

LIST VIEW

1.External ListBox style

```
<Window x:Class="ControlTemplates.MultiPartTemplates"
  xmlns="http://schemas.microsoft.com/winfx/2006/xaml/presentation"
  xmlns:x="http://schemas.microsoft.com/winfx/2006/xaml"
  Title="MultiPartTemplate" Height="239" Width="248"
  >
<Window.Resources>
  <ResourceDictionary>
  <ResourceDictionary.MergedDictionaries>

    <ResourceDictionary Source="Resources\ListBox.xaml" ></ResourceDictionary>
  </ResourceDictionary.MergedDictionaries>
</ResourceDictionary>
</Window.Resources>

  <ListBox Margin="5" >
    <ListBoxItem>One</ListBoxItem>
    <ListBoxItem>Two</ListBoxItem>
    <ListBoxItem>Three</ListBoxItem>
    <ListBoxItem>Four</ListBoxItem>
    <ListBoxItem>Five</ListBoxItem>
    <ListBoxItem>Six</ListBoxItem>
    <ListBoxItem>Seven</ListBoxItem>
    <ListBoxItem>Eight</ListBoxItem>
    <ListBoxItem>Nine</ListBoxItem>
    <ListBoxItem>Ten</ListBoxItem>
    <ListBoxItem>Eleven</ListBoxItem>
    <ListBoxItem>Twelve</ListBoxItem>
  </ListBox>
```

2.Define ListBox template

```
<Window x:Class="Main"
  xmlns="http://schemas.microsoft.com/winfx/2006/xaml/presentation"
  xmlns:x="http://schemas.microsoft.com/winfx/2006/xaml"
  xmlns:sys="clr-namespace:System;assembly=mcorlib"
  Title="">
<Window.Resources>
  <x:ArrayExtension Type="{x:Type sys:String}" x:Key="items">
    <sys:String>A</sys:String>
    <sys:String>B</sys:String>
    <sys:String>C</sys:String>
    <sys:String>D</sys:String>
  </x:ArrayExtension>
</Window.Resources>
<ListBox ItemsSource="{StaticResource items}" Width="120" Height="67">
  <ListBox.Template>
  <ControlTemplate TargetType="{x:Type ListBox}">
    <Border BorderThickness="1" BorderBrush="Black" CornerRadius="10">
```

```

<ScrollView>
  <ScrollView.Clip>
    <RectangleGeometry Rect="0, 0, 100, 50"></RectangleGeometry>
  </ScrollView.Clip>
  <VirtualizingStackPanel IsItemsHost="True" />
</ScrollView>
</Border>
</ControlTemplate>
</ListBox.Template>
</ListBox>
</Window>

```

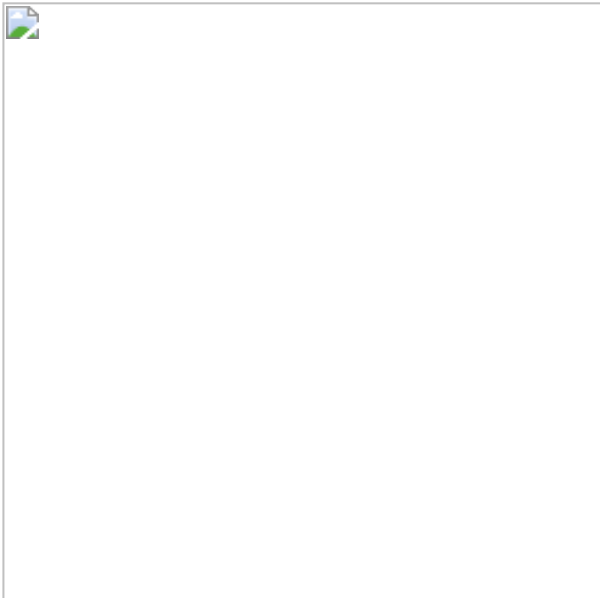


3.Set selected index for ListBox

```

<Window x:Class="Window1"
  xmlns="http://schemas.microsoft.com/winfx/2006/xaml/presentation"
  xmlns:x="http://schemas.microsoft.com/winfx/2006/xaml"
  Title="Use ListBox" Height="300" Width="300">
  <Grid>
    <ListBox Margin="10,10,10,0" Name="ListBox1"
      VerticalAlignment="Top" SelectedIndex="1" VerticalContentAlignment="Center">
      <ListBoxItem>A</ListBoxItem>
      <ListBoxItem FontFamily="Comic Sans MS" FontSize="18" Foreground="Blue"></ListBoxItem>
      <ListBoxItem>C</ListBoxItem>
    </ListBox>
  </Grid>
</Window>
End Class

