

# maui

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# xaml



| 属性                                       | 値                     |
|--|-----------------------|
| AutomationId                             | 文字列                   |
| StyleClass                               | 文字列                   |
| Resources                                | ResourceDictionary    |
| BindingContext                           | オブジェクト                |
| ToolBarItems                             | ToolBarItems          |
| Visual                                   | Visual Material       |
| FlowDirection                            | FlowDirection LTR/RTL |
| IsBusy                                   | bool                  |
| InputTransparent                         | bool                  |
| Opacity                                  | double                |
| IsEnabled                                | bool                  |
| IsVisible                                | bool                  |
| Margin                                   | Thickness             |
| WidthRequest/HeightRequest               | int                   |
| MinimumWidthRequest/MinimumHeightRequest | int                   |
| MaximumWidthRequest/MaximumHeightRequest | int                   |
| AnchorX/AnchorY                          | double                |
| Rotation/RotationX/RotationY             | double                |
| Scale                                    | double                |
| TranslationX/TranslationY                | double                |

## ContentPage

```
<ContentPage
  x:Class="Demo1.Pages.FullContentPage"
  Title="ContentPage" <!-- Title -->
  BackgroundColor="AliceBlue" <!-- BackgroundColor -->
```

```

Padding="20,40,20,20" <!-- 设置内边距 -->
IconImageSource="icon.png" <!-- 设置图标源 -->
FlowDirection="LeftToRight" <!-- 设置流方向 -->
IsBusy="False" <!-- 设置是否忙碌 -->
Visual="Material" <!-- 设置视觉风格 -->
AutomationId="ContentPage1" <!-- 设置自动化ID -->
StyleClass="mainPage" <!-- 设置样式类 -->
Shell.TabBarIsVisible="True" <!-- 设置底部标签栏是否可见 -->
Shell.NavBarIsVisible="True" <!-- 设置顶部导航栏是否可见 -->
Shell.BackgroundColor="LightGray" <!-- 设置背景颜色 -->
Shell.TitleColor="DarkBlue" <!-- 设置标题颜色 -->
Shell.DisabledColor="Gray" <!-- 设置禁用颜色 -->
Shell.TabBarBackgroundColor="White" <!-- 设置底部标签栏背景颜色 -->
Shell.TabBarTitleColor="Black" <!-- 设置底部标签栏标题颜色 -->
Shell.TabBarUnselectedColor="LightGray" <!-- 设置底部标签栏未选中颜色 -->
Shell.TabBarForegroundColor="DodgerBlue" <!-- 设置底部标签栏前景颜色 -->
Shell.TabBarDisabledColor="Gray" <!-- 设置底部标签栏禁用颜色 -->
Shell.TabBarShadowColor="LightGray" <!-- 设置底部标签栏阴影颜色 -->
>
<StackLayout>
    <Label Text="ContentPage1" />
</StackLayout>
</ContentPage>

```

## FlyoutPage 设置

```

<FlyoutPage
    x:Class="Demo1.AppShell"
    FlyoutLayoutBehavior="Split" <!-- 设置布局行为 -->
    IsPresented="False" <!-- 设置是否呈现 -->
    FlyoutIcon="menu.png" <!-- 设置图标 -->
    FlyoutBackgroundColor="LightGray" <!-- 设置背景颜色 -->
    FlyoutWidth="300" <!-- 设置宽度 -->
>
<FlyoutPage.Flyout>
    <ContentPage Title="Menu" IconImageSource="menu.png">
        <StackLayout>
            <Label Text="Menu" />
        </StackLayout>
    </ContentPage>

```

```

</FlyoutPage.Flyout>
<FlyoutPage.Detail>
  <NavigationPage>
    <x:Arguments>
      <local:MainPage />
    </x:Arguments>
  </NavigationPage>
</FlyoutPage.Detail>
</FlyoutPage>

