Mastering Auto Layout

Justin Williams

Justin Williams

- Twitter: @justin
- Blog: http://justinw.me

ACHIEVING ZEN WITH AUTO LAYOUT

JUSTIN WILLIAMS

Book Topics Covered

- How Auto Layout works under the hood
- Taking advantage of Interface Builder
- Code-based constraints
- Using Size classes
- Layout Guides and Anchors
- And more!

Save 20% with Code: 360iDev

HTTP://AUTOLAYOUTZEN.COM

Today's Agenda

- Layout Margins
- Layout Anchors
- Layout Guides
- Debugging Auto Layout with Swift
- Time for Questions? Maybe.

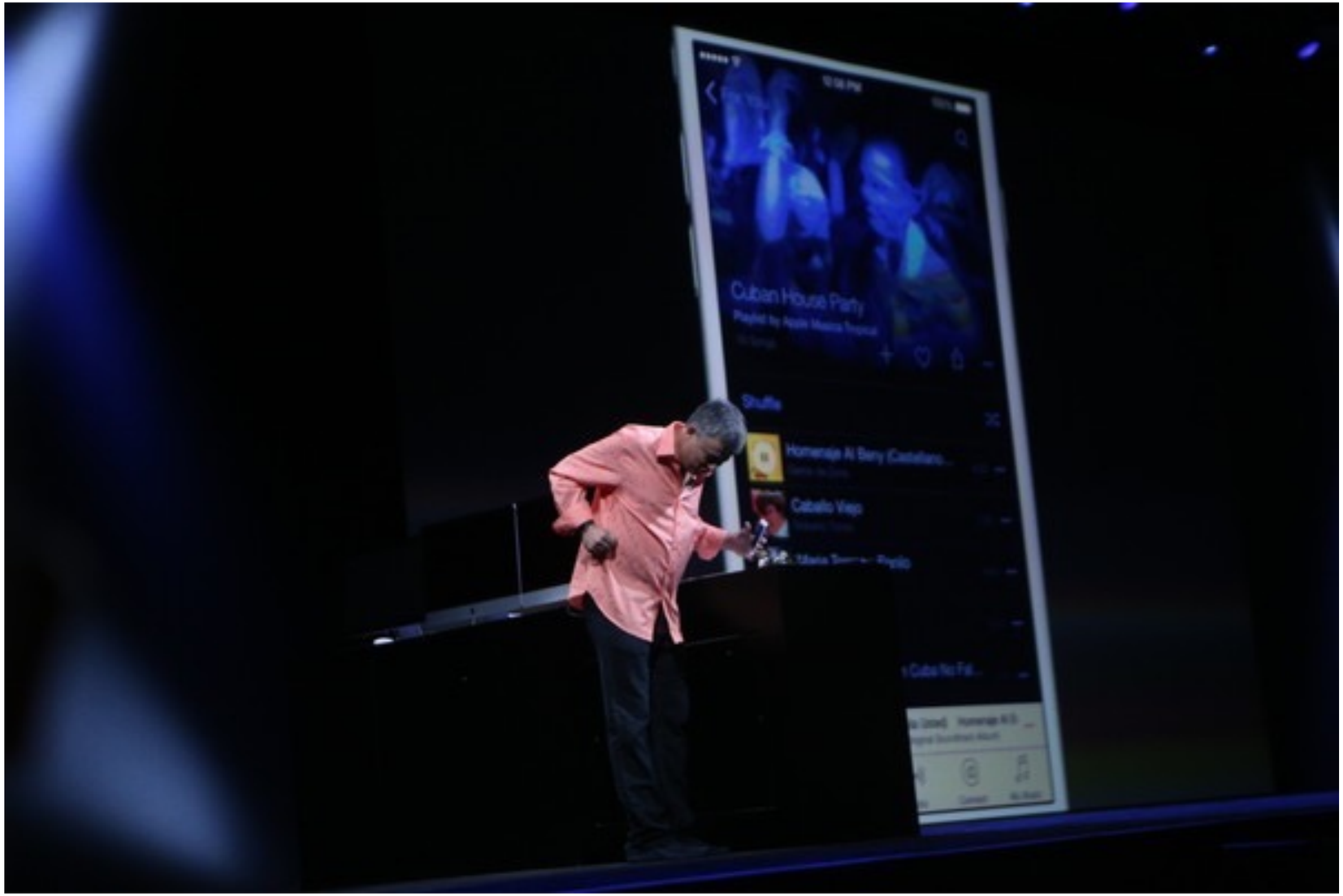
Layout Margins

Layout Margins

- Require iOS 8 or greater
- Adjust view’s padding, without adjusting constraints.
- UIEdgeInset called layoutMargins on UIView