```



4. Bind String Array Resource to ListBox

```
<Window x:Class="Main"
  xmlns="http://schemas.microsoft.com/winfx/2006/xaml/presentation"
  xmlns:x="http://schemas.microsoft.com/winfx/2006/xaml"
  xmlns:sys="clr-namespace:System;assembly=mcorlib"
  Title="" >
<Window.Resources>
  <x:ArrayExtension Type="{x:Type sys:String}" x:Key="items">
    <sys:String>A</sys:String>
    <sys:String>B</sys:String>
    <sys:String>C</sys:String>
    <sys:String>D</sys:String>
  </x:ArrayExtension>
</Window.Resources>
<ListBox ItemsSource="{StaticResource items}" Width="120" Height="67">
  <ListBox.Template>
    <ControlTemplate TargetType="{x:Type ListBox}">
      <Border BorderThickness="1" BorderBrush="Black" CornerRadius="10">
        <ScrollViewer>
          <ScrollViewer.Clip>
            <RectangleGeometry Rect="0, 0, 100, 50"></RectangleGeometry>
          </ScrollViewer.Clip>
          <VirtualizingStackPanel IsItemsHost="True" />
        </ScrollViewer>
      </Border>
    </ControlTemplate>
  </ListBox.Template>
</ListBox>
</Window>
```



5.ListBox Selected Index, Item, Value

```
<Window x:Class="WpfApplication1.MainWindow"
  xmlns="http://schemas.microsoft.com/winfx/2006/xaml/presentation"
  xmlns:x="http://schemas.microsoft.com/winfx/2006/xaml"
  Title="WpfApplication1" Height="399" Width="320" WindowStartupLocation="CenterScreen">
  <StackPanel xmlns:CorLib = "clr-namespace:System;assembly=mcorlib">
  <ListBox Name = "dataList"/>
  <ListBox Name = "lstColors">
    <StackPanel Orientation = "Horizontal" Tag = "Yellow">
      <Ellipse Fill = "Yellow" Height = "50" Width = "50"/>
      <Label FontSize = "20" HorizontalAlignment="Center"
        VerticalAlignment="Center">Yellow</Label>
    </StackPanel>
    <StackPanel Orientation = "Horizontal" Tag = "Blue">
      <Ellipse Fill = "Blue" Height = "50" Width = "50"/>
      <Label FontSize = "20" HorizontalAlignment="Center"
        VerticalAlignment="Center">Blue</Label>
    </StackPanel>
    <StackPanel Orientation = "Horizontal" Tag = "Green">
      <Ellipse Fill = "Green" Height = "50" Width = "50"/>
      <Label FontSize = "20" HorizontalAlignment="Center"
        VerticalAlignment="Center">Green</Label>
    </StackPanel>
  </ListBox>
  <Button Name = "btnGetGameSystem" Click = "btnGetGameSystem_Click">
    Video
  </Button>
  <Button Name = "btnGetColor" Click = "btnGetColor_Click">
    Get Color
  </Button>
</StackPanel>
</Window>
//File:Window.xaml.vb
Imports System
Imports System.Collections.Generic
Imports System.Text
Imports System.Windows
Imports System.Windows.Controls
```

```
Imports System.Windows.Data
Imports System.Windows.Documents
Imports System.Windows.Input
Imports System.Windows.Media
Imports System.Windows.Media.Imaging
Imports System.Windows.Shapes
```

```
Namespace WpfApplication1
```

```
  Public Partial Class MainWindow
    Inherits System.Windows.Window
```

```
  Public Sub New()
```

```
    InitializeComponent()
    dataList.Items.Add("A")
    dataList.Items.Add("B")
    dataList.Items.Add("C")
    dataList.Items.Add("D")
    dataList.Items.Add("E")
```

```
  End Sub
```

```
  Protected Sub btnGetGameSystem_Click(sender As Object, args As RoutedEventArgs)
```

```
    Console.WriteLine(dataList.SelectedIndex)
    Console.WriteLine(dataList.SelectedItem)
    Console.WriteLine(dataList.SelectedValue)
```

```
  End Sub
```

```
  Protected Sub btnGetColor_Click(sender As Object, args As RoutedEventArgs)
```

```
    Console.WriteLine(TryCast(1stColors.Items(1stColors.SelectedIndex), StackPanel).Tag)
```

```
  End Sub
```

```
End Class
```

```
End Namespace
```



