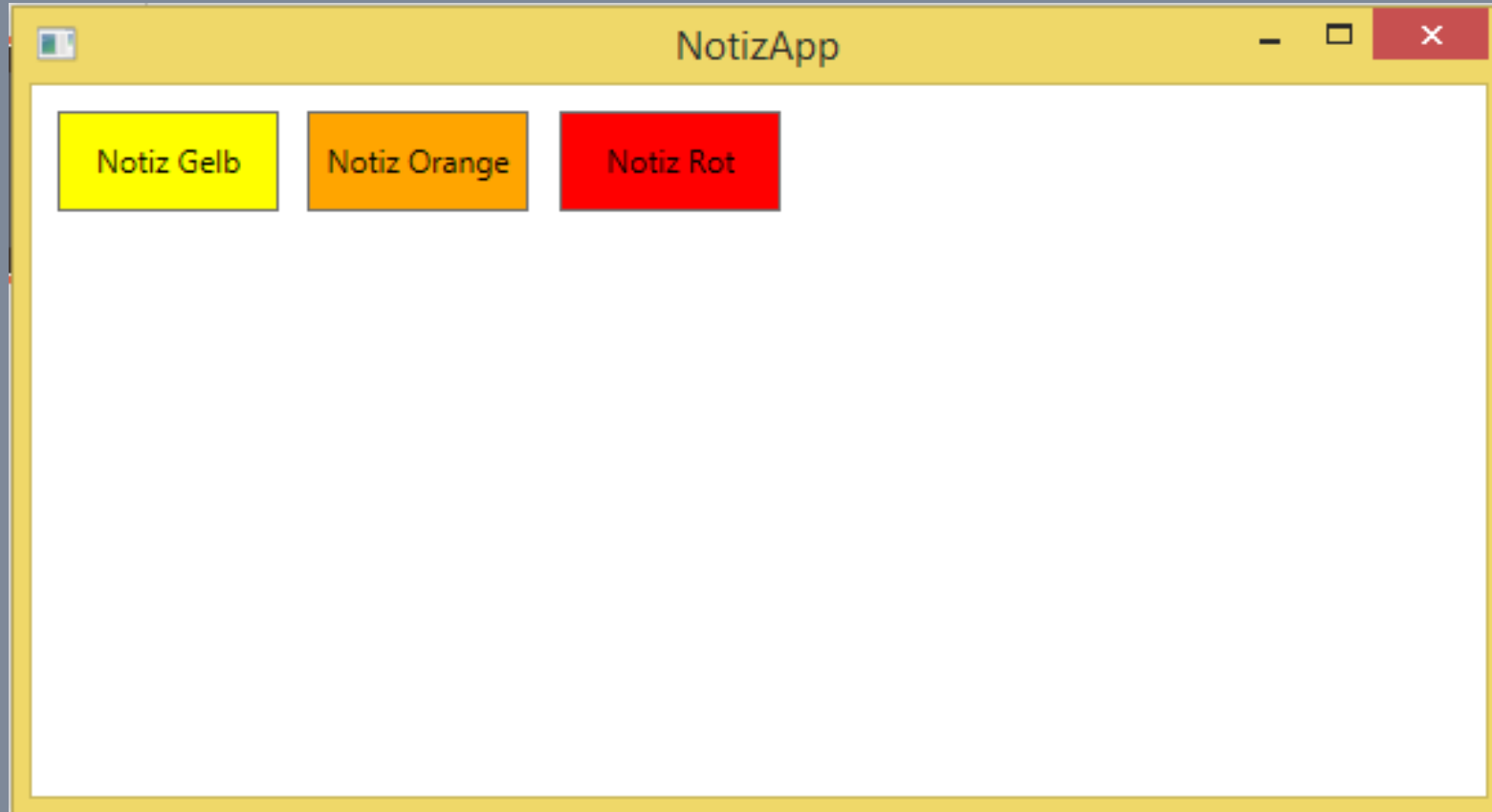


WPF Notizblock



Funktionen

Öffnen eines
Neuen Fensters
Durch klicken auf die
Notiz Buttons

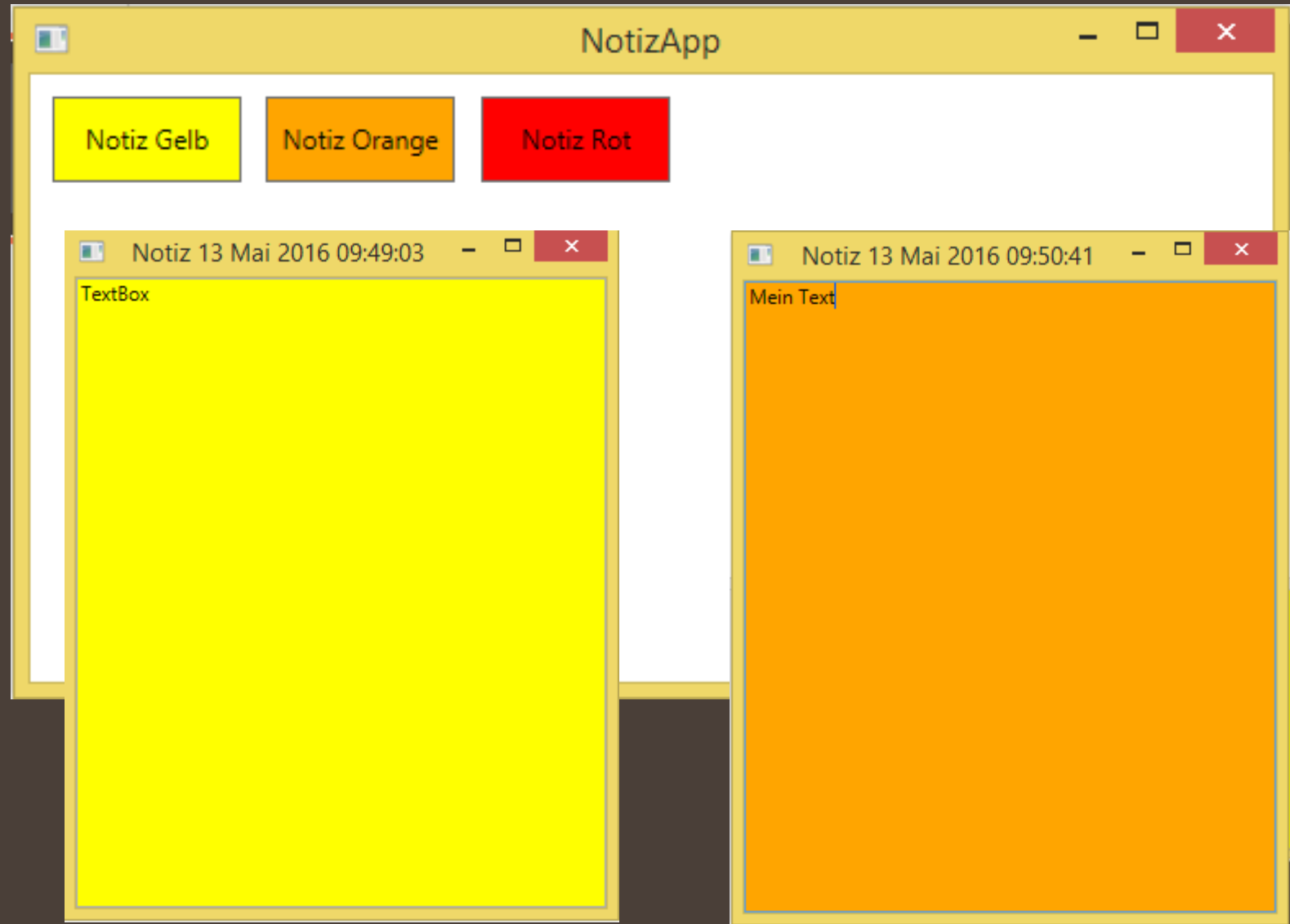
Speichern aller
offenen Notizen
beim schließen des
Hauptfensters
in einer JASON
Textdatei des
Programm Ordners

