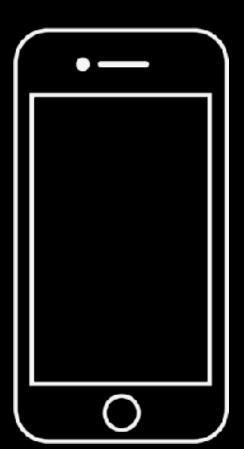
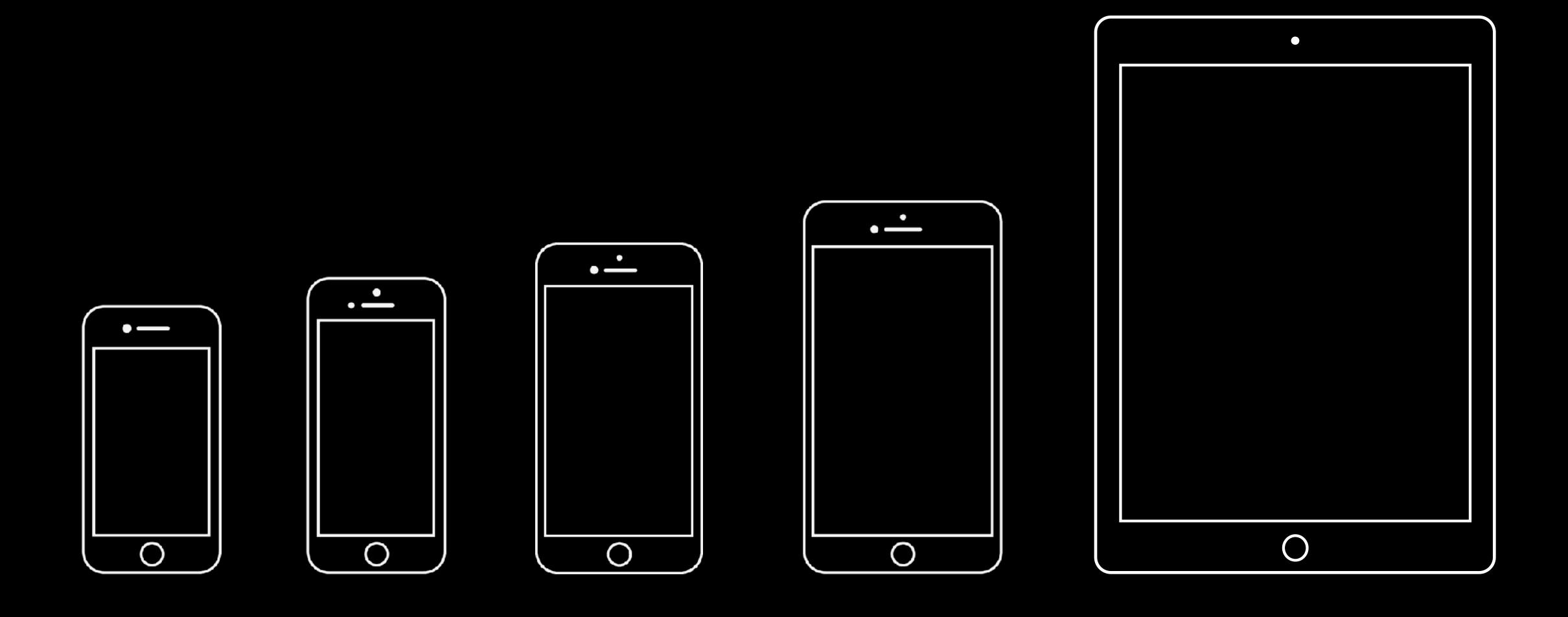
# Lesson 2—10: Auto Layout and Stack Views

