

内置控件（一）

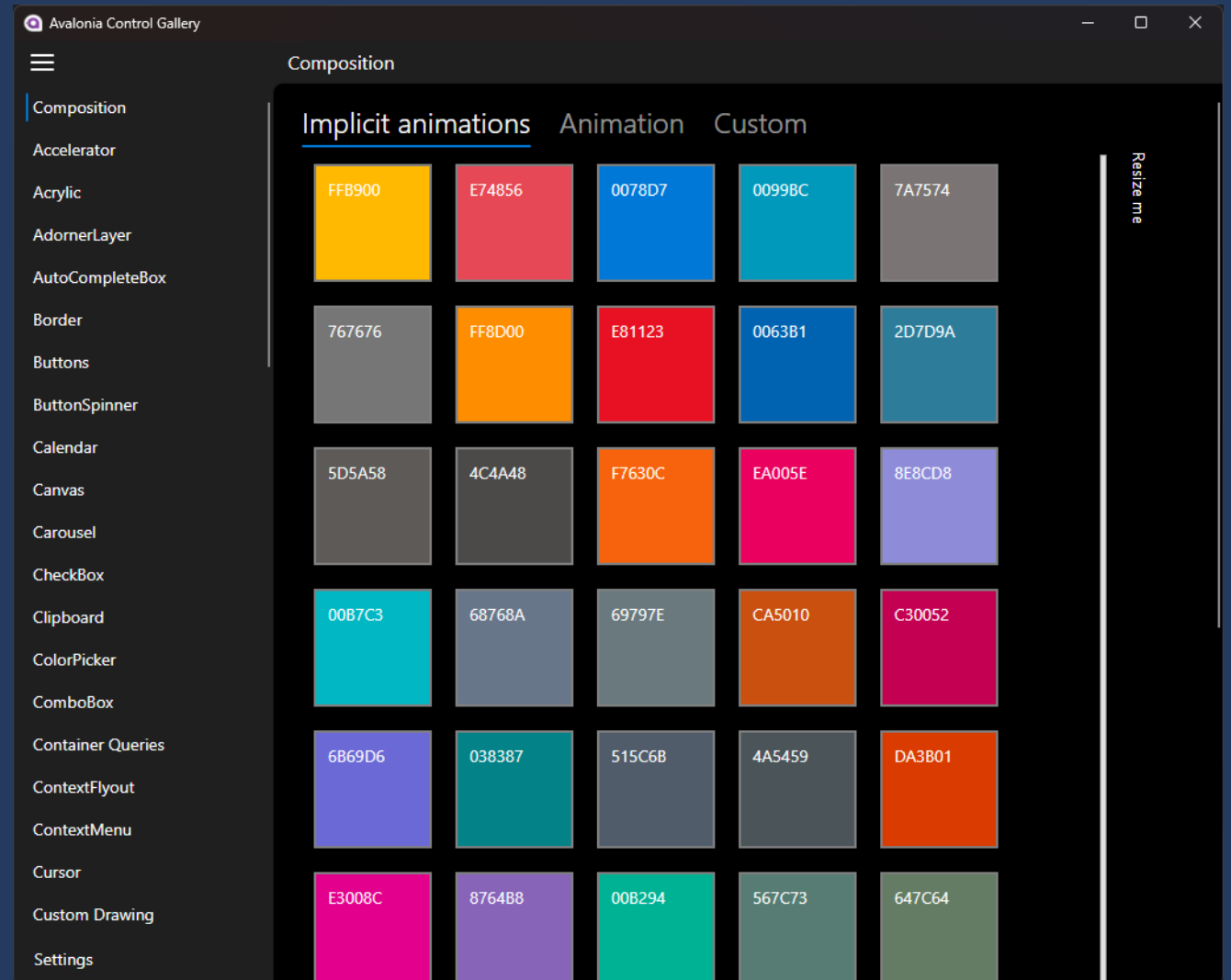
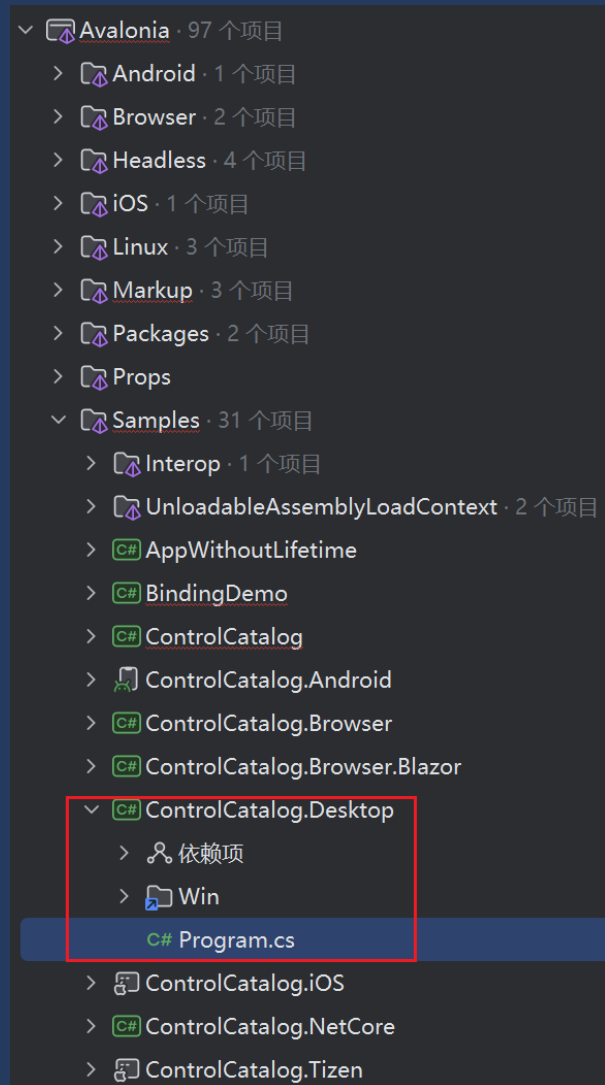
张典

An ordinary Avalonia Developer | IRIHI staff

内置控件

- 文本控件 (TextBlock、SelectableTextBlock)
- 布局控件 (Panel、Grid、StackPanel、DockPanel)
- 按钮 (Button、ToggleButton、RepeatButton)
- 输入控件 (TextBox、ToggleSwitch、NumericUpDown)
- 列表控件 (ItemsControl、ListBox、Carousel)
- 弹出控件 (Popup、Flyout、ToolTip)
- 特殊控件 (Border、PathIcon、Notification)

