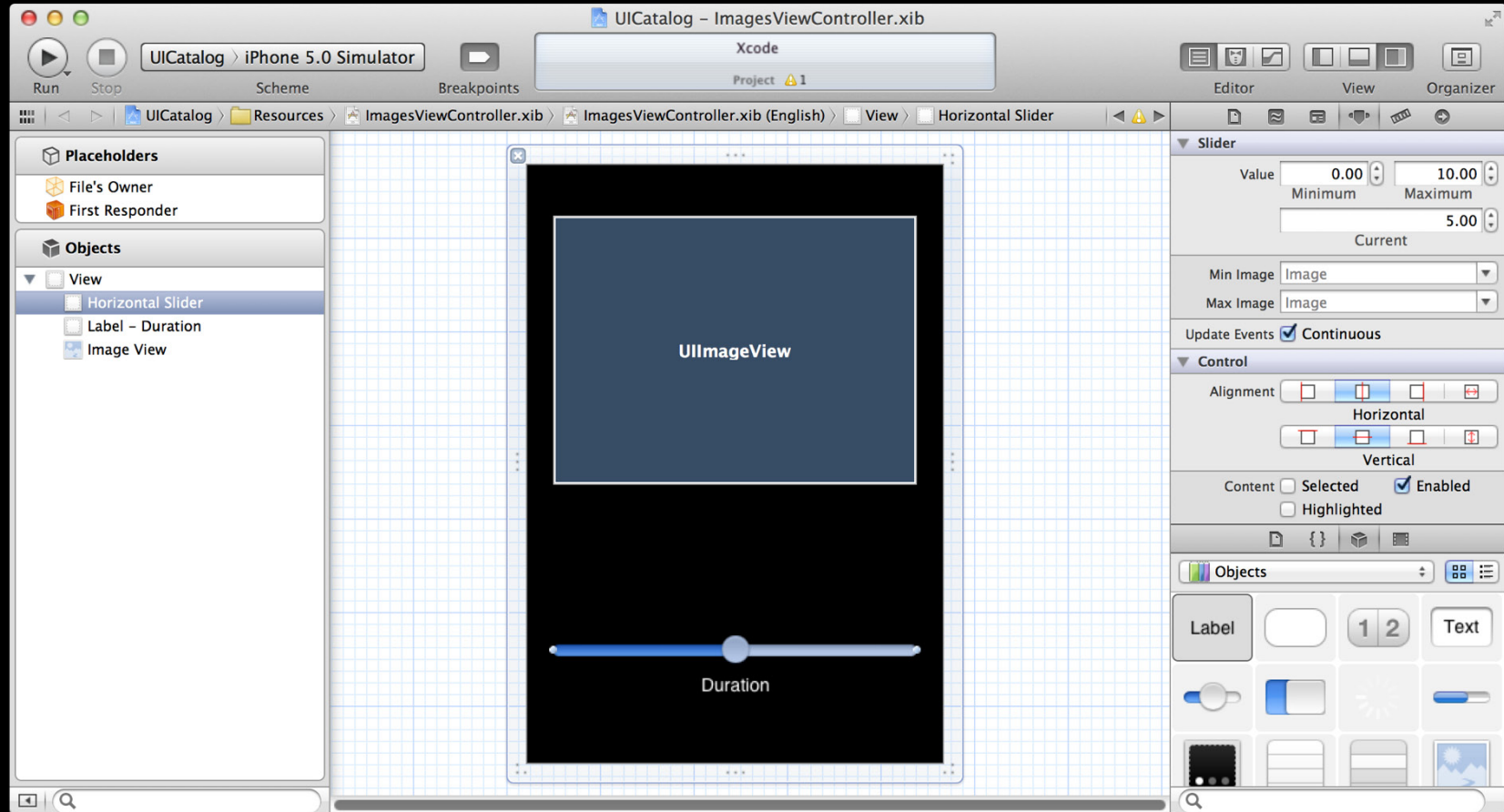


Using Interface Builder in Xcode 4

Joey Hagedorn
Interface Builder Engineer

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

What Is Interface Builder?