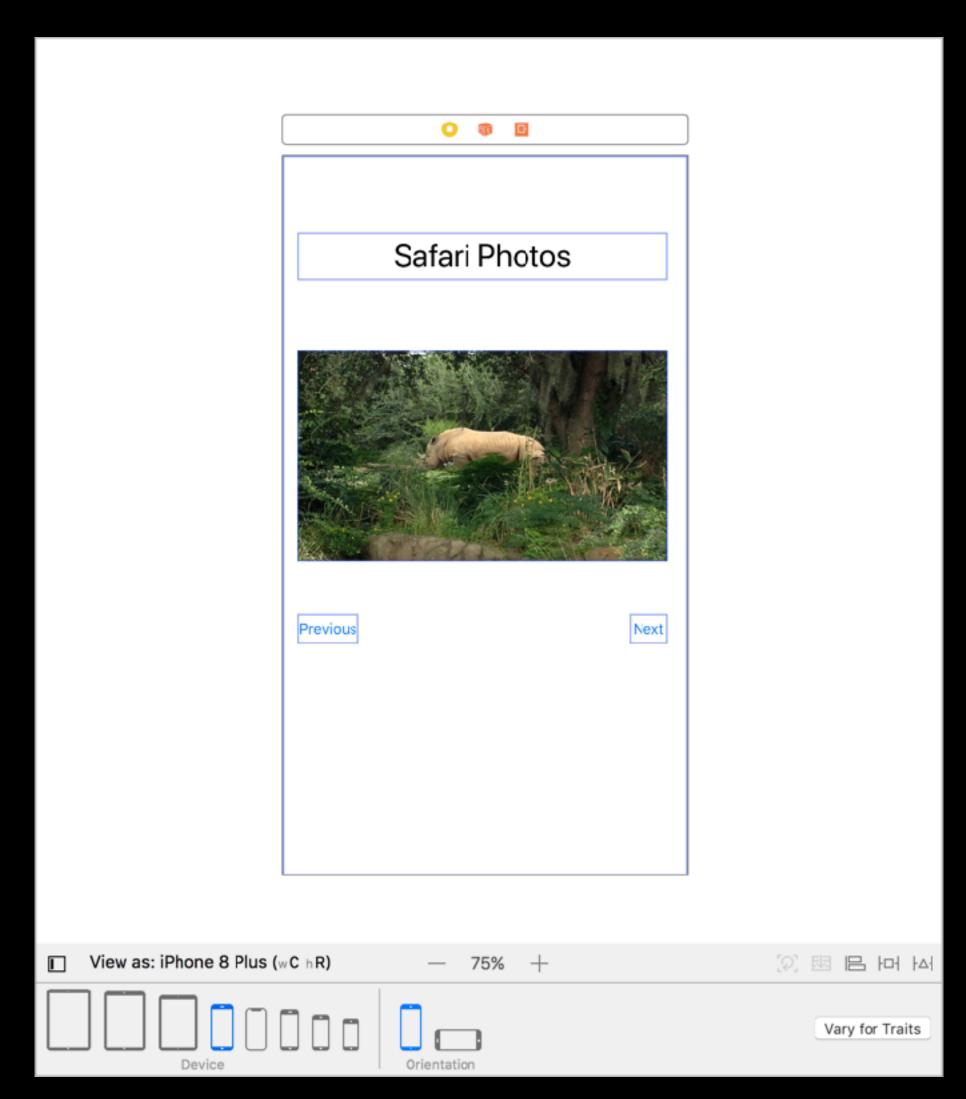
### Layout for multiple sizes



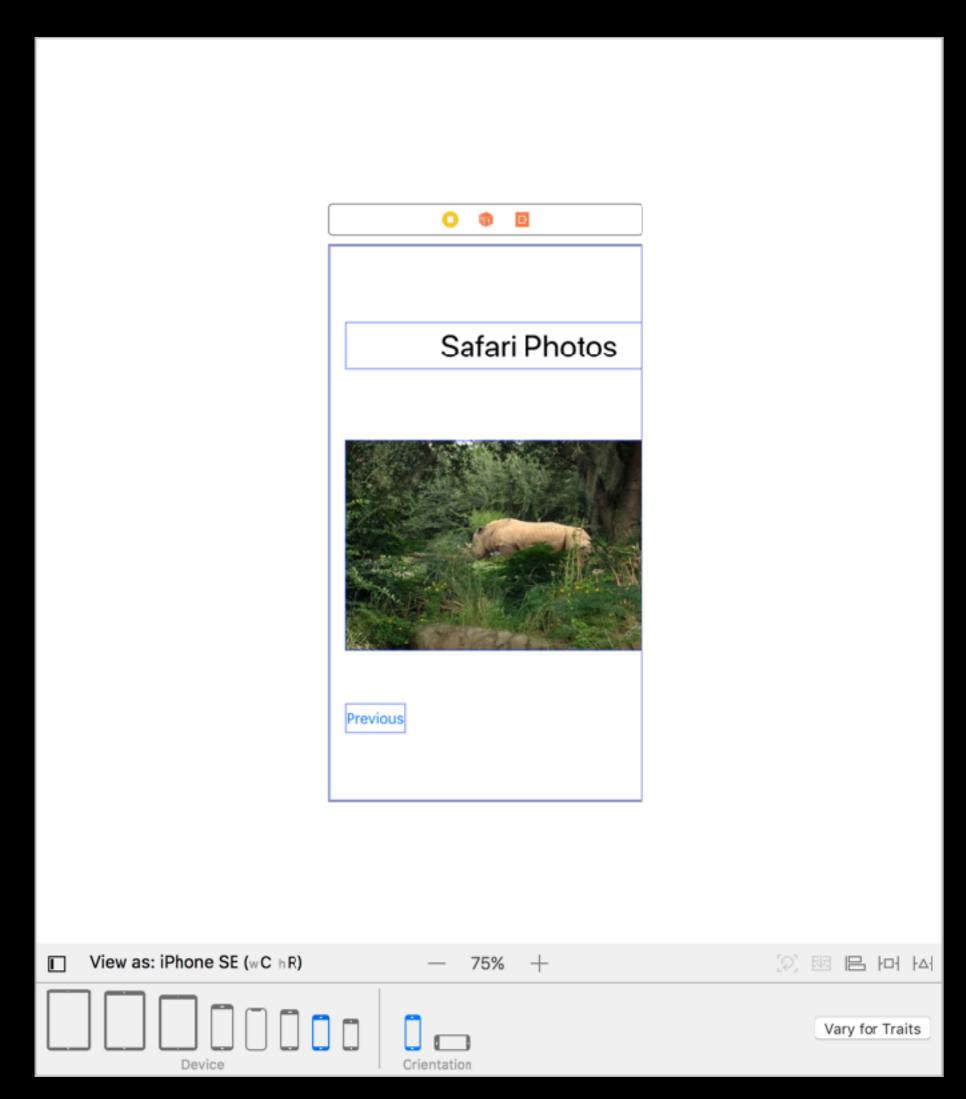
#### Layout for multiple sizes



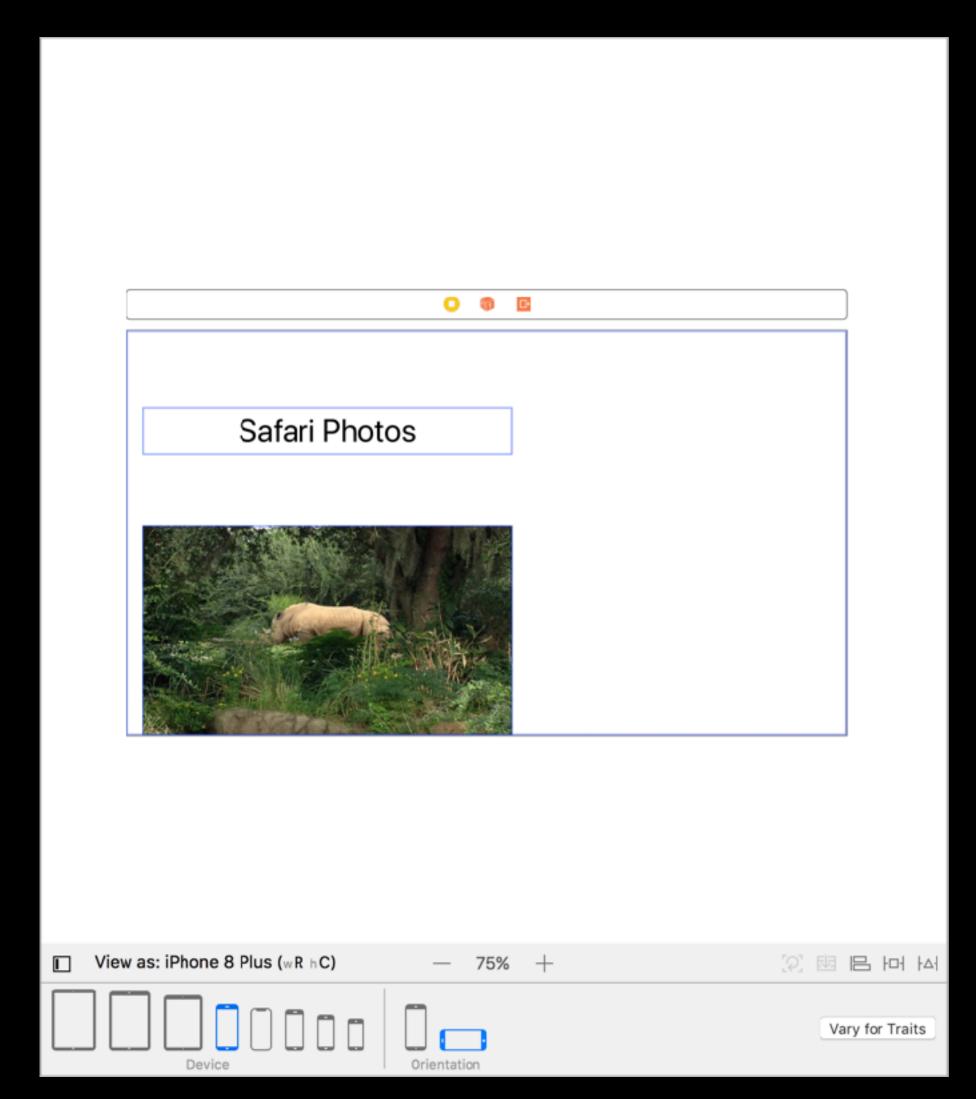
# Interface Builder View as:



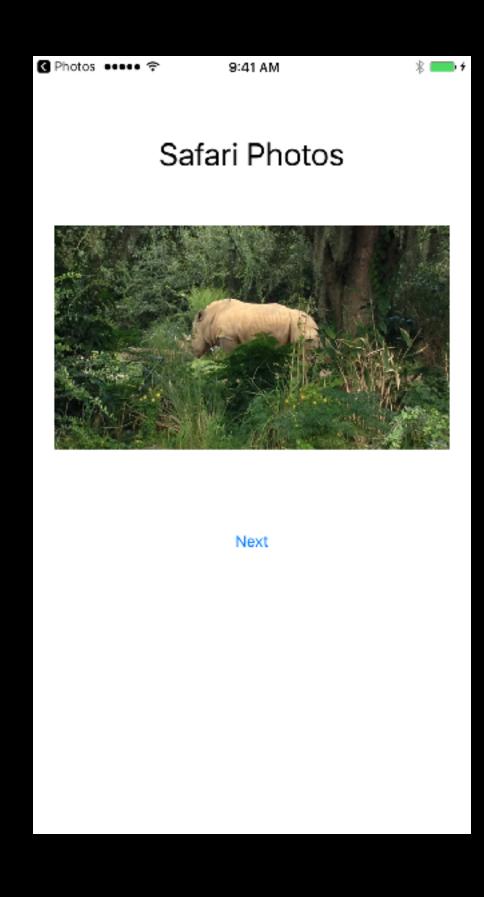
# Interface Builder View as:



