

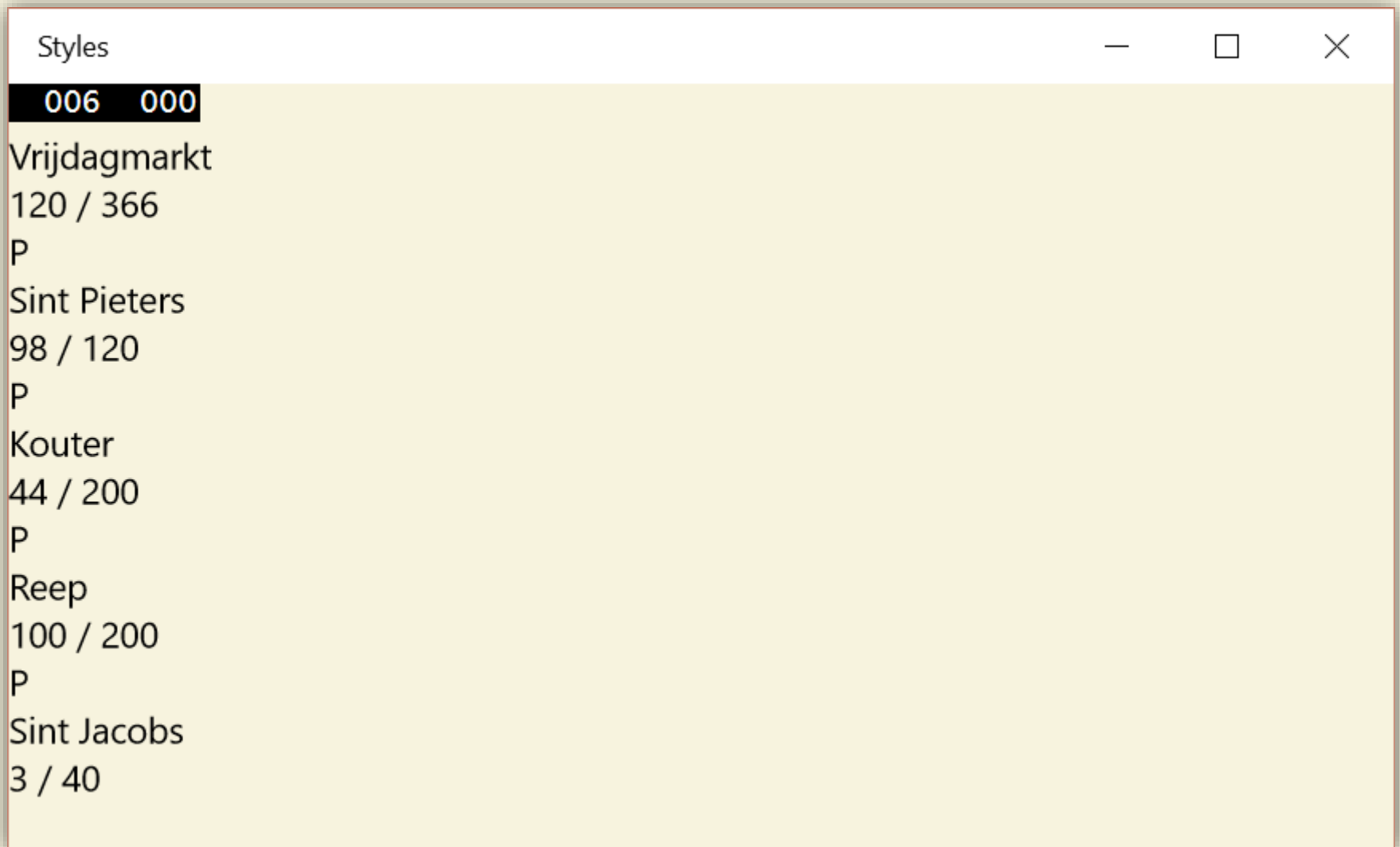


**NEW MEDIA &
COMMUNICATION
TECHNOLOGY**

UWP - STYLES

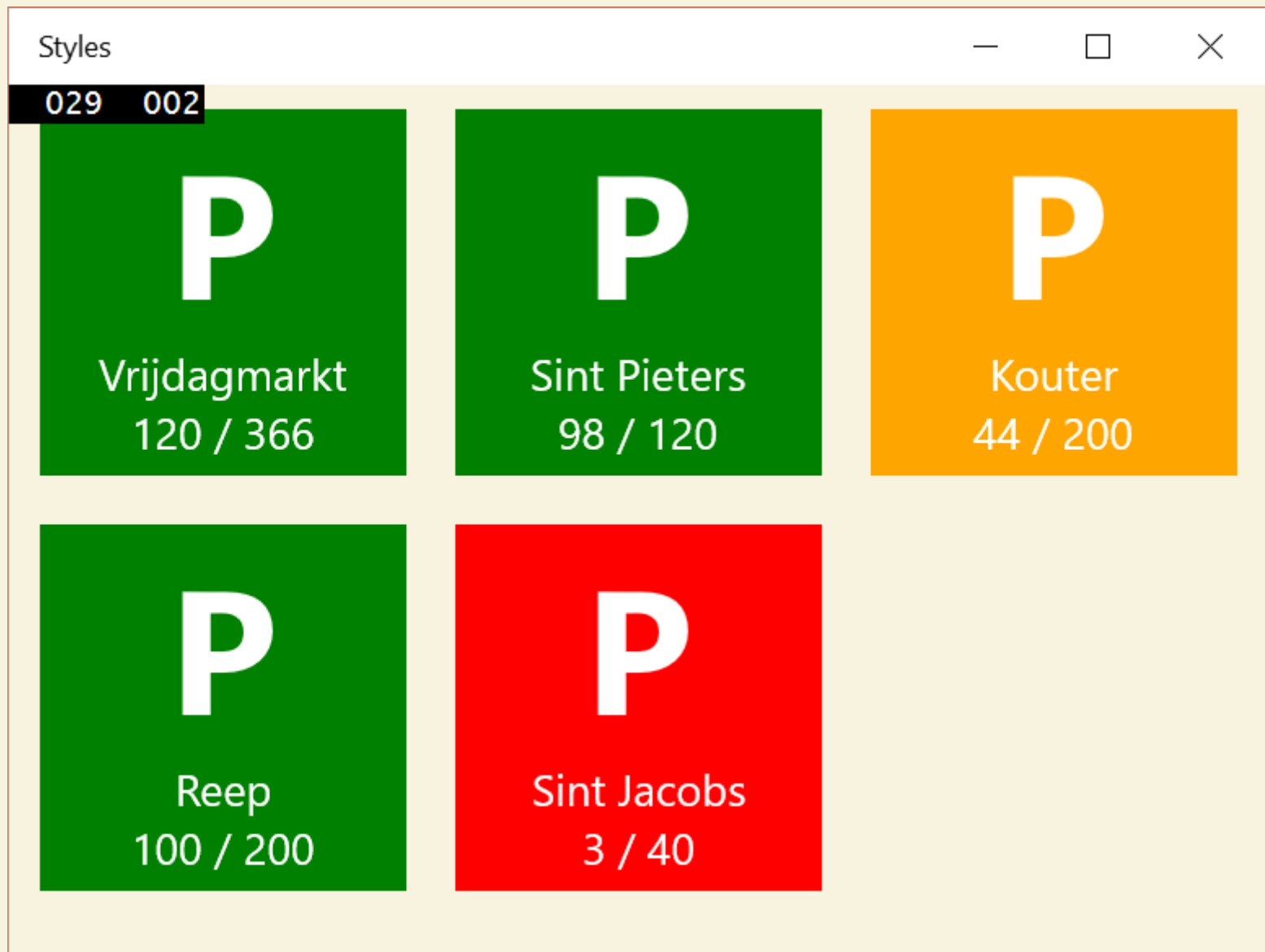
Leven zoals het is





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```
<Border Background="Green" Height="150" Width="150" Margin="10" >
  <StackPanel Orientation="Vertical">
    <TextBlock Text="P" Foreground="White" FontSize="72" HorizontalAlignment="Center" FontWeight="Bold" />
    <TextBlock Text="Vrijdagmarkt" Foreground="White" FontSize="18" HorizontalAlignment="Center" />
    <TextBlock Text="120 / 366" Foreground="White" FontSize="18" HorizontalAlignment="Center"/>
  </StackPanel>
</Border>
```

Leven zoals het is



Designer

KLAAR!



Maar rood moet iets
minder rood



Developer

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```




Styles to the rescue



XAML Styles

Hergebruik van styling elementen op UI controls

Idee is dat je elke stijl property uit de control haalt en in een **style object** verzamelt

Klinkt zeer bekend in de oren voor webdevelopers

CSS vs XAML

CSS