Agenda

1

Tour of Interface Builder in Xcode



2

Building a basic application



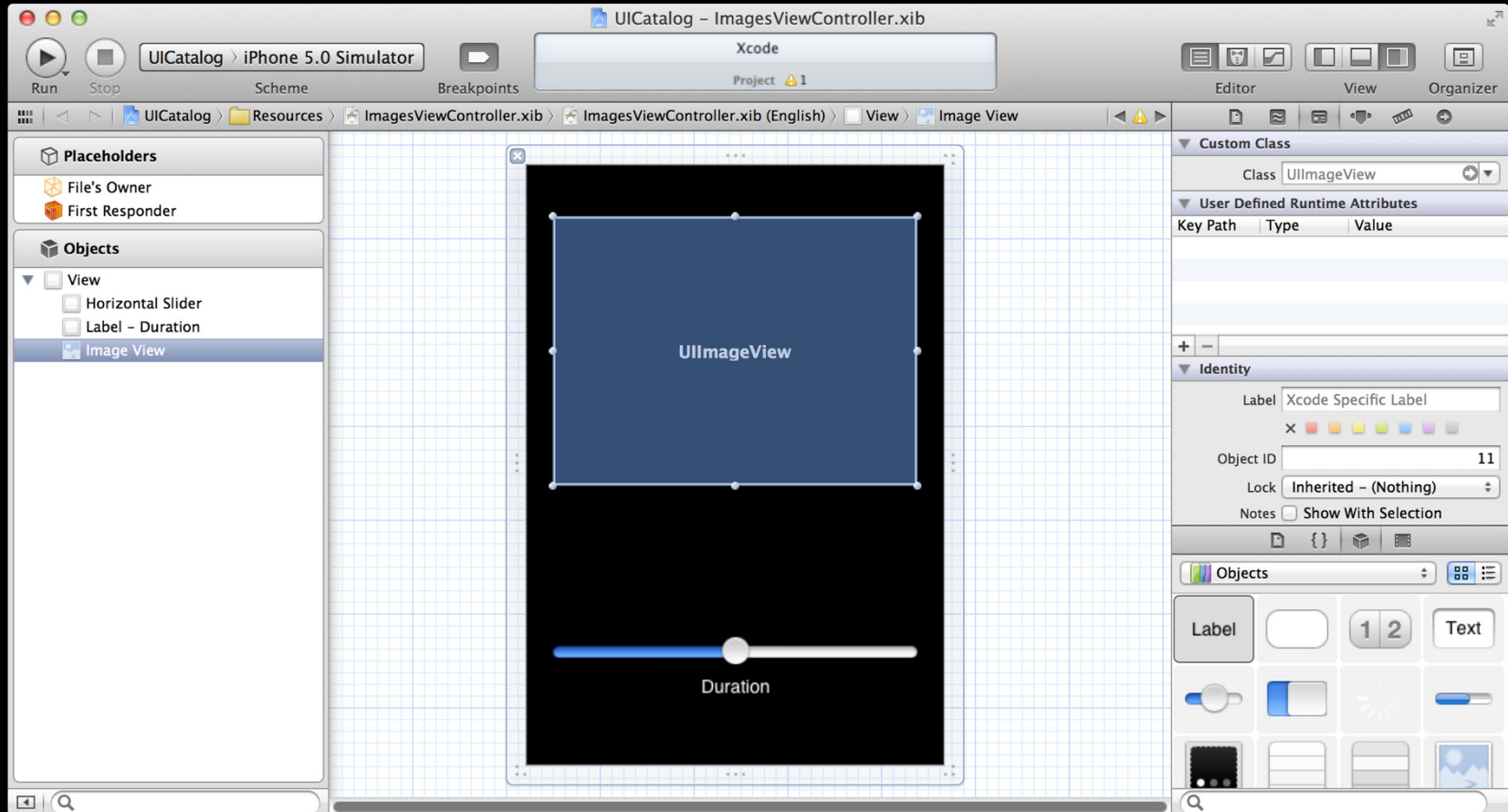
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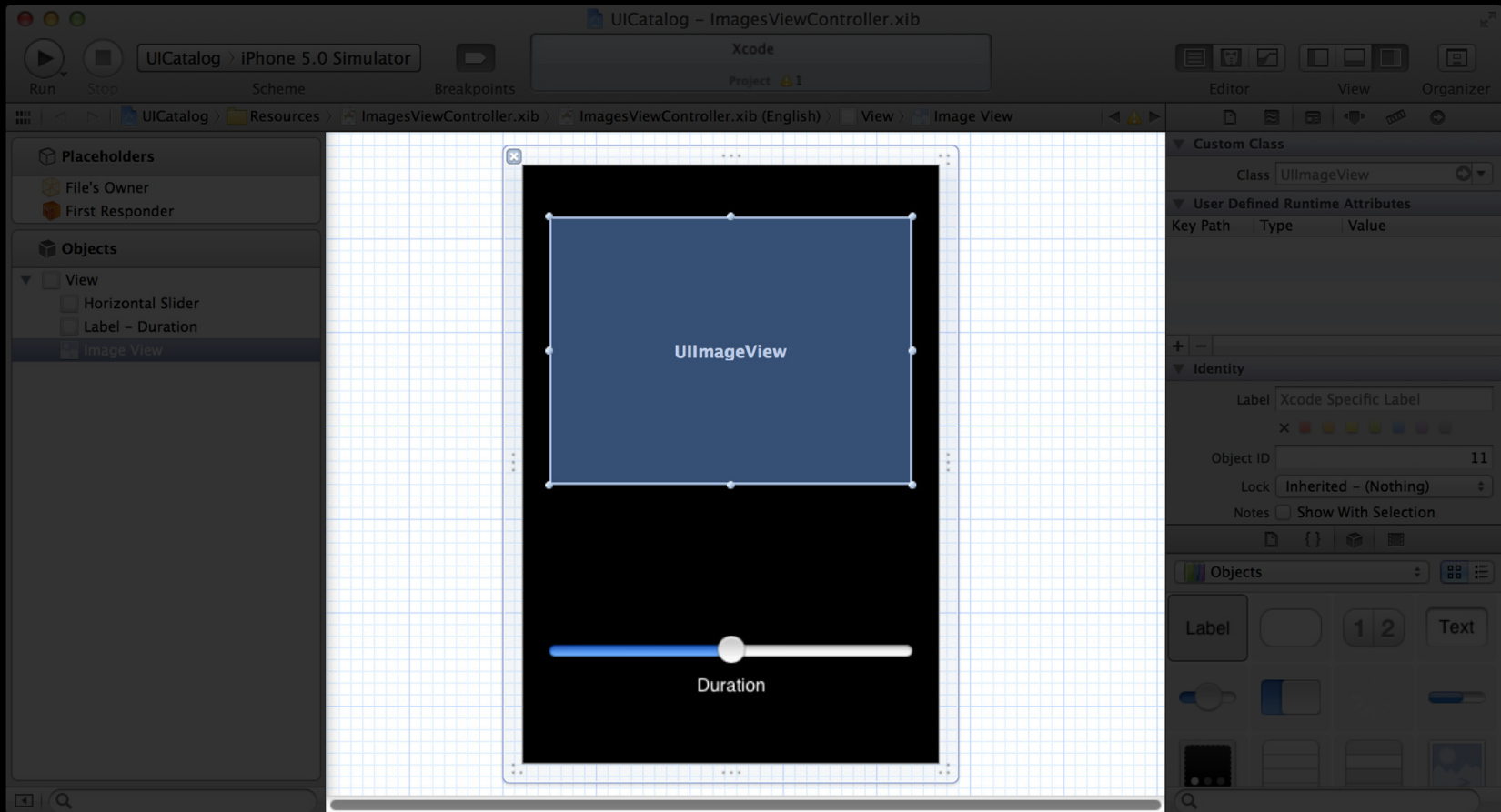
Integrating new Mac OS X Lion features