# Interface Builder View as:



### Why Auto Layout?



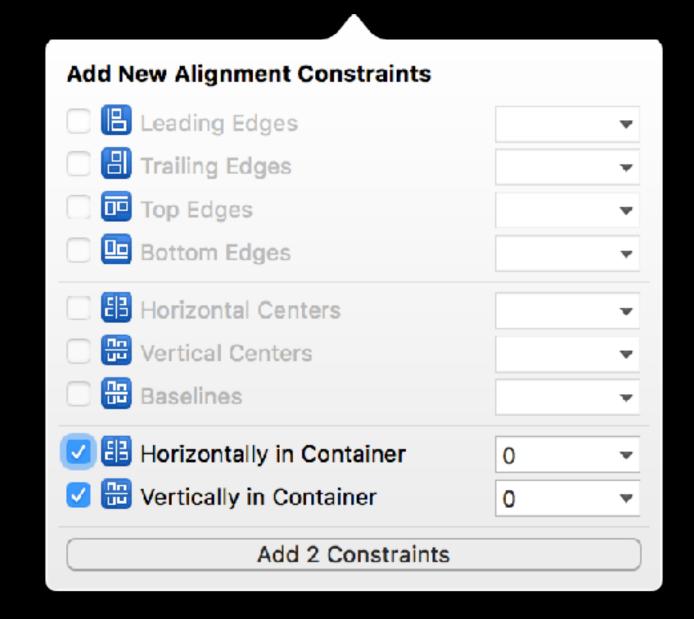
### Why Auto Layout?