6.ListBox and SelectionMode

```
<Window x:Class="ControlDemos.listBox"
  xmlns="http://schemas.microsoft.com/winfx/2006/xaml/presentation"
  xmlns:x="http://schemas.microsoft.com/winfx/2006/xaml"
  Title="ControlDemos" Height="300" Width="300" >
  <Grid Background="Beige">
    <ListBox BorderThickness="1"
      VerticalAlignment="Stretch"
      HorizontalAlignment="Stretch"
      Grid.Column="0" Grid.ColumnSpan="1"
      Grid.Row="0" Grid.RowSpan="1"
      Name="listBox1" BorderBrush="Blue"
      SelectionMode="Single"
      SelectionChanged="listBox1_SelectionChanged">
      <ListBoxItem>Item 1</ListBoxItem>
      <ListBoxItem>Item 2</ListBoxItem>
      <ListBoxItem>Item 3</ListBoxItem>
      <ListBoxItem>Item 4</ListBoxItem>
      <ListBoxItem>Item 5</ListBoxItem>
      <ListBoxItem>Item 6</ListBoxItem>
      <ListBoxItem>Item 7</ListBoxItem>
      <ListBoxItem>Item 8</ListBoxItem>
    </ListBox>
  </Grid>
</Window>
//File:Window.xaml.vb
```

Imports System

Imports System.Windows

Imports System.Windows.Controls

Imports System.Windows.Data

Imports System.Windows.Documents

Imports System.Windows.Media

Imports System.Windows.Media.Imaging

Imports System.Windows.Shapes

Namespace ControlDemos

Public Partial **Class** listBox

Inherits Window

Public Sub New()

InitializeComponent()

End Sub

Public Sub listBox1_SelectionChanged(sender **As** Object, args **As** SelectionChangedEventArgs)

Dim nCount **As** Integer = listBox1.SelectedItems.Count

For lp **As** Integer = 0 To nCount - 1

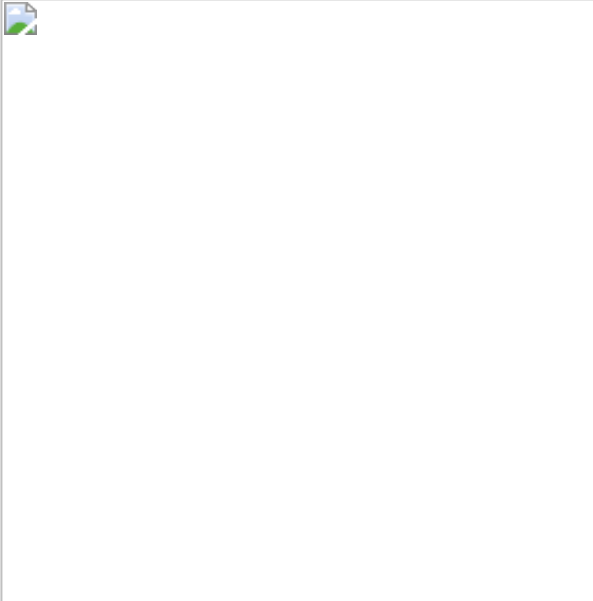
Console.WriteLine(listBox1.SelectedItems(lp).ToString())

