

# CGRectDivide(everything)

The procedural alternative to Autolayout

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Auto Layout is the de facto standard, so why bother looking for something else?

# AutoLayout: Rant

- Difficult to debug
- Requires me to keep multiple constraints in mind at once
- Too magical to ever get a feeling of tight control over layout
- On a sidenote, Interface Builder burnt me more than once 🐱💧

A solution:  
Procedural layout

# Procedural Layout

- Lay out elements in code, by handcrafting CGRects and contentInsets
- Harness the power of DRY, methods, and constants
- Align vertically first, then horizontally
- Use either your own CGRect gen methods, or `CGRectDivide()`

# Procedural Layout Pros

- Blazingly fast - especially needed in UITableViewCells
- Puts less strain on your short term memory
- Easy to debug

# Procedural Layout Cons

- Hard to parse visually if not properly documented
- Often more code than AL
- No WYSIWYG

Ok, so what does  
`CGRectDivide()` do?



```
void CGRectDivide (  
    CGRect rect,  
    CGRect *slice,  
    CGRect *remainder,  
    CGFloat amount,  
    CGRectEdge edge  
);
```

Cuts **rect** into two parts: **slice** and **remainder**.  
The cut follows the axis of **edge** (left/right/top/  
bottom edge). The distance of the cut to **edge**  
is defined by **amount**.

TL;DR

`CGRectDivide()` cuts  
available space to  
pieces like scissors.

# Obj-C Demo

Repo at <http://tiny.cc/cgrectdivide>

# Swift

```
func rectsByDividing(  
    atDistance: CGFloat,  
    fromEdge: CGRectEdge  
) -> (  
    slice: CGRect,  
    remainder: CGRect  
)
```

Tuple goodness 😊

Thanks for your patience!

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