

WINDOWS PRESENTATION FOUNDATION LEKTION 4

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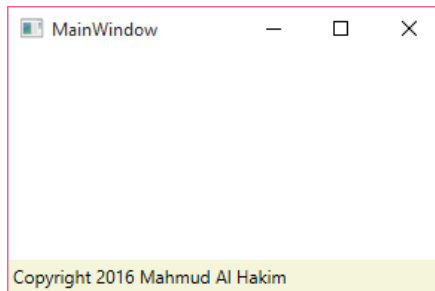
AGENDA

- Statusbar
- Hyperlänkar
- WebBrowser
- TabControl
- Ribbon
- ListBox
- Data Template
- Resource Dictionary
- Style

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STATUSBAR

```
<StatusBar VerticalAlignment="Bottom" Background="Beige">  
  <StatusBarItem>  
    <TextBlock>Copyright 2015 Mahmud Al Hakim</TextBlock>  
  </StatusBarItem>  
</StatusBar>
```

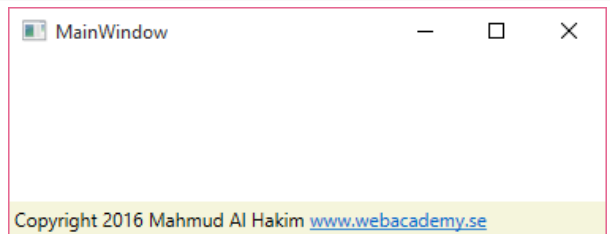


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HYPERLÄNKAR

```
<TextBlock>Copyright 2016 Mahmud Al Hakim  
  <Hyperlink NavigateUri="http://webacademy.se"  
    RequestNavigate="Hyperlink_RequestNavigate">  
    www.webacademy.se  
  </Hyperlink>  
</TextBlock>
```

```
private void Hyperlink_RequestNavigate(object sender, RequestNavigateEventArgs e)  
{  
    Process.Start(e.Uri.AbsoluteUri);  
}
```



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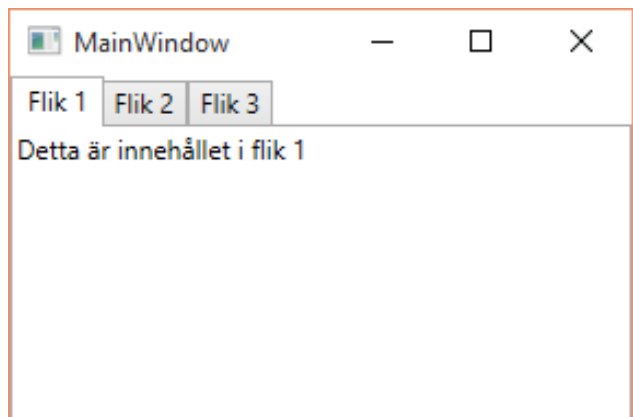
WEBBROWSER

```
<Grid>
  <WebBrowser
    Name="MahmudBrowser"
    HorizontalAlignment="Stretch"
    VerticalAlignment="Stretch"
    Loaded="MainBrowser_Loaded"/>
</Grid>
```

```
private void MainBrowser_Loaded(object sender, RoutedEventArgs e)
{
    ((WebBrowser)sender).Navigate("http://alhakim.se");
}
```

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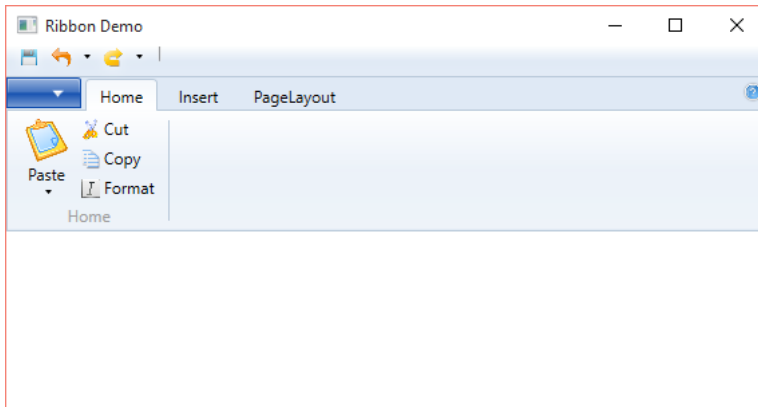
TABCONTROL



```
<TabControl>
  <TabItem Header="Flik 1">Detta är innehållet i flik 1</TabItem>
  <TabItem Header="Flik 2">Detta är innehållet i flik 2</TabItem>
  <TabItem Header="Flik 3">Detta är innehållet i flik 3</TabItem>
</TabControl>
```

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RIBBON



Tips!