Next

End Sub

End Class

End Namespace



7. CheckBox List

```
<Window x:Class="ClassicControls.CheckBoxList"
  xmlns="http://schemas.microsoft.com/winfx/2006/xaml/presentation"
  xmlns:x="http://schemas.microsoft.com/winfx/2006/xaml"
  Title="CheckBoxList" Height="300" Width="300">
<Grid Margin="10">
  <Grid.RowDefinitions>
    <RowDefinition Height="*"></RowDefinition>
    <RowDefinition Height="Auto"></RowDefinition>
  </Grid.RowDefinitions>

  <ListBox Name="lst" SelectionChanged="lst_SelectionChanged" CheckBox.Click="lst_SelectionChanged" >
    <CheckBox Margin="3">Option 1</CheckBox>
    <CheckBox Margin="3">Option 2</CheckBox>
    <CheckBox Margin="3">Option 3</CheckBox>
  </ListBox>
  <StackPanel Grid.Row="1" Margin="0,10,0,0">
    <Button Margin="0,10,0,0" Click="cmd_CheckAllItems">Examine All Items</Button>
  </StackPanel>
</Grid>
</Window>
//File:Window.xaml.vb
```

Imports System

Imports System.Collections.Generic

Imports System.Text

Imports System.Windows

Imports System.Windows.Controls

Imports System.Windows.Data

Imports System.Windows.Documents

Imports System.Windows.Input

Imports System.Windows.Media

Imports System.Windows.Media.Imaging

Imports System.Windows.Shapes

Namespace ClassicControls

Public Partial **Class** CheckBoxList

Inherits System.Windows.Window

Public Sub New()

InitializeComponent()

End Sub

Private Sub lst_SelectionChanged(sender **As** Object, e **As** RoutedEventArgs)

If TypeOf e.OriginalSource Is CheckBox **Then**

lst.SelectedItem = e.OriginalSource

End If

If lst.SelectedItem Is Nothing **Then**

Return

End If

Console.WriteLine(lst.SelectedIndex)

Console.WriteLine(DirectCast(lst.SelectedItem, CheckBox).IsChecked)

End Sub

Private Sub cmd_CheckAllItems(sender **As** Object, e **As** RoutedEventArgs)

For Each item **As** CheckBox **In** lst.Items

If item.IsChecked = True **Then**

Console.WriteLine((Convert.ToString(item.Content) & " is checked."))