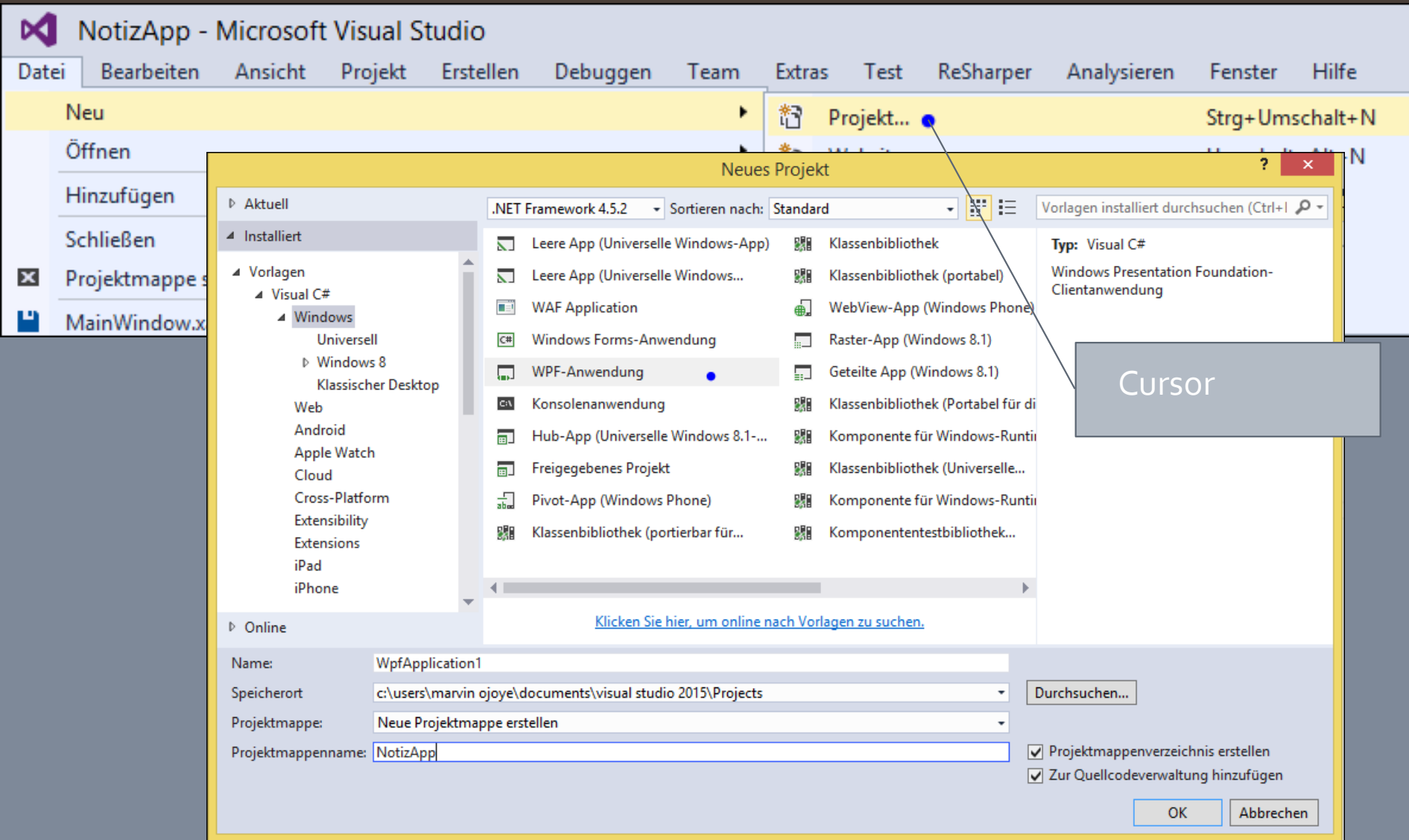
Funktion der Buttons

Klickt man auf einen Button
Öffnet sich ein neues Text Feld
Fenster.

Mit dem gleichen
Farbhintergrund
Wie der Button auf dem man
geklickt hat.

Schließt man das Fenster das
man
Mit den Button Click geöffnet
hat
Werden die Texteingaben nicht
gespeichert.

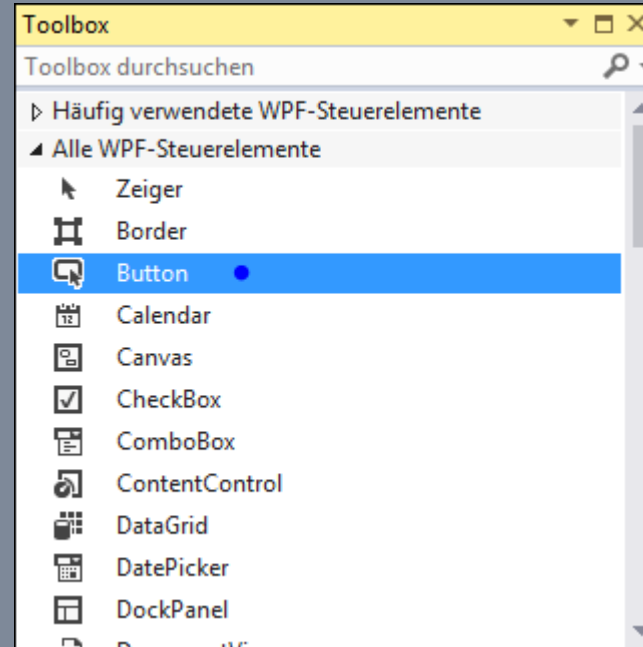
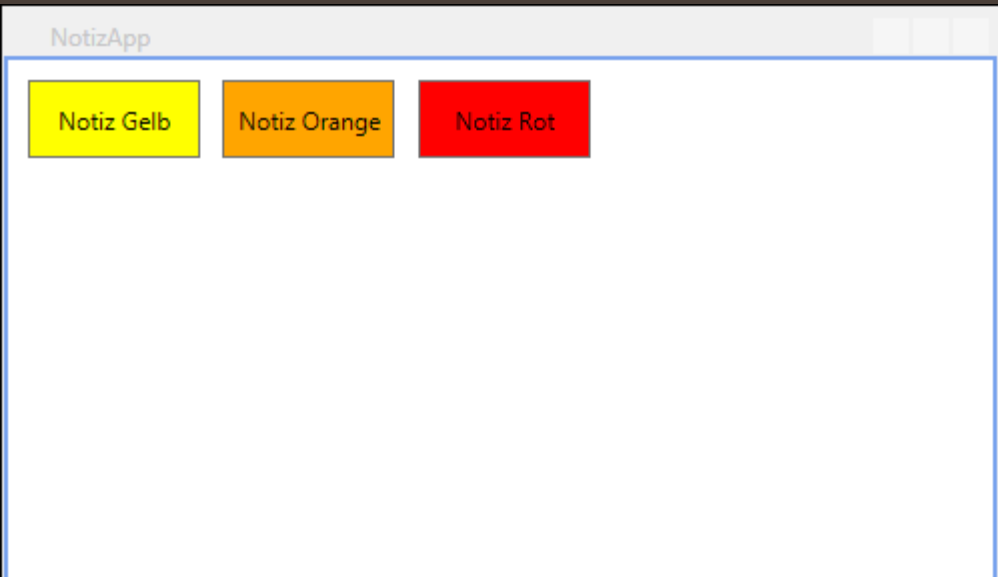




Vorbereitung

Öffnen eines WPF Projekts

Notizen C# WPF Anwendung



```
<Window x:Class="NotizApp.MainWindow"
        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:local="clr-namespace:NotizApp"
        mc:Ignorable="d"
        Title="NotizApp" Height="500" Width="500" Closing="MainWindow_OnClosing">
    <Grid x:Name="NotizApp">
        <Button x:Name="button0" Content="Notiz Gelb" HorizontalAlignment="Left" Height="39" Margin="10,10,0,0" VerticalAlignment="Top" Width="86" Click="Button_OnClick" Background="Yellow"/>
        <Button x:Name="button0" Content="Notiz Orange" HorizontalAlignment="Left" Height="39" Margin="107,10,0,0" VerticalAlignment="Top" Width="86" Click="Button_OnClick" Background="Orange"/>
        <Button x:Name="button0" Content="Notiz Rot" HorizontalAlignment="Left" Height="39" Margin="205,10,0,0" VerticalAlignment="Top" Width="86" Click="Button_OnClick" Background="Red"/>
    </Grid>
</Window>
```

