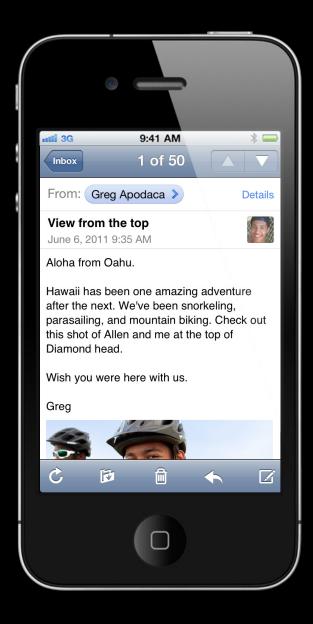
Customizing the Appearance of UlKit Controls

Session 114

Chris Parker

iOS Frameworks Engineer

These are confidential sessions—please refrain from streaming, blogging, or taking pictures







Tint color



Tint color



Tint color





Images



```
setBackgroundImage:
forBarMetrics:

typedef enum {
    UIBarMetricsDefault,
    UIBarMetricsLandscapePhone,
} UIBarMetrics;
```



titleTextAttributes:

leftBarButtonItems:
rightBarButtonItems:

leftItemsSupplementBackButton



titleTextAttributes:

leftBarButtonItems:
rightBarButtonItems:

leftItemsSupplementBackButton



titleTextAttributes:

leftBarButtonItems:
rightBarButtonItems:

leftItemsSupplementBackButton



setBackgroundImage:
forState:
barMetrics:

setBackButtonBackgroundImage:
forState:
barMetrics:



setBackgroundImage:
forState:
barMetrics:

setBackButtonBackgroundImage:
forState:
barMetrics:



Demo Customizing instances

Marian Goldeen

iOS Frameworks Mountain Biker

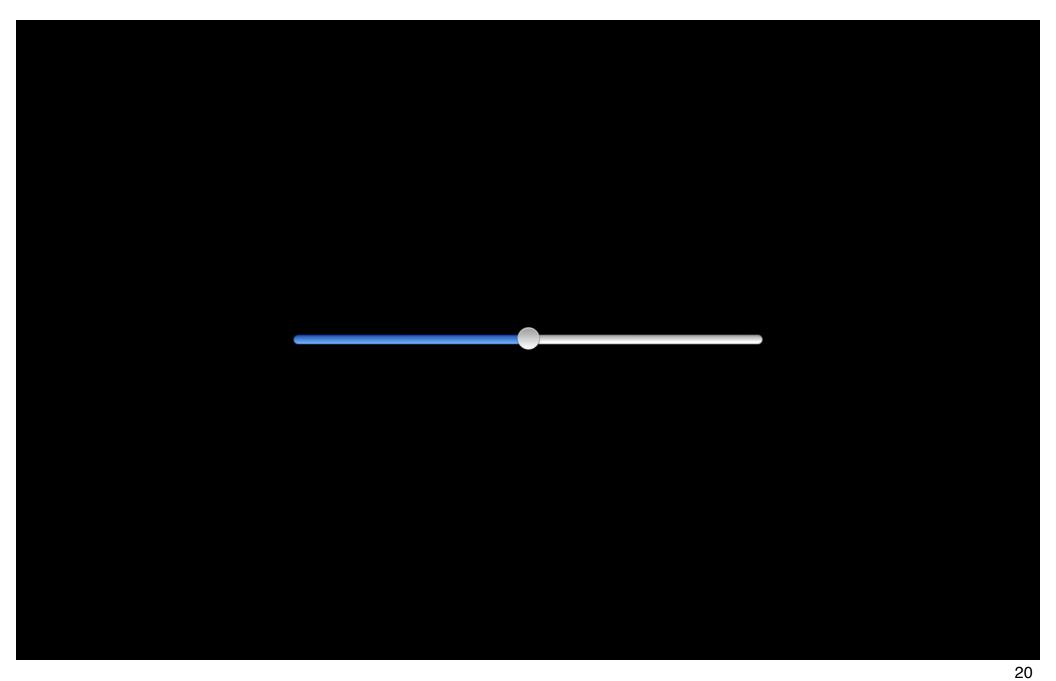




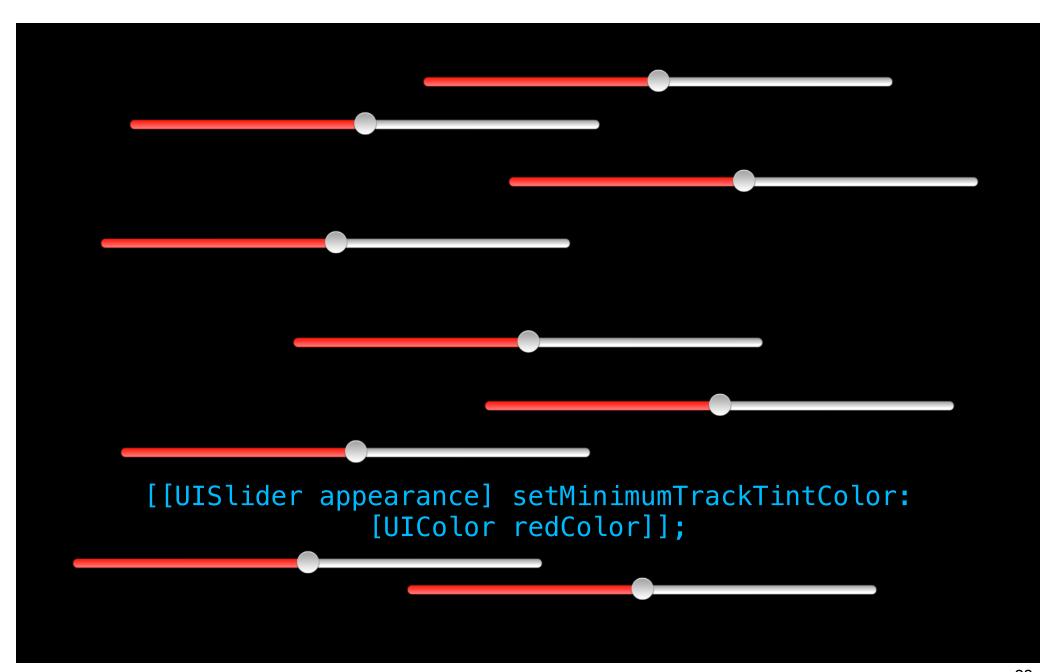
Easy

Consistent look

Support application features







Appearance Proxy

UIAppearance.h

```
@protocol UIAppearance <NSObject>
+ (id)appearance;
...
@end
```

Appearance Proxy

UIAppearance.h

```
@protocol UIAppearance <NSObject>
+ (id)appearance;
@end
#define UI_APPEARANCE_SELECTOR
```

Demo Appearance proxy basics

Zap





Appearance Proxy

UIAppearance.h

```
@protocol UIAppearance <NSObject>
+ (id)appearance;
+ (id)appearanceWhenContainedIn:(Class <UIAppearanceContainer>)containerClass, ...;
@end
```

Appearance Proxy

UIAppearance.h

```
@protocol UIAppearance <NSObject>
```

```
+ (id)appearance;
+ (id)appearanceWhenContainedIn:(Class
<UIAppearanceContainer>)containerClass, ...;
```

@end

Containment

```
[[UIButton appearanceWhenContainedIn:
   [UINavigationController class], nil]
   setTitleColor:[UIColor redColor]
   forControlState:UIControlStateNormal];
```

Containment

```
[[UIButton appearanceWhenContainedIn:
   [UINavigationController class], nil]
   setTitleColor:[UIColor redColor]
   forControlState:UIControlStateNormal];
```

9:41 AM * = util 3G Start Room Control Zap Magic More Magic



Containment

```
[[UIButton appearanceWhenContainedIn:
    [CustomViewController class],
    [UINavigationController class], nil]
    setTitleColor:[UIColor redColor]
    forControlState:UIControlStateNormal];
```