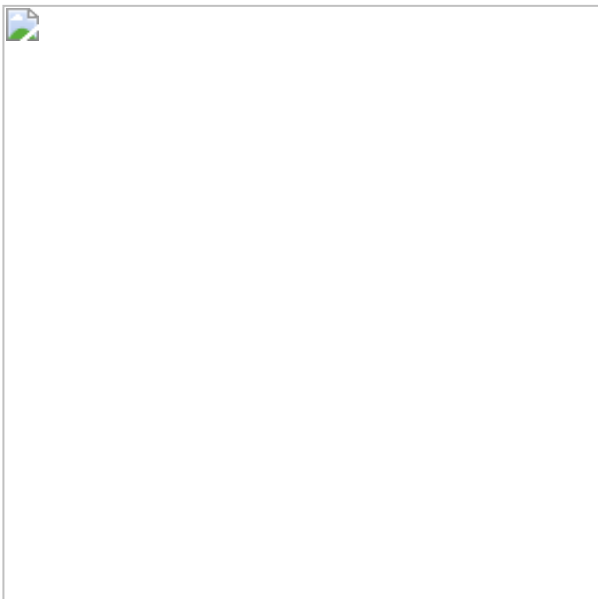
End If

Next

End Sub

End Class

End Namespace



8.Ensure there is at least one item selected

```
<Window x:Class="WpfApplication1.Window1"  
xmlns="http://schemas.microsoft.com/winfx/2006/xaml/presentation"  
xmlns:x="http://schemas.microsoft.com/winfx/2006/xaml"
```



```

    Title="WPF" Height="300" Width="300">
    <StackPanel>
<ListBox FontSize="16" Height="150" Margin="5" Name="listBox1" SelectionMode="Extended">
<ListBoxItem>List Item 1</ListBoxItem>
<ListBoxItem>List Item 2</ListBoxItem>
<ListBoxItem>List Item 3</ListBoxItem>
    </ListBox>
    <StackPanel HorizontalAlignment="Center" Orientation="Horizontal">
    <Label Content="_New item text:" VerticalAlignment="Center"
Target="{Binding ElementName=textBox}" />
<TextBox Margin="5" Name="textBox" MinWidth="120" />
</StackPanel>
<StackPanel HorizontalAlignment="Center" Orientation="Horizontal">
<Button Click="btnAddListItem_Click" Content="Add Item"
IsDefault="True" Margin="5" Name="btnAddListItem" />
<Button Click="btnDeleteListItem_Click" Content="Delete Items" Margin="5" Name="btnDeleteListItem" />
<Button Click="btnSelectAll_Click" Content="Select All" Margin="5" Name="btnSelectAll" />
    </StackPanel>
</StackPanel>
</Window>

```

```
//File:Window.xaml.vb
```

```
Imports System.Windows
```

```
Imports System.Windows.Controls
```

```
Imports System.Windows.Media
```

```
Namespace WpfApplication1
```

```
Public Partial Class Window1
```

```
Inherits Window
```

```
Public Sub New()
```

```
    InitializeComponent()
```

```
End Sub
```

```
Private Sub btnAddListItem_Click(sender As Object, e As RoutedEventArgs)
```

```
If textBox.Text.Length = 0 Then
```

```
    MessageBox.Show("Enter text to add to the list.", Title)
```

```
Else
```

```
    Dim item As New ListBoxItem()
```

```
    item.Content = textBox.Text
```

```
    item.IsSelected = True
```

```
    item.HorizontalAlignment = HorizontalAlignment.Center
```

```
    item.FontWeight = FontWeights.Bold
```

```
    item.FontFamily = New FontFamily("Tahoma")
```

```
    listBox1.Items.Add(item)
```

```
    textBox.Clear()
```

```
    textBox.Focus()
```

```
End If
```

```
End Sub
```

```
Private Sub btnDeleteListItem_Click(sender As Object, e As RoutedEventArgs)
```

```
If listBox1.SelectedItems.Count = 0 Then
```

```
    MessageBox.Show("Select list items to delete.", Title)
```

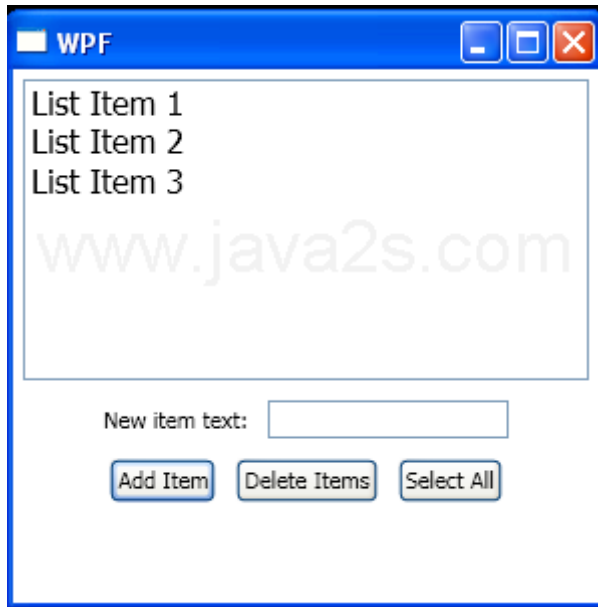
```
Else
```

```
    While listBox1.SelectedItems.Count > 0
```

```

        listBox1.Items.Remove(listBox1.SelectedItems(0))
    End While
End If
End Sub
Private Sub btnSelectAll_Click(sender As Object, e As RoutedEventArgs)
    listBox1.SelectAll()
End Sub
End Class
End Namespace