Design

MainWindow XAML
Design

```
<Window x:Class="NotizApp.MainWindow"
        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:local="clr-namespace:NotizApp"
        mc:Ignorable="d"
        Title="NotizApp" Height="500" Width="500" Closing="MainWindow_OnClosing">
    <Grid x:Name="NotizApp">
        <Button x:Name="buttong" Content="Notiz Gelb" HorizontalAlignment="Left" Height="39" Margin="10,10,0,0"
VerticalAlignment="Top" Width="86" Click="Button_OnClick" Background="Yellow"/>
        <Button x:Name="buttono" Content="Notiz Orange" HorizontalAlignment="Left" Height="39" Margin="107,10,0,0"
VerticalAlignment="Top" Width="86" Click="Button_OnClick" Background="Orange"/>
        <Button x:Name="buttongn" Content="Notiz Rot" HorizontalAlignment="Left" Height="39" Margin="205,10,0,0"
VerticalAlignment="Top" Width="86" Click="Button_OnClick" Background="Red"/>
    </Grid>
</Window>
```



Doppel Click auf
Eine Eigenschaft damit Visual Studio
den Eventhandler (object sender, EventArgs e)
In der MainWindow.xaml.cs initialisiert.

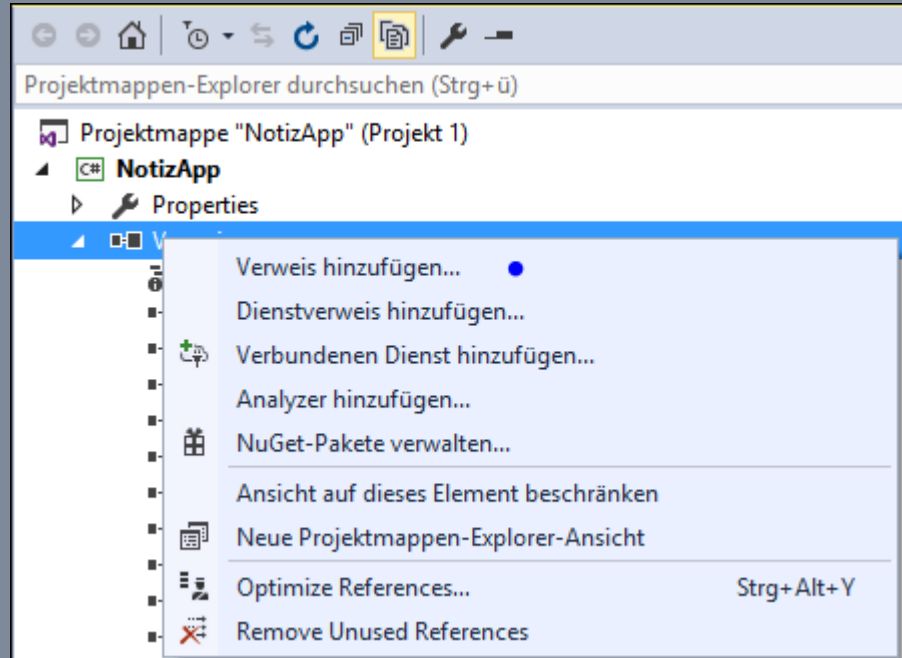
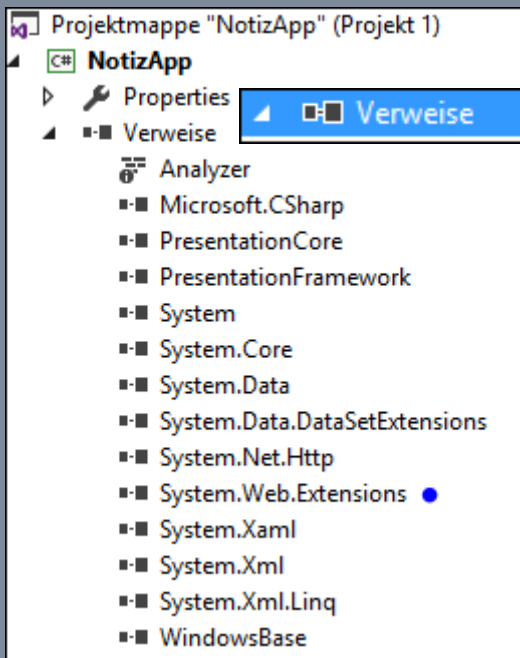
Vorbereitung MainWindow XAML Code

```
<Window x:Class="NotizApp.MainWindow"
        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:local="clr-namespace:NotizApp"
        mc:Ignorable="d"
        Title="NotizApp" Height="500" Width="500" Closing="MainWindow_OnClosing">
    <Grid x:Name="NotizApp">
        <Button x:Name="buttong" Content="Notiz Gelb" HorizontalAlignment="Left" Height="39" Margin="10,10,0,0"
VerticalAlignment="Top" Width="86" Click="Button_OnClick" Background="Yellow"/>
        <Button x:Name="buttono" Content="Notiz Orange" HorizontalAlignment="Left" Height="39" Margin="107,10,0,0"
VerticalAlignment="Top" Width="86" Click="Button_OnClick" Background="Orange"/>
        <Button x:Name="buttongn" Content="Notiz Rot" HorizontalAlignment="Left" Height="39" Margin="205,10,0,0"
VerticalAlignment="Top" Width="86" Click="Button_OnClick" Background="Red"/>
    </Grid>
</Window>
```

