

绑定 (二)

JETBRAINS Reactor

MVP

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本期内容

1. 深入学习绑定语法

```
<TextBox x:Name="InputBox"></TextBox>
<TextBlock
Classes.class1="{Binding IsClass1 }"
Classes.class2="{Binding !IsClass1 }"
Text="{Binding Path=Text,
Mode=TwoWay,
Mode=TwoWay,
Delay= 100,
UpdateSourceTrigger=PropertyChanged,
StringFormat=Pattern,
ElementName=InputBox,
RelativeSource={RelativeSource Mode=FindAncestor, AncestorType={x:Type TextBox}},
Converter={StaticResource BagConverter},ConverterParameter='MM/dd/yyyy'}" />
```



控件绑定

- <TextBox x:Name="InputBox"></TextBox>
- <TextBlock Text="{Binding Path=Text,ElementName=InputBox}"/>

转换器设置

<TextBlock Text="{Binding Path=Text}" Converter={StaticResource BagConverter},ConverterParameter='MM/dd/yyyy'}" />

格式设置

<TextBlock Text="{Binding Animals.Count, StringFormat='{}{0} animals live in the farm.'}" />

相对资源设置

<TextBlock Text="{Binding Path=Text, RelativeSource={RelativeSource Mode=FindAncestor, AncestorType={x:Type TextBox}}/>

```
集合绑定
public class ViewModel : ObservableObject
   private ObservableCollection<string> _items;
    public ObservableCollection<string> Items
        get { return _items; }
        set { SetProperty(ref _items, value); }
    public ViewModel()
       Items = new ObservableCollection<string> { "Item 1", "Item 2", "Item 3" };
<ListBox ItemsSource="{Binding Items}"/>
```



绑定模式、数据通知设置 <TextBlock Text="{Binding Path=Text,Mode=**TwoWay**,UpdateSourceTrigger=**PropertyChanged**/>

样式绑定

```
<StackPanel Margin="20">
 <ListBox ItemsSource="{Binding ItemList}">
  <ListBox.Styles>
   <Style Selector="TextBlock.class1">
    <Setter Property="Background" Value="OrangeRed" />
   </Style>
  </ListBox.Styles>
  <ListBox.ItemTemplate>
   <DataTemplate>
    <StackPanel>
     <TextBlock
       Classes.class1="{Binding IsClass1 }"
       Classes.class2="{Binding !IsClass1 }"
       Text="{Binding Title}"/>
    </StackPanel>
   </DataTemplate>
  </ListBox.ItemTemplate>
 </ListBox>
</StackPanel>
```

图像绑定

```
<Grid ColumnDefinitions="*,*,*" RenderOptions.BitmapInterpolationMode="HighQuality">
    <Image Grid.Column="0" Source="avares://LoadingImages/Assets/abstract.jpg" MaxWidth="300" />
    <Image Grid.Column="1" Source="{Binding ImageFromBinding}" MaxWidth="300" />
    <Image Grid.Column="2" Source="{Binding ImageFromWebsite^}" MaxWidth="300" />
    </Grid>
```

命令绑定

<Button Command="{Binding ExampleCommand}" CommandParameter="{Binding}">Run the example</Button>

可观察绑定

<TextBlock Text="{Binding Name^.Length}"/>



多项绑定

```
<StackPanel HorizontalAlignment="Center" VerticalAlignment="Center" Spacing="8">
  <NumericUpDown x:Name="red" Minimum="0" Maximum="255" Increment="20" Value="0" Foreground="Red" />
  <NumericUpDown x:Name="green" Minimum="0" Maximum="255" Increment="20" Value="0" Foreground="Green" />
  <NumericUpDown x:Name="blue" Minimum="0" Maximum="255" Increment="20" Value="0" Foreground="Blue" />
  <TextBlock Text="MultiBinding Text Color!" FontSize="24">
    <TextBlock.Foreground>
      <MultiBinding Converter="{StaticResource RgbToBrushMultiConverter}">
        <Binding Path="Value" ElementName="red" />
        <Binding Path="Value" ElementName="green" />
        <Binding Path="Value" ElementName="blue" />
      </MultiBinding>
   </TextBlock.Foreground>
  </TextBlock>
</StackPanel>
```

```
任务绑定
public Task<string> MyAsyncText => GetTextAsync();
private async Task<string> GetTextAsync()
{
   await Task.Delay(1000); // 仅为演示目的而进行延迟
   return "Hello from async operation";
}
<TextBlock Text="{Binding MyAsyncText^, FallbackValue='Wait a second'}" />
```

集合绑定

- (1) <ListBox ItemsSource="{Binding People}"/>
- (2) ObservableCollection<T> People {get; set;}















集合绑定

指定对象属性 <TextBlock Text="{Binding Student.Name}"/>

指定集合元素属性 <TextBlock Text="{Binding Students[0].Name}"/>



小结

- 1.了解绑定语法
- 2.集合绑定