

WIE NO WOLFSO LEVELS: NO SECRET EXTE if ((gamemode == commercial)

= R_FlatNumForName (SKYFLATNAME)

emode != commercial) ! (skill == sk_nightmare II respawiparm) respaymenters = true: (fastparm || tskil| == sk nightmare && gameskil| != sk nightmare mobjetoIMT_BRUISERSHOTI.speed = 20°FRACUNIT mobjefolMT_HEADSHOT].speed = 20°FRACUNIT; mobjinfelMT_TROOPSHOTLspeed = 20°FRACUNIT for ti=S SARG RUN1 I <= \$ SARG PAIN2; i++ stateshilling < <= 1 mobjetoIMT_BRUISERSHOTU.speed = 15 PRACUNIT

viewactive = true

S. ResumeSound ():

e messy with SPECIAL and commented parts.

acks to make the latest edition work.

mobjinfolMT_HEADSHOTI.speed = 10°FRACUNIT; mobjinfolMT_TROOPSHOTI.speed = 10°FRACUNIT // force players to be initialized upon first level load playershil.playerstate = PST REBORN // will be set talse if a demo

(SPR_PISE32768.7.(A_Light) S_LIGHTDONE D.D.)

SER SHIRLD S SCHOOL WS SCHOOL

// do things to

break

G Do

case d

case d

// S SGUNDOWN

Agenda

MVC / WebAPI recap

XAML and the Universal Windows Platform

Disclaimer

I'm not a UI expert...



XAML = eXtensible Application Markup Language

Windows Desktop (WPF)

Windows Universal (anything)

Xamarin Forms (iOS, Android, Windows)

Silverlight (web)

XAML

Markup language for declaratively designing and creating application Uls

XAML maps XML markup to objects in the .NET Framework

Every tag maps to a class and every attribute to a property

Markup and procedural code are peers in functionality and performance

Code and markup are both first class citizens

Consistent model between UI, documents, and media

Compiled to code

XAML Markup vs. Code

OK

```
var button = new Button();
button.Content = "OK";
button.Background = new SolidColorBrush(Colors.Purple);
button.Width = 100;
```

MainPage.xaml

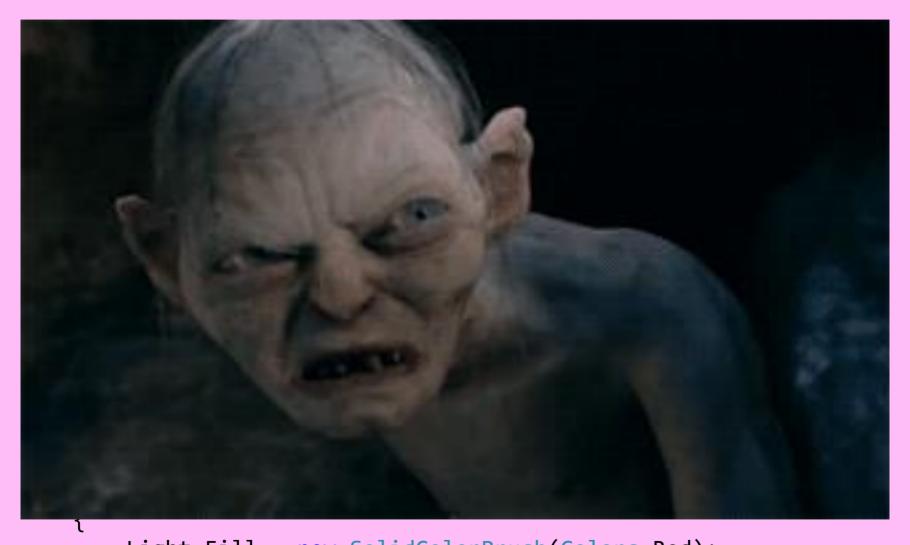
```
< Page
    x:Class="App.MainPage"
    xmlns="http://schemas.microsoft.com/winfx/2006/xaml/presentation"
    xmlns:x="http://schemas.microsoft.com/winfx/2006/xam1">
    <Grid>
        <StackPanel>
            <Ellipse Name="Light" Fill="Red"</pre>
                      Height="200" Width="200" Margin="50" />
            <Button Width="150"
                     Content="Change Lights"
                     HorizontalAlignment="Center"
                     Click="Button_Click" />
        </StackPanel>
    </Grid>
</Page>
```

MainPage.xaml.cs

```
namespace App
{
    public sealed partial class MainPage : Page
        public MainPage()
            this.InitializeComponent();
        private void Button Click(object sender, RoutedEventArgs e)
            var current = Light.Fill as SolidColorBrush;
            if (current.Color == Colors.Red)
                Light.Fill = new SolidColorBrush(Colors.Green);
            else
                Light.Fill = new SolidColorBrush(Colors.Red);
```

XAML DEMO

XAML + code-behind



```
Light.Fill = new SolidColorBrush(Colors.Red);
}
Image source: http://lazergaze.tumblr.com/post/26333564955
```

The Model-View-ViewModel Pattern

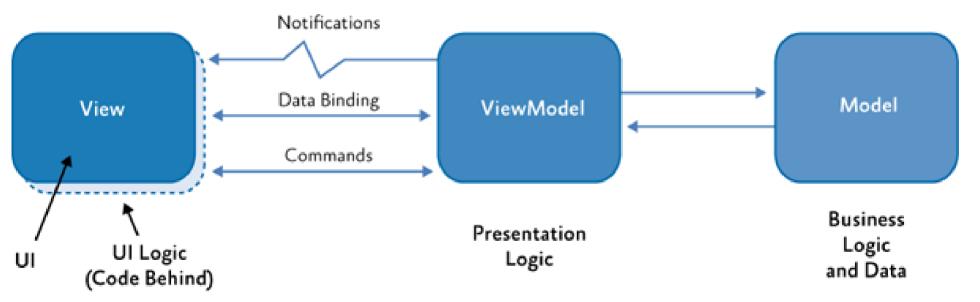
Separation of logic and presentation

Having event handlers in the code-behind is bad for testing, since you cannot mock away the view

Changing the design of the view often also requires changes in the code, since every element has it's different event handlers

The logic is tightly bound to the view. It's not possible to reuse the logic in an other view

MVVM



MVVM DEMO

MVVM: Pieces of the puzzle

There is conceptually only ever one MODEL

Code in code-behind should be ABSOLUTELY MINIMAL

A ViewModel should ALWAYS implement INotifyPropertyChanged

A ViewModel may be used for more than one view

MVVM: Tips