```

FlyoutHeader

FlyoutFooter

## NavigationPage

```

<NavigationPage
  x:Class="Demo1.NavigationRoot"
  BarBackgroundColor="DodgerBlue" <!-- 
  BarTextColor="White" <!-- 
  TitleIconImageSource="navicon.png" <!-- 
  Shell.NavBarIsVisible="True" <!-- Shell
  Shell.NavBarHasShadow="True" <!-- Shell
  Shell.NavBarBackgroundColor="LightBlue" <!-- Shell
  Shell.NavBarTitleColor="DarkBlue" <!-- Shell
  Shell.NavBarDisabledColor="Gray" <!-- Shell
  Shell.NavBarForegroundColor="DodgerBlue" <!-- Shell
  Shell.NavBarShadowColor="LightGray" <!-- Shell
>
  <x:Arguments>
    <local:MainPage />
  </x:Arguments>
</NavigationPage>

```

HasNavigationBar C#

## TabbedPage

```

<TabbedPage
  x:Class="Demo1.MainTabbedPage"

```

|  |  |  |  |  |  |  |
|--|--|--|--|--|--|--|
|  |  |  |  |  |  |  |
|--|--|--|--|--|--|--|

Shell 

|  |  |  |  |  |  |  |  |  |
|--|--|--|--|--|--|--|--|--|
|  |  |  |  |  |  |  |  |  |
|--|--|--|--|--|--|--|--|--|

Shell 

```
<FlyoutItem Title="□□□" Icon="menu.png">
```

```

<!-- TabBar[] -->
<TabBar>
  <Tab Title=""[] " Icon="home.png">
    <ShellContent ContentTemplate="{DataTemplate local:MainPage}" />
  </Tab>
  <Tab Title=""[] " Icon="discover.png">
    <ShellContent ContentTemplate="{DataTemplate local:DiscoverPage}" />
  </Tab>
  <Tab Title=""[] " Icon="user.png">
    <ShellContent ContentTemplate="{DataTemplate local:ProfilePage}" />
  </Tab>
</TabBar>
</FlyoutItem>
<!-- [][] -->
<ShellContent Route="settings" ContentTemplate="{DataTemplate local:SettingsPage}" />
</Shell>

```













```

Shell [][] Flyout[][][] TabBar[][][] Stack[][][]
Shell [][][][] /TabBar[][][]
[] Shell [][] Shell [][]
[] Shell[]










```

# xaml

## StackLayout

|  |    |
|---|---|
| Orientation   |  Vertical/Horizontal  |
| Spacing   |    |
| Padding   |    |
| Margin  |    |
| HorizontalOptions   |    |
| VerticalOptions   |    |
| BackgroundColor   |    |

## Grid


|  |  |
|---|---|
| RowDefinitions  |    |
| ColumnDefinitions   |    |
| Padding   |    |
| Margin  |    |
| RowSpacing  |    |
| ColumnSpacing   |    |
| BackgroundColor   |    |



Grid.Row

Grid.Column

Grid.RowSpan

Grid.ColumnSpan

## FlexLayout

|  |  |
|---|---|
|---|---|

|                 |                     |
|-----------------|---------------------|
| Direction       | Row/Column          |
| Wrap            | NoWrap/Wrap/Reverse |
| JustifyContent  |                     |
| AlignItems      |                     |
| AlignContent    |                     |
| Padding         |                     |
| Margin          |                     |
| BackgroundColor |                     |

FlexLayout.Order  
FlexLayout.Grow  
FlexLayout.Shrink  
FlexLayout.Basis  
FlexLayout.AlignSelf

## AbsoluteLayout

|                 |  |
|-----------------|--|
|                 |  |
| Padding         |  |
| Margin          |  |
| BackgroundColor |  |

AbsoluteLayout.LayoutBounds  
AbsoluteLayout.LayoutFlags

"x, y, width, height"  
All/None/WidthProportional/HeightProportional

## VerticalStackLayout / HorizontalStackLayout

/

|         |  |
|---------|--|
|         |  |
| Spacing |  |
| Padding |  |
| Margin  |  |



| 属性名               | 属性値               |
|-------------------|-------------------|
| HorizontalOptions | HorizontalOptions |
| VerticalOptions   | VerticalOptions   |
| BackgroundColor   | BackgroundColor   |