Control Gallery

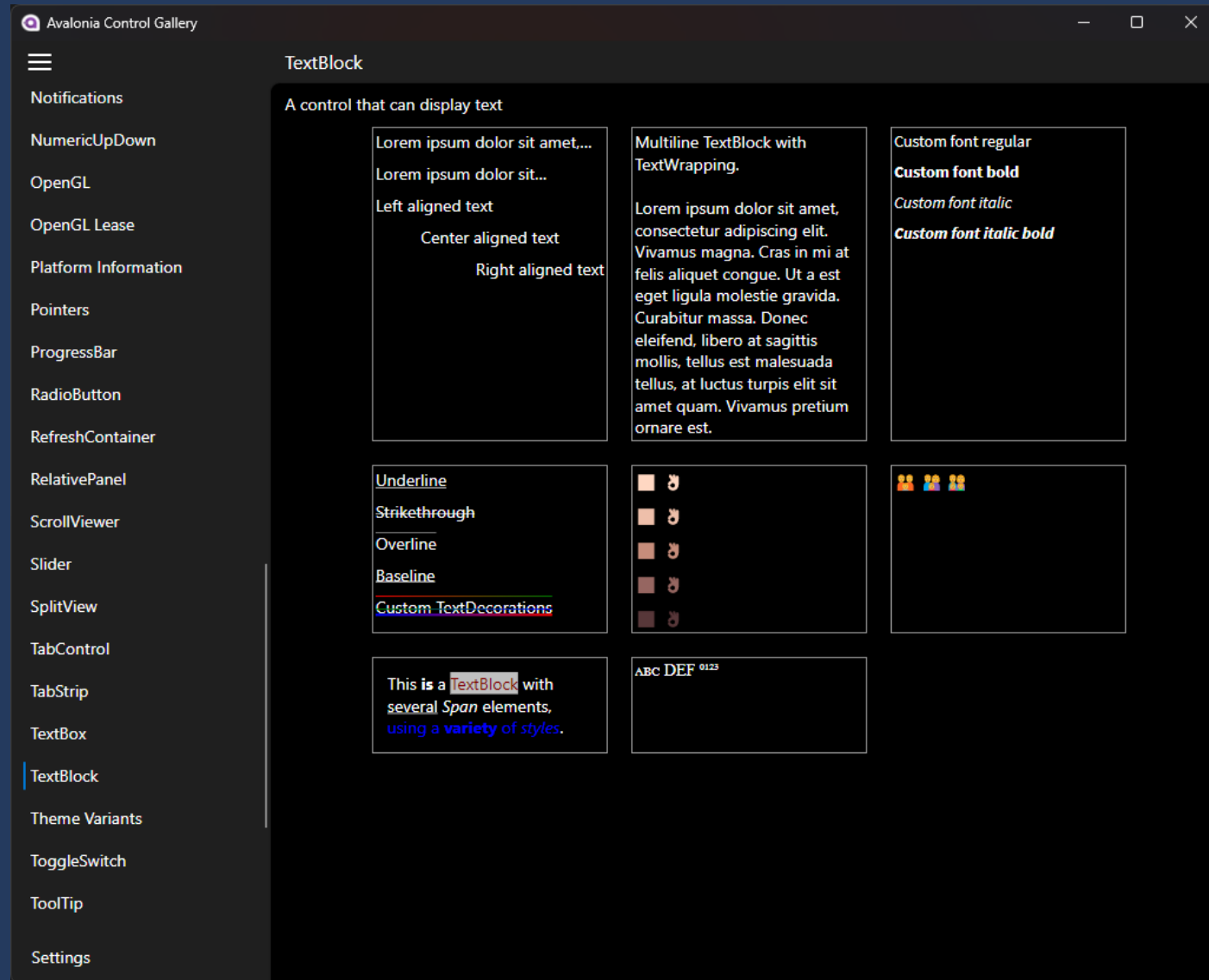


文本控件

TextBlock

- **Text**: 要显示的文本内容。
- **Foreground**: 文本颜色，也叫前景色。
- **FontFamily**、**FontSize**、**FontWeight**、**FontStyle**等字体相关属性，分别表示字体、字号、字重、斜体。
- **TextAlignment**: 文本对齐方式。
- **TextWrapping**: 是否自动换行。

TextBlock



TextBlock

```
<StackPanel Spacing="8">
  <TextBlock Margin=" [l:] 0, [t:] 0, [r:] 10, [b:] 0"
    Text="Lorem ipsum dolor sit amet, consectetur adipiscing elit."
    TextTrimming="CharacterEllipsis" />
  <TextBlock Margin=" [l:] 0, [t:] 0, [r:] 10, [b:] 0"
    Text="Lorem ipsum dolor sit amet, consectetur adipiscing elit."
    TextTrimming="WordEllipsis" />
  <TextBlock Text="Left aligned text" TextAlignment="Left" />
  <TextBlock Text="Center aligned text" TextAlignment="Center" />
  <TextBlock Text="Right aligned text" TextAlignment="Right" />
</StackPanel>
```

Lorem ipsum dolor sit amet,...

Lorem ipsum dolor sit...

Left aligned text

Center aligned text

Right aligned text

TextBlock

```
32 <StackPanel Spacing="8">
33   <TextBlock Text="Multiline TextBlock with
    TextWrapping.&#xD;&#xD;Lorem ipsum dolor sit amet,
    consectetur adipiscing elit. Vivamus magna. Cras
    in mi at felis aliquet congue. Ut a est eget
    ligula molestie gravida. Curabitur massa. Donec
    eleifend, libero at sagittis mollis, tellus est
    malesuada tellus, at luctus turpis elit sit amet
    quam. Vivamus pretium ornare est."
    TextWrapping="Wrap" />
34 </StackPanel>
```

Multiline TextBlock with
TextWrapping.

Lorem ipsum dolor sit amet,
consectetur adipiscing elit.
Vivamus magna. Cras in mi at
felis aliquet congue. Ut a est
eget ligula molestie gravida.
Curabitur massa. Donec
eleifend, libero at sagittis
mollis, tellus est malesuada
tellus, at luctus turpis elit sit
amet quam. Vivamus pretium
ornare est.