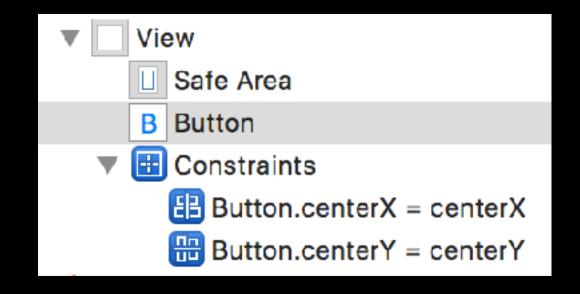


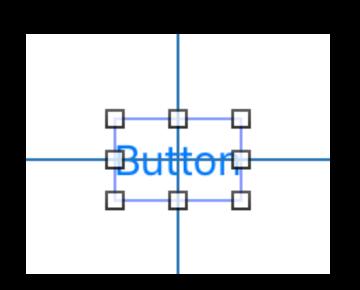


### Create alignment constraints Text

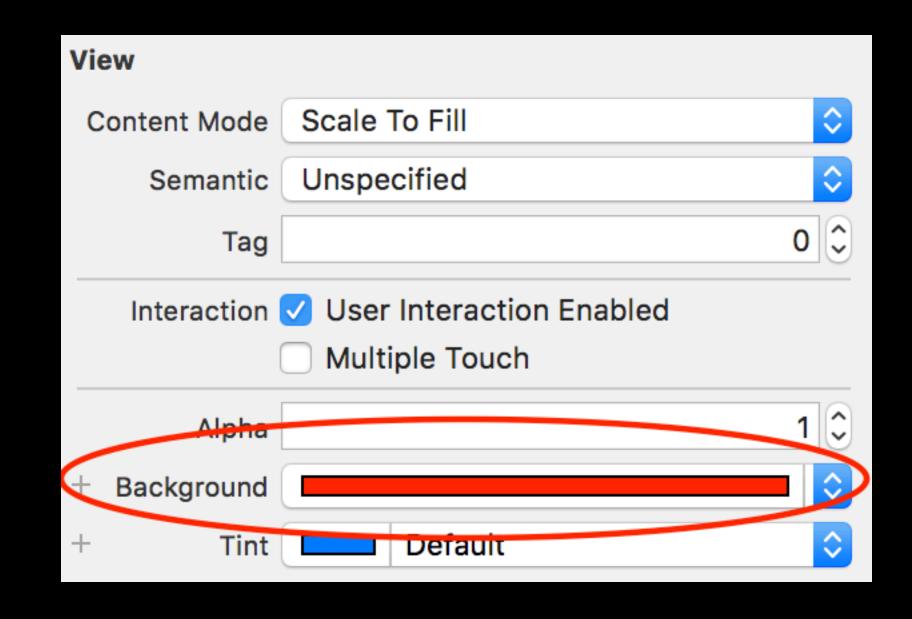


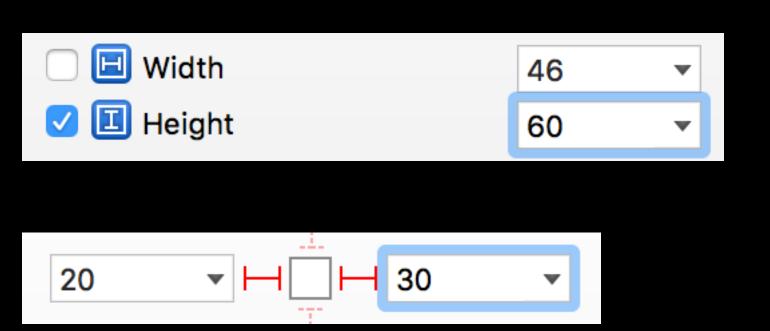




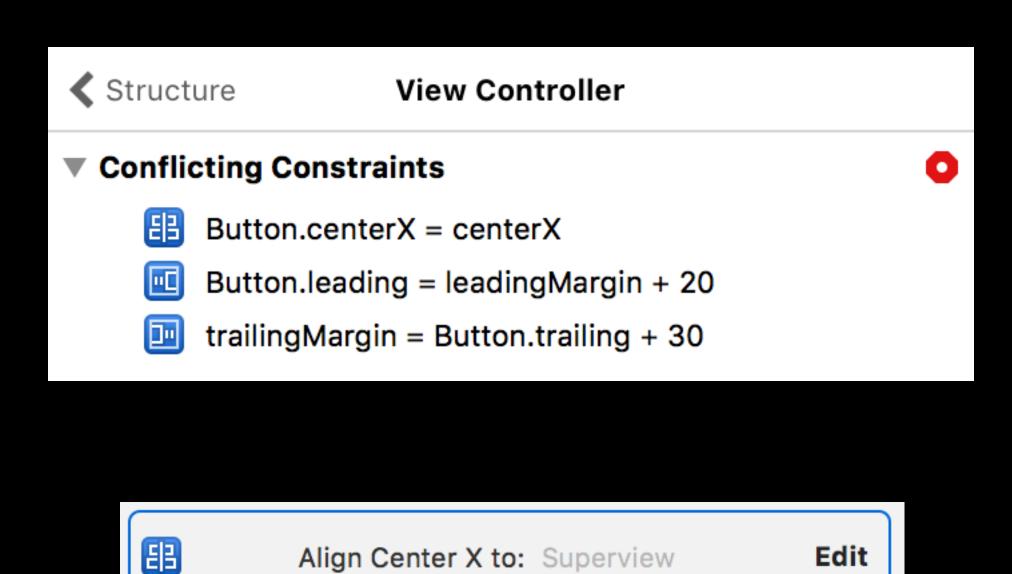


