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RelativeSource in WPF

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> *It is a Markup Extension. RelativeSource is used in Bindings. This Property tells about the source position where it lies relative to a given element. It can be of Four Types.*
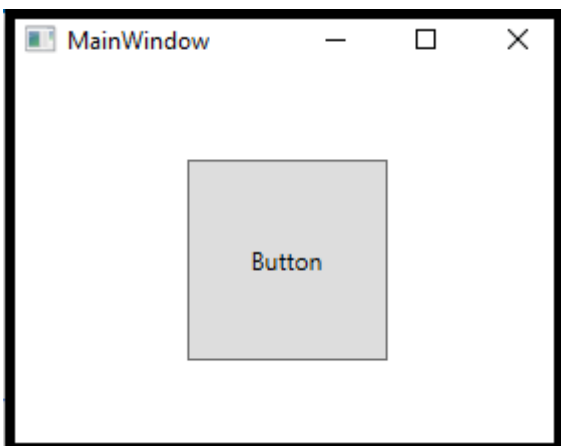
- Self
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Self

It is used when an object binds its one property to its other property or to its parent.

Syntax:

"{Binding RelativeSource={RelativeSource **Self**},Path=PathToProperty}"

Example :

```
<Grid>
<Button Width="100″ Height="{Binding RelativeSource = {RelativeSource Self}, Path =
Width}>" Button </Button>
</Grid>
```
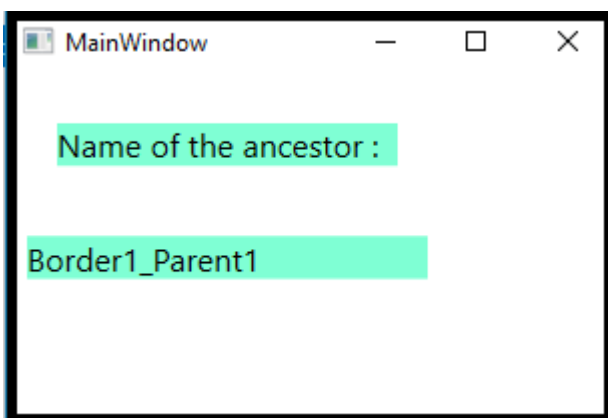

FindAncestor

Here the element bind its property to the property of any of its parent and grandparent. Here you give the **AncestorType** and **AncestorLevel** to decide whose property it is gonna use.

Syntax :

{Binding RelativeSource={RelativeSource **FindAncestor**,**AncestorType**= {x:Type **typeOfAncestor**}, AncestorLevel=2}, Path=PathToProperty}"

Example :

```
<Canvas Name="Canvas1_Parent0">
<Border Name="Border1_Parent1">
<Canvas Name="Canvas2_Parent2">
<Border Name="Border2_Parent3">
<StackPanel Name="StackPanel1_Parent4">
<StackPanel Name="StackPanel2_Parent4">
<StackPanel Name="StackPanel3_Parent4">
<TextBlock FontSize="16" Margin="5" Text="Name of the ancestor"/>
<TextBlock FontSize="16" Margin="50" Text="{Binding RelativeSource={RelativeSource
FindAncestor, AncestorType={x:Type Border}, AncestorLevel = 2}, Path=Name}"
Width="200"/>
</StackPanel>
</StackPanel>
</StackPanel>
</Border>
</Canvas>
</Border>
</Canvas>
```

TemplatedParent

It is used when we deal with Control Templates. Here we bind the property of ControlTemplate to the property of control to which we are applying the ControlTemplate.

Syntax :

Binding RelativeSource={RelativeSource **TemplatedParent**},Path=PathToProperty}

Example :

```
<Window.Resources>
<ControlTemplate x:Key="template">
<Canvas>
<Ellipse Height="100" Width="150" Fill="LightBlue"></Ellipse>
        <ContentPresenter Margin="35" Content = "{Binding RelativeSource = {RelativeSource
TemplatedParent},Path=Text}"/>
</Canvas>
</ControlTemplate>
</Window.Resources>
<Canvas Name="Parent0">
<TextBox Margin="50"
   <TextBox Margin="50" Template="{StaticResource template}" Height="0" Canvas.Left="0"
Canvas.Top="0" Width="0" FontSize="25" Text="Hi WPF">
</TextBox>
</Canvas>
```


Previous

This is the least used mode of RelativeSource. It is used when we want to bind a property value to its previous value.

Syntax:

"{Binding RelativeSource={RelativeSource **PreviousData**},Path=PathToProperty}"

Tag: ancestortype, Binding in WPF, findancestor, reletivesource, templatedparent   Leave a comment

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