## ContentView

| 属性名             | 属性値             |
|-----------------|-----------------|
| Content         | Content         |
| Padding         | Padding         |
| Margin          | Margin          |
| BackgroundColor | BackgroundColor |

ContentView

HorizontalOptions
VerticalOptions
Start
Center
End
Fill

Margin
Padding

BackgroundColor

IsVisible
IsEnabled
Opacity






WidthRequest
HeightRequest

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## ScrollView








- Orientation  Vertical/Horizontal
- Content 
- Padding  Margin  BackgroundColor

---

## CollectionView

  /






- ItemsSource 
- ItemTemplate 
- ItemsLayout 
- SelectionMode  SelectedItem
- Header  Footer

## CarouselView



- ItemsSource  ItemTemplate
- IsBounceEnabled  PeekAreaInsets
- Loop  Position

## Frame



# xaml

## 1. Label

```
<Label
    Text="你好" <!-- 文本 -->
    TextColor="Red" <!-- 颜色 -->
    FontSize="18" <!-- 大小 -->
    FontAttributes="Bold,Italic" <!-- 加粗/斜体 -->
    FontFamily="Microsoft YaHei" <!-- 字体 -->
    HorizontalTextAlignment="Center" <!-- 左/中/右 -->
    VerticalTextAlignment="Center" <!-- 上/中/下 -->
    LineBreakMode="WordWrap" <!-- 换行 -->
    MaxLines="2" <!-- 行数 -->
    CharacterSpacing="2" <!-- 字间距 -->
    Padding="5" <!-- 内边距 -->
    Margin="10" <!-- 外边距 -->
    BackgroundColor="LightYellow" <!-- 背景色 -->
    Opacity="0.8" <!-- 透明度 -->
    IsVisible="True" <!-- 是否可见 -->
    AutomationId="Label1" <!-- ID -->
    x:Name="MyLabel" <!-- 名称 -->
    TextDecorations="Underline,Strikethrough" <!-- 下划线/删除线 -->
/>
```

## 2. Entry

```
<Entry
    Text="{Binding UserName, Mode=TwoWay}" <!-- 文本 -->
    Placeholder="请输入" <!-- 占位符 -->
    IsPassword="True" <!-- 是否密码 -->
    Keyboard="Email" <!-- 默认/数字/邮件/聊天/电话/网址 -->
    MaxLength="20" <!-- 最大长度 -->
    IsReadOnly="False" <!-- 是否只读 -->
    TextColor="Black" <!-- 颜色 -->
    FontSize="16" <!-- 大小 -->
    FontFamily="Arial" <!-- 字体 -->
```

```

HorizontalTextAlignment="Start"      <!-- [ ] [ ] [ ] [ ] -->
VerticalTextAlignment="Center"      <!-- [ ] [ ] [ ] [ ] -->
ClearButtonVisibility="WhileEditing" <!-- [ ] [ ] [ ] [ ] [ ] [ ] [ ] [ ] -->
ReturnType="Done"                   <!-- [ ] [ ] [ ] [ ] -->
ReturnCommand="{Binding DoneCommand}" <!-- [ ] [ ] [ ] [ ] [ ] [ ] [ ] [ ] -->
CursorPosition="0"                  <!-- [ ] [ ] [ ] [ ] -->
SelectionLength="0"                 <!-- [ ] [ ] [ ] [ ] [ ] [ ] [ ] [ ] -->
Margin="10"
Padding="5"
BackgroundColor="White"
IsEnabled="True"
Opacity="1"
x:Name="MyEntry"
/>

```

### 3. Editor

```

<Editor
    Text="{Binding Description, Mode=TwoWay}" <!-- [ ] [ ] [ ] [ ] [ ] [ ] [ ] [ ] -->
    Placeholder="[ ] [ ] [ ] [ ] [ ] [ ] [ ] [ ]"
    AutoSize="TextChanges"                <!-- [ ] [ ] [ ] [ ] [ ] [ ] [ ] [ ] Disabled/TextChanges -->
    IsReadOnly="False"
    MaxLength="200"
    TextColor="Gray"
    FontSize="14"
    FontFamily="Arial"
    BackgroundColor="WhiteSmoke"
    Margin="10"
    Padding="5"
    IsEnabled="True"
    Opacity="1"
    x:Name="MyEditor"
/>

