

Data Binding

The RadRichTextBox allows you to export and import its documents into various document formats. Some of them export and import the document from and to text – **HTML, XAML, Plain Text**. If you want to bind this text to RadRichTextBox's document, you can use the following classes:

- **XamlDataProvider** to bind XAML source to RadRichTextBox
- **HtmlDataProvider** to bind HTML source to RadRichTextBox
- **TxtDataProvider** to bind plain text source to RadRichTextBox

These classes feature two important properties – RichTextBox, which specifies which **RadRichTextBox** instance this data provider is attached to and the respective text property (**Xaml** for XamlDataProvider, **Html** for HtmlDataProvider and **Text** for TxtDataProvider).

Here's an example to get you started with the data providers:

```
<UserControl x:Class="RichTextBoxDemo.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:documents="clr-
namespace:Telerik.Windows.Controls;assembly=Telerik.Windows.Documents"
    xmlns:documentsXaml="clr-
namespace:Telerik.Windows.Documents.FormatProviders.Xaml;assembly=Telerik.Windows.Documen
ts.FormatProviders.Xaml"
    mc:Ignorable="d"
    d:DesignHeight="300" d:DesignWidth="400">
    <UserControl.Resources>
        <documentsXaml:XamlDataProvider x:Key="xamlDataProvider"
RichTextBox="{Binding ElementName=richTextBox}" Xaml="{Binding ElementName=textBox,
Path=Text, Mode=TwoWay}" />
    </UserControl.Resources>
    <Grid x:Name="LayoutRoot" Background="White">
        <Grid.RowDefinitions>
            <RowDefinition Height="*" />
            <RowDefinition Height="*" />
        </Grid.RowDefinitions>

        <documents:RadRichTextBox Margin="2" Grid.Row="0" Name="richTextBox" />
        <TextBox Margin="2" Grid.Row="1" Name="textBox" />
    </Grid>
</UserControl>
```

The UI consists of two elements – a plain RadRichTextBox and a TextBox, which will display the document as XAML text. The main functionality is contained in the **documentsXaml.XamlDataProvider**. It's attached to the RadRichTextBox and its Xaml property is bound to the TextBox's text. This provides bi-directional binding between the document's contents and the XAML in the TextBox, which can be replaced with anything ranging from database field to DataForm's item property.

At some point, you may want to start customizing the documents' appearance or otherwise modify the document after it has been imported but before it's shown. Data providers facilitate this by exposing a **SetupDocument** event. It's fired every time the data provider instantiates a new document so you can modify the document. Here's how to do that.

```
<documentsXaml:XamlDataProvider x:Key="xamlDataProvider" RichTextBox="{Binding  
ElementName=richTextBox}" Xaml="{Binding ElementName=textBox, Path=Text, Mode=TwoWay}"  
SetupDocument="XamlDataProvider_SetupDocument" />
```

And in code-behind:

```
private void XamlDataProvider_SetupDocument(object sender,  
Telerik.Windows.Documents.FormatProviders.SetupDocumentEventArgs e)  
{  
    e.Document.LayoutMode = DocumentLayoutMode.Paged;  
}
```

Here we change the document's LayoutMode, however you can apply any number of modifications to the document.