

RadListBox For Silverlight and WPF

This tutorial will introduce the RadListBox control, part of the Telerik suite of XAML controls.

Setting Up The Project

To begin, open Visual Studio and click on the Telerik menu option. Under *Rad Controls For Silverlight* click on *Create New Telerik Project*. Name your project, accept Silverlight 5 and in the Project Configuration Wizard dialog check Controls, as shown in figure 1.

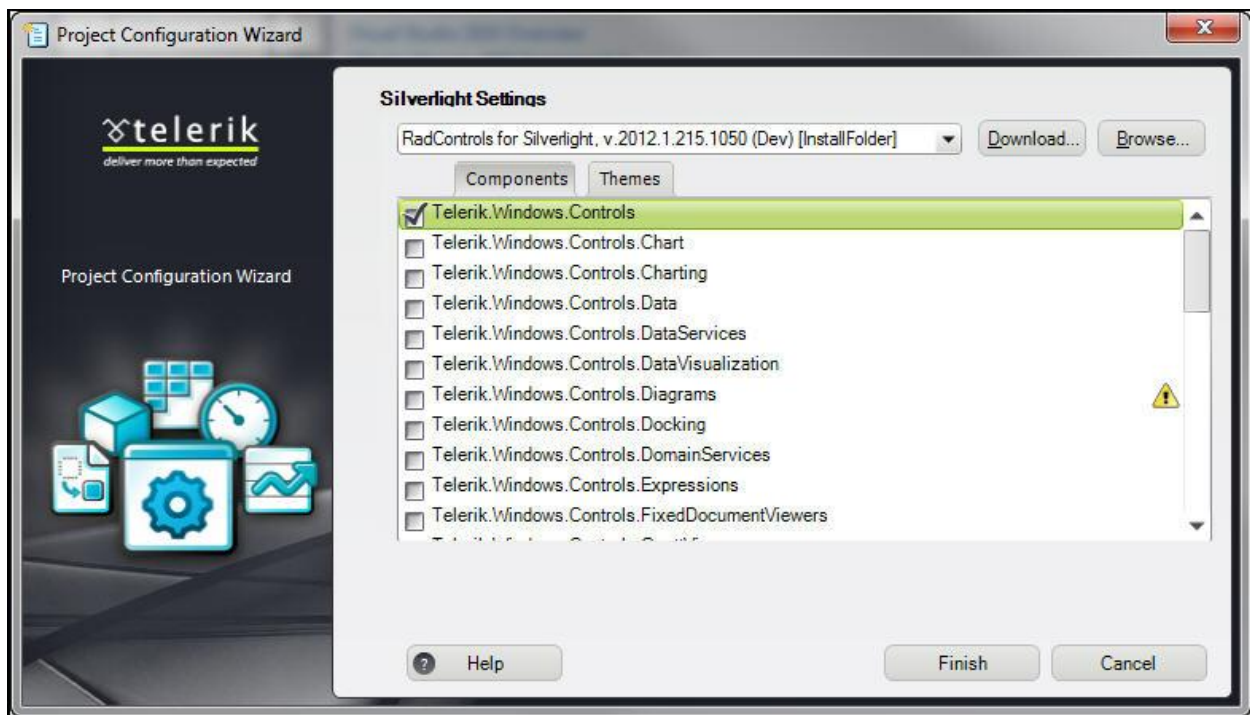


Figure 1

When you click ok, the necessary assembly is added to the References as shown in figure 2