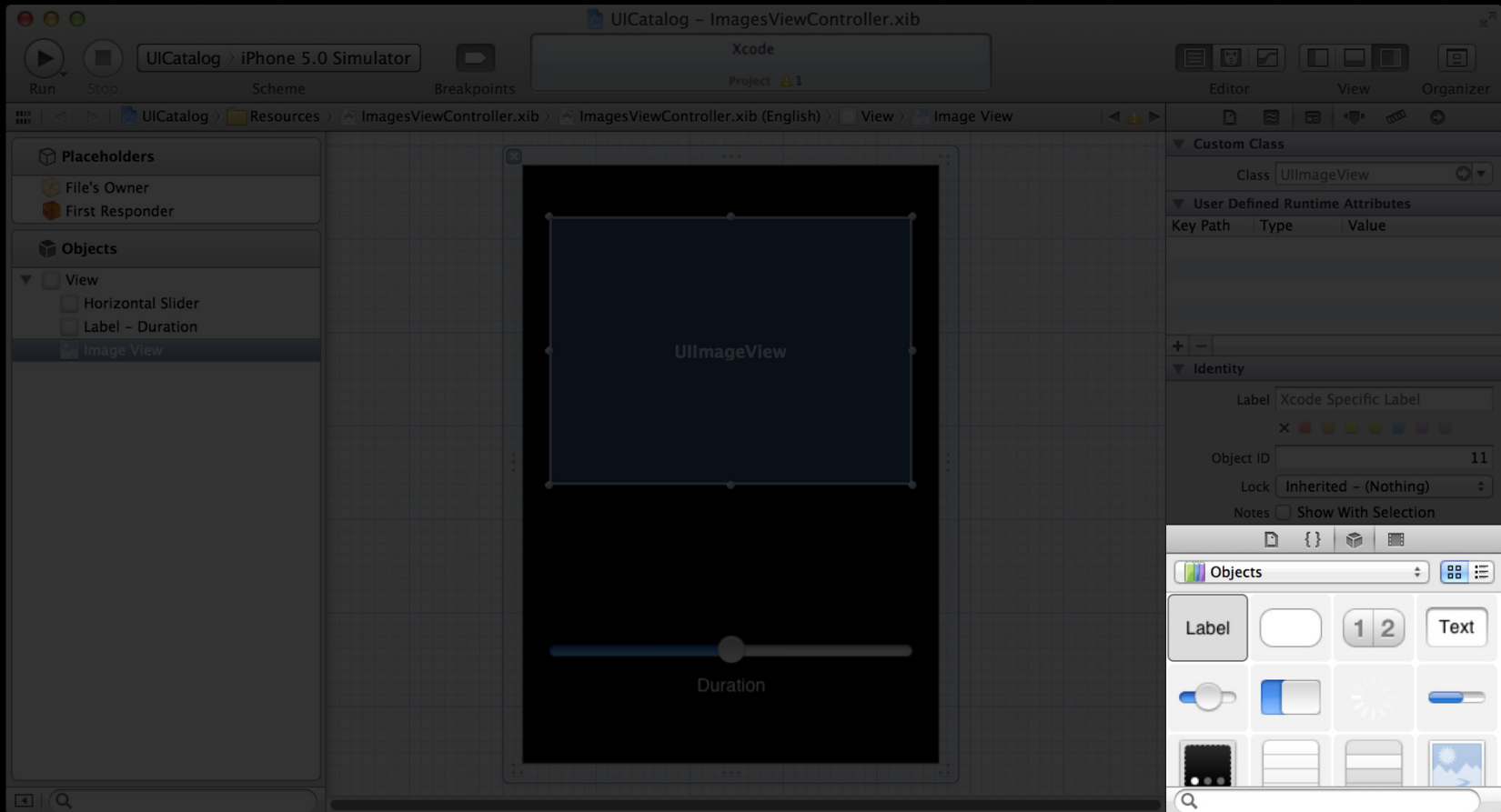


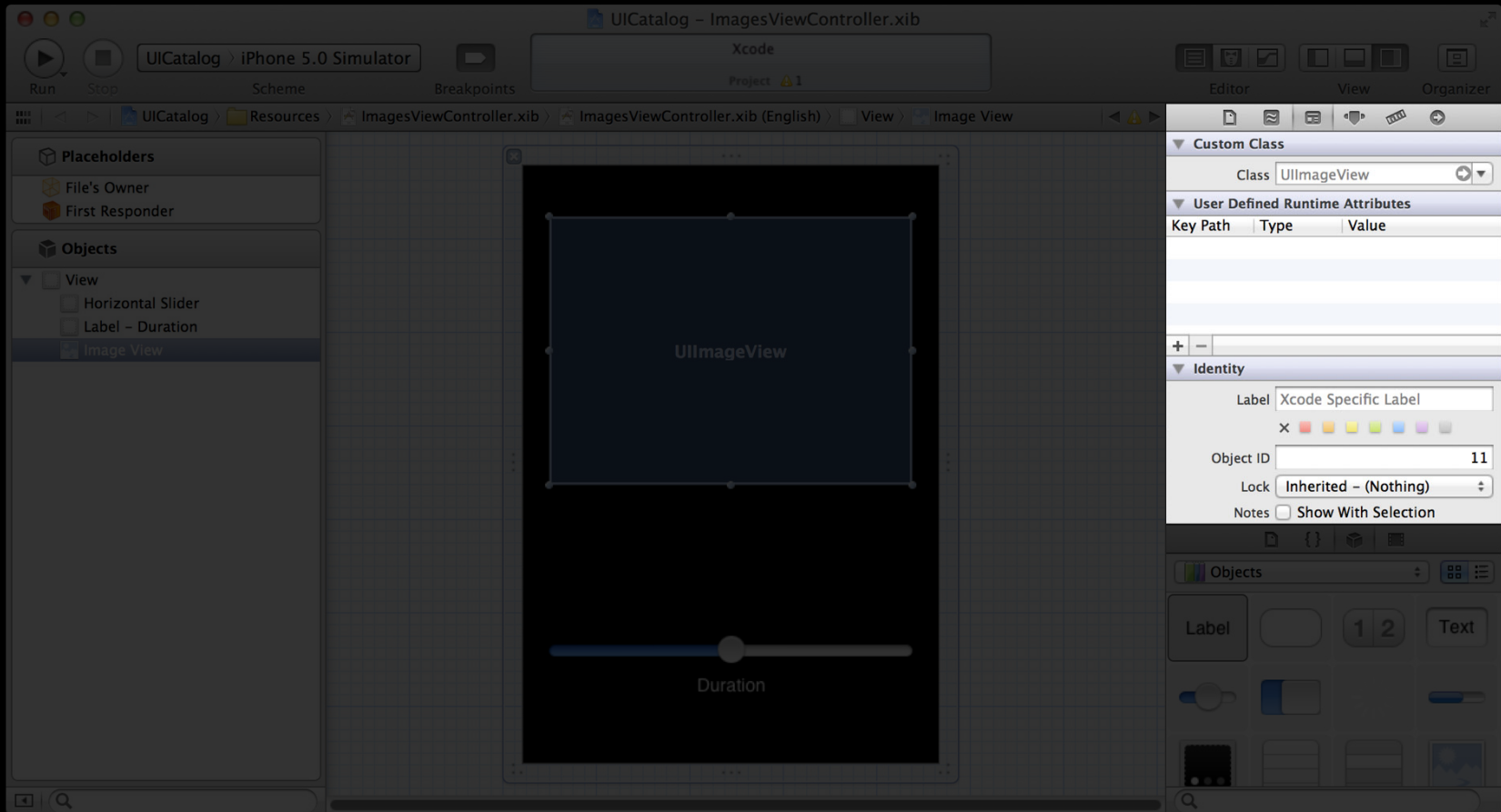
