Custom Views in Interface Builder

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Previously...

CocoaHeads: Dec 2, 2014
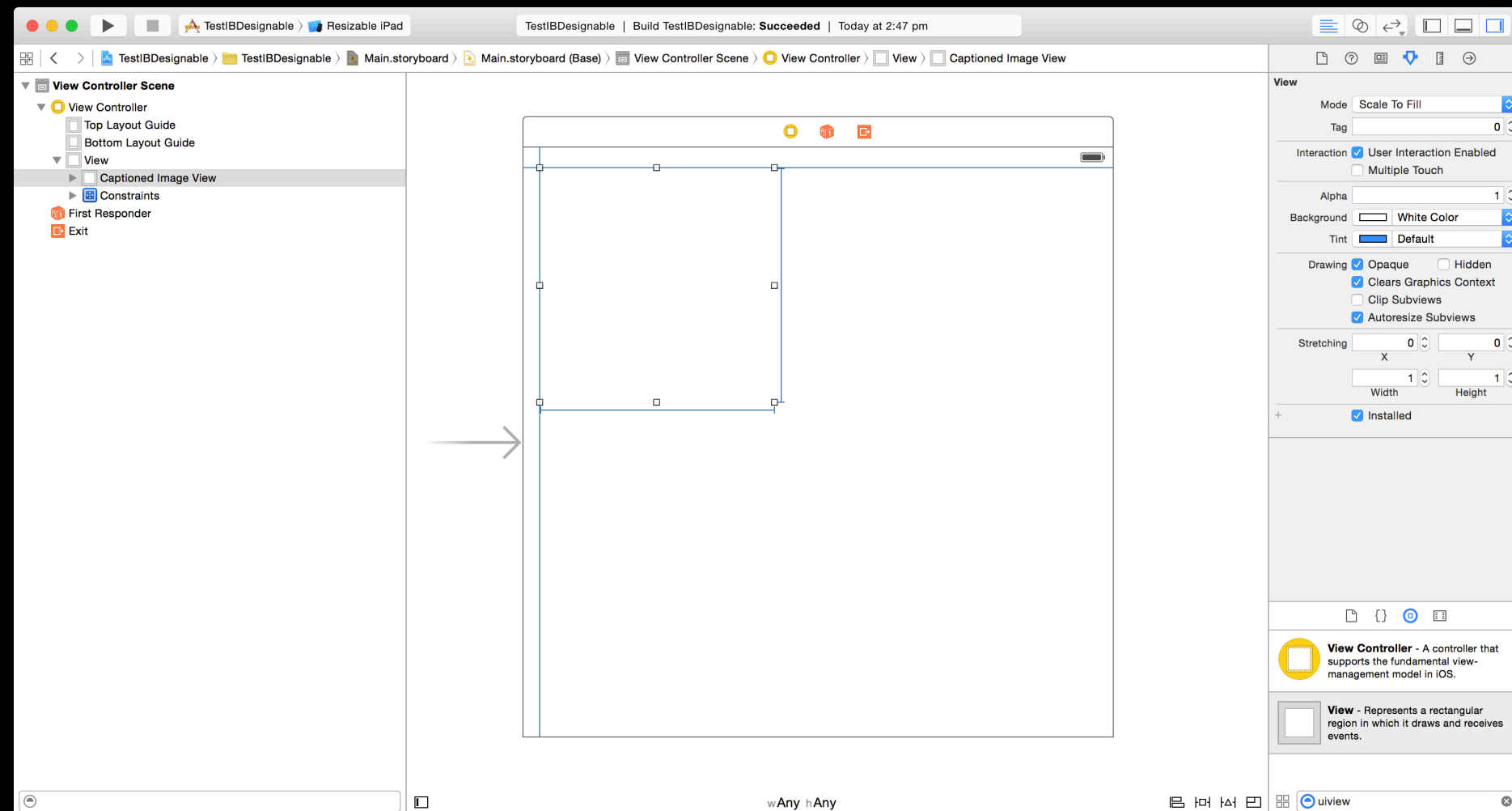
Previously...
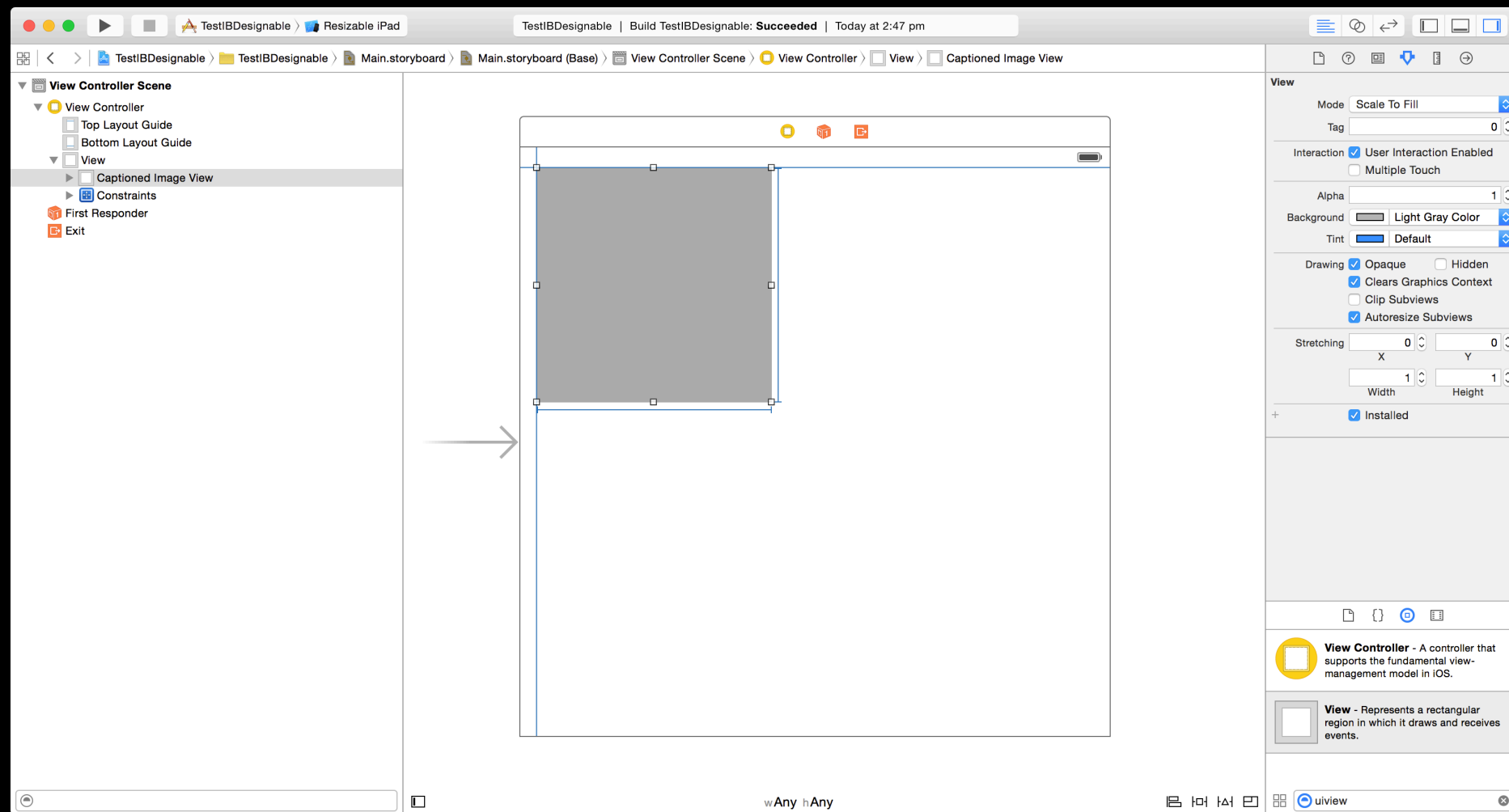
Wouldn't it be nice if?

