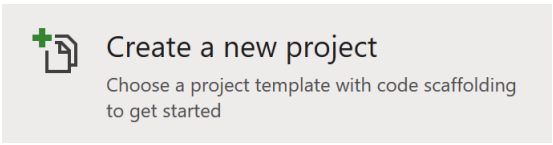
Universal Windows Platform – Acrylic Material

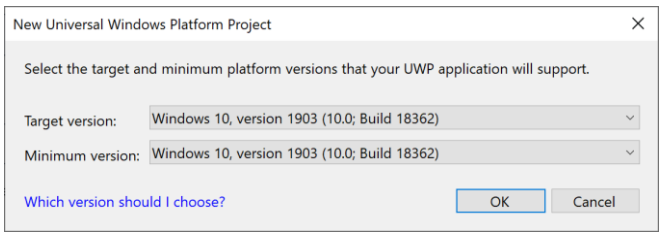
Acrylic Material shows how to use **Acrylic** which is a feature of the **Fluent Design System** in **Windows 10**

Step 1



Follow **Setup and Start** on how to Install and/or Get Started with **Visual Studio 2019** if not already or in **Windows 10** choose **Start**, find and select **Visual Studio 2019** then from the **Get started** screen select **Create a new project**

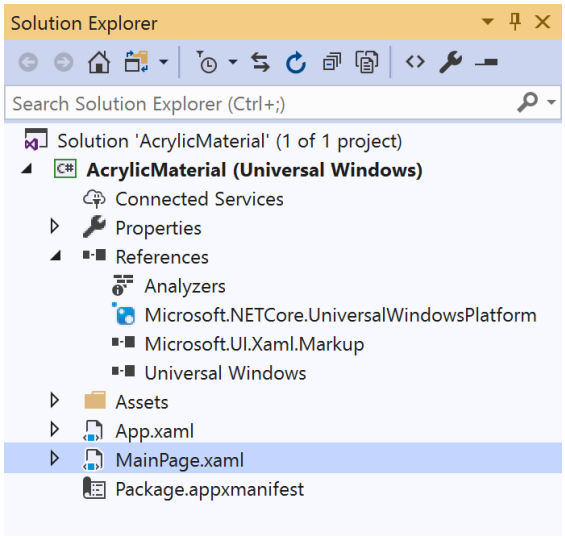
Then choose **Blank App (Universal Windows)** and select **Next** and then in **Configure your new project** enter the **Project name** as **AcrylicMaterial** and select **Create**



Finally, in **New Universal Windows Platform Project** pick the **Target version** and **Minimum version** to be at least **Windows 10, version 1903 (10.0; Build 18362)** and then select **OK**

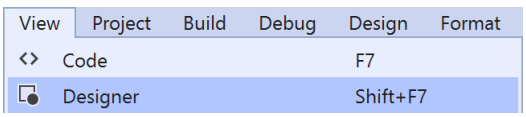
Target Version will control the most recent features of Windows 10 your application can use. To make sure you always have the most recent version, check for any Notifications or Updates in Visual Studio 2019

Step 2



In the **Solution Explorer** of **Visual Studio 2019** select **MainPage.xaml**

Step 3



Choose **View** then **Designer** from the **Menu** in **Visual Studio 2019**

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Step 4

In the **Design** View and **XAML** View of **Visual Studio 2019** will be displayed, and in this between the **Grid** and **/Grid** elements enter the following **XAML**:

```
<Grid Margin="50">
    <Grid.RowDefinitions>
        <RowDefinition Height="Auto"/>
        <RowDefinition Height="*"/>
    </Grid.RowDefinitions>
    <ComboBox Grid.Row="0" Name="Options"
    HorizontalAlignment="Stretch"
    SelectionChanged="Options_SelectionChanged">
        <ComboBoxItem
        Content="None" IsSelected="True"/>
        <ComboBoxItem
        Content="SystemControlAcrylicElementBrush"/>
        <ComboBoxItem
        Content="SystemControlAcrylicElementMediumHighBrush"/>
        <ComboBoxItem
        Content="SystemControlBaseHighAcrylicElementMediumBrush"/>
    </ComboBox>
    <Viewbox Grid.Row="1">
        <Grid>
            <StackPanel Spacing="5" Orientation="Horizontal"
            HorizontalAlignment="Center">
                <Rectangle Width="50" Height="50" Fill="Black"/>
                <Rectangle Width="50" Height="50" Fill="Gray"/>
                <Rectangle Width="50" Height="50" Fill="Red"/>
                <Rectangle Width="50" Height="50" Fill="Orange"/>
                <Rectangle Width="50" Height="50" Fill="Yellow"/>
                <Rectangle Width="50" Height="50" Fill="Green"/>
                <Rectangle Width="50" Height="50" Fill="Cyan"/>
                <Rectangle Width="50" Height="50" Fill="Blue"/>
                <Rectangle Width="50" Height="50" Fill="Magenta"/>
                <Rectangle Width="50" Height="50" Fill="Purple"/>
            </StackPanel>
            <Rectangle x:Name="Overlay"/>
        </Grid>
    </Viewbox>
</Grid>
```