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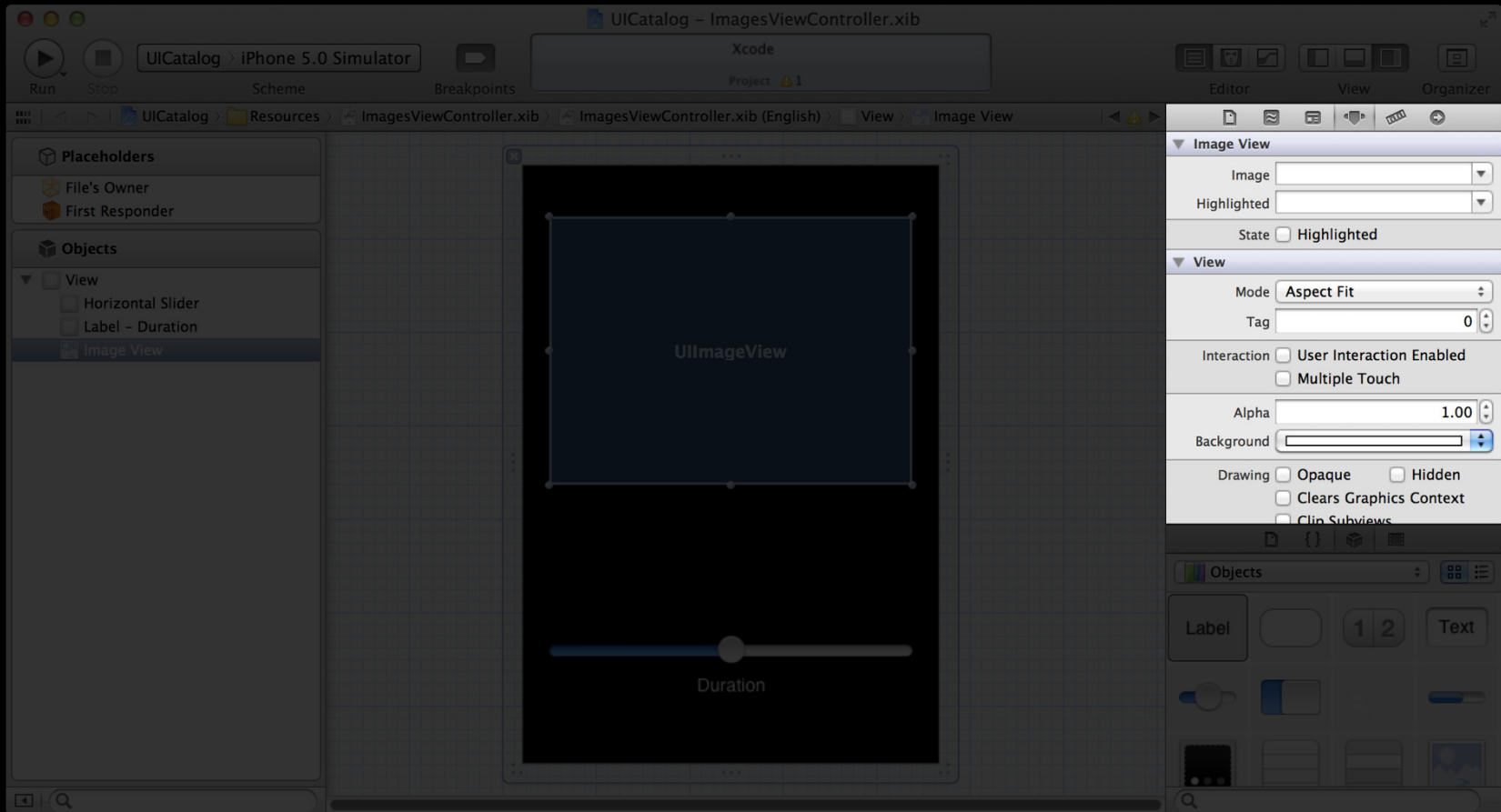
Tour of Interface Builder in Xcode