TextBlock

```
<StackPanel Spacing="8">
  <TextBlock FontFamily="avares://ControlCatalog/Assets/Fonts#Source Sans Pro"
    FontStyle="Normal"
    FontWeight="Normal"
    Text="Custom font regular" />
  <TextBlock FontFamily="avares://ControlCatalog/Assets/Fonts#Source Sans Pro"
    FontStyle="Normal"
    FontWeight="Bold"
    Text="Custom font bold" />
  <TextBlock FontFamily="/Assets/Fonts/SourceSansPro-Italic.ttf#Source Sans Pro"
    FontStyle="Italic"
    FontWeight="Normal"
    Text="Custom font italic" />
  <TextBlock FontFamily="/Assets/Fonts/SourceSansPro-*.ttf#Source Sans Pro"
    FontStyle="Italic"
    FontWeight="Bold"
    Text="Custom font italic bold" />
</StackPanel>
```

Custom font regular

Custom font bold

Custom font italic

Custom font italic bold

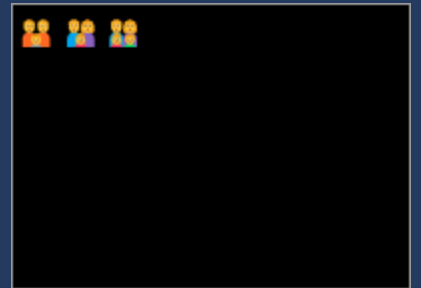
TextBlock

```
<TextBlock Text="Underline" TextDecorations="Underline" />  
<TextBlock Text="Strikethrough" TextDecorations="Strikethrough" />  
<TextBlock Text="Overline" TextDecorations="Overline" />  
<TextBlock Text="Baseline" TextDecorations="Baseline" />
```

Underline
~~Strikethrough~~
Overline
Baseline
Custom TextDecorations

TextBlock

```
<Border>
  <StackPanel Spacing="8">
    <TextBlock Text="■ 🐾" />
    <TextBlock Text="■ 🐾" />
    <TextBlock Text="■ 🐾" />
    <TextBlock Text="■ 🐾" />
    <TextBlock Text="■ 🐾" />
  </StackPanel>
</Border>
<Border>
  <StackPanel Spacing="8">
    <TextBlock Text="👨👩 👨👩 👨👩" />
  </StackPanel>
</Border>
```



TextBlock/SelectableTextBlock

```
<SelectableTextBlock Margin="[all:] 10" TextWrapping="Wrap">
  This <Span FontWeight="Bold">is</Span> a
  <Span Background="■ Silver" Foreground="■ Maroon">TextBlock</Span>
  with <Span TextDecorations="Underline">several</Span>
  <Span FontStyle="Italic">Span</Span> elements,
  <Span Foreground="■ Blue">
    using a <Bold>variety</Bold> of <Italic>styles</Italic>
  </Span>.
</SelectableTextBlock>
```

This is a **TextBlock** with
several *Span* elements,
using a **variety** of styles.

This is a **TextBlock** with
several *Span* elements,
using a **variety** of styles.

Copy

Ctrl+C

TextBlock

```
<TextBlock FontFamily="Times New Roman">  
  <Run Text="ABC" FontFeatures="+c2sc, +smcp" />  
  <Run Text="DEF" />  
  <Run Text="0123" FontFeatures="frac" />  
</TextBlock>
```

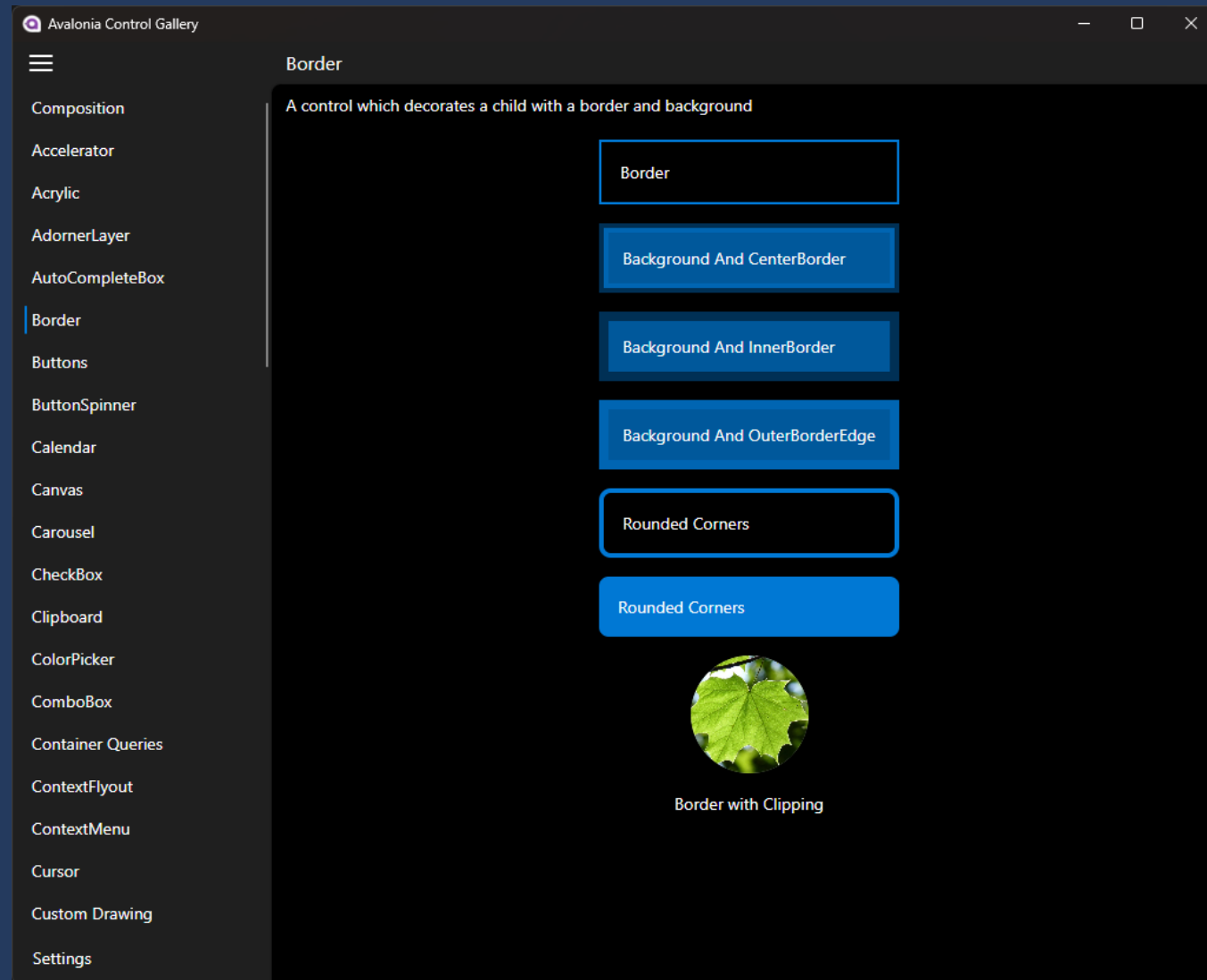
ABC DEF ⁰¹²³

特殊控件——Border

Border


- Background: 背景色。
- BackgroundSizing: 背景图像的渲染方式。
- BorderBrush: 边框的颜色。
- BorderThickness: 边框的粗细, 可以分别设置上下左右的宽度。
- CornerRadius: 圆角半径, 可以让边框变成圆角矩形。
- Padding: 内容与边框之间的内边距。

