

# Working With WPF Trigger or Triggers in WPF

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In this article I will demonstrate about Triggers in WPF.

Reader Level: 

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## Introduction

This article introduce and illustrates of trigger in wpf. This article covers following topic

1. What's Trigger in WPF?
2. Why do use Trigger?
3. How many types of trigger in WPF?
4. Examples of all the trigger in WPF

## What is Trigger

A Trigger is typically used in a Style or ControlTemplate. It triggers on properties of the thing being templated, and sets other properties of the control (or of specific template elements). For example, you would use a Trigger on IsMouseOver to respond to the mouse being over the control, and the setters might update a brush to show a "hot" effect.

## Why do use Trigger?

**Triggers** is used in style to perform action on change any property value or event fires. **Triggers** create visual effects on controls. By using **Triggers** we can change the appearance of Framework Elements.

## How many types of trigger in WPF?

There are five types of trigger supports in WPF. All the triggers are listed below

1. Property Trigger
2. Data Trigger
3. Multy Trigger
4. Multy Data Trigger
5. Event Trigger

## Property Trigger

The simplest form of a trigger is a property trigger, which watches for a dependency property to have a certain value. For example, if we wanted to light up a button in yellow as the user moves the mouse over it, we can do so by watching for the `IsMouseOver` property to have a value of `True`

## Data Trigger

DataTriggers are triggers that watch a bound value instead of a Dependency Property. They allow you to watch a bound expression, and will react when that binding evaluates equal to your Value.

For example, you could set a DataTrigger on "{Binding Value}" or "{Binding ElementName=MyTextBox, Path=IsChecked}". You can even use Converters with DataTriggers, such as

```
<DataTrigger
Binding="{Binding SomeInt, Converter={StaticResource IsGreaterThanZero}}"
Value="True">
```

## Multi Trigger

MultiTrigger is used to set action on Multiple Property change. It will execute when all condition are satisfy within

Fore Example:- suppose want change background color of textbox on mouse move, focus and lost focus , in the condition you can use multiTrigger.

```
<Window x:Class
xmlns="http://schemas.microsoft.com/winfx/2006/xaml/presentation"
xmlns:x="http://schemas.microsoft.com/winfx/2006/xaml"
Title="MultiTRiggerDEmo" Height="300" Width="300" Loaded="Window_Loaded">
<Window.Resources>
<Style x:Key="MultTrigg" TargetType="{x:Type TextBox}" ="">
<Style.Triggers>
<MultiTrigger>
<MultiTrigger.Conditions>
<Condition Property="IsFocused" Value="True">
</Condition>
<Condition Property="IsMouseOver" Value="True">
</Condition>
</MultiTrigger.Conditions>
<MultiTrigger.Setters>
<Setter Property="Background" Value="yellow" >
</Setter>
</MultiTrigger.Setters>
</MultiTrigger>
</Style.Triggers>
</Style>
</Window.Resources>
```

```

<StackPanel>
  <TextBox Style="{StaticResource MultTrigg}"></TextBox>
</StackPanel>
</Window>

```

## Multi Data Trigger

MultiTrigger and MultiDataTrigger are the same, except they allow you to specify multiple conditions (properties or bindings respectively) and take effect only when all conditions are satisfied.

## Event Trigger

EventTrigger is used to trigger actions in response to events.

Fore Example:- Suppose there is a need of fire a command on the click of button or on the select event of Combobox and select row of grid view in WPF, At that time your can use EventTrigger.

## Code Example

In the illustration I have use event trigger on the item selection of list box .

```

<ListBox Name="employeeListBox" ItemsSource="{Binding
empList}" Grid.Row="0" SelectedItem="{Binding SelectedIndex}">
  <i:Interaction.Triggers>
    <i:EventTrigger EventName="SelectionChanged">
      <i:InvokeCommandAction Command="{Binding MyCommand}" CommandParameter="{Binding
ElementName=employeeListBox, Path=SelectedValue}"/>
    </i:EventTrigger>
  </i:Interaction.Triggers>
</ListBox>

```

Similarly you can use it in the button, combobox gridview etc.

## Summary

In this article we have discussed about trigger , Type of trigger and their examples, if any query or solves your problem or it helped your please don't forget to comment