

# Binding FontFamily / FontSize value for current Control



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# Bind to a Collection with the Master-Detail Pattern



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# Bind to IDataErrorInfo

```
//File:Window.xaml.cs
using System.Windows;
using System.ComponentModel;
namespace WpfApplication1
```

```

{
public partial class Window1 : Window
{
public Window1()
{
InitializeComponent();
this.DataContext = new Employee(){FirstName = "A",Age = 26,};
}
}

public class Employee : INotifyPropertyChanged,IDataErrorInfo
{
private string firstName;
private int age;

public Employee()
{
FirstName = "A";
}

public string FirstName
{
get
{
return firstName;
}
set
{
if(firstName != value)
{
firstName = value;
OnPropertyChanged("FirstName");
}
}
}

public int Age
{
get

```

```

{
return age;
}
set
{
if(this.age != value)
{
this.age = value;
OnPropertyChanged("Age");
}
}
}

```

```

public event PropertyChangedEventHandler PropertyChanged;

```

```

private void OnPropertyChanged(string propertyName){
if(this.PropertyChanged != null)
{
this.PropertyChanged(this, new
PropertyChangedEventArgs(propertyName));
}
}

```

```

public string Error
{
get
{
return string.Empty;
}
}

```

```

public string this[string propertyName]
{
get
{
string message = string.Empty;

switch(propertyName)
{

```

```
case "FirstName":  
if(string.IsNullOrEmpty(firstName))  
message = "A person must have a first name.";  
break;  
  
case "Age":  
if(age < 1) message = "A person must have an age."; break;  
default: break; } return message; } } } } [/csharp]
```

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## Bind to a collection



## DataTemplate for binding



## Binding Environment Info



# Bind to an ADO.NETDataSet



Add Record

```
//File:Window.xaml.cs
using System;
using System.Collections;
using System.ComponentModel;
using System.Data;
using System.Data.OleDb;
using System.IO;
using System.Globalization;
using System.Windows;
using System.Windows.Controls;
using System.Windows.Data;
```

```

using System.Windows.Documents;
using System.Collections.Generic;

namespace WpfApplication1
{
    public partial class Window1 : Window
    {
        public Window1()
        {
            this.InitializeComponent();
        }
        DataSet myDataSet;
        private void OnInit(object sender, EventArgs e)
        {
            OleDbConnection conn = new
            OleDbConnection("Provider=Microsoft.Jet.OLEDB.4.0; Data
            Source=c:BookData.mdb");
            OleDbDataAdapter adapter = new OleDbDataAdapter("SELECT * FROM
            BookTable;", conn);

            myDataSet = new DataSet();
            adapter.Fill(myDataSet, "BookTable");

            myListBox.DataContext = myDataSet;
        }
        private void OnClick(object sender, RoutedEventArgs e)
        {
            DataTable myDataTable = myDataSet.Tables["BookTable"];
            DataRow row = myDataTable.NewRow();

            row["Title"] = "A";
            row["ISBN"] = "0-1111-1111-2";
            row["NumPages"] = 1;
            myDataTable.Rows.Add(row);
        }
        public class IntColorConverter : IValueConverter
        {

```

```
public object Convert(object value, Type targetType, object
parameter, CultureInfo culture)
{
int numValue = (int)value;
if (numValue < 50) return System.Windows.Media.Brushes.Green;
else return System.Windows.Media.Brushes.Red; } public object
ConvertBack(object value, Type targetType, object parameter,
CultureInfo culture) { return null; } } } [/csharp]
```