<http://www.c-sharpcorner.com/UploadFile/0b73e1/ribbon-control-in-wpf-4-5/>

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STEG 1 – LÄGG TILL EN REFERENS

- ▲ ■■ References
 - Analyzers
 - Microsoft.CSharp
 - PresentationCore
 - PresentationFramework
 - System
 - System.Core
 - System.Data
 - System.Data.DataSetExtensions
 - System.Windows.Controls.Ribbon
 - System.Xaml
 - System.Xml
 - System.Xml.Linq
 - WindowsBase

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STEG 2 – LÄGG TILL EN NAMNRYMD

```
<RibbonWindow x:Class="RibbonWin.MainWindow"
xmlns="http://schemas.microsoft.com/winfx/2006/xaml/presentation"
xmlns:x="http://schemas.microsoft.com/winfx/2006/xaml"
xmlns:RibbonWin="clr-namespace:System.Windows.Controls;assembly=System.Windows.Controls.Ribbon"
Title="Ribbon" >
```



STEG 3 – FÖRBERED EN PLATS TILL RIBBON

```
<Grid>
  <Grid.RowDefinitions>
    <RowDefinition Height="Auto"/>
    <RowDefinition/>
  </Grid.RowDefinitions>

  <Ribbon x:Name="RibbonWin" SelectedIndex="0" >
</Grid>
```

HELPPANECONTENT

```
<!-- Help Pane, located at the right-hand side -->
<Ribbon.HelpPaneContent>
  <RibbonButton SmallImageSource="Images\help.png" />
</Ribbon.HelpPaneContent>
```

QUICKACCESSTOOLBAR

```
<!-- Quick Access Toolbar - located at the upper-left corner -->
<Ribbon.QuickAccessToolBar>
  <RibbonQuickAccessToolBar>
    <RibbonButton x:Name ="Save" SmallImageSource="Images\save.png" />
    <RibbonSplitButton x:Name ="Undo" SmallImageSource="Images\undo.png" >
      <RibbonSplitMenuItem Header="Undo 1" />
    </RibbonSplitButton>
    <RibbonSplitButton x:Name="Redo" SmallImageSource="Images\redo.png" >
      <RibbonSplitMenuItem Header="Redo 1" />
    </RibbonSplitButton>
  </RibbonQuickAccessToolBar>
</Ribbon.QuickAccessToolBar>
```

APPLICATIONMENU

```
<!-- Application Menu, located at the left-hand side (down arrow) -->
<Ribbon.ApplicationMenu>
  <RibbonApplicationMenu KeyTip="F">
    <RibbonApplicationMenuItem Header="Options"
      ImageSource="Images\options.png" />
    <RibbonApplicationMenuItem Header="Exit"
      ImageSource="Images\quit.png" />
  </RibbonApplicationMenu>
</Ribbon.ApplicationMenu>
```

