

# Course API Comparison

## Chapter C3: A WPF Project completely written in C#

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### Preliminaries

Guidance for **Visual C# 2008 Express Edition**:

1) Main Menu after start of VS 2008: Tools → Options →  
check lower left checkbox: Show all Settings → Projects and Solutions →  
Visual Studio projects location: → C:\temp

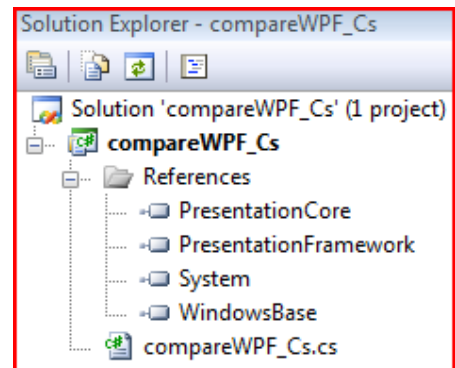
2) Main Menu after start of VS 2008: File → New Project... →  
Visual Studio installed templates: Empty Project →  
Name: compareWPF\_Cs → OK

3) Main Menu after start of VS 2008: Project... → compareWPF\_Cs Properties → Application →  
Output type: switch from Console Application to Windows Application

4) In the Solution Explorer-window right click the branch  
References. Add Reference → .NET-tab →  
scroll down until you find Presentation Core. Click OK.  
Check whether Presentation Core arrived in the branch  
References.

In the same way you have to add 3 more references:  
Presentation Framework, System and WindowsBase.

5) In the Solution Explorer-window right click the main  
branch compareWPF\_Cs. Choose Add → New Item →  
Code File → Name: compareWPF\_Cs.cs



## compareWPF\_Cs.cs

Write the following lines into the empty window of compareWPF\_Cs.cs:

```
using System;
using System.Windows;
using System.Windows.Controls;
using System.Windows.Media;
class WPF_Cs : Application
{ [STAThread] public static void Main()
{ Window window = new Window();
  Viewbox viewbox = new Viewbox();
  Border border = new Border();
  StackPanel stackPanel = new StackPanel();
  Button button1 = new Button();
  Button button2 = new Button();
  window.Title = "WPF Windows Program in C#";
  window.Width = 500;
  window.Height = 80;
  window.Content = viewbox;
  window.Show();
  viewbox.Child = border;
  border.Child = stackPanel;
  border.BorderBrush = new SolidColorBrush( Colors.Black );
  border.BorderThickness = new Thickness( 2 );
  stackPanel.Orientation = Orientation.Horizontal;
  stackPanel.Margin = new Thickness( 2 );
  stackPanel.Children.Add( button1 );
  stackPanel.Children.Add( textBox );
  stackPanel.Children.Add( button2 );
  button1.Content = "Talk!";
  button2.Content = "Clear";
  button1.Click += new RoutedEventHandler( button1Click );
  button2.Click += new RoutedEventHandler( button2Click );
  textBox.Margin = new Thickness( 2, 0, 2, 0 );
  textBox.TextAlignment = TextAlignment.Center;
  textBox.MinWidth = 300;
  new Application().Run();
}
static TextBox textBox = new TextBox();
static void button1Click ( Object sender, EventArgs e )
{ textBox.Text = "WPF Windows Program in C#. Resize!";
}
static void button2Click ( Object sender, EventArgs e )
{ textBox.Text = "";
}
}
```

Click Debug → Start Without Debugging Ctrl F5.

Click the Talk!-button and resize the window.