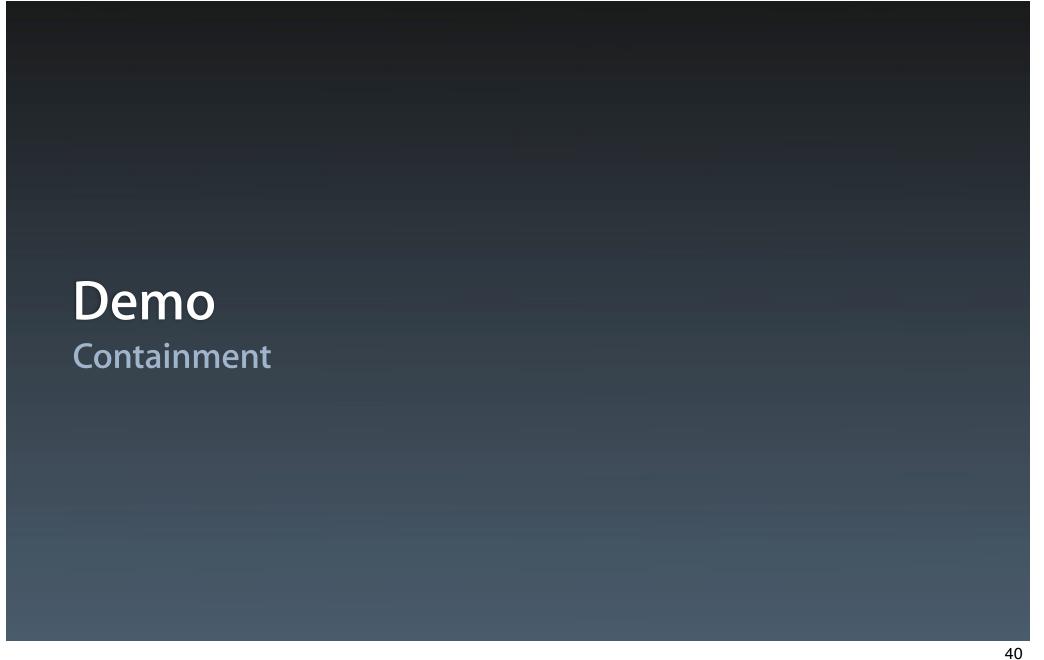
Containment

Composition rules

```
[[UIButton appearanceWhenContainedIn:
    [CustomViewController class],
    [UINavigationController class], nil]
    setTitleColor:[UIColor redColor]
    forControlState:UIControlStateNormal];
```

The button's appearance...

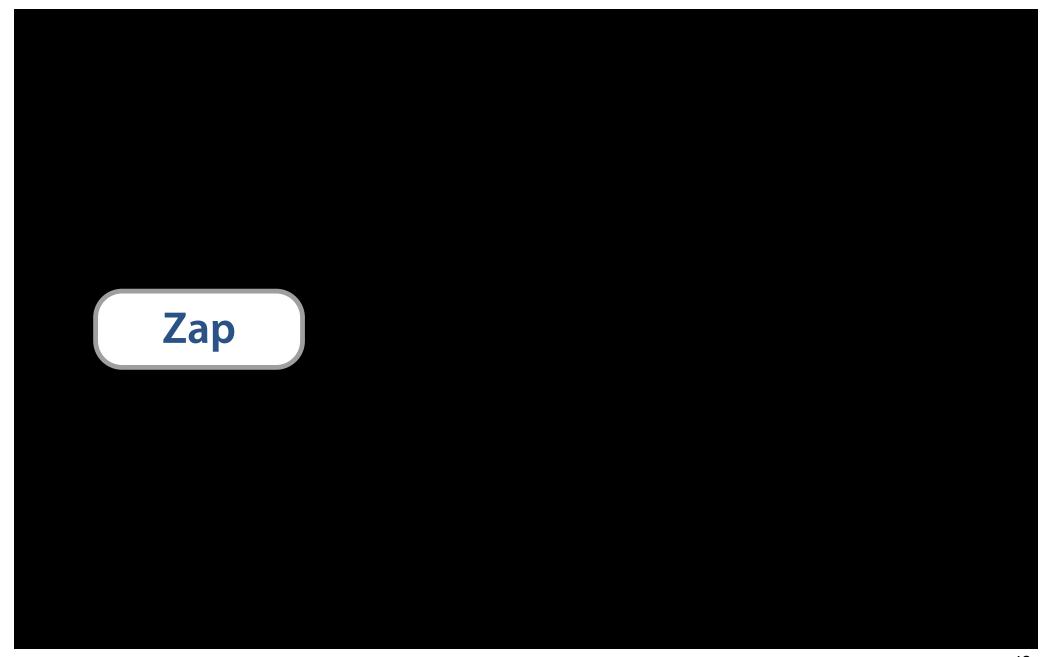
- ...when contained in a CustomViewController
- ...when contained in a UINavigationController