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RIBBONTAB OCH RIBBONGROUP

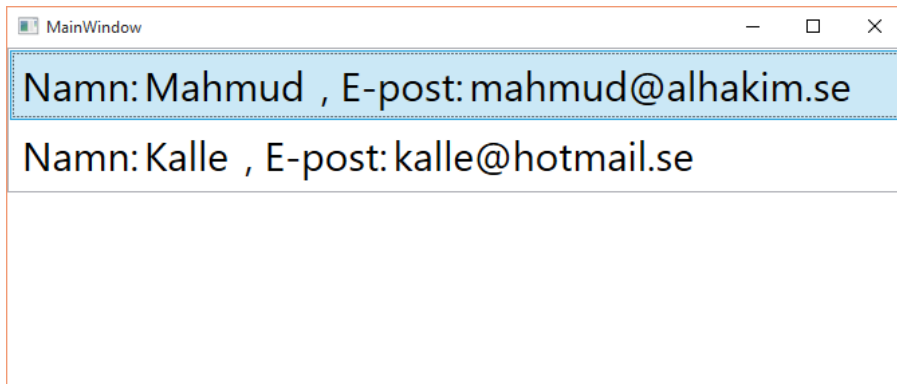
```
<!-- Ribbon Tab #1: Home -->
<RibbonTab Header="Home" KeyTip="H" >
  <!-- Home group-->
  <RibbonGroup x:Name="ClipboardGroup" Header="Home">
    <RibbonMenuButton LargeImageSource="Images\paste.png" Label="Paste" KeyTip="V">
      <RibbonMenuItem ImageSource="Images\paste.png" Header="Keep Text Only" KeyTip="T"/>
      <RibbonMenuItem ImageSource="Images\paste.png" Header="Paste Special..." KeyTip="S"/>
    </RibbonMenuButton>
    <RibbonButton SmallImageSource="Images\cut.png" Label="Cut" KeyTip="X" />
    <RibbonButton SmallImageSource="Images\copy.png" Label="Copy" KeyTip="C" />
    <RibbonButton SmallImageSource="Images\formatPainter.png" Label="Format" KeyTip="F" />
  </RibbonGroup>
</RibbonTab>
```

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FLERA FLIKAR

```
<!-- Ribbon Tab #2: Launch -->  
<RibbonTab Header="Insert" KeyTip="I">  
  
</RibbonTab>  
  
<!-- Ribbon Tab #2: Launch -->  
<RibbonTab Header="PageLayout" KeyTip="L">  
  
</RibbonTab>
```

LISTBOX



KLASSEN PERSON

```
public class Person {  
    public string Name { get; set; }  
    public string Epost { get; set; }  
  
    public static List<Person> GetPersoner() {  
        var personer = new List<Person>();  
        personer.Add(new Person() { Name = "Mahmud", Epost="mahmud@alhakim.se" });  
        personer.Add(new Person() { Name = "Kalle" , Epost="kalle@hotmail.se" });  
        return personer;  
    }  
}
```

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EN ENKEL LISTBOX

ItemsSource
Gets or sets a collection used to generate the content of the System.Windows.Controls.ItemsControl

```
<ListBox Name="Lista"  
        ItemsSource="{Binding}"  
        FontSize="30" >  
</ListBox>
```

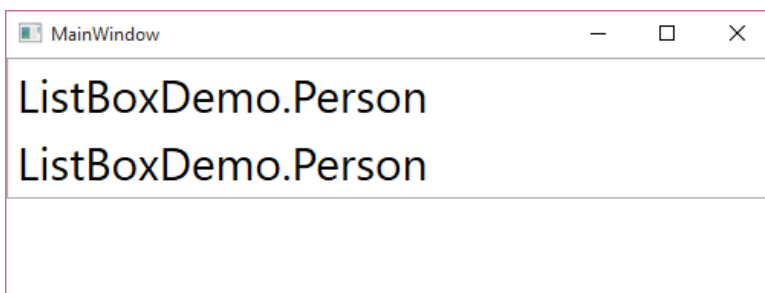
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DATAKONTEXT

```
public MainWindow()  
{  
    InitializeComponent();  
    DataContext = Person.GetPersoner();  
}
```

NÅGOT SAKNAS !

ToString() anropas och kan givetvis överridas!
Men det finns ett bättre sätt med **DataTemplate**



DATATEMPLATE

```
<ListBox Name="Lista" ItemsSource="{Binding}" FontSize="30" >
  <ListBox.ItemTemplate>
    <DataTemplate>
      <StackPanel Orientation="Horizontal" Margin="2">
        <TextBlock Text="Namn:" Margin="2" />
        <TextBlock Text="{Binding Name}" Margin="2" />
        <TextBlock Text=" , E-post:" Margin="2" />
        <TextBlock Text="{Binding Epost}" Margin="2" />
      </StackPanel>
    </DataTemplate>
  </ListBox.ItemTemplate>
</ListBox>
```

