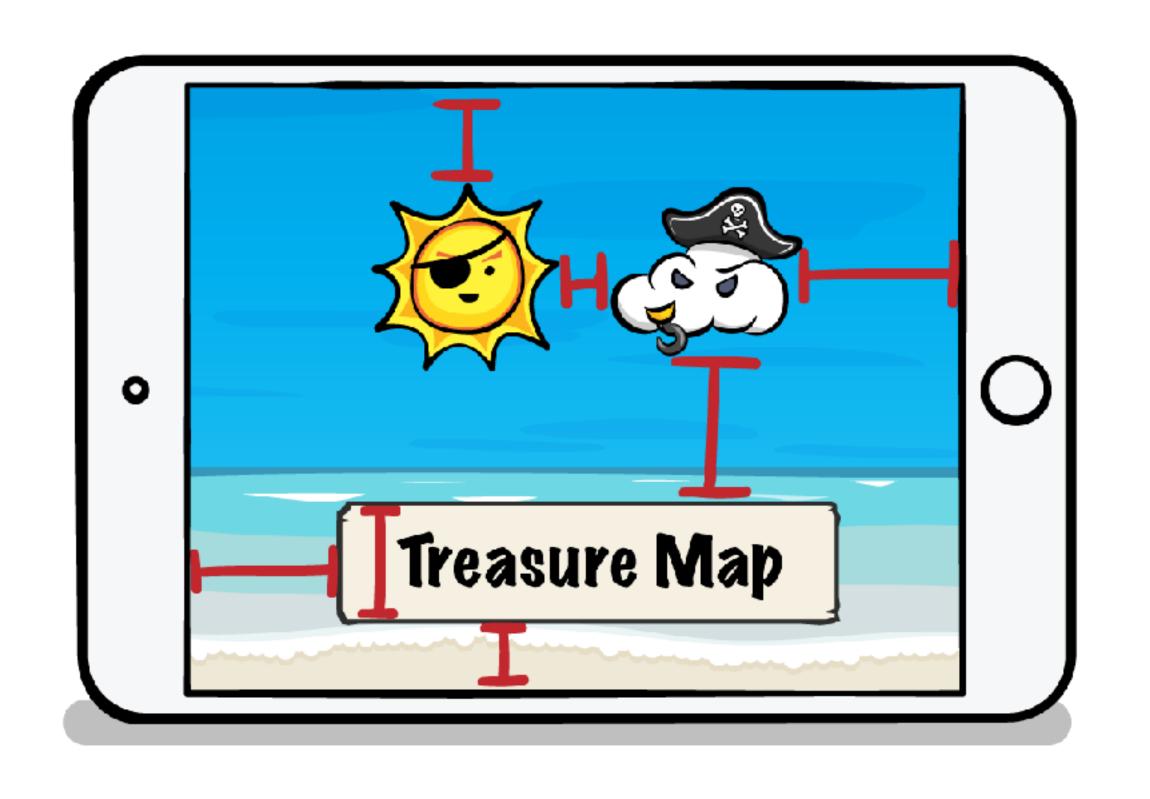


AUTOLAYOUT



PART 5: VISUAL FORMAT LANGUAGE

WHY?

```
leftButton leadingAnchor constraint(equalTor margins leadingAnchor) active = true
let views = ["leftButton": leftButton, "rightButton": rightButton]
let metrics = ["edgeGap": 20]
NSLayoutConstraint.activate(NSLayoutConstraint.constraints(withVisualFormat:
    "H:|-[leftButton]-[rightButton(==leftButton)]-|",
        options: .alignAllBottom, metrics: nil, views: views))
NSLayoutConstraint.activate(NSLayoutConstraint.constraints(withVisualFormat:
    "V:[rightButton]-(edgeGap)-|", options: [], metrics: metrics, views: views))
```



VISUAL FORMAT LANGUAGE

H: |-[find]-[findNext(100@500)]-[findField(>=20)]-|

H:,V: - horizontal, vertical <=,>= - less than, greater than

- superview @ - priority

- - standard space == - equal width

? - Not Required

* - May appear 0 or more times



OTHER PARAMETERS

```
NSLayoutConstraint.constraints(withVisualFormat: "V:|-20-[label]-
[textField]", options: [], metrics: metrics, views: views)
```

- alignAllLeft
- alignAllRight
- alignAllTop
- alignAllBottom
- alignAllLeading

- alignAllTrailing
- alignAllCenterX
- alignAllCenterY
- alignAllLastBaseline
- alignAllFirstBaseline

- directionLeadingToTrailing
- directionLeftToRight
- directionRightToLeft



METRICS AND VIEWS

```
let metrics = ["topGap": 20, "edgeGap": 10]
let views = ["leftButton": leftButton, "rightButton": rightButton]

NSLayoutConstraint.constraints(withVisualFormat: "V:|-topGap-[rightButton]",
options: [], metrics: metrics, views: views)

NSLayoutConstraint.constraints(withVisualFormat: "H:|-edgeGap-[leftButton]",
options: [], metrics: metrics, views: views)
```

CHALLENGE TIME!