Border



Border

```
<Border BorderBrush="{DynamicResource ResourceKey= SystemAccentColor}"  
        BorderThickness=" [all:] 2 "  
        Padding=" [all:] 16 ">  
    <TextBlock>Border</TextBlock>  
</Border>
```



Border

Border

```
<Border Background="{DynamicResource ResourceKey= SystemAccentColorDark1}"
        BorderBrush="{DynamicResource ResourceKey= SemiTransparentSystemAccentBrush}"
        BackgroundSizing="CenterBorder"
        BorderThickness=" [all:] 8"
        Padding=" [all:] 12">
    <TextBlock>Background And CenterBorder</TextBlock>
</Border>

<Border Background="{DynamicResource ResourceKey= SystemAccentColorDark1}"
        BorderBrush="{DynamicResource ResourceKey= SemiTransparentSystemAccentBrush}"
        BackgroundSizing="InnerBorderEdge"
        BorderThickness=" [all:] 8"
        Padding=" [all:] 12">
    <TextBlock>Background And InnerBorder</TextBlock>
</Border>

<Border Background="{DynamicResource ResourceKey= SystemAccentColorDark1}"
        BorderBrush="{DynamicResource ResourceKey= SemiTransparentSystemAccentBrush}"
        BackgroundSizing="OuterBorderEdge"
        BorderThickness=" [all:] 8"
        Padding=" [all:] 12">
    <TextBlock>Background And OuterBorderEdge</TextBlock>
</Border>
```

Background And CenterBorder

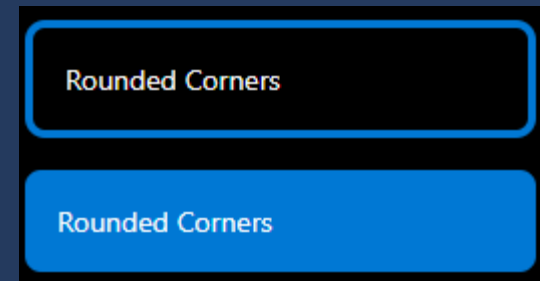
Background And InnerBorder

Background And OuterBorderEdge

Border

```
<Border BorderBrush="{DynamicResource ResourceKey= SystemAccentColor}"
        BorderThickness=" [all:] 4"
        CornerRadius=" [all:] 8"
        Padding=" [all:] 16">
    <TextBlock>Rounded Corners</TextBlock>
</Border>

<Border Background="{DynamicResource ResourceKey= SystemAccentColor}"
        CornerRadius=" [all:] 8"
        Padding=" [all:] 16">
    <TextBlock>Rounded Corners</TextBlock>
</Border>
```



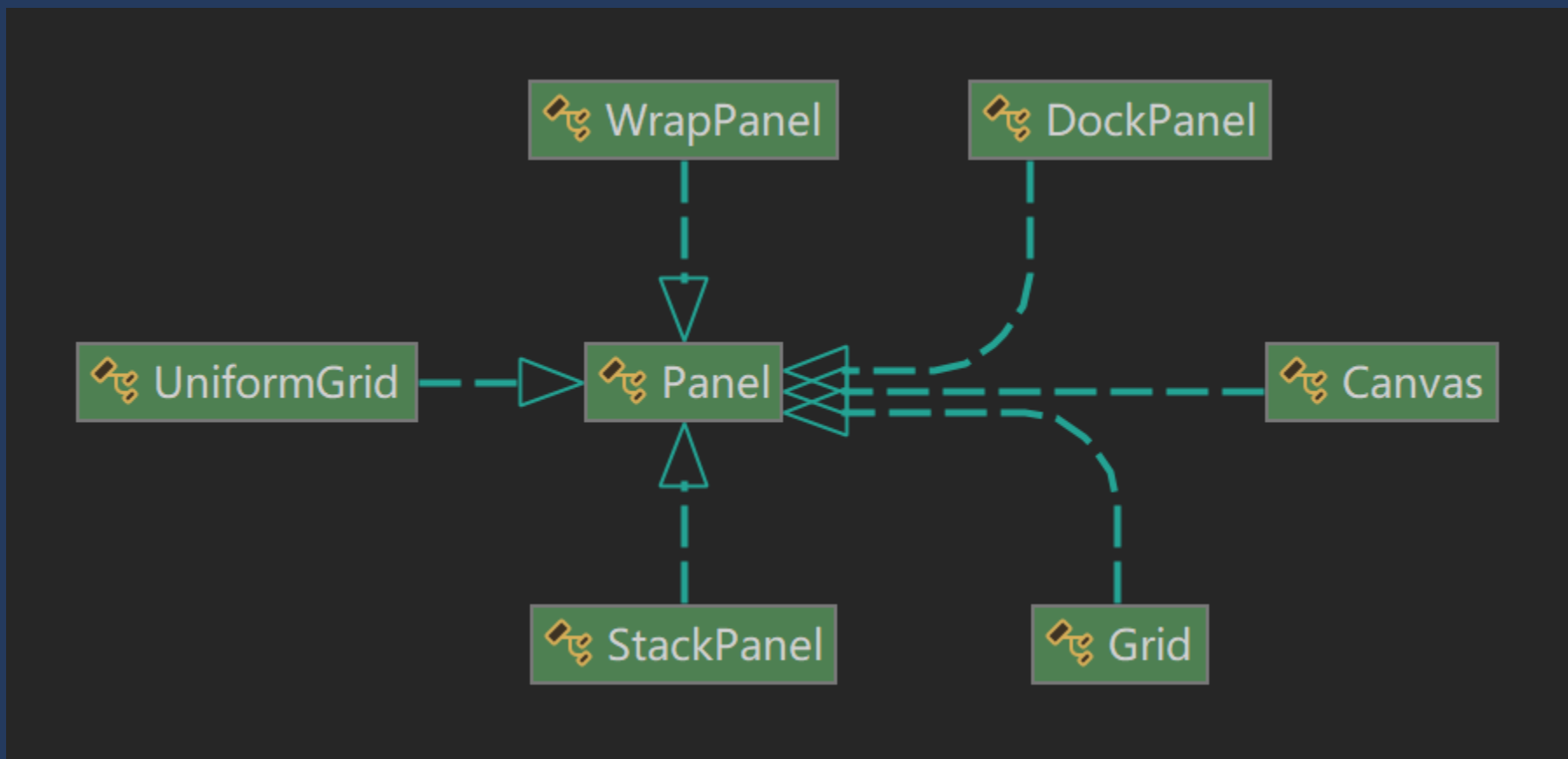
Border

```
<Border Width="100" Height="100"  
    BorderThickness=" [all:] 0"  
    Background=" ■ White"  
    CornerRadius=" [all:] 100" ClipToBounds="True">  
    <Image Source="/Assets/maple-leaf-888807_640.jpg" Stretch="UniformToFill" />  
</Border>
```