```

### 4. Button

```

<Button
    Text="[ ] [ ] [ ] [ ] [ ] [ ] [ ] [ ]" <!-- [ ] [ ] [ ] [ ] [ ] [ ] [ ] [ ] -->
    Command="{Binding SubmitCommand}"      <!-- MVVM [ ] [ ] [ ] [ ] [ ] [ ] [ ] [ ] -->
    CommandParameter="{Binding SomeValue}" <!-- [ ] [ ] [ ] [ ] [ ] [ ] [ ] [ ] -->

```

```

IsEnabled="True"                <!-- [ ] [ ] [ ] [ ] -->
BackgroundColor="DodgerBlue"    <!-- [ ] [ ] [ ] [ ] -->
TextColor="White"               <!-- [ ] [ ] [ ] [ ] -->
FontSize="18"
FontAttributes="Bold"
CornerRadius="8"                <!-- [ ] [ ] [ ] [ ] -->
BorderColor="Gray"              <!-- [ ] [ ] [ ] [ ] -->
BorderWidth="2"                 <!-- [ ] [ ] [ ] [ ] -->
ImageSource="icon.png"          <!-- [ ] [ ] [ ] [ ] -->
Padding="10"
Margin="10"
Opacity="1"
x:Name="MyButton"
/>

```

## 5. Image

```

<Image
  Source="dotnet_bot.png"        <!-- [ ] [ ] [ ] [ ] URL -->
  Aspect="AspectFill"           <!-- [ ] [ ] [ ] [ ] AspectFit/AspectFill/Fill/Center -->
  IsAnimationPlaying="True"     <!-- GIF [ ] [ ] [ ] [ ] -->
  Opacity="0.9"
  IsVisible="True"
  HeightRequest="100"
  WidthRequest="100"
  Margin="5"
  x:Name="MyImage"
/>

```

## 6. CollectionView

```

<CollectionView
  ItemsSource="{Binding Items}"  <!-- [ ] [ ] [ ] [ ] -->
  ItemTemplate="{StaticResource MyTemplate}" <!-- [ ] [ ] [ ] [ ] [ ] [ ] [ ] [ ] -->
  ItemsLayout="VerticalList"     <!-- [ ] [ ] [ ] [ ] VerticalList/HorizontalList/VerticalGrid/HorizontalGrid -->
  SelectionMode="Single"         <!-- [ ] [ ] [ ] [ ] None/Single/Multiple -->
  SelectedItem="{Binding SelectedItem, Mode=TwoWay}" <!-- [ ] [ ] [ ] [ ] -->
  Header="[ ] [ ] [ ] [ ] "
  Footer="[ ] [ ] [ ] [ ] "
  IsGrouped="False"

```

```
EmptyView=""  
Margin="10"  
x:Name="MyCollectionView"  
/>
```

## 7. Picker

```
<Picker  
    ItemsSource="{Binding Options}" <!--   
    SelectedItem="{Binding SelectedOption, Mode=TwoWay}" <!--   
    SelectedIndex="{Binding SelectedIndex, Mode=TwoWay}" <!--   
    Title=""  
    TextColor="Black"  
    FontSize="16"  
    Margin="10"  
    x:Name="MyPicker"  
/>
```

## 8. Switch

```
<Switch  
    IsToggled="{Binding IsEnabled, Mode=TwoWay}" <!--   
    OnColor="Green" <!--   
    ThumbColor="White" <!--   
    IsEnabled="True"  
    Margin="10"  
    x:Name="MySwitch"  
/>
```

## 9. CheckBox

```
<CheckBox  
    IsChecked="{Binding IsChecked, Mode=TwoWay}" <!--   
    Color="DodgerBlue" <!--   
    IsEnabled="True"  
    Margin="10"  
    x:Name="MyCheckBox"  
/>
```

