetType="Slider">
  <Setter Property="Background" Value="LightSalmon"/>
  <Setter Property="BorderBrush" Value="Salmon"/>
  <Setter Property="BorderThickness" Value="2"/>
  <Setter Property="Foreground" Value="Gold"/>
  <Setter Property="Template">
    <Setter.Value>
      <ControlTemplate TargetType="Slider">
        <Grid Margin="{TemplateBinding Padding}">
          <Grid.Resources>
            <Style x:Key="SliderThumbStyle" TargetType="Thumb">
              <Setter Property="BorderThickness" Value="2"/>
              <Setter Property="BorderBrush" Value="Goldenrod"/>
              <Setter Property="Foreground" Value="Gold"/>
              <Setter Property="Template">
                <Setter.Value>
                  <ControlTemplate TargetType="Thumb">
                    <Ellipse StrokeThickness="2"
                      Stroke="{TemplateBinding BorderBrush}"
                      Fill="{TemplateBinding Foreground}"/>
                  </ControlTemplate>
                </Setter.Value>
              </Setter>
            </Style>
          </Grid.Resources>
          <Grid.RowDefinitions>
            <RowDefinition Height="Auto"/>
            <RowDefinition Height="*"/>
          </Grid.RowDefinitions>
          <Grid x:Name="SliderContainer"
            Background="Transparent" Grid.Row="1">
            <!-- Horizontal Template -->

            <!-- Vertical Template -->

          </Grid>
        </Grid>
      </ControlTemplate>
    </Setter.Value>
  </Setter>
</Style>
```

This **XAML** is part of a **Style** of **CustomSlider** that will be used to target a **Slider** which will contain a **Template** for when it is **Horizontal** or **Vertical** for the **Custom Slider**.

Step 4

While still in the **XAML** for **App.xaml** below the **Comment** of `<!-- Horizontal Template -->` type the following **XAML**:

```
<Grid x:Name="HorizontalTemplate">
  <Grid.ColumnDefinitions>
    <ColumnDefinition Width="Auto"/>
    <ColumnDefinition Width="Auto"/>
    <ColumnDefinition Width="*/>
  </Grid.ColumnDefinitions>
  <Grid.RowDefinitions>
    <RowDefinition Height="17"/>
    <RowDefinition Height="Auto"/>
    <RowDefinition Height="17"/>
  </Grid.RowDefinitions>
  <Rectangle x:Name="HorizontalTrackRect"
    Grid.ColumnSpan="3" Fill="{TemplateBinding Background}"
    Grid.Row="1" Height="10" RadiusX="5" RadiusY="5"/>
  <Rectangle x:Name="HorizontalDecreaseRect"
    Fill="{TemplateBinding Background}"
    Grid.Row="1" Height="10" RadiusX="5" RadiusY="5"/>
  <Rectangle x:Name="HorizontalBorder"
    Grid.ColumnSpan="3" Grid.Row="1"
    Stroke="{TemplateBinding BorderBrush}"
    StrokeThickness="{TemplateBinding BorderThickness}"
    Height="10" RadiusX="5" RadiusY="5"/>
  <Thumb x:Name="HorizontalThumb"
    AutomationProperties.AccessibilityView="Raw"
    Background="{ThemeResource SliderThumbBackgroundThemeBrush}"
    Grid.Column="1" DataContext="{TemplateBinding Value}"
    Grid.Row="1" Style="{StaticResource SliderThumbStyle}"
    Height="25" Width="25"/>
</Grid>
```

This **XAML** is for the **Horizontal Template** when the **Slider** is **Horizontal** for the **Custom Slider**.

Step 5

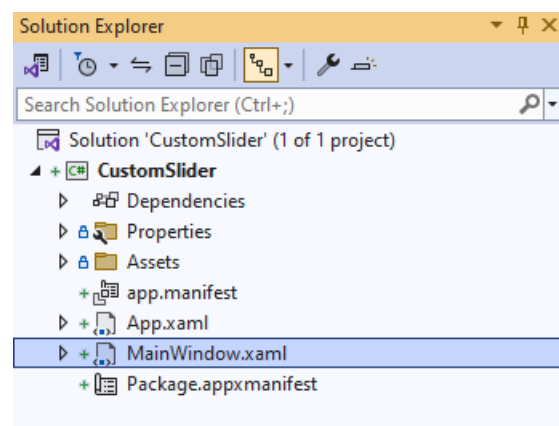
Then in the **XAML** for **App.xaml** below the **Comment** of `<!-- Vertical Template -->` type the following **XAML**:

```
<Grid x:Name="VerticalTemplate" Visibility="Collapsed">
  <Grid.ColumnDefinitions>
    <ColumnDefinition Width="17"/>
    <ColumnDefinition Width="Auto"/>
    <ColumnDefinition Width="17"/>
  </Grid.ColumnDefinitions>
  <Grid.RowDefinitions>
    <RowDefinition Height="*/>
    <RowDefinition Height="Auto"/>
    <RowDefinition Height="Auto"/>
  </Grid.RowDefinitions>
  <Rectangle x:Name="VerticalTrackRect" Grid.Column="1"
  Fill="{TemplateBinding Background}" Grid.RowSpan="3"
  Width="10" RadiusX="5" RadiusY="5"/>
  <Rectangle x:Name="VerticalDecreaseRect" Grid.Column="1"
  Fill="{TemplateBinding Background}" Grid.Row="2"/>
  <Rectangle x:Name="VerticalBorder" Grid.RowSpan="3"
  Grid.Column="1" Stroke="{TemplateBinding BorderBrush}"
  StrokeThickness="{TemplateBinding BorderThickness}"
  Width="10" RadiusX="5" RadiusY="5" />
  <Thumb x:Name="VerticalThumb" AutomationProperties.AccessibilityView="Raw"
  Background="{ThemeResource SliderThumbBackgroundThemeBrush}"
  Grid.Column="1" DataContext="{TemplateBinding Value}" Grid.Row="1"
  Style="{StaticResource SliderThumbStyle}" Height="25" Width="25"/>
</Grid>
```

This **XAML** is for the **Vertical Template** when the **Slider** is **Vertical** for the **Custom Slider**.

Step 6

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



Step 7

In the **XAML** for **MainWindow.xaml** there be some **XAML** for a **StackPanel1**, 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

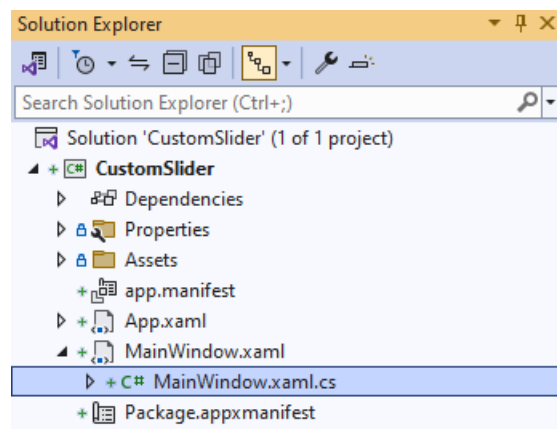
While still in the **XAML** for **MainWindow.xaml** above **</window>**, type in the following **XAML**:

```
<Slider Margin="50" VerticalAlignment="Center"
Style="{StaticResource CustomSlider}"/>
```

This **XAML** contains a **Slider** with **Style** set to the **StaticResource** of **CustomSlider** 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**.



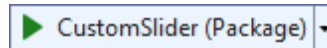
Step 10

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";
}
```

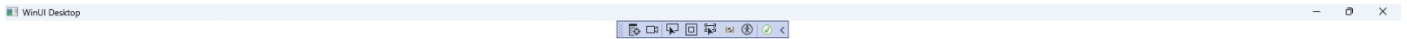
Step 11

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



Step 12

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



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 tutorialr.com!