```
button{  
    background-color: antiquewhite;  
    width: 200px;  
    margin: 20px;  
    text-align: center;  
}
```

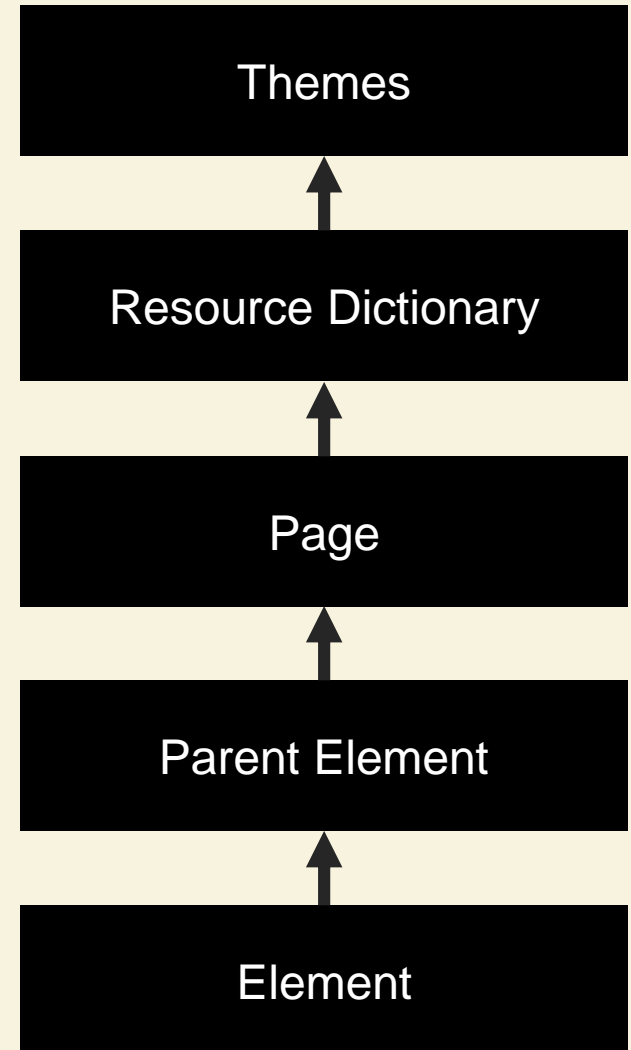
XAML

```
<Style TargetType="Button">  
    <Setter Property="Background" Value="AntiqueWhite" />  
    <Setter Property="Width" Value="200" />  
    <Setter Property="Margin" Value="20" />  
    <Setter Property="HorizontalAlignment" Value="Center" />  
</Style>
```

Waar plaats je de stijlen

Wanneer je stijlen maakt kan je deze op verschillende plaatsen aanmaken

Een stijl kan overschreven worden door de property te herhalen in een onderliggend element



```
<Page.Resources>
  <Style TargetType="Button">
    <Setter Property="Width" Value="200" />
  </Style>
</Page.Resources>

<Grid>
  <Grid.Resources>
    <Style TargetType="Button">
      <Setter Property="Width" Value="180" />
    </Style>
  </Grid.Resources>
  <Border Background="Green" Height="150" Width="150" Margin="10" >
    <Border.Resources>
      <Style TargetType="Button">
        <Setter Property="Width" Value="150" />
      </Style>
    </Border.Resources>
    <StackPanel Orientation="Vertical">
```



Style Basics

Name

Op welk type?

```
<Style x:Name="DefaultButton" TargetType="Button">  
    <Setter Property="Background" Value="White" />  
</Style>
```

Style Basics - Name

De naam van een style wordt gebruikt wanneer je naar de style wil verwijzen

```
<Style x:Name="DefaultButton" TargetType="Button">  
    <Setter Property="Background" Value="White" />  
</Style>
```