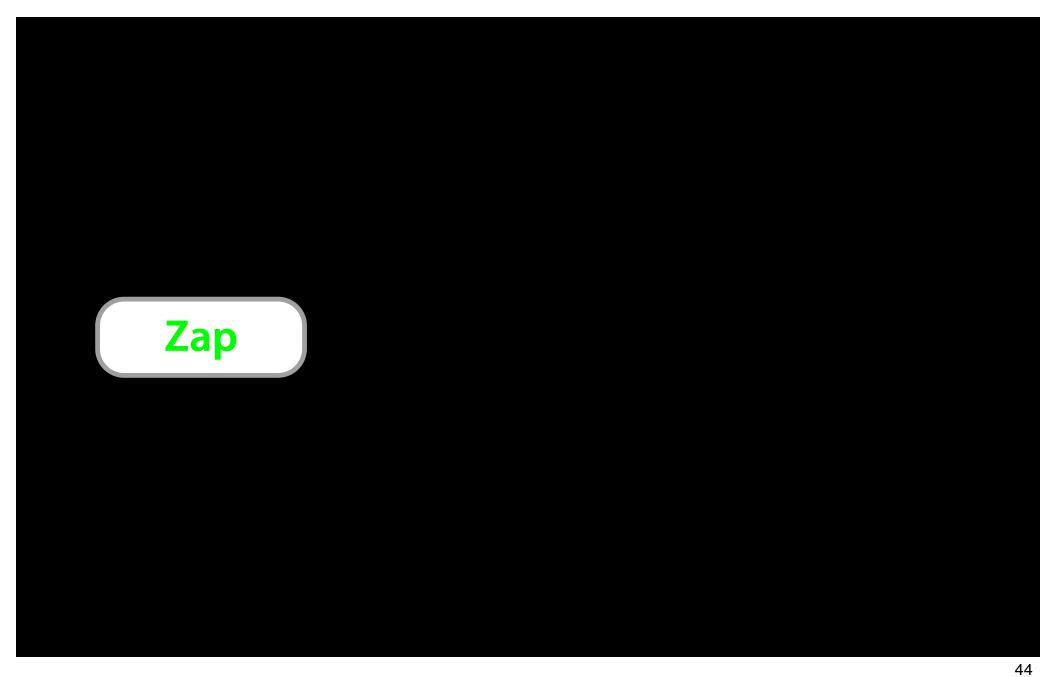
What is Happening?

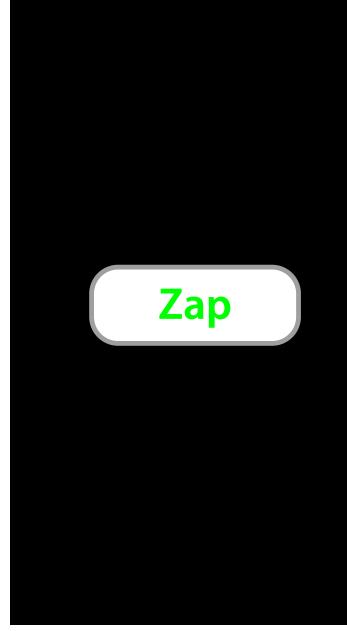
Rule application

- Just before [UIView layoutSubviews] is called...
 - Rules are evaluated
 - Customizations are applied
- Updates are applied at the time the hierarchy is changed
 - At the hierarchy change point
 - Does not update in real time



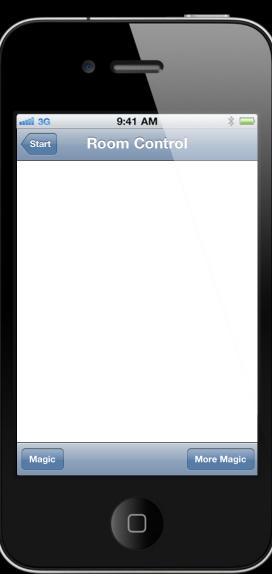
setTitleColor: [UIColor greenColor] forControlState: UIControlStateNormal];







Zap







More Information

Bill Dudney

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Documentation

iOS Dev Center http://developer.apple.com/devcenter/ios/

Apple Developer Forums

http://devforums.apple.com