### Create size constraints Text

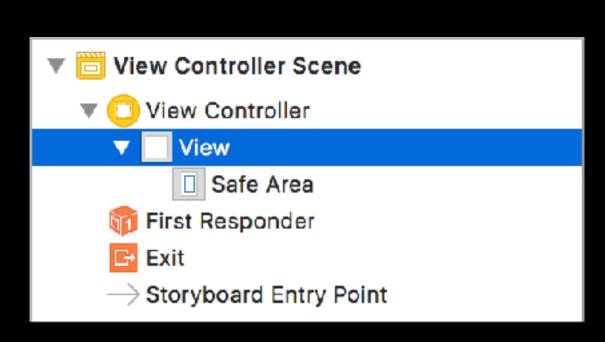


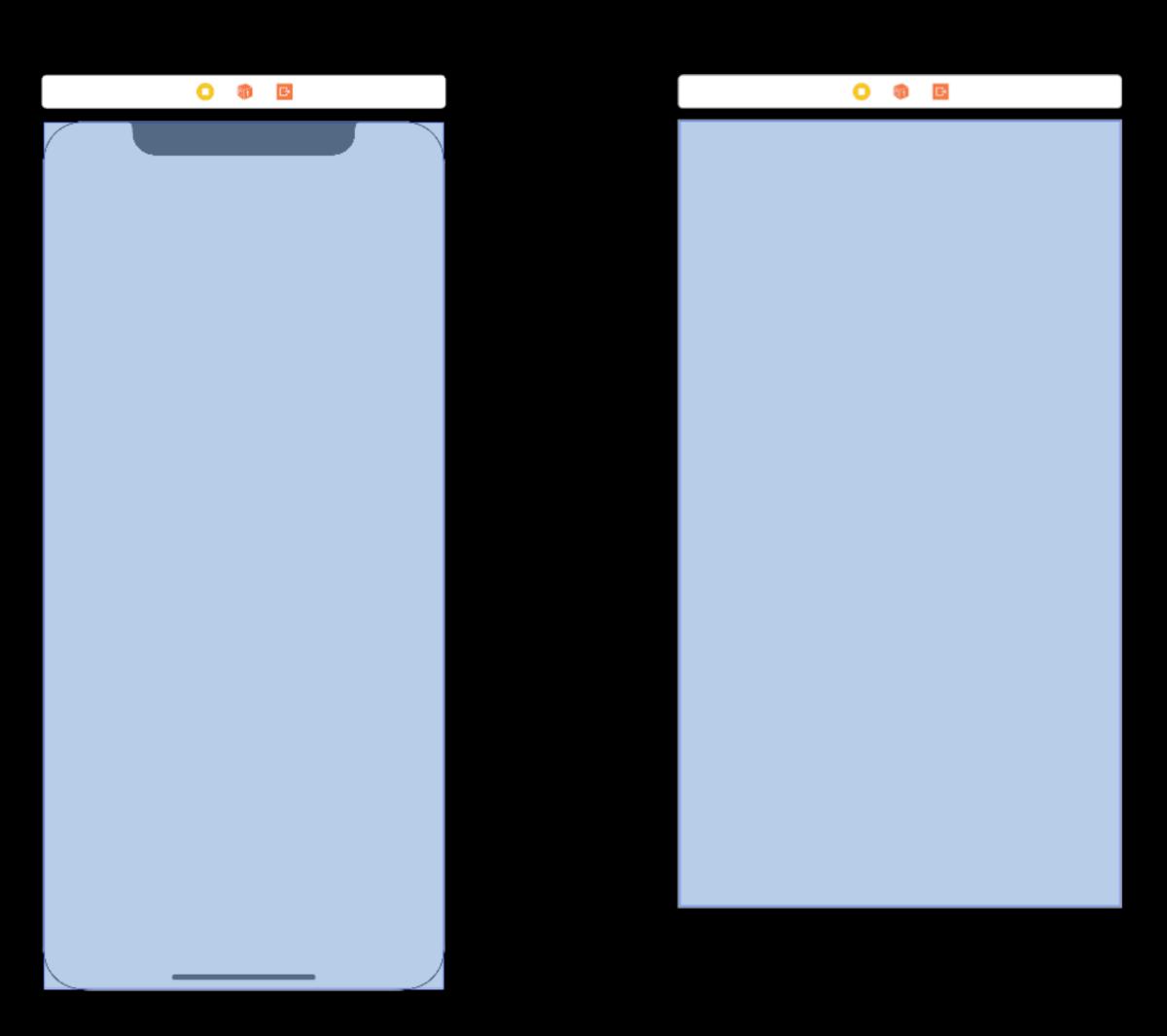


### Resolve constraint issues Text

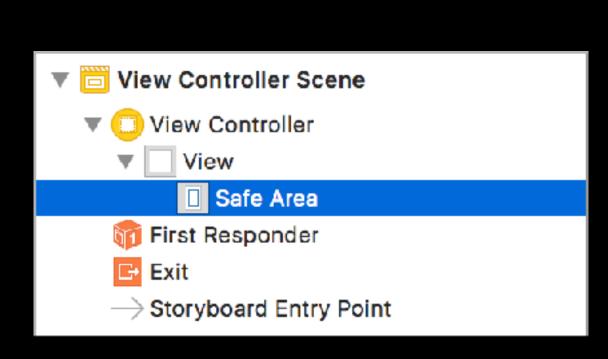


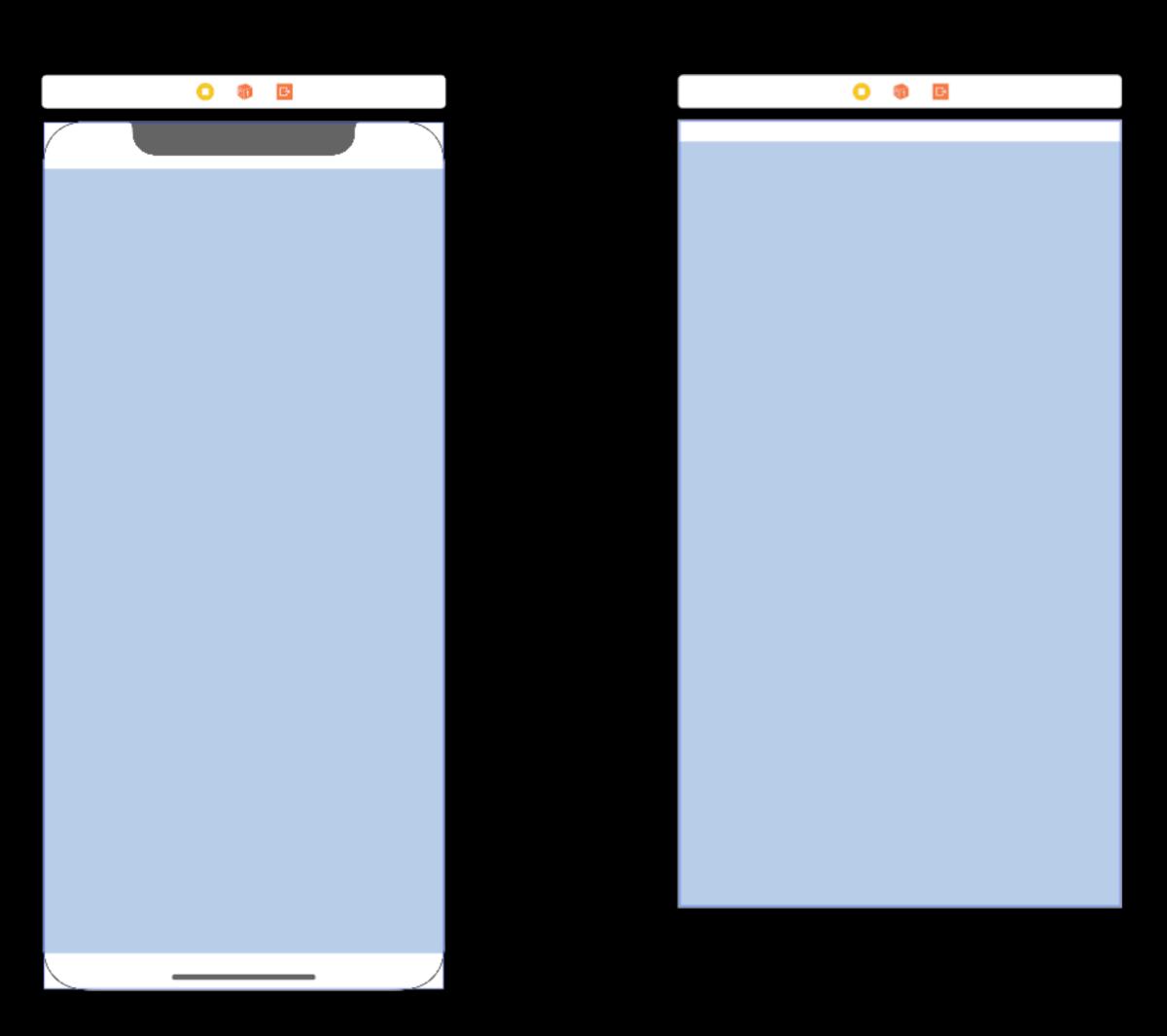
