

DANIEL TULL

AUTOSIZING TABLE VIEW CELLS

WHAT?

Automatically calculate the size of cells based on their content and layout constraints

WHY?

Easily support dynamic text

No more truncated str...

Some unknown reason involving size classes, probably involving different sized iPhones or something which everyone seems to be making a big deal about

Use the same code (or just **Interface Builder**) to calculate the size as used for the actual layout

HOW?

```
tableView.estimatedRowHeight = 44.0f
```

```
tableView.rowHeight =  
UITableViewAutomaticDimension
```

AUTO-LAYOUT

Constrains views within a given frame



AUTO-LAYOUT

Constrains views within a given frame



AUTO-SIZING

Expands a frame given a view (and subviews and constraints)



AUTO-SIZING

Expands a frame given a view (and subviews and constraints)



AUTO-SIZING

Expands a frame given a view (and subviews and constraints)



intrinsic content size

AUTO-SIZING

Expands a frame given a view (and subviews and constraints)

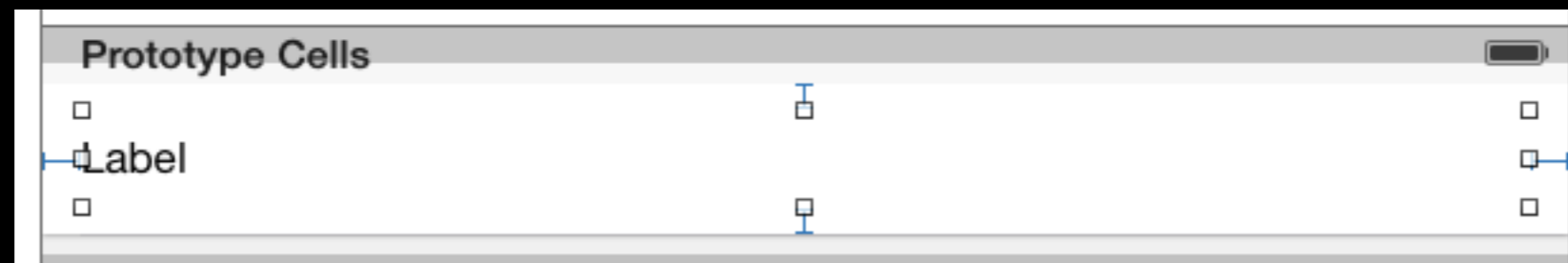


HOW TO SIZE

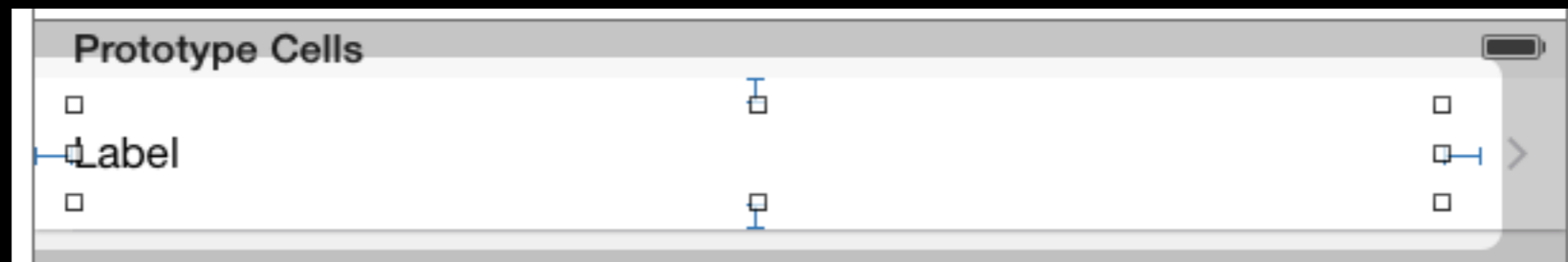
- (**CGSize**) `systemLayoutSizeFittingSize:`
 `withHorizontalFittingPriority:`
 `verticalFittingPriority:`

Can give a “fitting size” of
 (**width=320, height=0**)

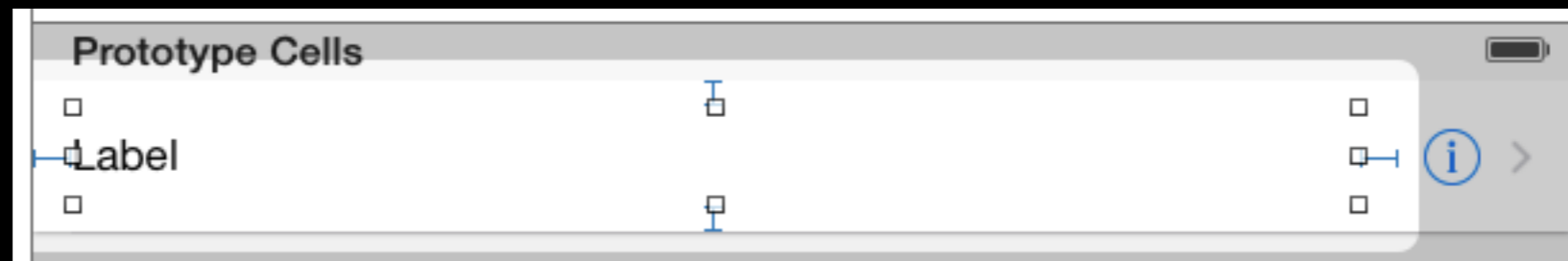
HOW TO SIZE



HOW TO SIZE



HOW TO SIZE



HOW TO SIZE

```
CGFloat cellWidth = CGRectGetWidth(self.bounds);
CGFloat contentWidth = CGRectGetWidth(self.contentView.bounds);
CGFloat difference = cellWidth - contentWidth;

NSArray *margins = self.marginConstraints;
CGFloat margin = [[margins valueForKeyPath:@"@sum.constant"]
floatValue];

CGFloat maxWidth = targetSize.width - difference - margin;

self.label.preferredMaxLayoutWidth = maxWidth;

[self.label invalidateIntrinsicContentSize];

return [super systemLayoutSizeFittingSize:targetSize
        withHorizontalFittingPriority:horizontalPriority
        verticalFittingPriority:verticalPriority];
```

@DANIELCTULL

DANIELTULL.CO.UK

GITHUB.COM/DANIELCTULL-TESTS/
CELLHEIGHTTEST