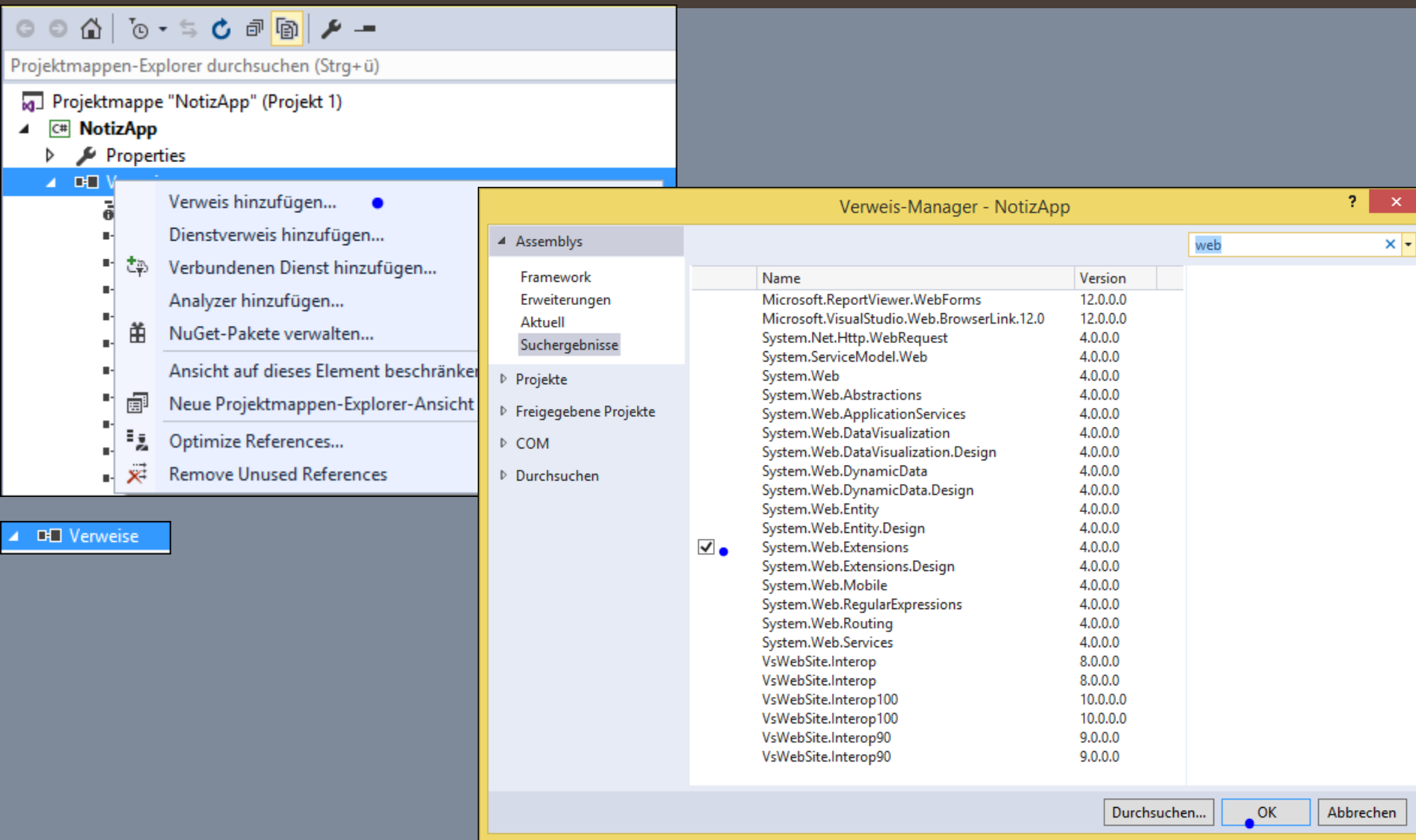
Doppel Click auf
Eine Eigenschaft damit Visual Studio
den Eventhandler (object sender, EventArgs e)
In der MainWindow.xaml.cs initialisiert.

```
private void Button_OnClick(object sender, RoutedEventArgs e)
{
}
}
```