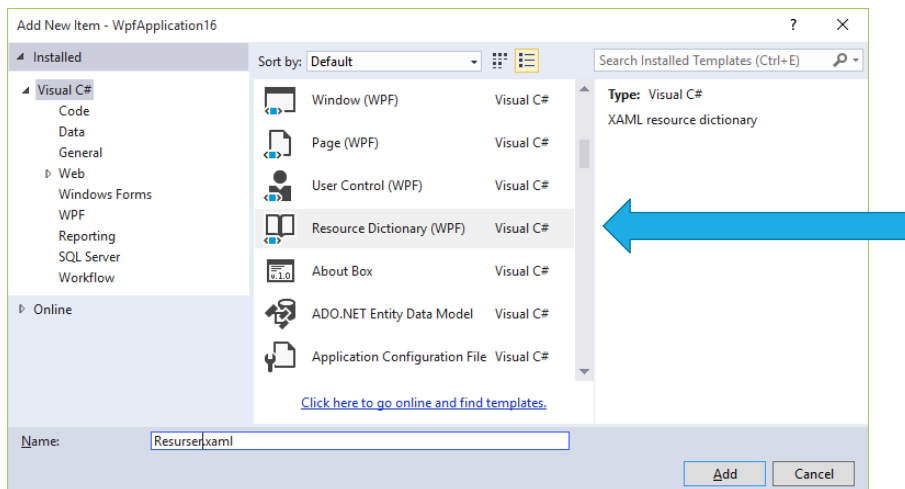
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ARBETA MED RESURSER (RESOURCE DICTIONARY)

```
<Window.Resources>
  <SolidColorBrush x:Key="myColor" Color="#FFFF1111" />
</Window.Resources>
<Grid>
  <StackPanel Orientation="Vertical">
    <TextBlock Text="Ett" Foreground="{StaticResource myColor}" />
    <TextBlock Text="Två" />
    <TextBlock Text="Tre" Foreground="{StaticResource myColor}" />
  </StackPanel>
```

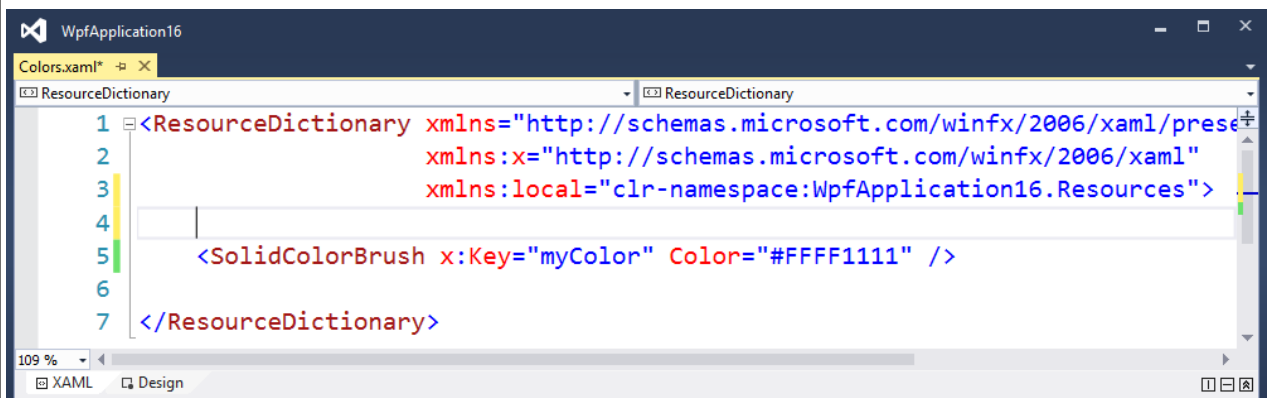
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SKAPA RESURSER I SEPARATA FILER