CocoaHeads: Dec 2, 2014

Enter @IBDesignable
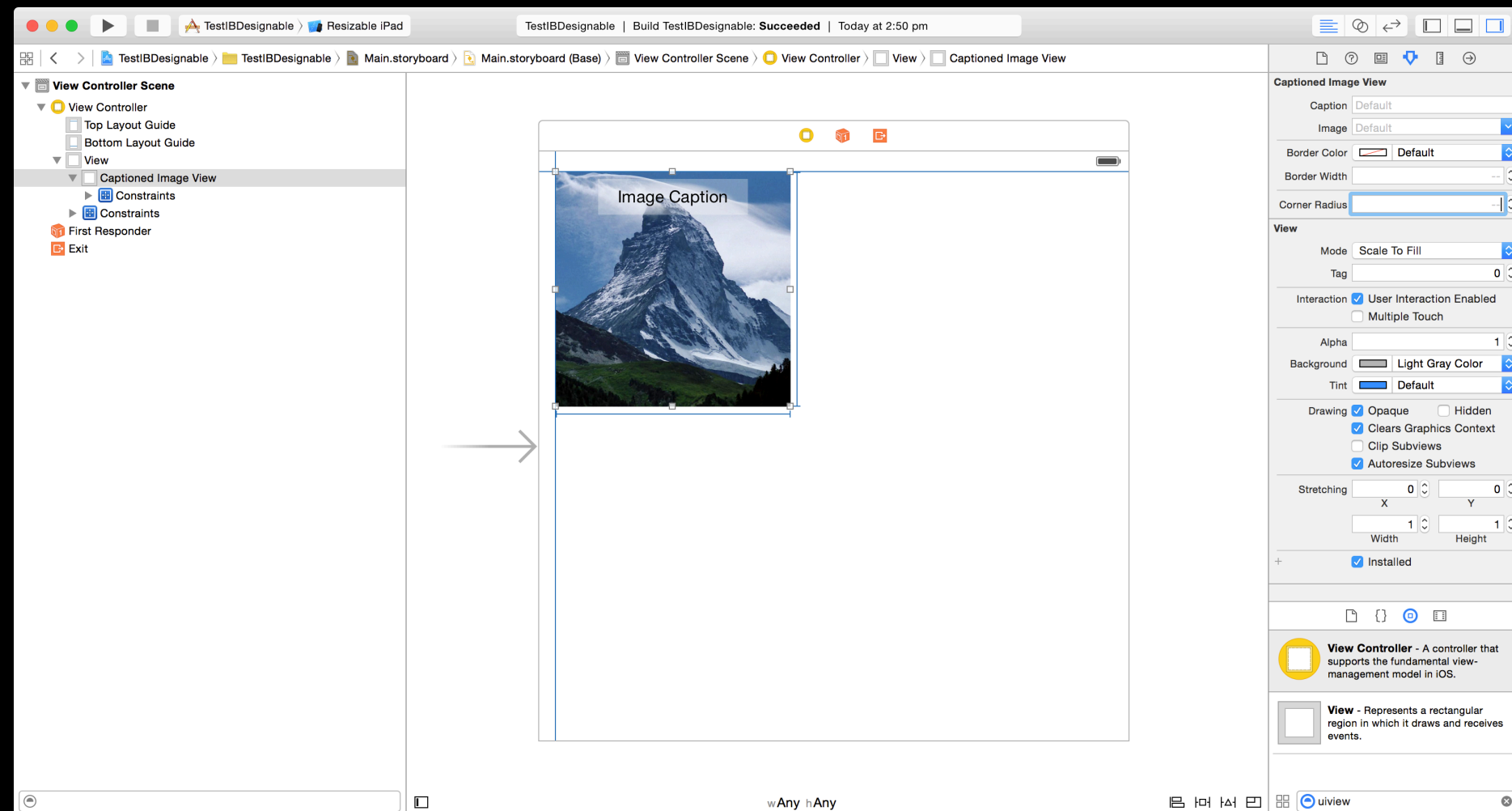
Swift

```swift
import UIKit

@IBDesignable class MyCustomView: UIView {

    @IBInspectable var borderColor: UIColor { ... }
    @IBInspectable var borderWidth: CGFloat { ... }
    @IBInspectable var cornerRadius: CGFloat { ... }

}
```