The main block of XAML is a Grid with two Rows, the first Row contains a ComboBox with a selection of Acrylic options and the second Row contains a Grid with Rectangle Controls in a StackPanel and overlayed on them is another Rectangle

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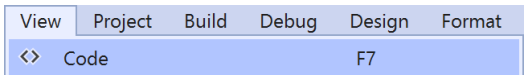
Step 5



Choose **View** then **Code** from the **Menu** in **Visual Studio 2019**

Step 6

Once in the **Code** View, below the end of **`public MainPage() { ... }`** the following Code should be entered:

```
private void Options_SelectionChanged(object sender,
SelectionChangedEventArgs e)
{
    if (Overlay != null && Windows.Foundation.Metadata.
    ApiInformation.IsTypePresent(
    "Windows.UI.Xaml.Media.XamlCompositionBrushBase"))
    {
        string value = (string)((ComboBoxItem)
        Options.SelectedItem).Content;
        Overlay.Fill = (value != "None" ?
        (AcrylicBrush)Application.Current.Resources[value] : null);
    }
}
```

`Options_SelectionChanged` is an event handler that will be triggered when something is selected from the `ComboBox`. It uses the `Windows.Foundation.Metadata.ApiInformation.IsTypePresent` method to check that `Windows.UI.Xaml.Media.XamlCompositionBrushBase` is present which is used for Acrylic and one of the Selected options will be used to set the `Fill` of the Overlay `Rectangle` to an AcrylicBrush

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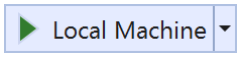
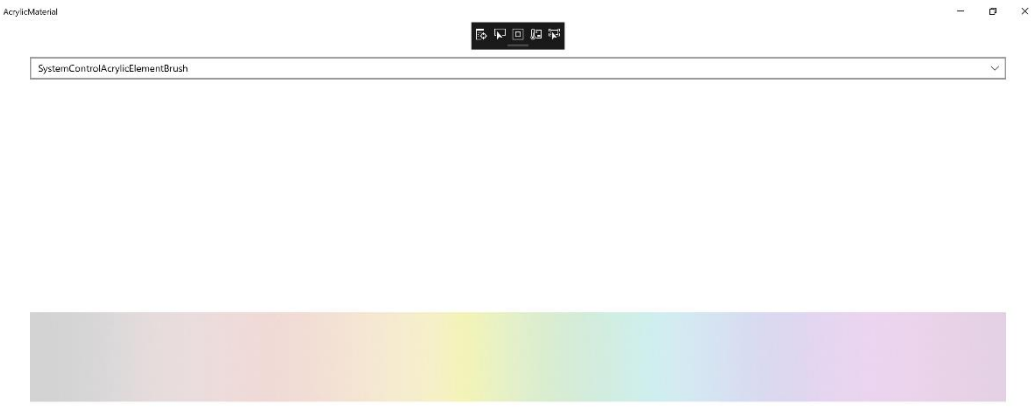
Step 7



That completes the **Universal Windows Platform** Application, in **Visual Studio 2019** select **Local Machine** to run the Application

Step 8

Once the Application is running you can use the **ComboBox** to select an **AcrylicBrush** to use that will be overlaid on the coloured **Rectangle** Controls



Step 9

To Exit the Application, select the **Close** button in the top right of the Application