Sacrifice to the Demo Gods

Extra Sacrifice, Just In Case



Margins Demo

Layout Anchors

Old And Busted

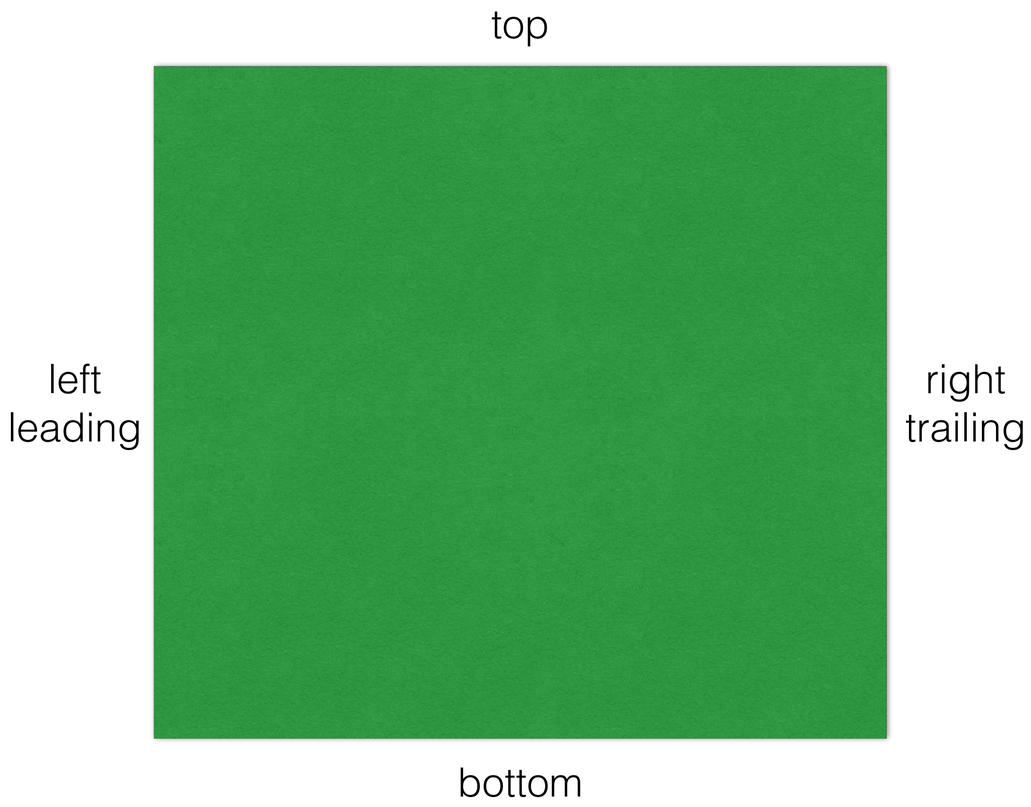
```
let emailLeadingEdgeConstraint = NSLayoutConstraint(item:
emailLabel, attribute: .Leading, relatedBy: .Equal, toItem:
emailField, attribute: .Leading, multiplier: 1.0, constant:
0.0)
view.addConstraint(emailLeadingEdgeConstraint)
```

New Hotness

```
let emailLeadingEdgeConstraint =
emailLabel.leadingAnchor.constraintEqualToAnchor(emailField
.leadingAnchor)
view.addConstraint(emailLeadingEdgeConstraint)
```

Layout Anchors

- topAnchor / bottomAnchor
- leadingAnchor / trailingAnchor
- leftAnchor / rightAnchor
- heightAnchor / widthAnchor



Anchors Demo

One Neat Trick . . .

```
emailLabel.leadingAnchor.constraintEqualToAnchor
(emailField.leadingAnchor).active = true
```

Layout Guides

Layout Guides

- A replacement for spacing UIViews.
- Rectangular
- Needs constraints on all four edges to set sizing
- Simplify complex layout scenarios

Layout Guide Demo

Debugging Auto Layout

Debugging Agenda

- Constraint Identifiers
- _autolayoutTrace
- Restoration Identifiers

To The Demo Room!

Thank You

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