Aplicando estilo ao ToggleSwitch do WPToolkit

Este artigo explica como aplicar estilo no ToggleSwitch do Toolkit para Windows Phone para que ele exiba corretamente um fundo de cor sólida

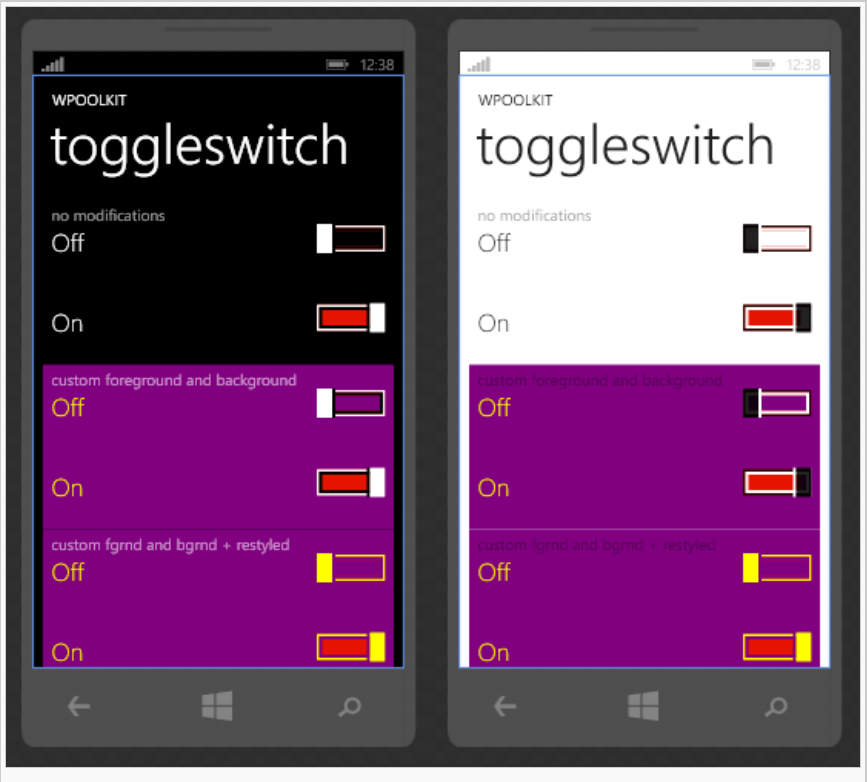
Introdução

Se você já fez algum desenvolvimento baseado em XAML para Windows Phone você estará ciente de quão essencial a WPToolkit é.

Um dos controlos mais populares contidos no toolkit é o ToggleSwitch. Infelizmente, o seu estilo padrão não joga bem quando quer usá-lo com o plano personalizado e cores de fundo.

Olhando para esta imagem, podemos ver a mesma página em temas claros e escuros. (Em 50% no Blend) O primeiro par de toggleswitches mostrar os estados marcada e desmarcada com as cores do tema padrão.

O segundo par mostra o que acontece se com o estilo padrão quando o fundo eo primeiro plano são modificados embora. Isto é quase certamente não o que você quer ver. Com um foregound modificado e fundo eu espero que você deseja ver algo parecido no último par de switches.



O comportamento "correcto" pode ser alcançado através do uso de esses estilos modificados:

```
   <Style x:Key="FixedToggleSwitchButtonStyle"
TargetType="toolkitPrimitives:ToggleSwitchButton">
            <Setter Property="Foreground" Value="{StaticResource
PhoneForegroundBrush}"/>
            <Setter Property="Background" Value="{StaticResource
PhoneBackgroundBrush}"/>
            <Setter Property="IsTabStop" Value="False"/>
            <Setter Property="SwitchForeground" Value="{StaticResource
PhoneAccentBrush}"/>
            <Setter Property="Template">
                <Setter.Value>
                    <ControlTemplate TargetType="toolkitPrimitives:ToggleSwitchButton">
                        <Border x:Name="Root" BorderBrush="{TemplateBinding
BorderBrush}" BorderThickness="{TemplateBinding BorderThickness}"
```