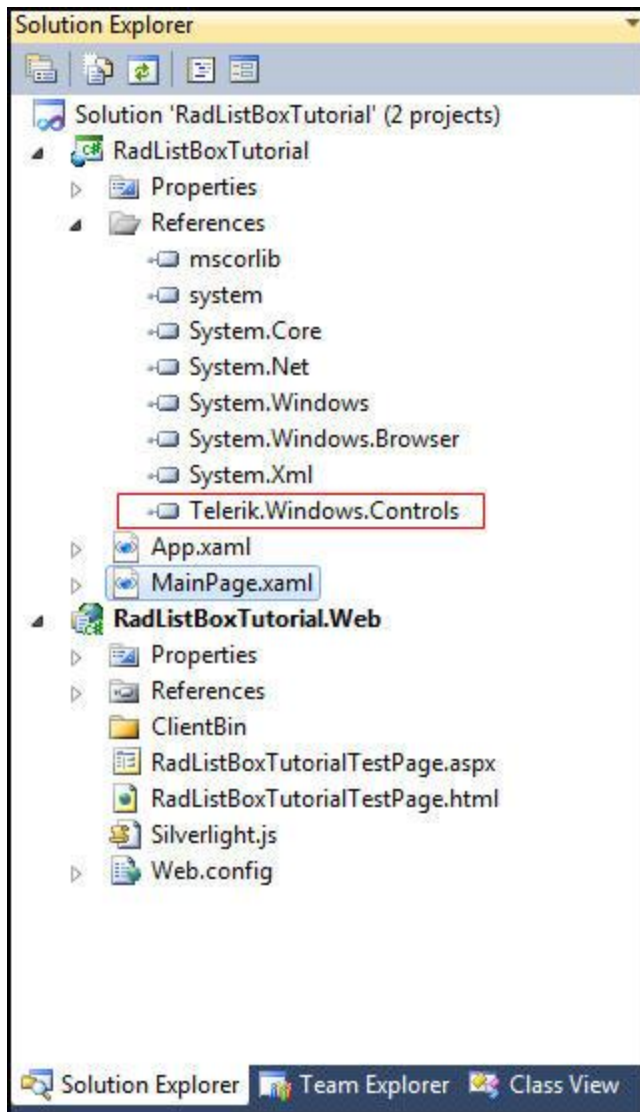


Figure 2

Your application will open to MainPage.xaml and, thanks to the Telerik Visual Studio extensions, the namespace *telerik* will already have been created in the XAML heading.

```
<UserControl x:Class="RadBarcode.GettingStarted.MainPage"
    xmlns="http://schemas.microsoft.com/winfx/2006/xaml/presentation"
    xmlns:x="http://schemas.microsoft.com/winfx/2006/xaml"
    xmlns:d="http://schemas.microsoft.com/expression/blend/2008"
    xmlns:mc="http://schemas.openxmlformats.org/markup-compatibility/2006"
    xmlns:telerik="http://schemas.telerik.com/2008/xaml/presentation"
    mc:Ignorable="d" d:DesignWidth="640" d:DesignHeight="480">
```

We need some data to work with. We'll create an Employee class to represent (surprise!) employees of a company.

```

public class Employee
{
    public string PathData { get; set; }
    public string FirstName { get; set; }
    public string LastName { get; set; }
}

```

The PathData holds a path to an avatar for the Employee. We also need an EmployeeService to generate a set of Employee instances (we recommend you download this from the associated source code). Here's an excerpt from the service,

```

public class EmployeeService
{
    public static ObservableCollection<Employee> GetEmployees()
    {
        ObservableCollection<Employee> employees = new
ObservableCollection<Employee>();
        Employee employee = new Employee();
        employee.PathData = "M9.4136295,2.4576555E-05 C14.800209,-0.013108866
21.555286,5.2417045 L22.176739,5.7343717 L22.197632,5.7509871 L22.217262,5.7353773
C22.838715,5.2427092 L29.593792,-0.012109431 L34.98037,0.0010241366 C35.357132,0.0019429834
35.727203,0.028634096 L36.088013,0.084530063 C42.004845,1.0011631 L47.504379,6.5009952
42.3377,16.251131 C37.251743,25.848923 L27.320799,36.495747 L22.4014,37.30304
L22.224001,37.326874 L22.224001,37.333 L22.22303,37.332958 L22.200874,37.329983
L22.170971,37.334 L22.170465,37.325897 L21.992601,37.301998 C17.073202,36.494705
7.1422567,25.847895 L2.056303,16.250114 C-3.1103802,6.4999881 L2.3891582,1.0001625
8.3059864,0.083530508 C8.6667957,0.027634615 L9.0368671,0.00094353169
9.4136295,2.4576555E-05 z";
        employee.FirstName = "Maria";
        employee.LastName = "Anders";
        employees.Add(employee);
        employee = new Employee();
        employee.PathData = "M15.647604,0 L15.722293,0.2259102 L15.796986,0
L19.52689,11.467036 L31.44397,11.467036 L21.802914,18.464333 L25.560999,30.018
L15.722294,22.877533 L5.8839722,30.018 L9.641818,18.464611 L0,11.467036
L11.917845,11.467036 z";
        employee.FirstName = "Ana";
        employee.LastName = "Trujillo";
        employees.Add(employee);
    }
}