```
<Button Style="{StaticResource DefaultButton}"></Button>
```



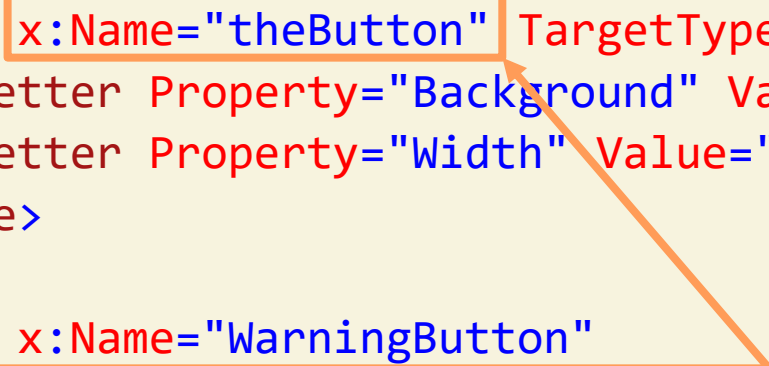
Style Basics - BasedOn

Een Style kan settings overnemen van een andere style.

```
<Style x:Name="theButton" TargetType="Button">
    <Setter Property="Background" Value="Red" />
    <Setter Property="Width" Value="150" />
</Style>

<Style x:Name="WarningButton"
    BasedOn="{StaticResource theButton}"
    TargetType="Button">
    <Setter Property="Background" Value="Orange" />
</Style>

<Button Style="{StaticResource WarningButton}"></Button>
```



An orange box highlights the `x:Name="theButton"` attribute in the first style. An orange arrow points from this box to another orange box that highlights the `BasedOn="{StaticResource theButton}"` attribute in the second style. A third orange box contains the text "Enkel de Background property wordt overschreven" (Only the Background property is overwritten).

Style Basics - Default Style

Een **Default** kan gemaakt worden door het Style object **geen naam** te geven

```
<Style TargetType="Button">  
    <Setter Property="Background" Value="White" />  
</Style>
```