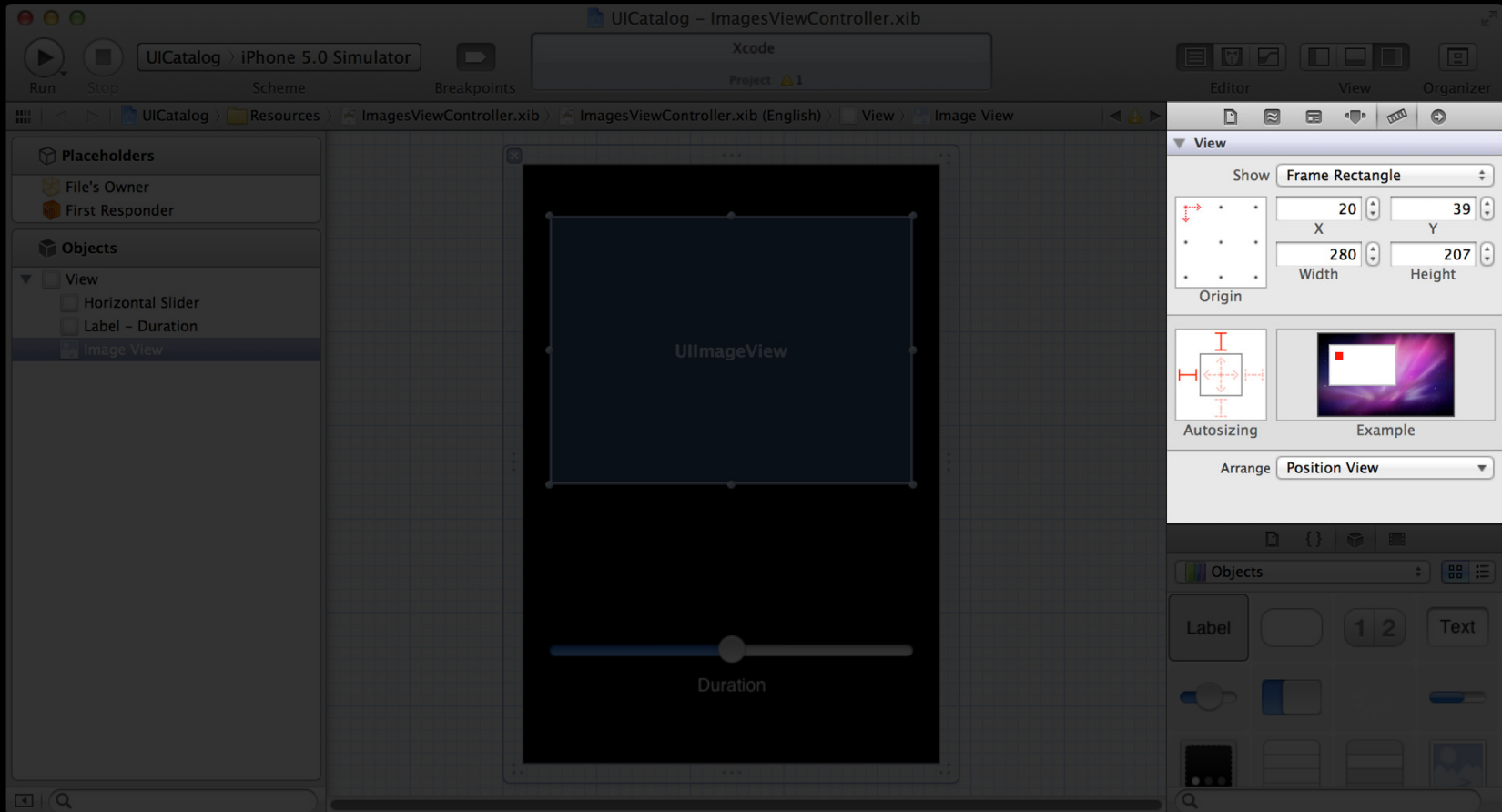


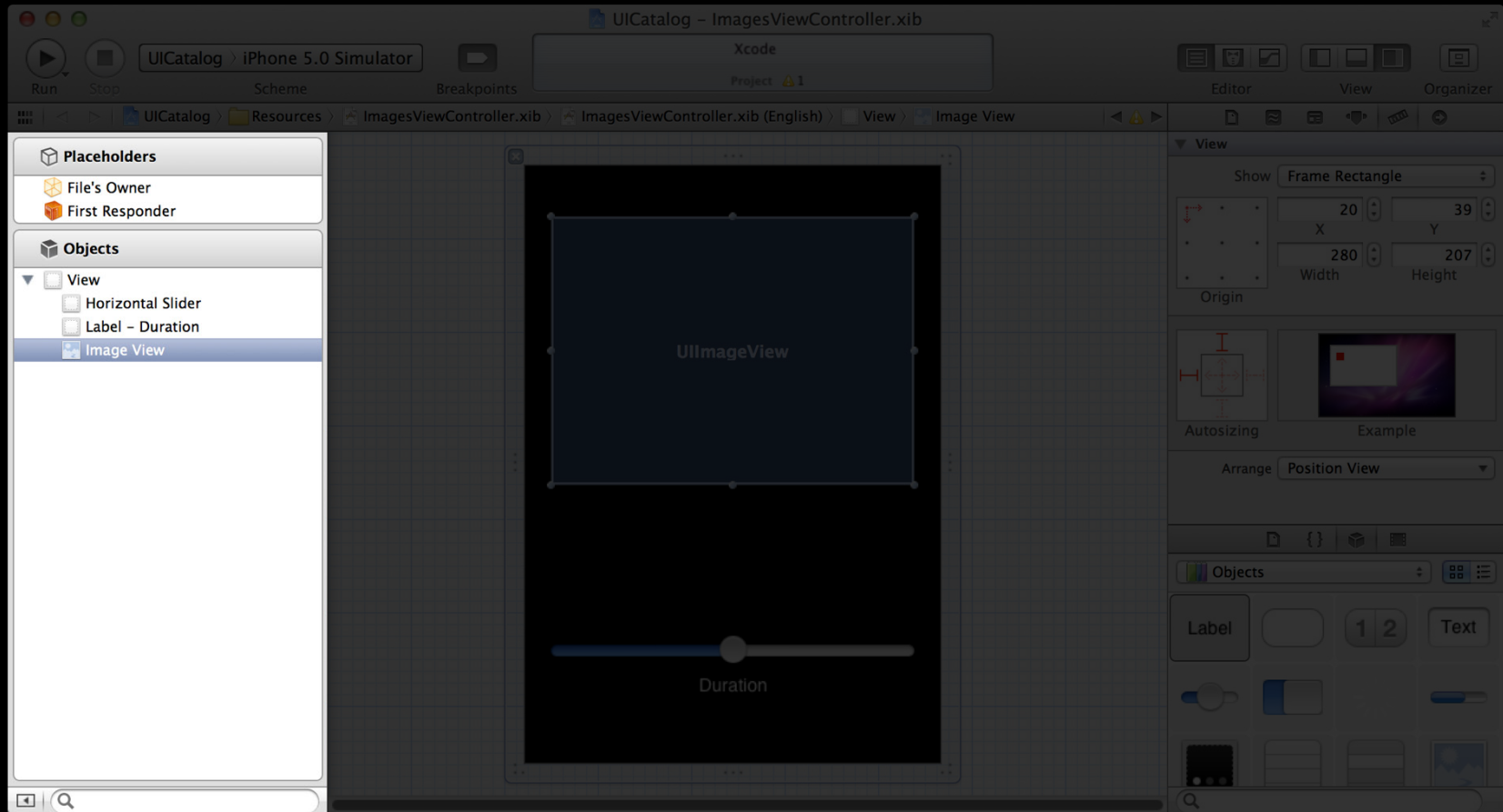












The screenshot shows the Xcode IDE with a storyboard on the left and a code editor on the right. The storyboard displays a blue square labeled "UIImageView" and a slider labeled "Duration". A blue line connects the "UIImageView" label to the code editor. The code editor shows the following code:

```
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41 STRICT LIABILITY OR OTHERWISE, EVEN IF APPLE HAS BEEN ADVISED OF THE
42 POSSIBILITY OF SUCH DAMAGE.
43
44 Copyright (C) 2011 Apple Inc. All Rights Reserved.
45
46 */
47
48 #import <UIKit/UIKit.h>
49
50 @interface UIImageViewController : UIViewController
51 {
52     UISlider *slider;
53 }
54
55 @property (nonatomic, retain) UIImageView *imageView;
56
57 - (IBAction)sliderAction:(id)sender;
58
59 @end
60
61
```