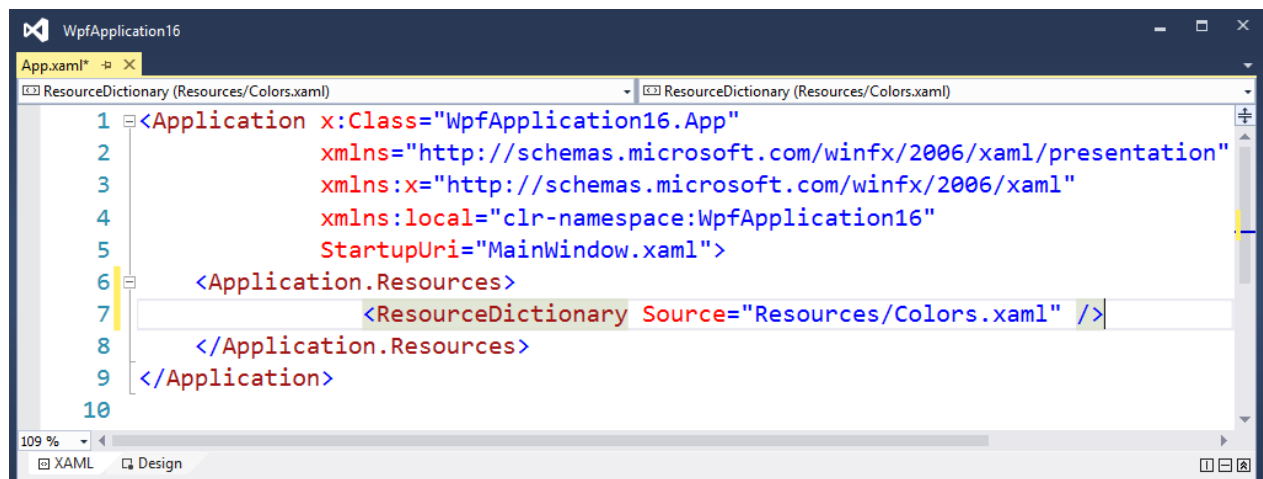
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EN RESURSFIL (T.EX. COLORS.XAML)



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ANGE RESOURCE DICTIONARY I APP.XAML



```
1 <Application x:Class="WpfApplication16.App"
2           xmlns="http://schemas.microsoft.com/winfx/2006/xaml/presentation"
3           xmlns:x="http://schemas.microsoft.com/winfx/2006/xaml"
4           xmlns:local="clr-namespace:WpfApplication16"
5           StartupUri="MainWindow.xaml">
6     <Application.Resources>
7         <ResourceDictionary Source="Resources/Colors.xaml" />
8     </Application.Resources>
9 </Application>
```

STILMALLAR — STATISKA RESURSER

```
<Window.Resources>
  <Style TargetType="TextBlock" x:Key="MahmudStyle">
    <Setter Property="FontSize" Value="100" />
  </Style>
</Window.Resources>
<Grid>
  <TextBlock Style="{StaticResource MahmudStyle}">
    Lite text och annat smått och gott.
  </TextBlock>
</Grid>
```

Stilen har en nyckel...

Koppling sker med hjälp av en **StaticResource**

STILMALLAR — ARV

```
<Window.Resources>
  <Style TargetType="TextBlock" x:Key="MahmudStyle">
    <Setter Property="FontSize" Value="50" />
  </Style>
  <Style TargetType="TextBlock" x:Key="AlhakimStyle"
    BasedOn="{StaticResource MahmudStyle}">
    <Setter Property="Foreground" Value="Green" />
  </Style>
</Window.Resources>
<Grid> <TextBlock Style="{StaticResource AlhakimStyle}">
  Lite text och annat smått och gott.
</TextBlock> </Grid>
```

AlhakimStyle
över från
(BasedOn)
MahmudStyle

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AUTOMATISKA STILMALLAR

```
<Window.Resources>
  <Style TargetType="TextBlock">
    <Setter Property="FontSize" Value="20" />
    <Setter Property="Foreground" Value="Blue" />
    <Setter Property="HorizontalAlignment" Value="Left" />
  </Style>
</Window.Resources>
<Grid> <TextBlock>Lite text och annat smått och gott.
</TextBlock>
  <TextBlock>Lite text och annat smått och gott.
</TextBlock> </Grid>
```

En stilmall som kopplas
till alla TextBlock
i detta fönster
Ingen nyckel behövs!