```



9.Change the Appearance of a List Item When It's Selected

```

<Window x:Class="WpfApplication1.Window1"
    xmlns="http://schemas.microsoft.com/winfx/2006/xaml/presentation"
    xmlns:x="http://schemas.microsoft.com/winfx/2006/xaml"
    xmlns:local="clr-namespace:WpfApplication1;assembly="
    Title="WPF" Height="248" Width="128">
    <Window.Resources>
        <local:Countries x:Key="countries"/>
        <Style x:Key="AlternateStyle">
            <Setter Property="ListBoxItem.Background" Value="LightGray"/>
        </Style>
    </Window.Resources>
    <Grid>
        <ListBox DisplayMemberPath="Name"
            ItemsSource="{Binding Source={StaticResource countries}}">
            <ListBox.ItemContainerStyleSelector>
                <local:AlternatingRowStyleSelector AlternateStyle="{StaticResource AlternateStyle}" />
            </ListBox.ItemContainerStyleSelector>
        </ListBox>
    </Grid>
</Window>
//File:Window.xaml.vb
Imports System.Windows
Imports System.Windows.Controls
Imports System.Collections.ObjectModel

```

Namespace WpfApplication1

Public Class AlternatingRowStyleSelector

Inherits StyleSelector

Public Property DefaultStyle() **As** Style

Get

Return m_DefaultStyle

End Get

Set

m_DefaultStyle = Value

End Set

End Property

Private m_DefaultStyle **As** Style

Public Property AlternateStyle() **As** Style

Get

Return m_AlternateStyle

End Get

Set

m_AlternateStyle = Value

End Set

End Property

Private m_AlternateStyle **As** Style

Private isAlternate **As** Boolean = False

Public Overrides Function SelectStyle(item **As** Object,
container **As** DependencyObject) **As** Style

Dim style **As** Style = **If**(isAlternate, AlternateStyle, DefaultStyle)

isAlternate = Not isAlternate

Return style

End Function

End Class

Public Class Country

Private m_name **As** String

Private m_continent **As** Continent

Public Sub New(name **As** String, continent **As** Continent)

Me.m_name = name

Me.m_continent = continent

End Sub



10. Change the Appearance of a List Item When It's Selected

```

<Window x:Class="WpfApplication1.Window1"
  xmlns="http://schemas.microsoft.com/winfx/2006/xaml/presentation"
  xmlns:x="http://schemas.microsoft.com/winfx/2006/xaml"
  xmlns:WpfApplication1="clr-namespace:WpfApplication1;assembly="
  Title="WPF" Height="248" Width="128">
  <Window.Resources>

    <WpfApplication1:Countries x:Key="countries"/>

    <Style TargetType="{x:Type ListBoxItem}">
      <Setter Property="Content" Value="{Binding Path=Name}"/>
      <Setter Property="Margin" Value="20"/>
      <Style.Triggers>
        <Trigger Property="IsSelected" Value="True">
          <Setter Property="FontWeight" Value="Bold" />
          <Setter Property="FontSize" Value="14" />
        </Trigger>
      </Style.Triggers>
    </Style>
  </Window.Resources>

  <Grid>
    <ListBox ItemsSource="
{Binding Source={StaticResource countries}}"/>
  </Grid>

</Window>
//File:Window.xaml.vb
Imports System.Collections.ObjectModel

Namespace WpfApplication1
  Public Class Country
    Private m_name As String
    Private m_continent As Continent

    Public Sub New(name As String, continent As Continent)
      Me.m_name = name

```

```
Me.m_continent = continent
```

```
End Sub
```

```
Public Property Name() As String
```

```
Get
```

```
Return m_name
```

```
End Get
```

```
Set
```

```
m_name = value
```

```
End Set
```

```
End Property
```

```
Public Property Continent() As Continent
```

```
Get
```

```
Return m_continent
```

```
End Get
```

```
Set
```

```
m_continent = value
```

```
End Set
```

```
End Property
```

```
End Class
```

```
Public Enum Continent
```

```
Europe
```

```
NorthAmerica
```

```
End Enum
```

```
Public Class Countries
```

```
Inherits Collection(Of Country)
```

```
Public Sub New()
```

```
Me.Add(New Country("Great Britan", Continent.Europe))
```

```
Me.Add(New Country("USA", Continent.NorthAmerica))
```

```
Me.Add(New Country("Canada", Continent.NorthAmerica))
```

```
End Sub
```

```
End Class
```

```
End Namespace
```

