

Styling Xamarin.Forms Apps



Matthew Soucoup

PRINCIPAL

@codemillmatt codemilltech.com



Carrier


6:59 PM

Recipes

change

Easy

Breakfast



Eggs Benedict

5 min prep

24 min cook

serves 8

View Recipe >

Medium


RECOMMENDED

Blueberry Muffins

Prep: 10 min

Cook: 25 min

Lunch



Burger

5 min prep

20 min cook

serves 4

View Recipe >

Hard



Styling Apps



Understanding styles

Style hierarchy

Creating implicit styles

Swapping at runtime



Understanding Styles





Understanding Styles



Label A

FontSize = Medium
TextColor = Blue
Margin = 5



Label B

FontSize = Medium
TextColor = Blue
Margin = 5



Label C

FontSize = Medium
TextColor = Blue
Margin = 5



Label D

FontSize = Medium
TextColor = Blue
Margin = 5



Label E

FontSize = Medium
TextColor = Blue
Margin = 5



Label F

FontSize = Medium
TextColor = Blue
Margin = 5





Understanding Styles

MyStyle: FontSize = Medium, TextColor = Blue, Margin = 5



Xamarin.Forms Styles

Maintain a consistent and customized UI

Collection of property setters

Defined for specific types of controls

Defined in resource dictionary



```
<ResourceDictionary>  
    <Style x:Key="prepInfoStyle" TargetType="Label">  
  
    </Style>  
</ResourceDictionary>
```

Explicit Style

Within ResourceDictionary

TargetType – must always declare

Key – makes explicit




```
<Style x:Key="prepInfoStyle" TargetType="Label">  
    <Setter Property="HorizontalTextAlignment" Value="Center" />  
    <Setter Property="VerticalTextAlignment" Value="Center" />  
    <Setter Property="TextColor" Value="#CF5C36" />  
</Style>
```

Style Setters

Setter collection

Declare property - must be bindable

Specify value



```
<Label Style="{StaticResource prepInfoStyle}"
        Text="{Binding PreparationTime}" />
<Label Style="{StaticResource prepInfoStyle}"
        Text="{Binding CookTime}" />
<Label Style="{StaticResource prepInfoStyle}"
        Text="{Binding NumOfServings}" />
```

Consuming a Style

Style property

StaticResource

- Reference the key name



Demo



Create a style

Consume it



Understanding Styles Summary



Organize consistent, customized UI

Style class

- Target specific control type
- Collection of property setters

Define in ResourceDictionary

Consume via Style property

Style Hierarchy and Inheritance





Where Do Styles Live?



Globally



Page Level



Control Level



Global Style Declaration

```
<Application xmlns="http://xamarin.com/schemas/2014/forms" ...  
<Application.Resources>  
    <ResourceDictionary>  
  
        <Style x:Key="RecipeLabel" TargetType="Label">  
            <Setter Property="Margin" Value="-30,5,0,0" />  
            <Setter Property="FontSize" Value="28" />  
            <Setter Property="FontAttributes" Value="Bold" />  
            <Setter Property="TextColor" Value="#FFFFFF" />  
        </Style>  
  
    </ResourceDictionary>  
</Application.Resources>  
</Application>
```



Style Tips

```
<Thickness x:Key="LeftPad">-30,5,0,0</Thickness>
<Color x:Key="LightText">#FFFFFF</Color>

<Style x:Key="RecipeLabel" TargetType="Label">
    <Setter Property="Margin" Value="{StaticResource LeftPad}" />
    <Setter Property="FontSize" Value="28" />
    <Setter Property="FontAttributes" Value="Bold" />
    <Setter Property="TextColor" Value="{StaticResource LightText}" />
</Style>
```



Implicit Styles

All controls of TargetType use

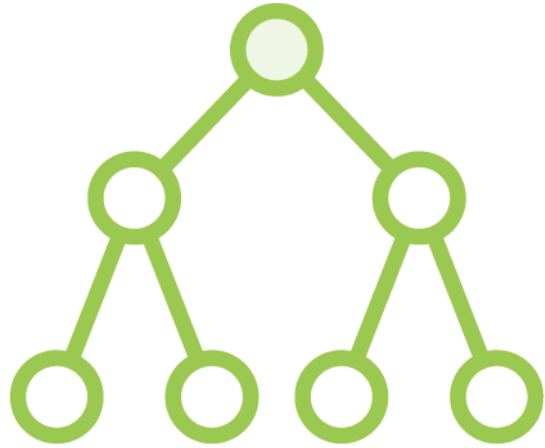
TargetType must match
exactly to control type