```

Switching to MainPage.xaml we want to layout how we're going to display the items in the listBox. For that we'll need to add an ItemTemplate with a DataTemplate inside it.

```

<telerik:RadListBox Name="xRadListBox" Margin="50" >
    <telerik:RadListBox.ItemTemplate>
        <DataTemplate>
            </DataTemplate>
        </telerik:RadListBox.ItemTemplate>
    </telerik:RadListBox>

```

Inside the DataTemplate we'll create a Grid with two columns, in the ratio of 1:4

```

<Grid>
    <Grid.ColumnDefinitions>
        <ColumnDefinition Width="1*" />
        <ColumnDefinition Width="4*" />
    </Grid.ColumnDefinitions>

```

The first item in the Grid is the Path, which will be in column 0,

```

<Path Data="{Binding PathData}" Fill="Red" Width="50" Height="50" Margin="10"
HorizontalAlignment="Center" />

```

The second item in the Grid is a stack panel in column 1 that holds the first and last name.

```

<StackPanel Grid.Column="1">
    <TextBlock Text="{Binding FirstName}" />
    <TextBlock Text="{Binding LastName}"/>
</StackPanel>

```

The binding needs a data source. Since this is a list box, we can accomplish that by assigning a collection to the ItemsSource property, which we'll do in the Loaded event handler in the code-behind,

```

public MainPage()
{
    InitializeComponent();
    Loaded += new RoutedEventHandler(MainPage_Loaded);
}

void MainPage_Loaded(object sender, RoutedEventArgs e)
{
    xRadListBox.ItemsSource = EmployeeService.GetEmployees();
}

```

The result is a list box with two columns: icon on the left and name on the right, as shown in figure 3,