```
<Button></Button>
```

StaticResource vs ThemeResource

Het evalueren van een ThemeResource gebeurt wanneer de **applicatie laadt** en elke keer wanneer de **theme aangepast wordt tijdens runtime**

wanneer device settings aangepast worden

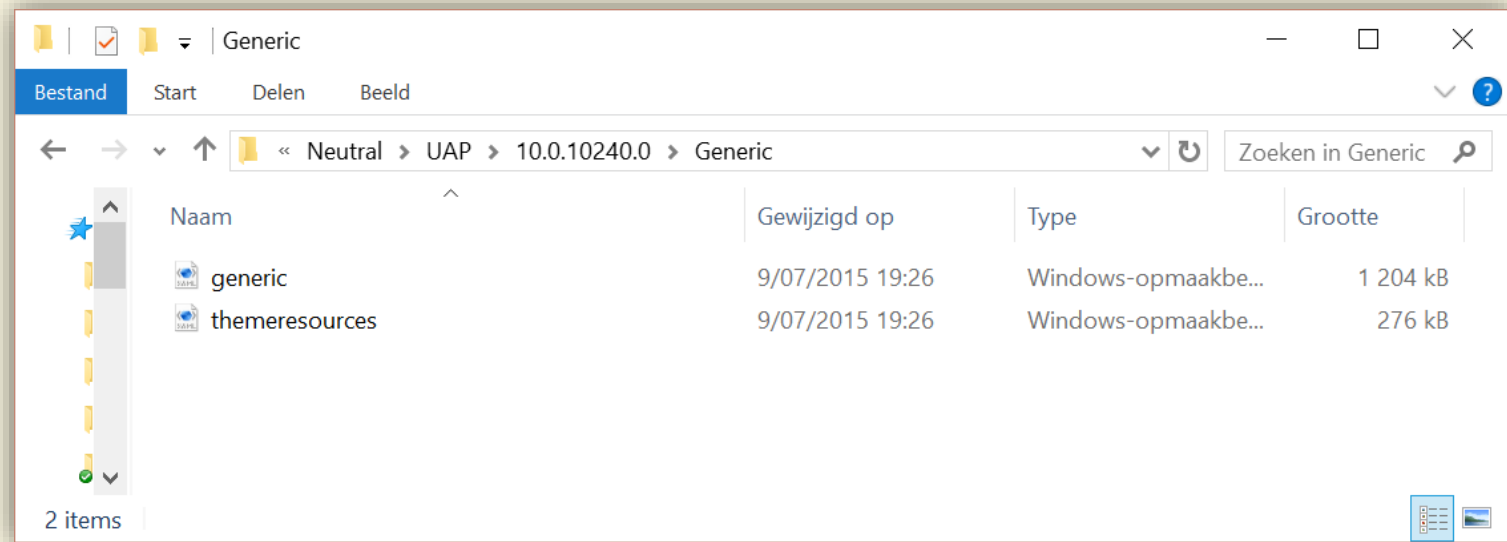
StaticResource wordt **enkel** ingesteld bij het **laden van de XAML**

ThemeResources

Worden op verschillende plaatsen opgeslagen

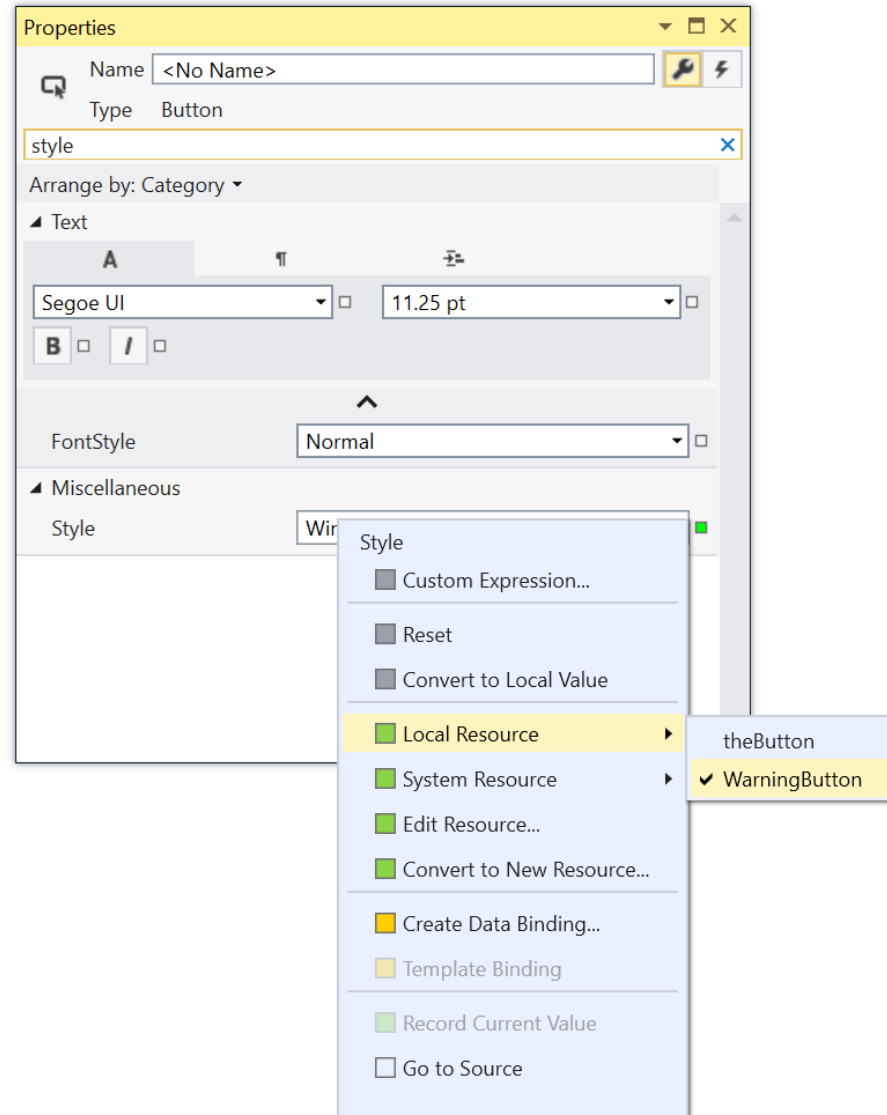
C:\Program Files (x86)\Windows

Kits\10\DesignTime\CommonConfiguration\Neutral\UAP\10.0.10240.0\Generic



<https://msdn.microsoft.com/en-us/library/windows/apps/mt187274.aspx>

Style selecteren in Visual Studio



Style toekennen in code

```
eenButton.Style = this.FindName("WarningButton") as Style;
```

Style aanmaken in code

```
Style s = new Style();
```

```
Setter widthSetter = new Setter();  
widthSetter.Property = Button.WidthProperty;  
widthSetter.Value = 220;
```

```
s.Setters.Add(widthSetter);
```