#### Safe area layout guide





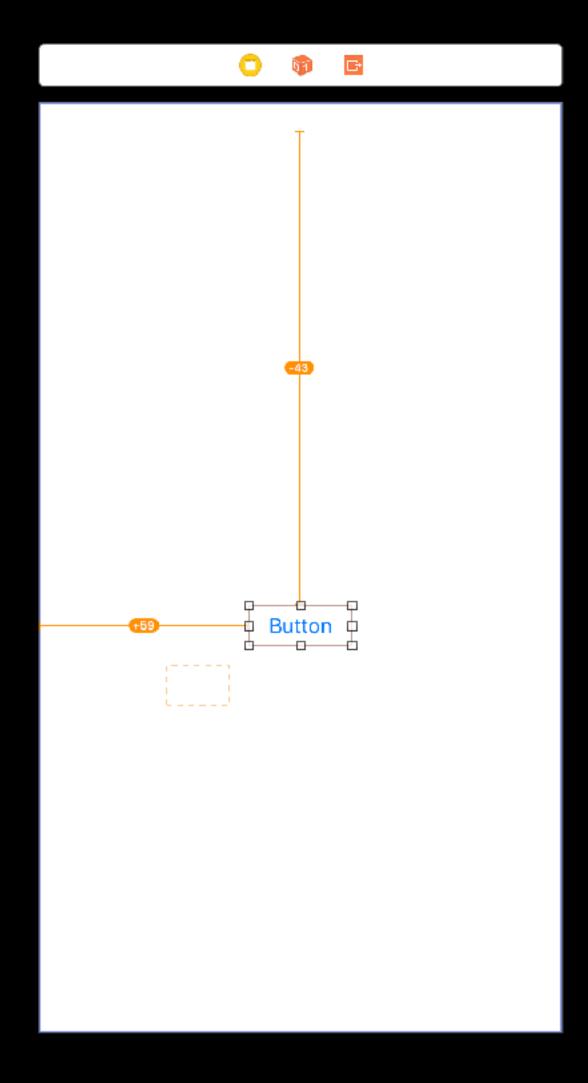
#### Safe area layout guide





#### Resolve constraint warnings Text





#### **Misplaced Views**

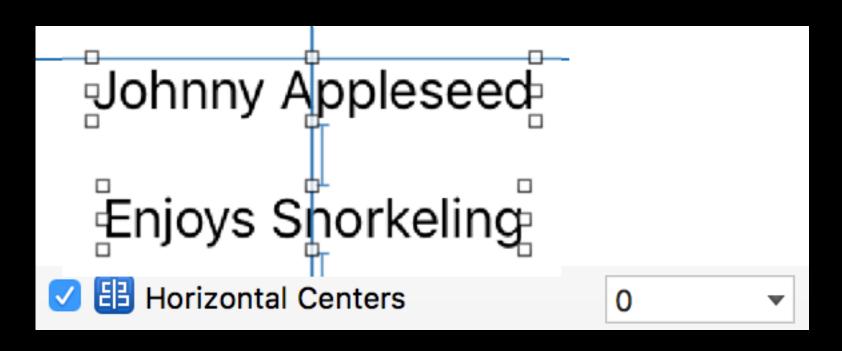
#### Button

Expected: x=91, y=403, width=46