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LOKALA STILMALLAR

```
<Window.Resources>
  <Style TargetType="TextBlock">
    <Setter Property="FontSize" Value="20" />
    <Setter Property="Foreground" Value="Blue" />
    <Setter Property="HorizontalAlignment" Value="Left" />
  </Style>
</Window.Resources>
<Grid> <StackPanel Orientation="Vertical">
  <TextBlock Text="Ett" />
  <TextBlock Text="Två" FontSize="30" />
  <TextBlock Text="Tre" />
</StackPanel>
</Grid>
```

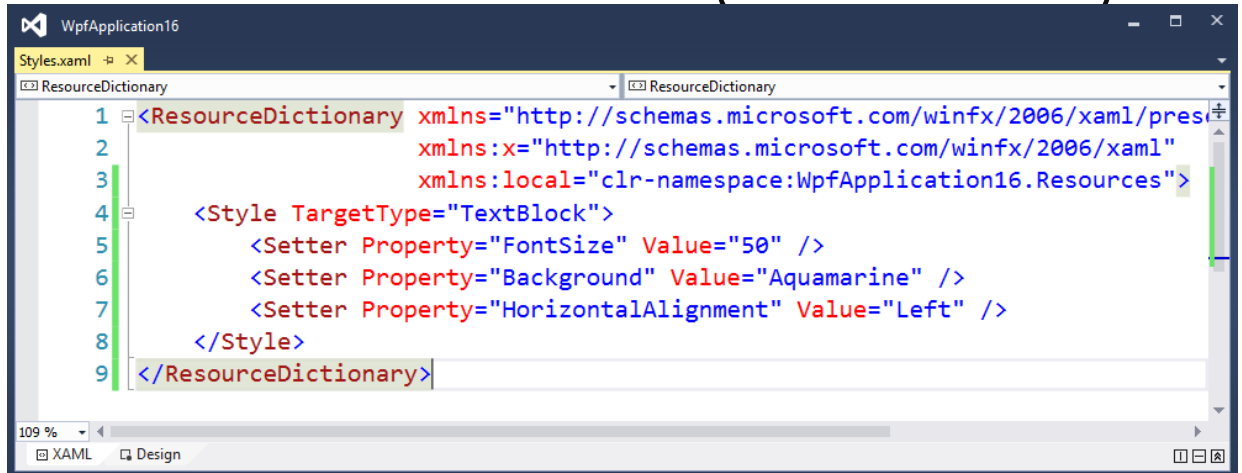
En stilmall som enbart gäller detta fönster.

OBS! Inline formatering har högre prioritet

GLOBALA STILMALLAR I APP.XAML

```
<Application.Resources>
  <Style TargetType="TextBlock" x:Key="MahmudStyle">
    <Setter Property="FontSize" Value="50" />
  </Style>
  <Style TargetType="TextBlock" x:Key="AlhakimStyle"
    BasedOn="{StaticResource MahmudStyle}">
    <Setter Property="Foreground" Value="Green" />
  </Style>
</Application.Resources>
```

EXTERNA STILMALLAR FLYTТА STILAR TILL EN NY FIL (T.EX. STYLES.XAML)



```
1 <ResourceDictionary xmlns="http://schemas.microsoft.com/winfx/2006/xaml/presentation"
2                       xmlns:x="http://schemas.microsoft.com/winfx/2006/xaml"
3                       xmlns:local="clr-namespace:WpfApplication16.Resources">
4     <Style TargetType="TextBlock">
5         <Setter Property="FontSize" Value="50" />
6         <Setter Property="Background" Value="Aquamarine" />
7         <Setter Property="HorizontalAlignment" Value="Left" />
8     </Style>
9 </ResourceDictionary>
```

UPPDATERA APP.XAML

```
<Application.Resources>
    <ResourceDictionary>
        <ResourceDictionary.MergedDictionaries>
            <ResourceDictionary Source="Resources/Colors.xaml" />
            <ResourceDictionary Source="Resources/Styles.xaml" />
        </ResourceDictionary.MergedDictionaries>
    </ResourceDictionary>
</Application.Resources>
```


ÖVNING

Skapa en enkel Timer enligt bilden nedan.

Skapa en extern stilmall (separat fil) som formaterar alla knappar (valfritt utseende).