布局控件

布局控件



布局控件

```
<StackPanel Orientation="Vertical"
    Margin=" [l:] 0, [t:] 16, [r:] 0, [b:] 0"
    HorizontalAlignment="Center"
    Spacing="16">
```

Border

Background And CenterBorder

Background And InnerBorder

Background And OuterBorderEdge

Rounded Corners

Rounded Corners

布局控件



- Grid & UniformGrid: RowSpacing & ColumnSpacing
- DockPanel: HorizontalSpacing & VerticalSpacing
- WrapPanel: ItemSpacing & LineSpacing

按钮控件

Button

- **Content**: 按钮显示的内容，可以是文本、图片甚至其他控件。
- **Command**: 绑定命令，配合MVVM模式使用。
- **Click**: 点击事件处理器。
- **IsEnabled**: 是否可用。
- **Background**、**Foreground**: 背景色和前景色。

Button

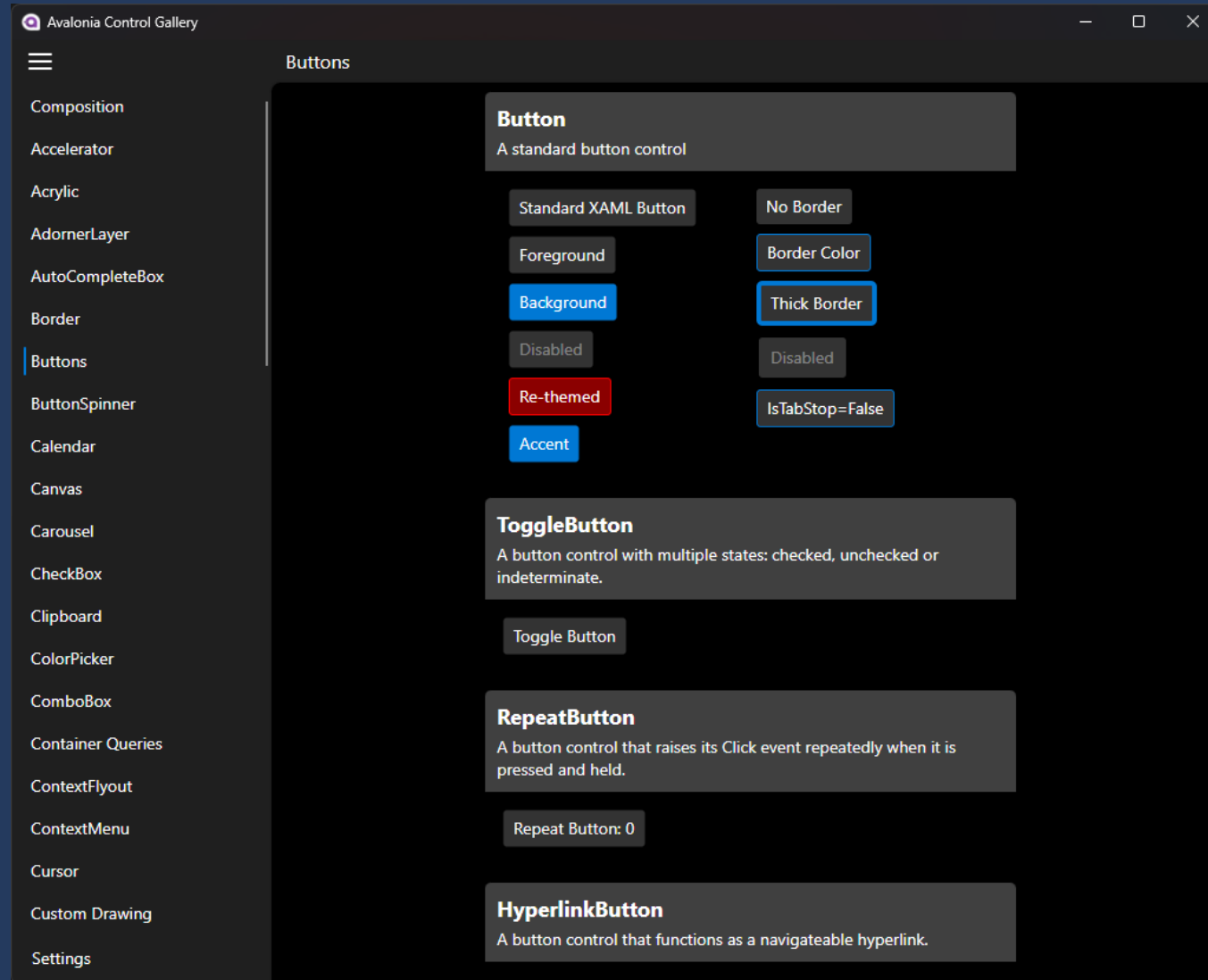
Border相关的属性

- `Background`、`BackgroundSizing`: 背景颜色和背景图像的渲染方式。
- `BoderBrush`、`BorderThickness`: 边框颜色和粗细。
- `CornerRadius`: 圆角半径。

Font相关的属性:

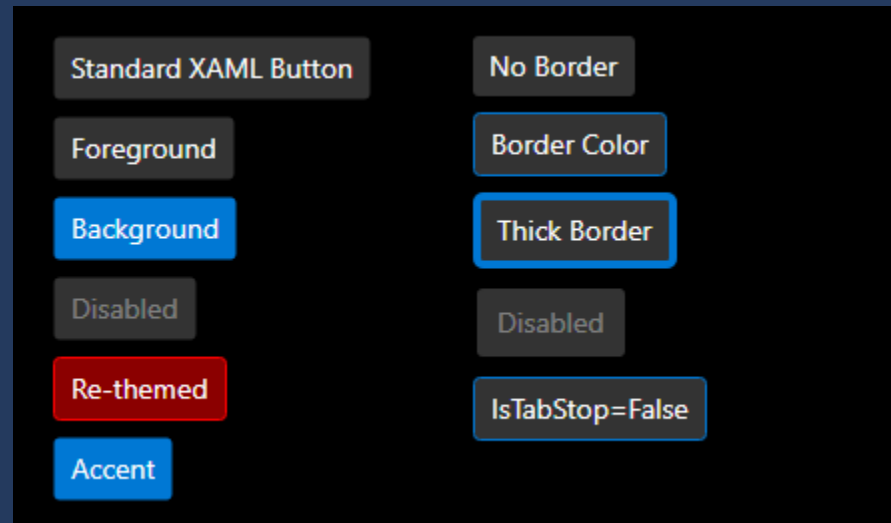
- `FontFamily`: 字体
- `FontSize`: 字号
- `FontWeight`: 字重
- `FontStyle`: 斜体

Button



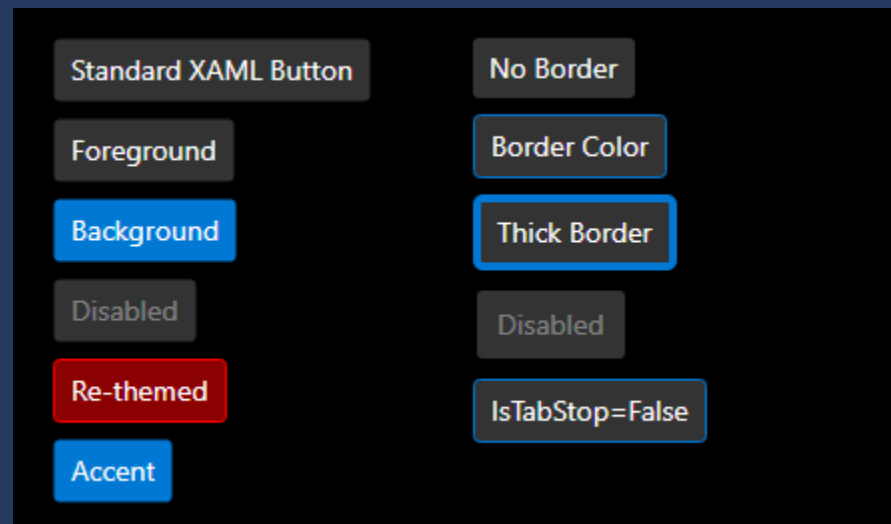
Button

```
<Button>Standard _XAML Button</Button>  
<Button Foreground="■ White">Foreground</Button>  
<Button Background="{DynamicResource ResourceKey= SystemAccentColor}">Background</Button>  
<Button IsEnabled="False">Disabled</Button>
```

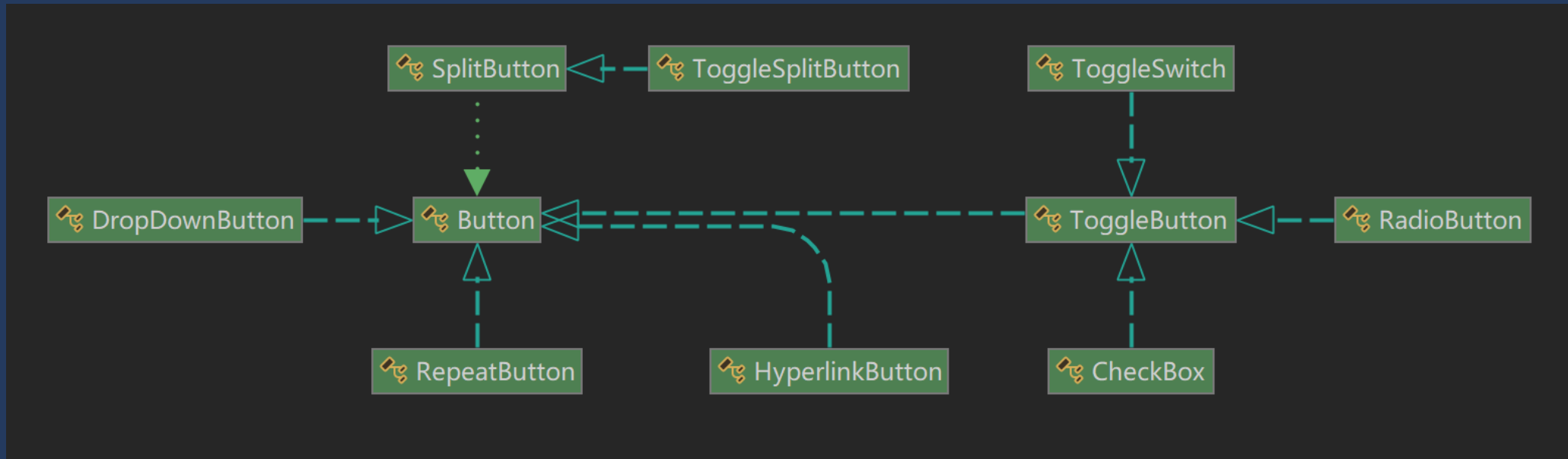


Button

```
<Button BorderThickness=" [all:] 0">No Border</Button>
<Button BorderBrush="{DynamicResource ResourceKey= SystemAccentColor}">Border Color</Button>
<Button BorderBrush="{DynamicResource ResourceKey= SystemAccentColor}"
        BorderThickness=" [all:] 4">Thick Border</Button>
<Button BorderBrush="{DynamicResource ResourceKey= SystemAccentColor}"
        BorderThickness=" [all:] 4"
        IsEnabled="False">Disabled</Button>
<Button BorderBrush="{DynamicResource ResourceKey= SystemAccentColor}"
        KeyboardNavigation.IsTabStop="False">IsTabStop=False</Button>
```



Button



ToggleButton

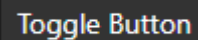
:Checked

选中



:Unchecked

未选中



:Indeterminate

不确定

```
<ToggleButton Content="Toggle Button" />
```


RepeatButton

```
<RepeatButton Name="RepeatButton">  
  <TextBlock Name="RepeatButtonTextBlock"  
    Text="Repeat Button: 0" />  
</RepeatButton>
```