Actual: x=150, y=360, width=75



#### Constraints between siblings

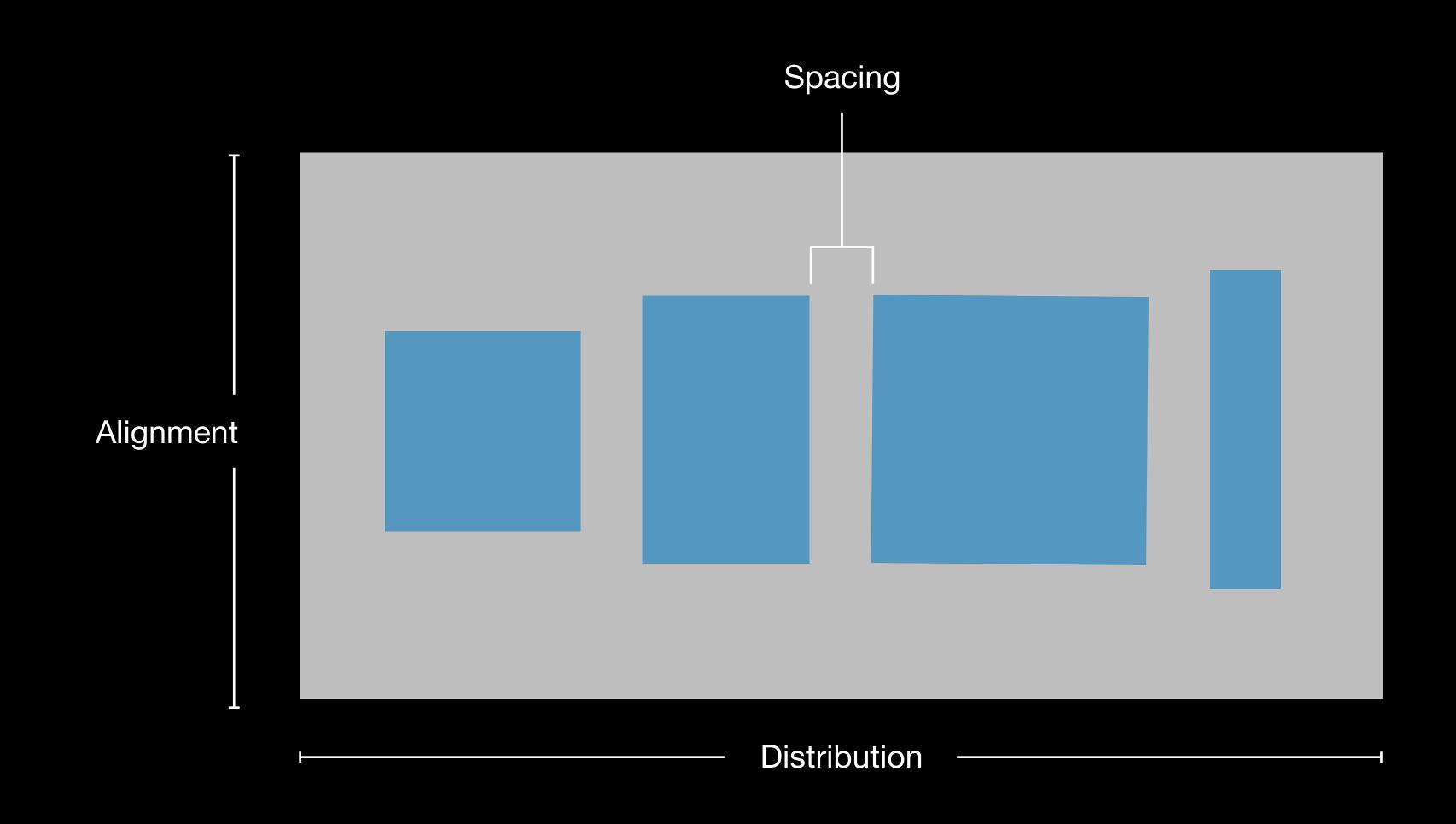


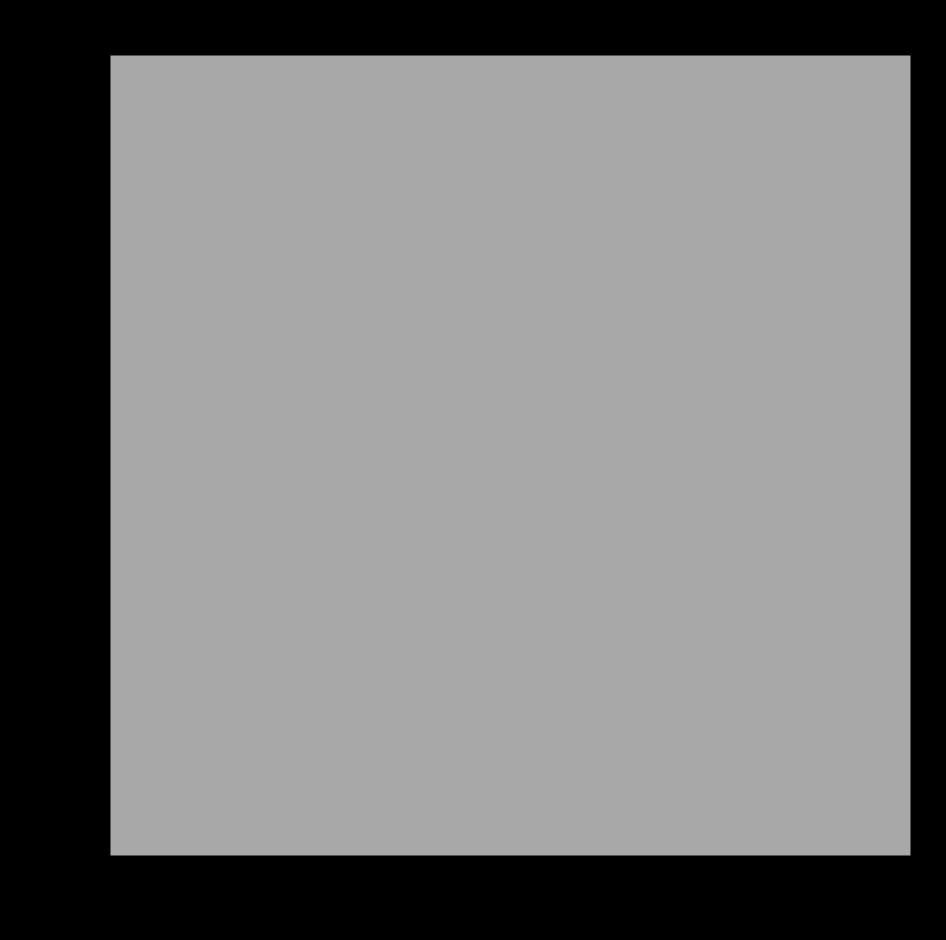
# Stack views Text

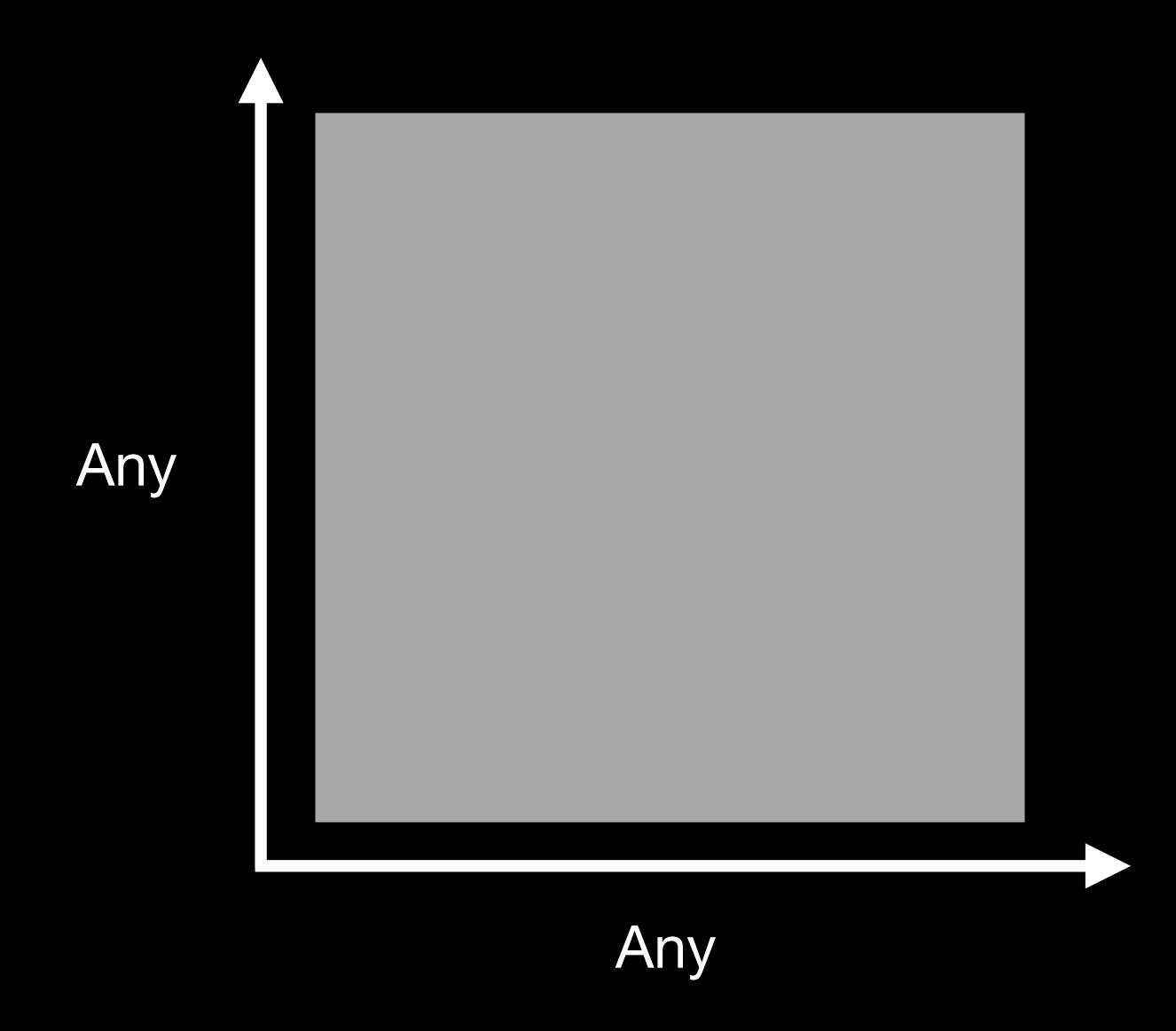