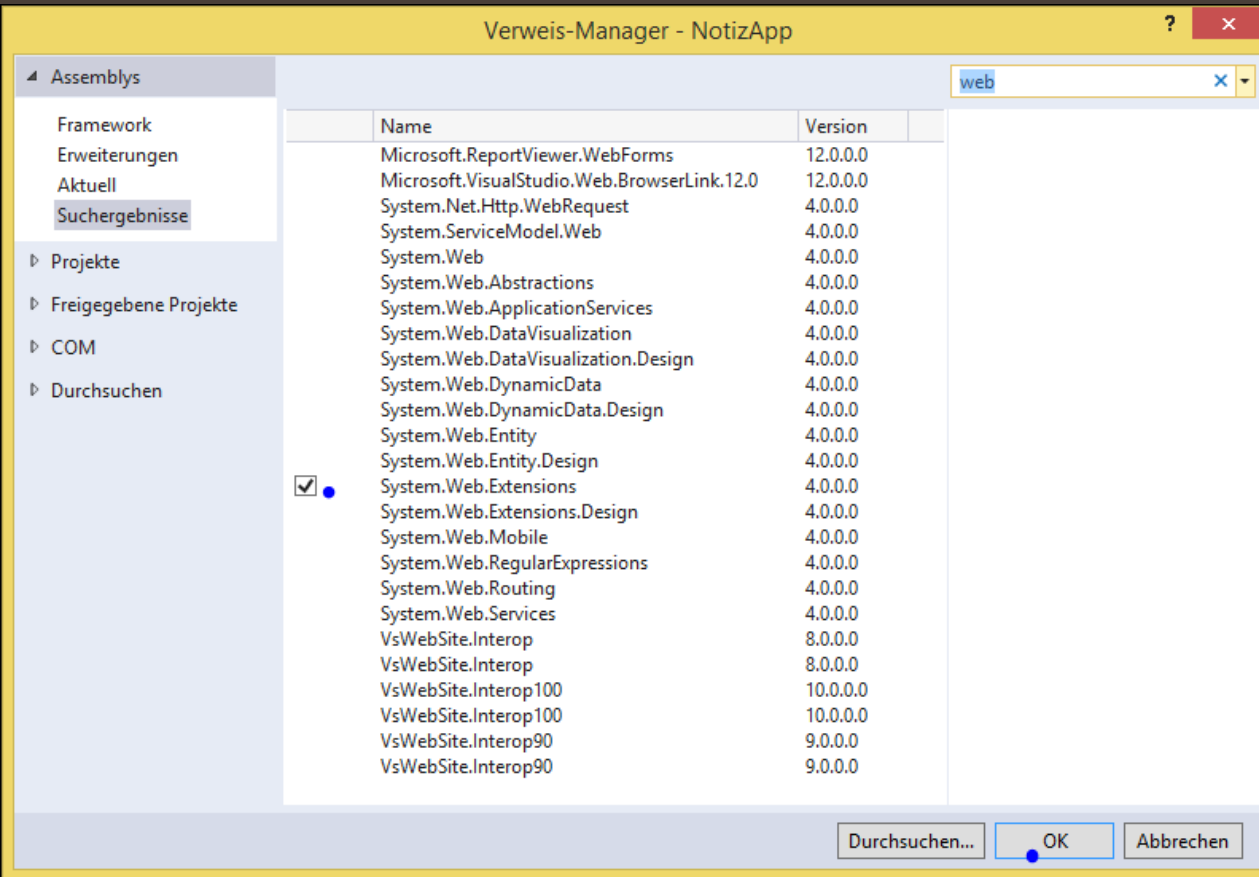
Vorbereitung MainWindow XAML Code



Vorbereitung Der JASON Serialisierung



Vorbereitung Der JASON Serialisierung

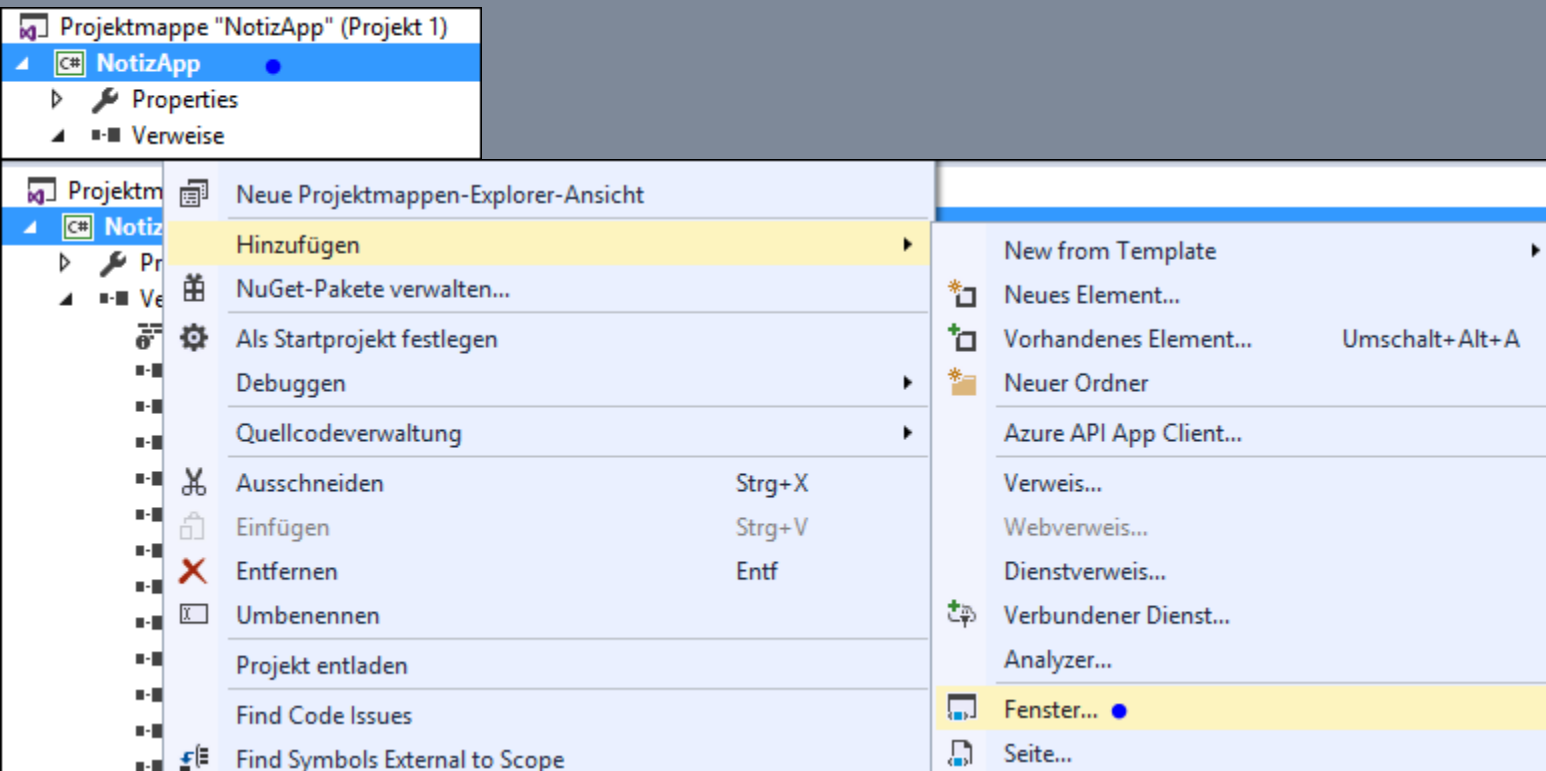


```
using System;
using System.Collections.Generic;
using System.ComponentModel;
using System.IO;
using System.Linq;
using System.Security.Cryptography.X509Certificates;
using System.Text;
using System.Threading;
using System.Threading.Tasks;
using System.Web.Script.Serialization;
using System.Windows;
using System.Windows.Controls;
using System.Windows.Data;
using System.Windows.Documents;
using System.Windows.Input;
using System.Windows.Media;
using System.Windows.Media.Imaging;
using System.Windows.Navigation;
using System.Windows.Shapes;
using System.Xml.Serialization;
```