Repeat Button: 0

Repeat Button: 13

HyperlinkButton

```
<HyperlinkButton
  x:Name="EnabledHyperlinkButton"
  VerticalAlignment="Center"
  NavigateUri="https://docs.avaloniaui.net/docs/welcome">
  <TextBlock Text="Avalonia Docs" />
</HyperlinkButton>
```

[Avalonia Docs](https://docs.avaloniaui.net/docs/welcome) ☐ IsVisited

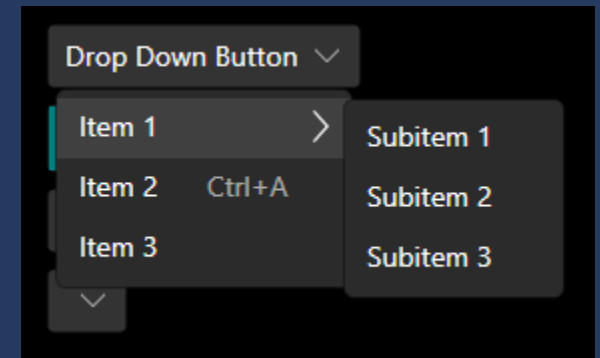
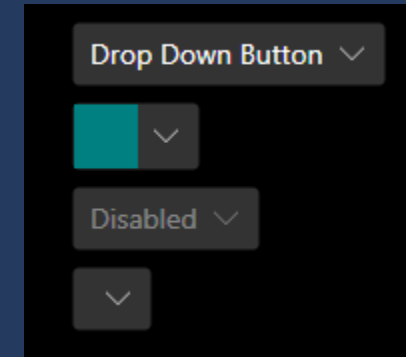
[Avalonia Docs](https://docs.avaloniaui.net/docs/welcome)

[Avalonia Docs](https://docs.avaloniaui.net/docs/welcome) ☒ IsVisited

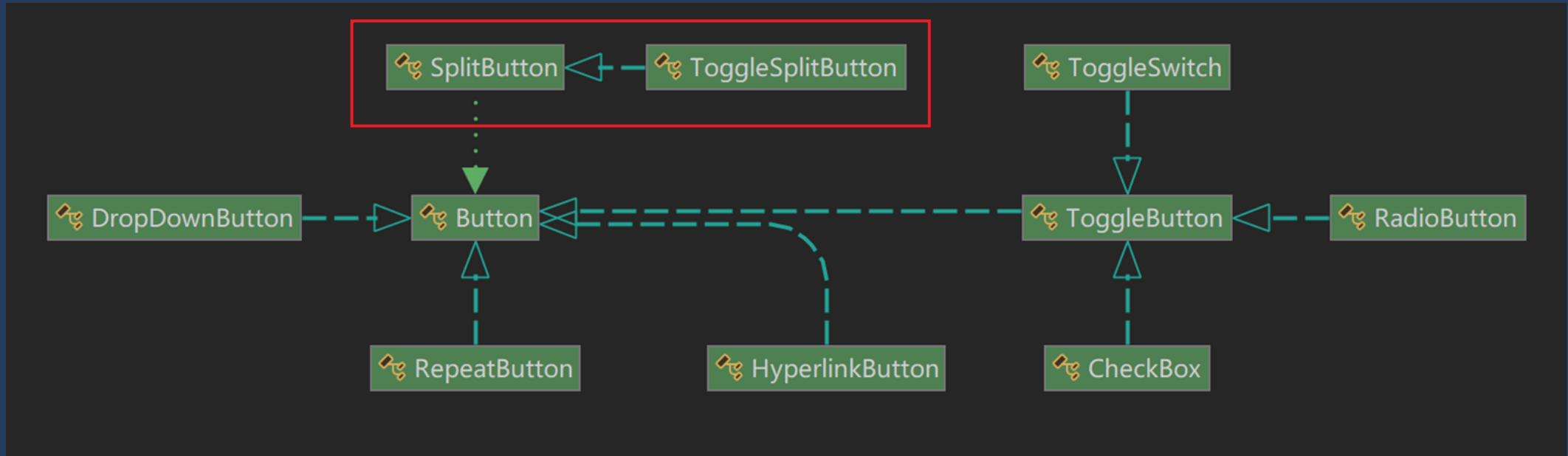
[Avalonia Docs](https://docs.avaloniaui.net/docs/welcome)

DropDownButton

```
<DropDownButton Flyout="{StaticResource ResourceKey= SharedMenuFlyout}">
  <TextBlock Text="Drop Down Button" />
</DropDownButton>
<DropDownButton Padding=" [l:] 0, [t:] 0, [r:] 8, [b:] 0">
  <Border Background=" ■ Teal"
    HorizontalAlignment="Stretch"
    VerticalAlignment="Stretch"
    Height="32"
    Width="32" />
</DropDownButton>
<DropDownButton IsEnabled="False">Disabled</DropDownButton>
<DropDownButton />
```



SplitButton



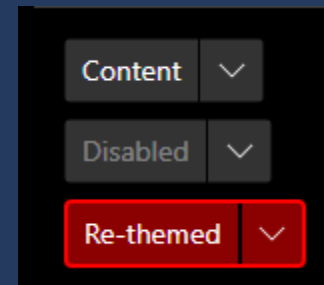
SplitButton

```
[TemplatePart( name: "PART_PrimaryButton",   typeof(Button))]  
[TemplatePart( name: "PART_SecondaryButton", typeof(Button))]  
[PseudoClasses(pcFlyoutOpen, pcPressed)]
```

🔍 44 用法 1 继承者 👤 robloo +7 📦 0+88 扩展方法

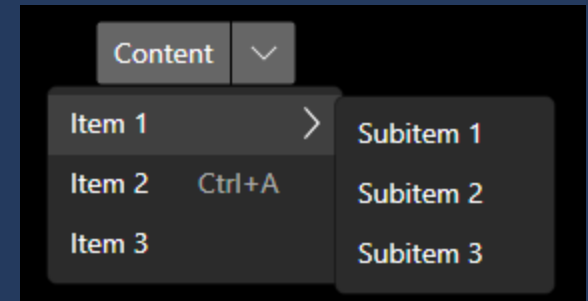
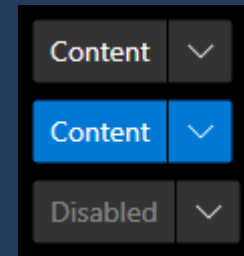
```
public class SplitButton : ContentControl, ICommandSource, IClickableControl  
{
```

```
<SplitButton Flyout="{StaticResource ResourceKey= SharedMenuFlyout}">  
  <TextBlock Text="Content" />  
</SplitButton>  
<SplitButton IsEnabled="False"  
  Flyout="{StaticResource ResourceKey= SharedMenuFlyout}">  
  <TextBlock Text="Disabled" />  
</SplitButton>
```