Swift

```swift
@IBInspectable var borderColor: UIColor {
    get {
        return UIColor(CGColor: layer.borderColor)
    }
    set(newColor) {
        layer.borderColor = newColor.CGColor
    }

}
```

Objective C

```objc
#import <UIKit/UIKit.h>

IB_DESIGNABLE @interface MyCustomView : UIView

@property(nonatomic, strong) IBInspectable UIColor *borderColor;
@property(nonatomic, assign) IBInspectable CGFloat borderWidth;
@property(nonatomic, assign) IBInspectable CGFloat cornerRadius;

@end
```

Objective C

```objc
@implementation MyCustomView

- (void)setBorderColor:(UIColor *)borderColor {
    self.layer.borderColor = borderColor.CGColor;
}


- (UIColor *)borderColor {
    return [UIColor colorWithCGColor:self.layer.borderColor];
}


...

@end
```
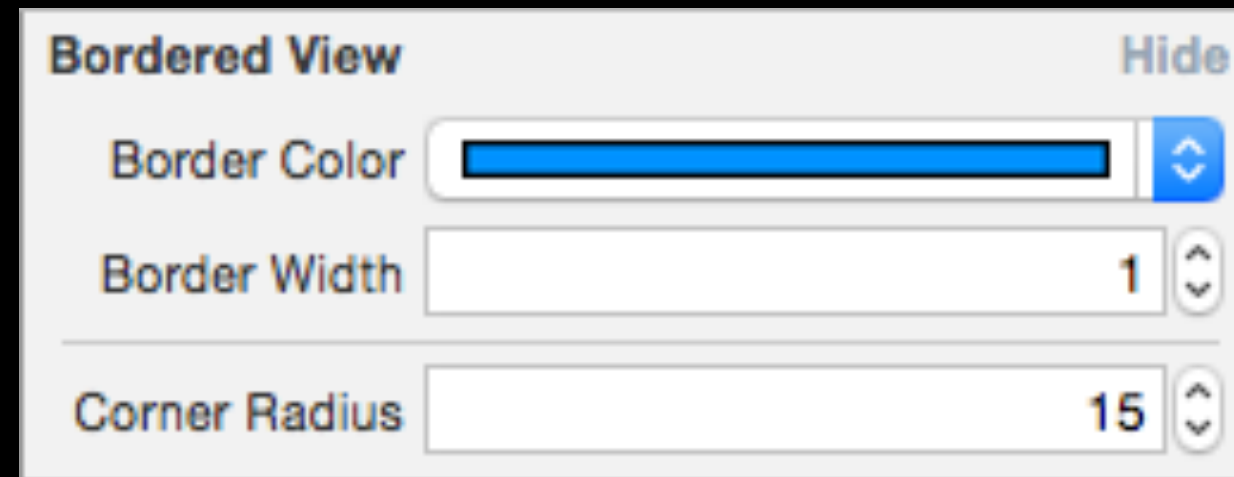
Supported data types?

- numbers e.g. `Int32`, `Double`, etc
- `Bool`, `String`, `UIColor`, `UIImage`
- `CGFloat`, `CGPoint`, `CGSize`, `CGRect`

Properties in Interface Builder

```
@IBInspectable var borderColor: UIColor
@IBInspectable var borderWidth: CGFloat
@IBInspectable var cornerRadius: CGFloat
```

becomes

Demo

More complex views?

1. Create and layout in a XIB
2. Make custom view @IBDesignable
3. Reuse in Storyboard or from code
4. Profit!!!

https://github.com/mbogh/NibDesignable

Demo

Debugging custom views in IB

1. set a breakpoint

2. select custom view in IB

3. `Editor -> Debug Selected Views`

More info

- Apple's developer docs + WWDC 2014 sessions:
  - 401 "What's new in Xcode 6"
  - 411 "What's new in interface builder"

More info

- http://www.weheartswift.com/make-awesome-ui-components-ios-8-using-swift-xcode-6/

- http://www.shinobicontrols.com/blog/posts/2014/08/12/ios8-day-by-day-day-17-live-rendering-in-interface-builder

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