Vorbereitung

Der JASON Serialisierung
In der
MainWindow.xaml.cs

```
String Savefile = "Notizen.json";
var JASONString = File.ReadAllText(Savefile);
var ser = new JavaScriptSerializer();
var datenliste = ser.Deserialize<List<Notizdaten>>(JASONString);
```

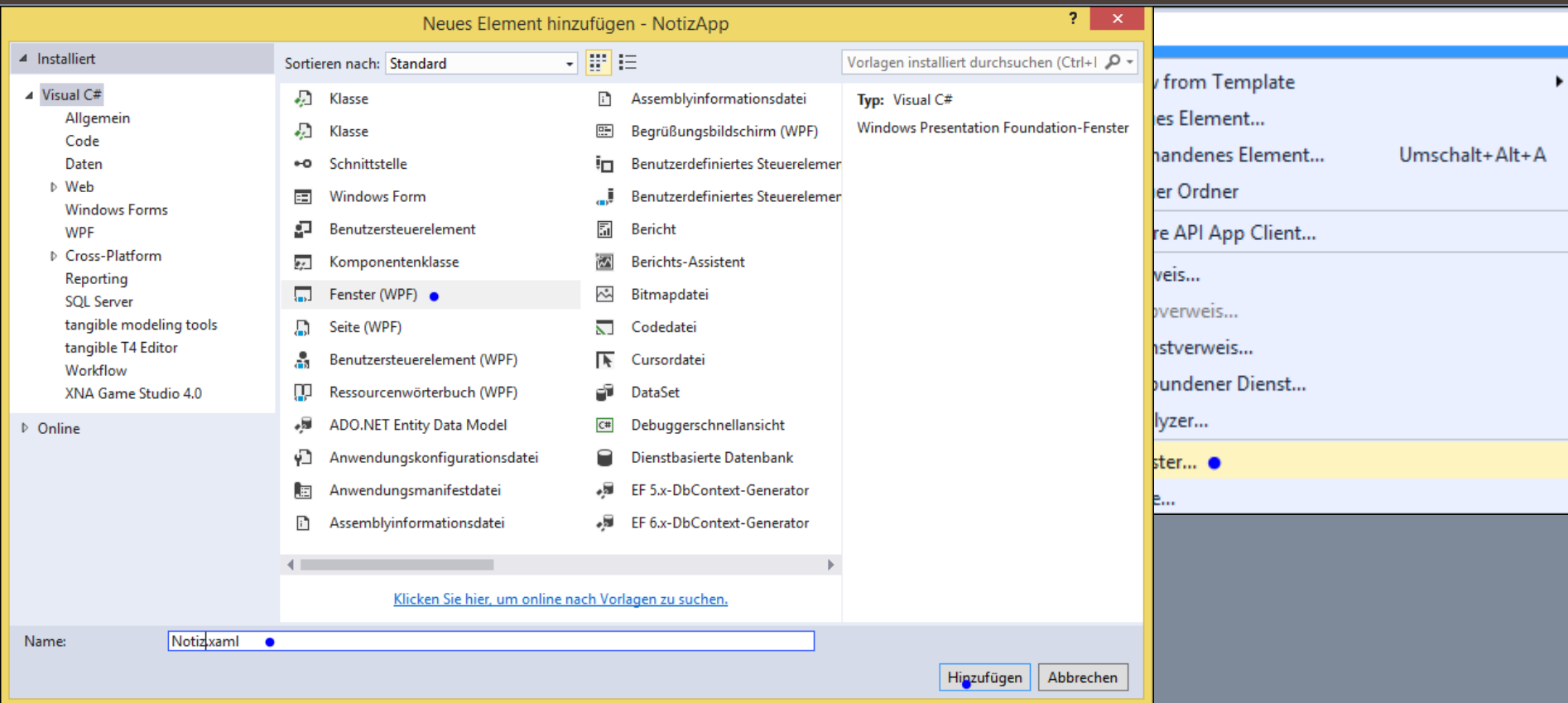


Vorbereitung

Notiz.xaml

Notiz.xaml.cs

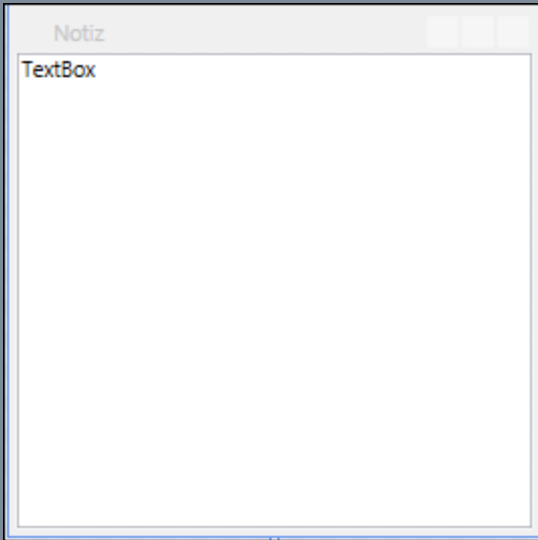
Notizen C# WPF Anwendung



Vorbereitung

Notiz.xaml

Notiz.xaml.cs



```
<Window x:Class="NotizApp.Notiz"
        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:local="clr-namespace:NotizApp"
        mc:Ignorable="d"
        Title="Notiz" Height="300" Width="300">
    <Grid>
        <TextBox x:Name="textBox" Margin="0,0,0,0" HorizontalAlignment="Stretch" TextWrapping="Wrap" Text="TextBox">
        </TextBox>
    </Grid>
</Window>
```

Design

Notiz.xaml

textBox =

Name des Textfeldes

Notiz.xaml.cs

-Tietel = Notiz

+ Datum Format =>

" dd MMM yyyy

hh:mm:ss"

TextBox.Background =

Wird durch

Notiz(Brush far)

Oder Notizdaten() {get,}

geändert

```
/// <summary>
/// Serialisierungs eigenschaften zur Liste setzen
/// </summary>
Namespace NotizApp.Notiz
{
    public Notizdaten Daten
    {
        get
        {
            var n = new Notizdaten();
            n.Farbe = textBox.Background;
            n.Zeitpunkt = Zeitpunkt;
            n.Inhalt = textBox.Text;
            return n;
        }
        set
        {
            textBox.Background = value.Farbe; ;
            textBox.Text = value.Inhalt;
            Zeitpunkt = value.Zeitpunkt;
            Title += Zeitpunkt.
            ToString(" dd MMM yyyy hh:mm:ss");
        }
    }
}
```

```
/// <summary>
/// Notizfenster Eigenschaften Setzen
/// </summary>
namespace NotizApp
{
    public partial class Notiz : Window
    {
        public string Inhalt;
        public DateTime Zeitpunkt = DateTime.Now;
        public Brush farbe;

        public Notiz(Brush far)
        {
            InitializeComponent();
            Title += Zeitpunkt.
            ToString(" dd MMM yyyy hh:mm:ss");
            textBox.Background = far;
            farbe = far;
        }
        public Brush Farbe { get; }
    }

    namespace NotizApp.Notiz
    {
        /// <summary>
        /// Serialisierungs config für JASON Format
        /// </summary>
        public class Notizdaten
        {
            public Brush Farbe;
            public string Inhalt;
            public DateTime Zeitpunkt;
        }
    }
}
```

Code

Notiz.xaml

Notiz.xaml.cs

Notizen C# WPF Anwendung

```
/// <summary>