(C) Copyright Nokia 2014. All rights reserved.

```
CacheMode="BitmapCache" Opacity="{TemplateBinding Opacity}" Padding="{TemplateBinding
Padding}">
                            <VisualStateManager.VisualStateGroups>
                                <VisualStateGroup x:Name="CommonStates">
                                    <VisualState x:Name="Normal"/>
                                    <VisualState x:Name="Disabled">
                                        <Storyboard>
                                            <ColorAnimation Duration="0"
To="{TemplateBinding Foreground}"
Storyboard.TargetProperty="(Grid.Background).(SolidColorBrush.Color)"
Storyboard.TargetName="SwitchBottom"/>
                                            <ColorAnimation Duration="0"
To="{TemplateBinding Foreground}"
Storyboard.TargetProperty="(Border.Background).(SolidColorBrush.Color)"
Storyboard.TargetName="ThumbCenter"/>
                                            <DoubleAnimation Duration="0" To="0.3"
Storyboard.TargetProperty="Opacity" Storyboard.TargetName="Root"/>
                                        </Storyboard>
                                    </VisualState>
                                </VisualStateGroup>
                                <VisualStateGroup x:Name="CheckStates">
                                    <VisualStateGroup.Transitions>
                                        <VisualTransition GeneratedDuration="0:0:0.05"
To="Unchecked"/>
                                        <VisualTransition GeneratedDuration="0:0:0.05"
To="Checked"/>
                                    </VisualStateGroup.Transitions>
                                    <VisualState x:Name="Checked">
                                        <Storyboard>
                                            <DoubleAnimation Duration="0" To="69"
Storyboard.TargetProperty="(TranslateTransform.X)"
Storyboard.TargetName="BackgroundTranslation">
                                                <DoubleAnimation.EasingFunction>
                                                    <ExponentialEase
EasingMode="EaseOut" Exponent="15"/>
                                                </DoubleAnimation.EasingFunction>
                                            </DoubleAnimation>
                                            <DoubleAnimation Duration="0" To="69"
Storyboard.TargetProperty="(TranslateTransform.X)"
Storyboard.TargetName="ThumbTranslation">
                                                <DoubleAnimation.EasingFunction>
                                                    <ExponentialEase
EasingMode="EaseOut" Exponent="15"/>
                                                </DoubleAnimation.EasingFunction>
                                            </DoubleAnimation>
                                        </Storyboard>
                                    </VisualState>
                                    <VisualState x:Name="Dragging"/>
                                    <VisualState x:Name="Unchecked">
                                        <Storyboard>
                                            <DoubleAnimation Duration="0" To="0"
Storyboard.TargetProperty="(TranslateTransform.X)"
Storyboard.TargetName="BackgroundTranslation"/>
                                            <DoubleAnimation Duration="0" To="0"
Storyboard.TargetProperty="(TranslateTransform.X)"
Storyboard.TargetName="ThumbTranslation"/>
                                        </Storyboard>
```


(C) Copyright Nokia 2014. All rights reserved.

```
                                    </VisualState>
                                </VisualStateGroup>
                            </VisualStateManager.VisualStateGroups>
                            <Grid x:Name="SwitchRoot" Background="Transparent"
Height="95" Width="136">
                                <Grid x:Name="SwitchTrack" Width="89">
                                    <Grid x:Name="SwitchBottom"
Background="{TemplateBinding SwitchForeground}" Height="34">
                                        <Rectangle x:Name="SwitchBackground"
Fill="{TemplateBinding Background}" HorizontalAlignment="Center" Height="20"
VerticalAlignment="Center" Width="77">
                                            <Rectangle.RenderTransform>
                                                <TranslateTransform
x:Name="BackgroundTranslation"/>
                                            </Rectangle.RenderTransform>
                                        </Rectangle>
                                        <Border BorderBrush="{TemplateBinding
Foreground}" BorderThickness="3">
                                            <Border BorderBrush="{TemplateBinding
Background}" BorderThickness="4"/>
                                        </Border>
                                    </Grid>
                                    <Border x:Name="SwitchThumb"
BorderBrush="{TemplateBinding Background}" BorderThickness="4,0"
HorizontalAlignment="Left" Height="38" Margin="-4,0" Width="28">
                                        <Border.RenderTransform>
                                            <TranslateTransform
x:Name="ThumbTranslation"/>
                                        </Border.RenderTransform>
                                        <Border x:Name="ThumbCenter"
BorderBrush="{TemplateBinding Foreground}" BorderThickness="2"
Background="{TemplateBinding Foreground}"/>
                                    </Border>
                                </Grid>
                            </Grid>
                        </Border>
                    </ControlTemplate>
                </Setter.Value>
            </Setter>
        </Style>
        <Style x:Key="FixedToggleSwitchStyle" TargetType="toolkit:ToggleSwitch">
            <Setter Property="Background" Value="{StaticResource
PhoneBackgroundBrush}"/>
            <Setter Property="FontFamily" Value="{StaticResource
PhoneFontFamilyLight}"/>
            <Setter Property="FontSize" Value="{StaticResource PhoneFontSizeLarge}"/>
            <Setter Property="Foreground" Value="{StaticResource
PhoneForegroundBrush}"/>
            <Setter Property="IsTabStop" Value="False"/>
            <Setter Property="HorizontalContentAlignment" Value="Left"/>
            <Setter Property="SwitchForeground" Value="{StaticResource
PhoneAccentBrush}"/>
            <Setter Property="VerticalContentAlignment" Value="Top"/>
            <Setter Property="Template">
                <Setter.Value>
                    <ControlTemplate TargetType="toolkit:ToggleSwitch">
```