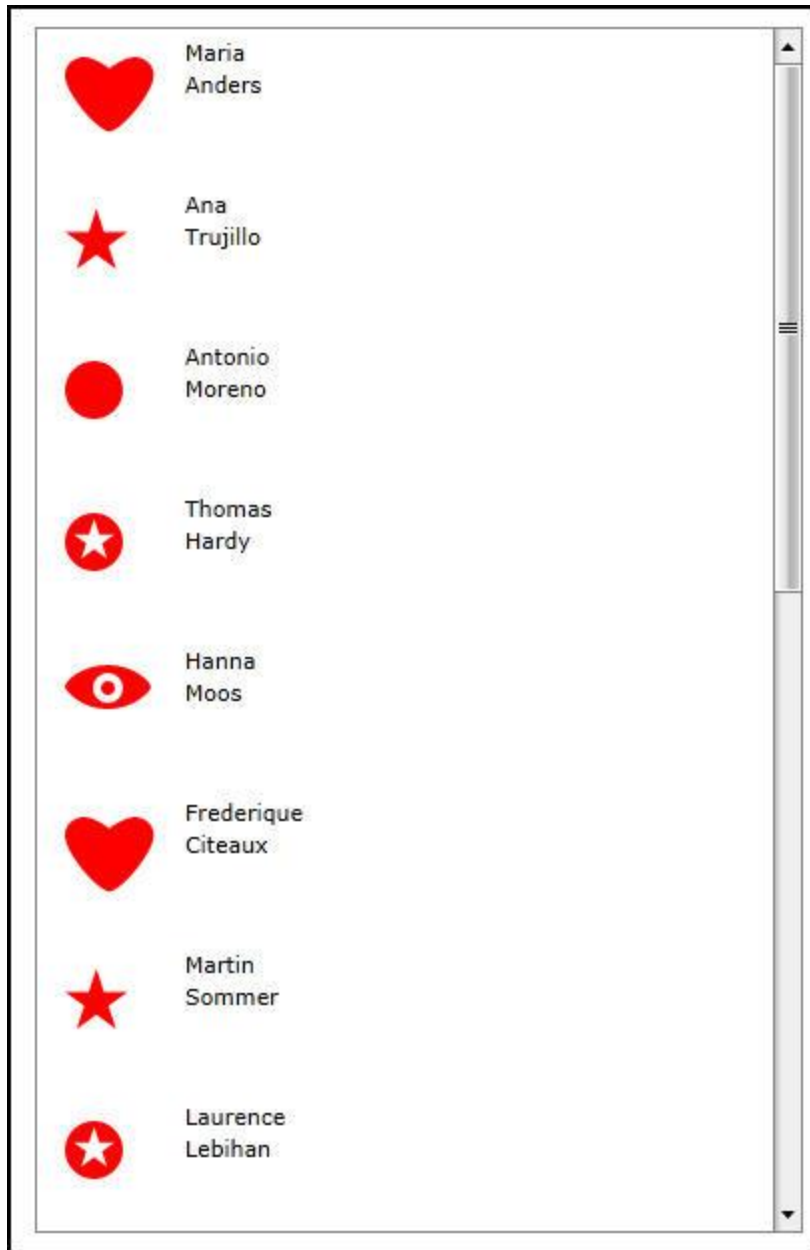


Figure 3

Searching and Selecting

Return to the example shown above, but remove the `ItemTemplate` entirely and instead, add a `DisplayMemberPath` attribute,

```
<telerik:RadListBox DisplayMemberPath="FirstName" Name="xRadListBox" Margin="50" />
```

If you run the application now, the list box will be filled with the first name of all 15 of the items generated by the Employee service.

To enable searching, you'll need to modify the RadListBox declaration by adding

`IsTextSearchEnabled="True"`

And setting the TextSearchMode as shown in figure 4,

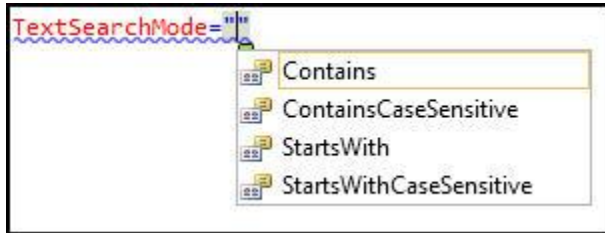


Figure 4

Assuming we choose *StartsWith*, when looking at the RadListBox you can begin typing and the selection will jump to the first matching entry. As you type you can narrow down to the entry you have in mind.

To control whether the user can select only a single value or multiple values, you can set the SelectionMode, as shown in figure 5,

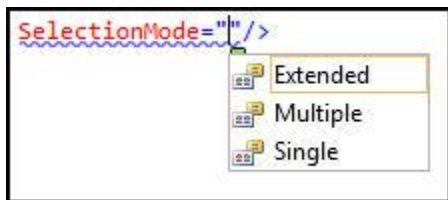


Figure 5

Assuming you choose *Multiple*, the user can control-select multiple items, as shown in figure 6,

Maria
Ana
Antonio
Thomas
Hanna
Frederique
Martin
Laurence
Elizabeth
Victoria
Paul
Kristen
Charles
Etta
Edward

Figure 6