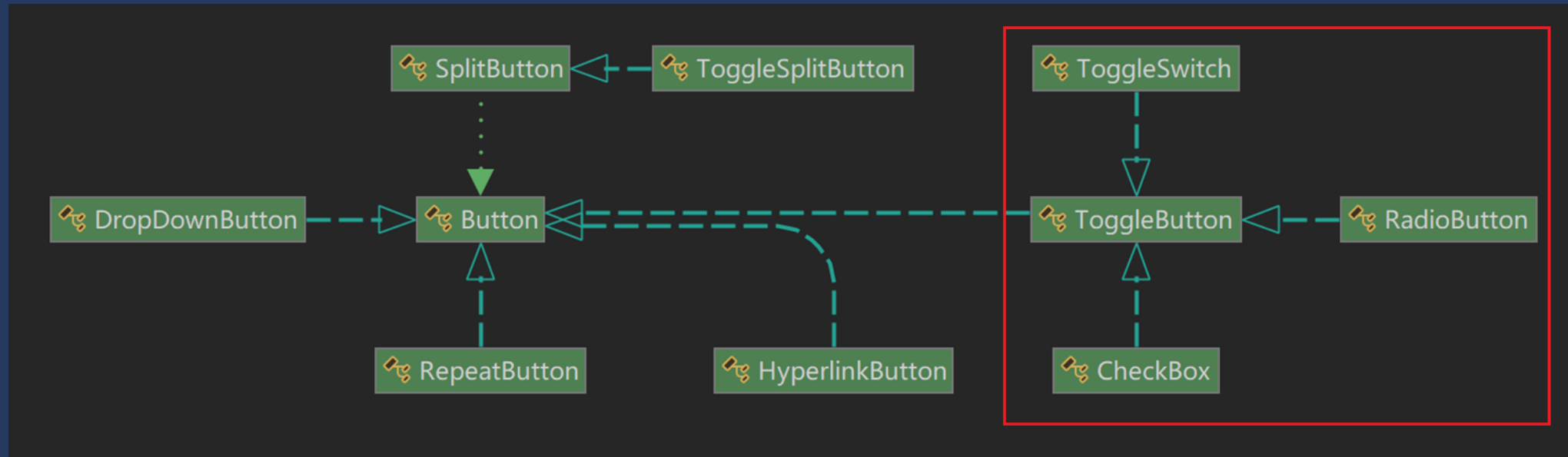


ToggleSplitButton

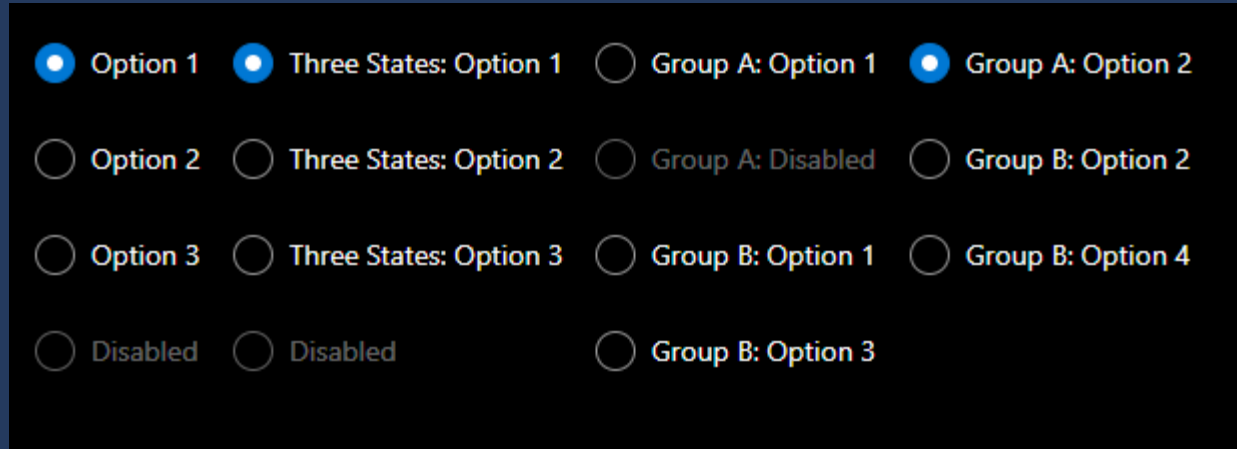
```
<ToggleSplitButton Flyout="{StaticResource ResourceKey= SharedMenuFlyout}">
  <TextBlock Text="Content" />
</ToggleSplitButton>
<ToggleSplitButton IsChecked="True"
                    Flyout="{StaticResource ResourceKey= SharedMenuFlyout}">
  <TextBlock Text="Content" />
</ToggleSplitButton>
<ToggleSplitButton IsChecked="True"
                    IsEnabled="False"
                    Flyout="{StaticResource ResourceKey= SharedMenuFlyout}">
  <TextBlock Text="Disabled" />
</ToggleSplitButton>
```



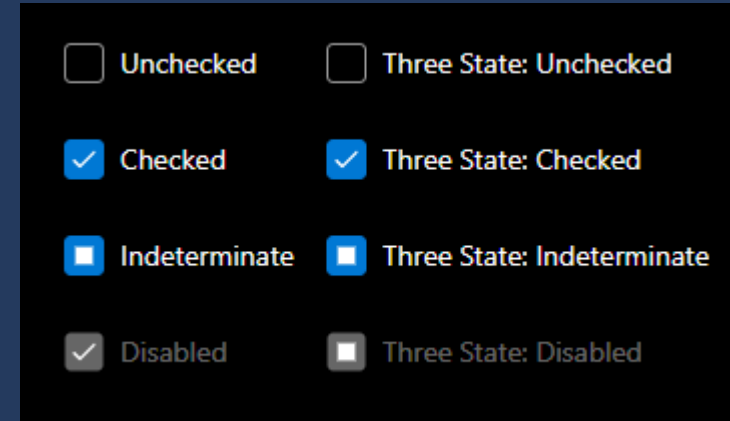
RadioButton/CheckBox/ToggleSwitch



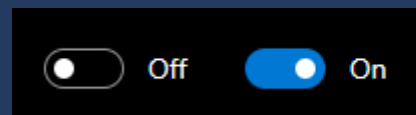
RadioButton/CheckBox/ToggleSwitch



RadioButton



CheckBox



ToggleSwitch