(C) Copyright Nokia 2014. All rights reserved.

```
                        <Border BorderBrush="{TemplateBinding BorderBrush}"
BorderThickness="{TemplateBinding BorderThickness}" CacheMode="BitmapCache"
Padding="{TemplateBinding Padding}">
                            <VisualStateManager.VisualStateGroups>
                                <VisualStateGroup x:Name="CommonStates">
                                    <VisualState x:Name="Normal"/>
                                    <VisualState x:Name="Disabled">
                                        <Storyboard>
                                            <DoubleAnimation Duration="0" To="0.3"
Storyboard.TargetProperty="Opacity" Storyboard.TargetName="Header"/>
                                            <DoubleAnimation Duration="0" To="0.3"
Storyboard.TargetProperty="Opacity" Storyboard.TargetName="Content"/>
                                        </Storyboard>
                                    </VisualState>
                                </VisualStateGroup>
                            </VisualStateManager.VisualStateGroups>
                            <Grid Margin="12,5,12,42">
                                <Grid.ColumnDefinitions>
                                    <ColumnDefinition Width="*"/>
                                    <ColumnDefinition Width="Auto"/>
                                </Grid.ColumnDefinitions>
                                <Grid.RowDefinitions>
                                    <RowDefinition Height="Auto"/>
                                    <RowDefinition Height="Auto"/>
                                </Grid.RowDefinitions>
                                <ContentControl x:Name="Header"
ContentTemplate="{TemplateBinding HeaderTemplate}" Content="{TemplateBinding Header}"
Foreground="{StaticResource PhoneSubtleBrush}" FontSize="{StaticResource
PhoneFontSizeNormal}" FontFamily="{StaticResource PhoneFontFamilyNormal}"
HorizontalAlignment="Left" IsTabStop="False" Margin="-1,0,0,0" Opacity="{TemplateBinding
Opacity}" VerticalAlignment="Bottom"/>
                                <ContentControl x:Name="Content"
ContentTemplate="{TemplateBinding ContentTemplate}" Content="{TemplateBinding Content}"
HorizontalAlignment="{TemplateBinding HorizontalContentAlignment}" IsTabStop="False"
Margin="-1,1,0,-7" Opacity="{TemplateBinding Opacity}" Grid.Row="1"
VerticalAlignment="{TemplateBinding VerticalContentAlignment}"/>
                                <toolkitPrimitives:ToggleSwitchButton x:Name="Switch"
Background="{TemplateBinding Background}" Grid.Column="1" Margin="-22,-29,-24,-28"
Opacity="{TemplateBinding Opacity}" Grid.RowSpan="2" SwitchForeground="{TemplateBinding
SwitchForeground}" VerticalAlignment="Bottom" Style="{StaticResource
FixedToggleSwitchButtonStyle}" Foreground="{TemplateBinding Foreground}"/>
                            </Grid>
                        </Border>
                    </ControlTemplate>
                </Setter.Value>
            </Setter>
        </Style>
```

Este pode, então, ser aplicada ao controlo, quando usado na página seguinte forma:

```
    <toolkit:ToggleSwitch Foreground="Yellow"
                          Background="Purple"
                          Style="{StaticResource FixedToggleSwitchStyle}"
                          IsChecked="True" />
```


(C) Copyright Nokia 2014. All rights reserved.

(C) Copyright Nokia 2014. All rights reserved.