## 10. RadioButton

```

<RadioButton
  Content="☐ A" <!-- ☐☐☐ -->
  GroupName="Group1" <!-- ☐☐ -->
  IsChecked="{Binding IsOptionA, Mode=TwoWay}" <!-- ☐☐☐ -->
  Color="Orange"
  IsEnabled="True"
  Margin="10"
  x:Name="MyRadioButton"
/>

```

## 11. Slider

```

<Slider
  Minimum="0" <!-- ☐☐ -->
  Maximum="100" <!-- ☐☐ -->
  Value="{Binding Progress, Mode=TwoWay}" <!-- ☐☐ -->
  ThumbColor="Red" <!-- ☐☐☐ -->
  MinimumTrackColor="Blue" <!-- ☐☐☐☐☐ -->
  MaximumTrackColor="Gray" <!-- ☐☐☐☐☐ -->
  IsEnabled="True"
  Margin="10"
  x:Name="MySlider"
/>

```

## 12. ProgressBar

```

<ProgressBar
  Progress="{Binding ProgressValue}" <!-- ☐ 0~1 -->
  ProgressColor="Green"
  BackgroundColor="LightGray"
  Margin="10"
  x:Name="MyProgressBar"
/>

```

## 13. ActivityIndicator

```

<ActivityIndicator
  IsRunning="{Binding IsBusy}" <!-- ☐☐☐☐☐ -->
  Color="Purple"
  IsVisible="{Binding IsBusy}"

```



```
Margin="10"
x:Name="MyActivityIndicator"
/>
```

## 14. DatePicker

```
<DatePicker
    Date="{Binding SelectedDate, Mode=TwoWay}" <!-- 日期选择器 -->
    MinimumDate="2020-01-01"
    MaximumDate="2030-12-31"
    Format="yyyy-MM-dd"
    TextColor="Black"
    Margin="10"
    x:Name="MyDatePicker"
/>
```

## 15. TimePicker

```
<TimePicker
    Time="{Binding SelectedTime, Mode=TwoWay}" <!-- 时间选择器 -->
    Format="HH:mm"
    TextColor="Black"
    Margin="10"
    x:Name="MyTimePicker"
/>
```

## 16. WebView

```
<WebView
    Source="{Binding WebUrl}" <!-- 网页地址 -->
    HeightRequest="300"
    WidthRequest="400"
    Margin="10"
    x:Name="MyWebView"
/>
```

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## 17. Frame

```
<Frame
  CornerRadius="10"           <!-- 10px  -->
  HasShadow="True"           <!-- 10px  -->
  BorderColor="Gray"
  BackgroundColor="White"
  Padding="10"
  Margin="10"
  x:Name="MyFrame">
  <Label Text="Frame" />
</Frame>
```

## 18. Border MAUI

```
<Border
  Stroke="Red"                <!-- 2px  -->
  StrokeThickness="2"         <!-- 2px  -->
  StrokeShape="RoundRectangle 8" <!-- 8px  -->
  Background="LightYellow"
  Margin="10"
  x:Name="MyBorder">
  <Label Text="Border" />
</Border>
```

## 19. Expander

```
<Expander
  IsExpanded="{Binding IsExpanded, Mode=TwoWay}" <!-- 10px  -->
  Margin="10"
  x:Name="MyExpander">
  <Expander.Header>
    <Label Text="Header" />
  </Expander.Header>
  <Label Text="Content" />
</Expander>
```

## 20. ListView

| Property | Value |
|----------|-------|
| Margin   | 10px  |
| Padding  | 10px  |

| 属性名               | 属性値         |
|-------------------|-------------|
| BackgroundColor   | 色指定         |
| Opacity           | 透明度         |
| IsVisible         | 表示可否        |
| IsEnabled         | 操作可否        |
| WidthRequest      | 幅指定         |
| HeightRequest     | 高さ指定        |
| HorizontalOptions | 横方向の配置オプション |
| VerticalOptions   | 縦方向の配置オプション |
| AutomationId      | 自動化ID       |
| x:Name            | 名前指定        |