Agenda

1

Tour of Interface Builder in Xcode



2

Building a basic application



3

Integrating new Mac OS X Lion features



Demo

Building a basic application using Interface Builder

Agenda

1

Tour of Interface Builder in Xcode



2

Building a basic application



3

Integrating new Mac OS X Lion features



3

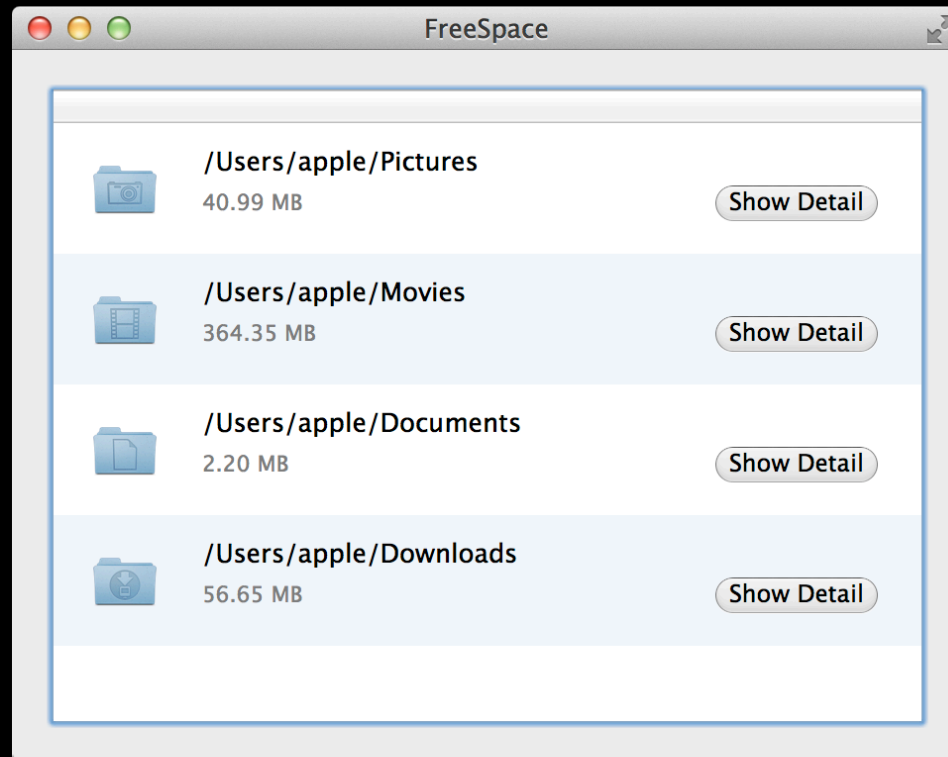
Integrating new Mac OS X Lion features

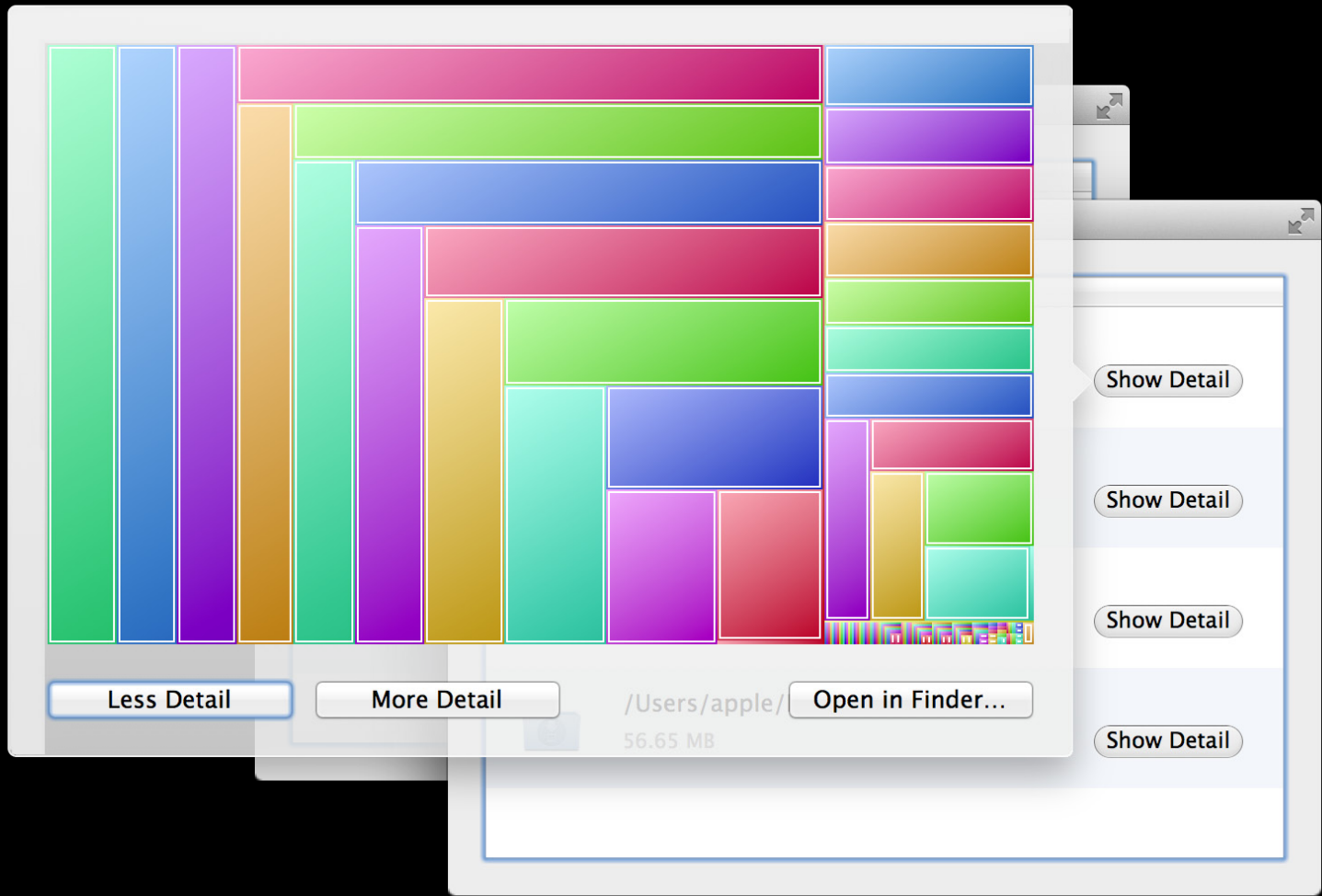


The screenshot shows a window titled "FreeSpace" with a table of disk usage. The table has two columns: the folder path and the size in MB. The data is as follows:

Folder Path	Size (MB)
/Users/apple/Pictures	40.99 MB
/Users/apple/Movies	364.35 MB
/Users/apple/Documents	2.19 MB
/Users/apple/Downloads	56.65 MB

Path	Size
/Users/apple/Pictures	40.99 MB
/Users/apple/Movies	364.35 MB
/Users/apple/Documents	2.19 MB
/Users/apple/Downloads	56.65 MB





Integrating New Mac OS X Lion Features

Demo

Using Interface Builder in Xcode 4

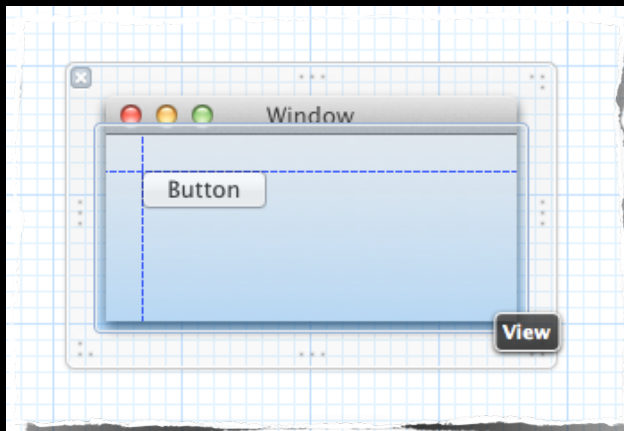
Kevin Cathey
Interface Builder Engineer

Demo

Creating Popovers in Interface Builder

Autolayout

What is Autolayout?



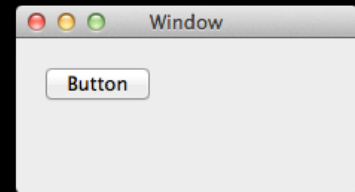
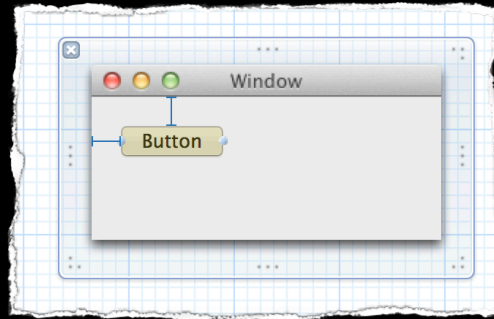
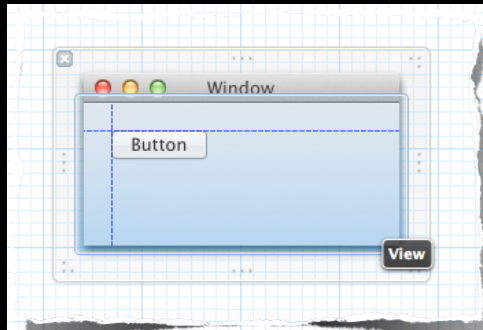
Button

{{20, 64}, {70, 20}}

Aqua guides are one-time visual **helpers** to produce the **frame** of a view

Autolayout

What is Autolayout?



{{20, 64}, {70, 20}}