No x:Key in style declaration

Control's Style not set



Style Inheritance



Promotes style reuse

Override or define new properties

Implicit can be derived from explicit

- Not other way

Inherit from styles at same level or above

Use BasedOn keyword

Style Inheritance

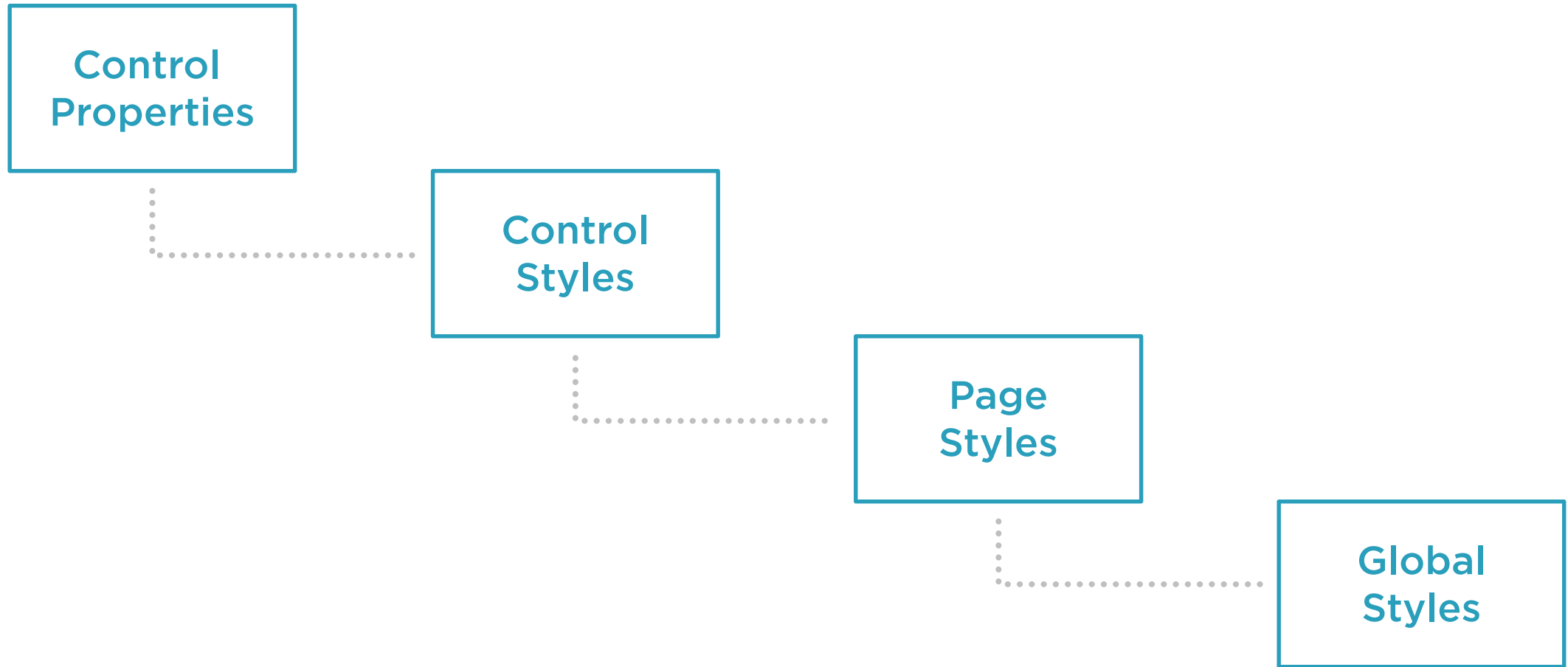
```
<Style x:Key="baseStyle" TargetType="View">
    <Setter Property="BackgroundColor" Value="Red" />
    <Setter Property="Margin" Value="10,0,0,0" />
</Style>

<Style BasedOn="{StaticResource baseStyle}"
        x:Key="lblStyle" TargetType="Label">
    <Setter Property="TextColor" Value="Black" />
</Style>

<Style BasedOn="{StaticResource baseStyle}"
        x:Key="btnStyle" TargetType="Button" >
    <Setter Property="TextColor" Value="Gray" />
    <Setter Property="BackgroundColor" Value="#4286f4" />
</Style>
```



Style Precedence Rules



Demo



Global style

Implicit style

Inheritance and precedence

Tips and pointers



Style Hierarchy and Inheritance Summary



Defined at three levels

- Global
- Page
- Control

Precedence rules

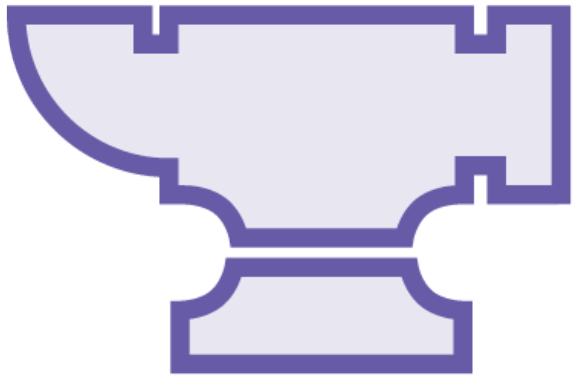
Implicit applies to all target controls

Styles can derive from others

Dynamic Styles

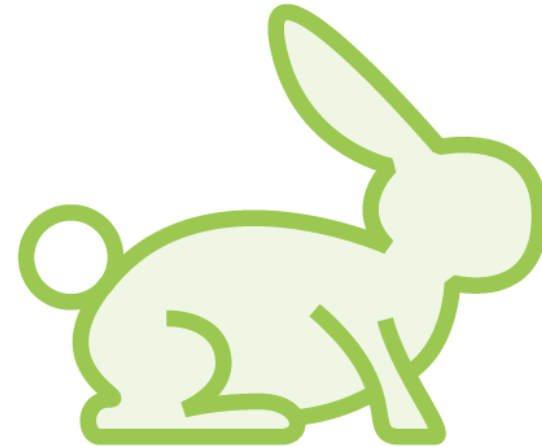


Dynamic Styles



Styles

Cannot change internal structure
Property definitions stay the same



Dynamic Styles

Enables style changes at runtime





Declaring the style stays the same
Consume with `DynamicResource`
Inherit with `BaseResourceKey`
Ability for app theming

Demo



Create and consume dynamic styles

Add app theming



Dynamic Styles Summary



Enables style changes at runtime

Style declaration the same

DynamicResource

App themes possible





Styles

- Consistent, customizable UI
- Collection property setters
- ResourceDictionary

Defined at three levels

Precedence rules

Inheritance

Dynamic