/// JASON Daten Einlesen und Notizen und Gespeicherte Listen Öffnen
/// </summary>
public MainWindow()
{
    InitializeComponent();
    Action<string> msg = s => { MessageBox.Show(s); };
    var Savefile = "Notizen.json";

    if (File.Exists(Savefile))
    {
        var JASONString = File.ReadAllText(Savefile);
        var ser = new JavaScriptSerializer();
        var datenliste = ser.Deserialize<List<Notizdaten>>(JASONString);
        msg(JASONString);
        foreach (var item in datenliste)
        {
            var n = new Notiz(Brushes.AliceBlue);
            n.Title = "Old" + item.Zeitpunkt.ToString(" dd MMM yyyy hh:mm:ss");
            n.textBox.Background = item.Farbe;
            n.textBox.Text = item.Inhalt;
            n.Show();
            Notizen.Add(n);
        }
    }
}
```

```
/// <summary>
/// Notiz - Objekte in using System Collections.Generic Liste setzen
/// </summary>
Namespace NotizApp
{
    public partial class MainWindow : Window
    {
        public List<Notiz> Notizen = new List<Notiz>();

        private void Button_OnClick(object sender, RoutedEventArgs e)
        {
            // Notiz Fenster Laden
            // Farbe von Button auf Fenster Übertragen
            var n = new Notiz(((Button) sender).Background);
            Notizen.Add(n);
            // Notiz Fenster Display
            n.Show();
        }
    }
}
```

Code

MainWindow.xaml.cs
Teil 1

Notizen C# WPF Anwendung

```
/// <summary>
/// Notiz - Objekte in using System Collections.Generic Liste setzen
/// </summary>
Namespace NotizApp
{
    public partial class MainWindow : Window
    {
        public List<Notiz> Notizen = new List<Notiz>();

        private void Button_OnClick(object sender, RoutedEventArgs e)
        {
            // Notiz Fenster Laden
            // Farbe von Button auf Fenster Übertragen
            var n = new Notiz(((Button) sender).Background);
            Notizen.Add(n);
            // Notiz Fenster Display
            n.Show();
        }
    }
}
```

```
/// <summary>
/// Schreiben der JASON Speicher Datei
/// </summary>
private void MainWindow_OnClosing
(object sender, CancelEventArgs e)
{
    var Savefile = "Notizen.json";
    var ser = new JavaScriptSerializer();
    var datenliste = new List<Notizdaten>();
    foreach (var item in Notizen)
    {
        datenliste.Add(item.Daten);
    }
    MessageBox.Show(ser.Serialize(datenliste));
    File.WriteAllText(
        Savefile, ser.Serialize(datenliste)
    );
    foreach (var ng in Notizen) ng.Close();
}
} // USchließt MainWindow ab
} // UmSchließt Notizapp ab
```

Code

MainWindow.xaml.cs
Teil 2