Autolayout reverses this: guides kept as **constraints** which is input, frame is output

What Is Autolayout?

- Persist the aqua guides as objects called **constraints**
- Constraints are **relationships** that must hold
- Constraints involve **one or two** views
- Constraints are **objects** you interact with in your document

Why Autolayout?

- **Dynamism:** Improved responsiveness to changes in the application
- **Simplicity:** Creation of basic interfaces even easier
- **Expressiveness:** Can specify powerful relationships between views
- **Localization:** Interfaces are not fragile to sweeping changes

Demo

Using Autolayout in Interface Builder

Demo Recap

New Mac OS X Lion features

- View-based table views
- Full screen
- Popovers
- Autolayout



Demo Recap

Autolayout

- Constraints are **input**, frame is **output**
- Constraints are **relationships** that must hold
- Constraints involve **one or two** views
- Constraints are **objects** you interact with in your document

More Information

Michael Jurewitz

Developer Tools and Performance Evangelist

jurewitz@apple.com

Documentation

Mac OS X Human Interface Guidelines

<http://developer.apple.com/ue>

Apple Developer Forums

<http://devforums.apple.com>

Related Sessions

Introducing Interface Builder Storyboarding

Presidio
Wednesday 11:30AM

Cocoa Autolayout

Marina
Tuesday 11:30AM

View-Based NSTableView Basic to Advanced

Nob Hill
Thursday 10:15AM