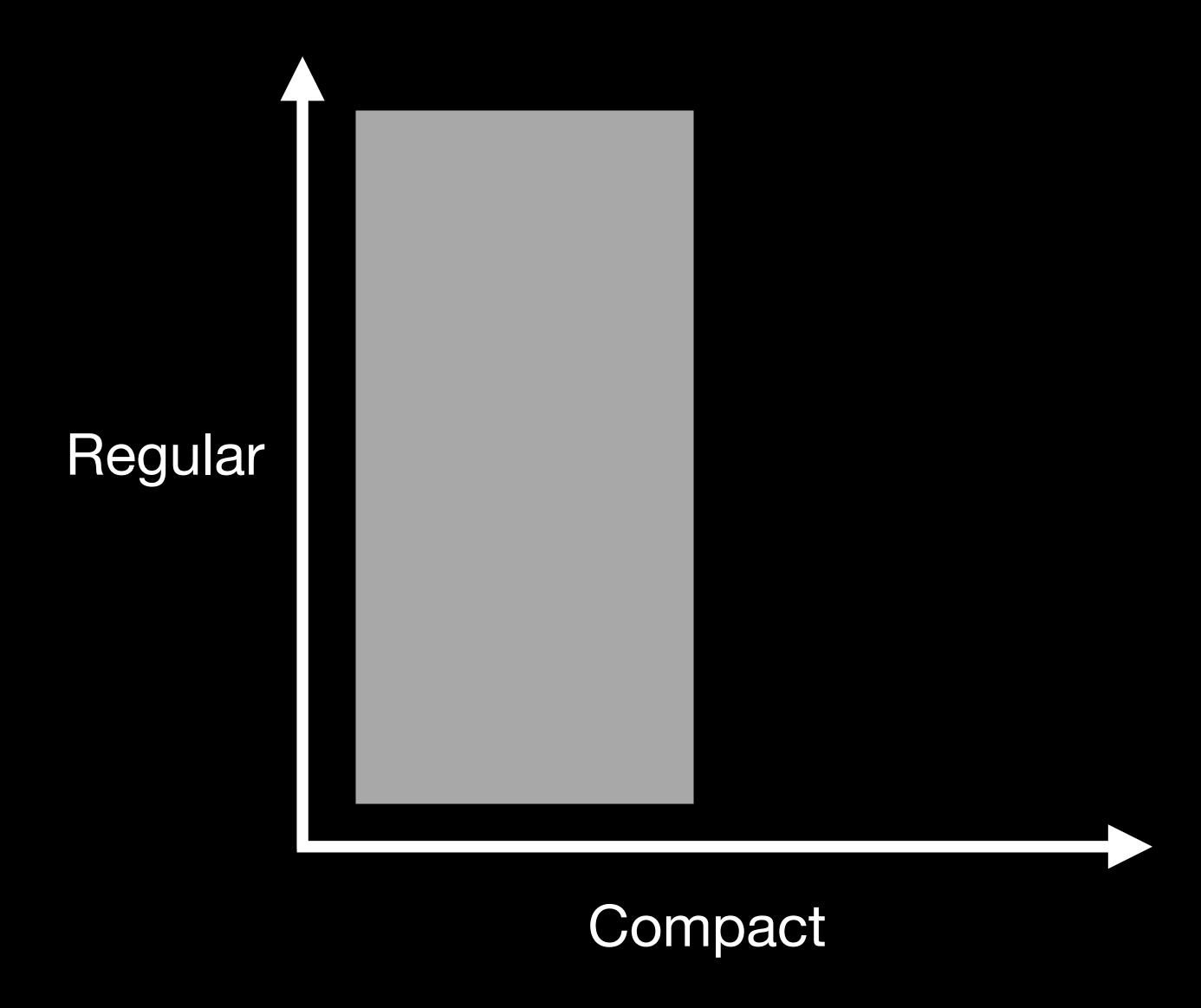


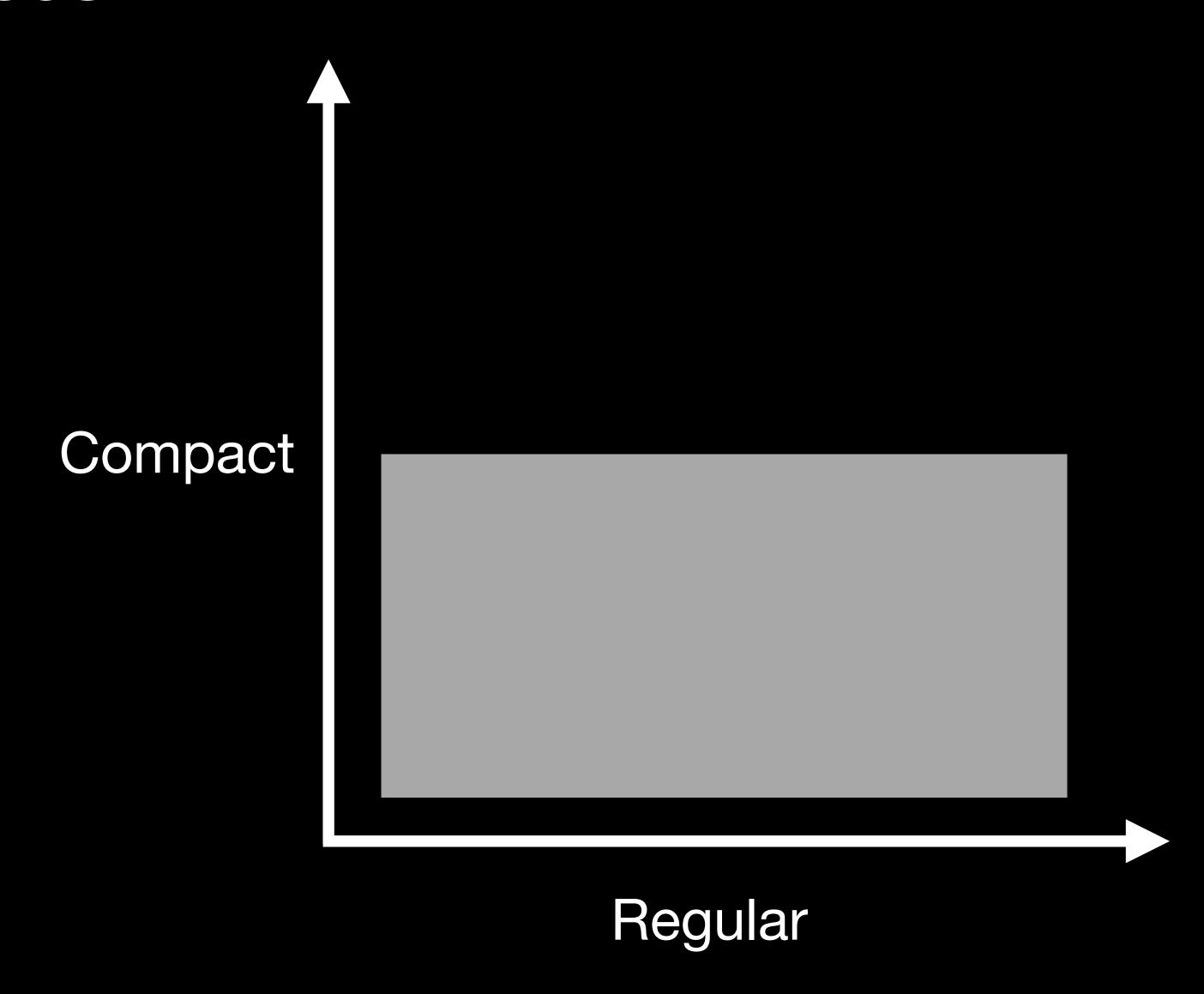
### Stack views Stack view attributes

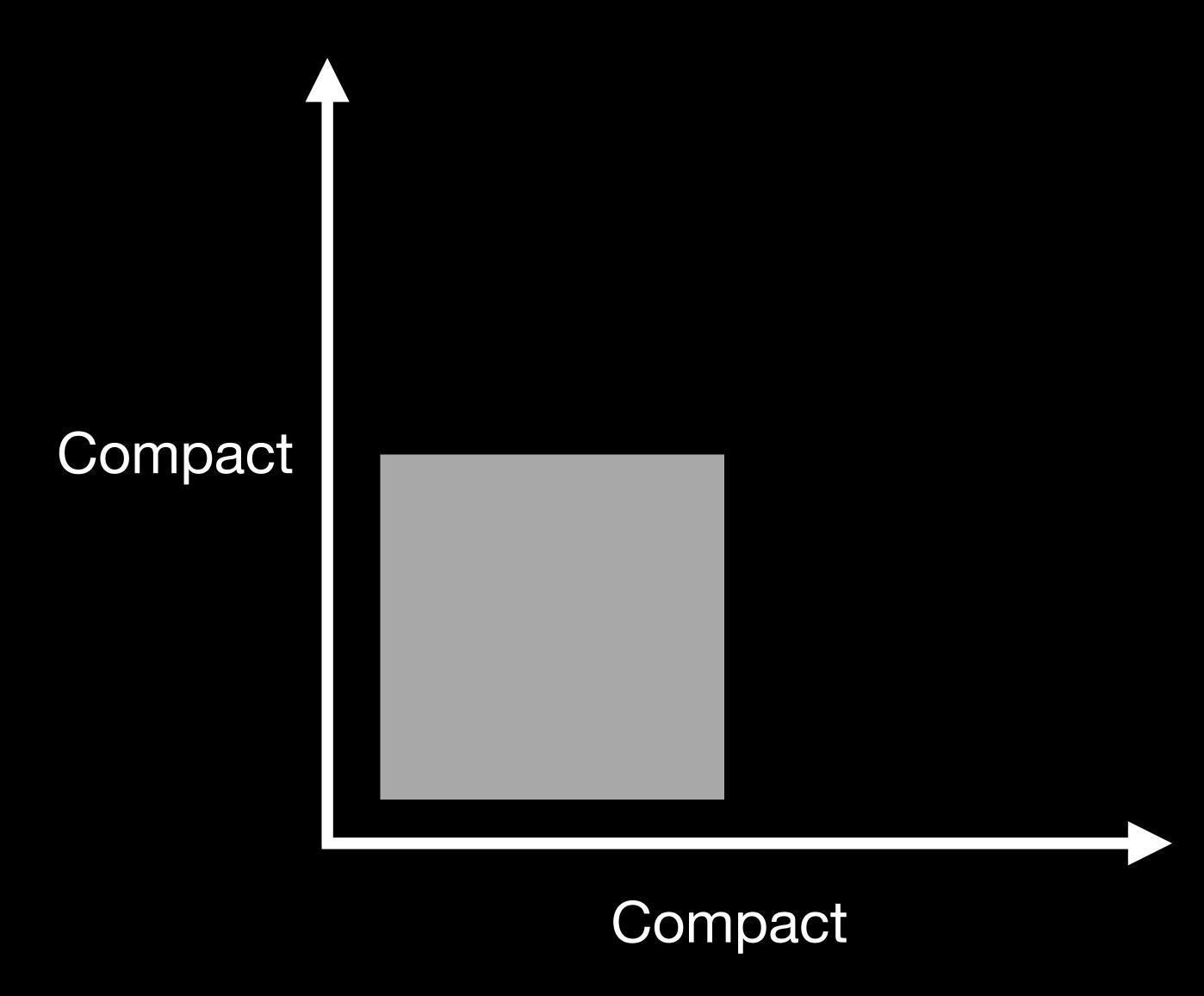




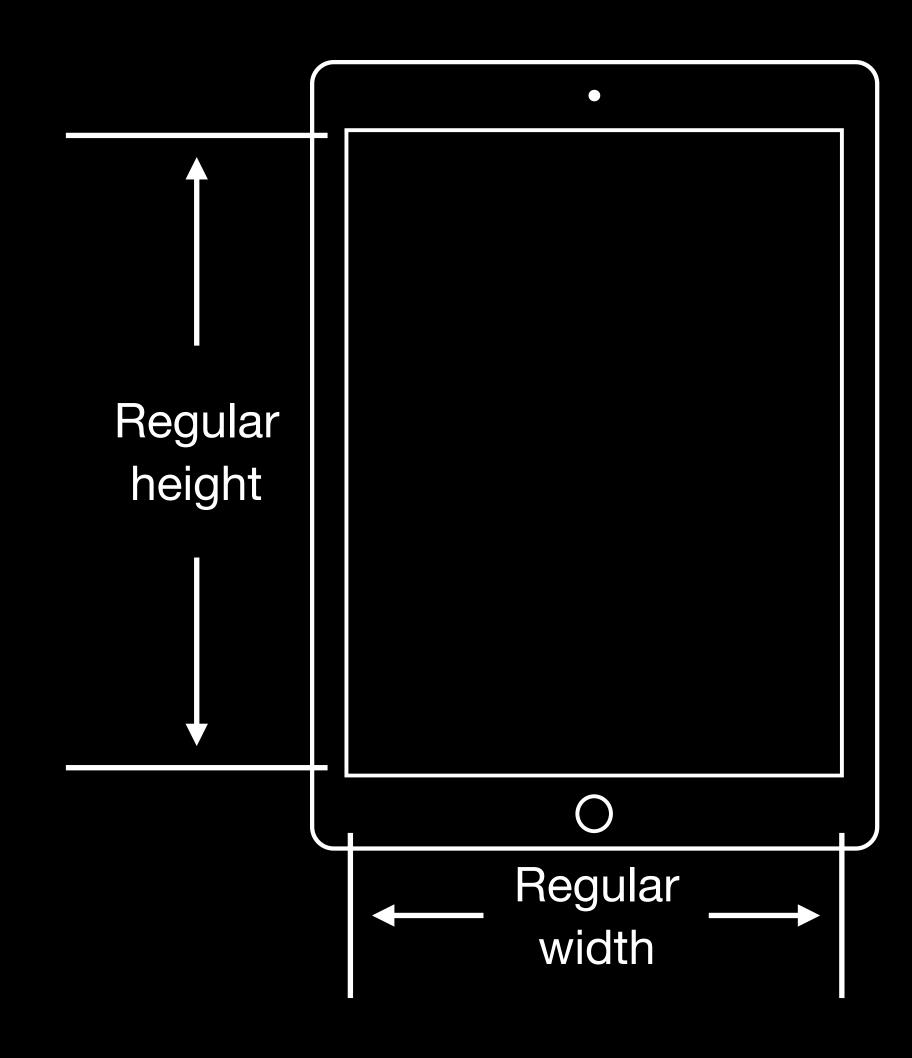


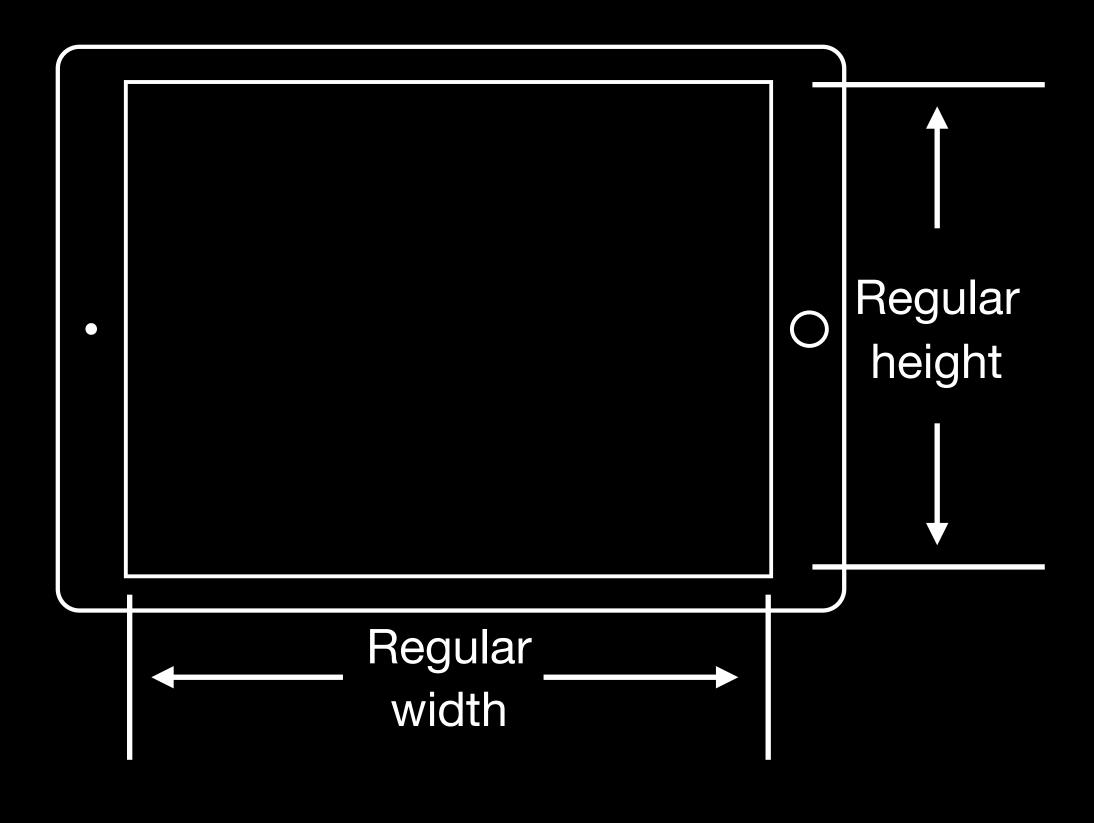




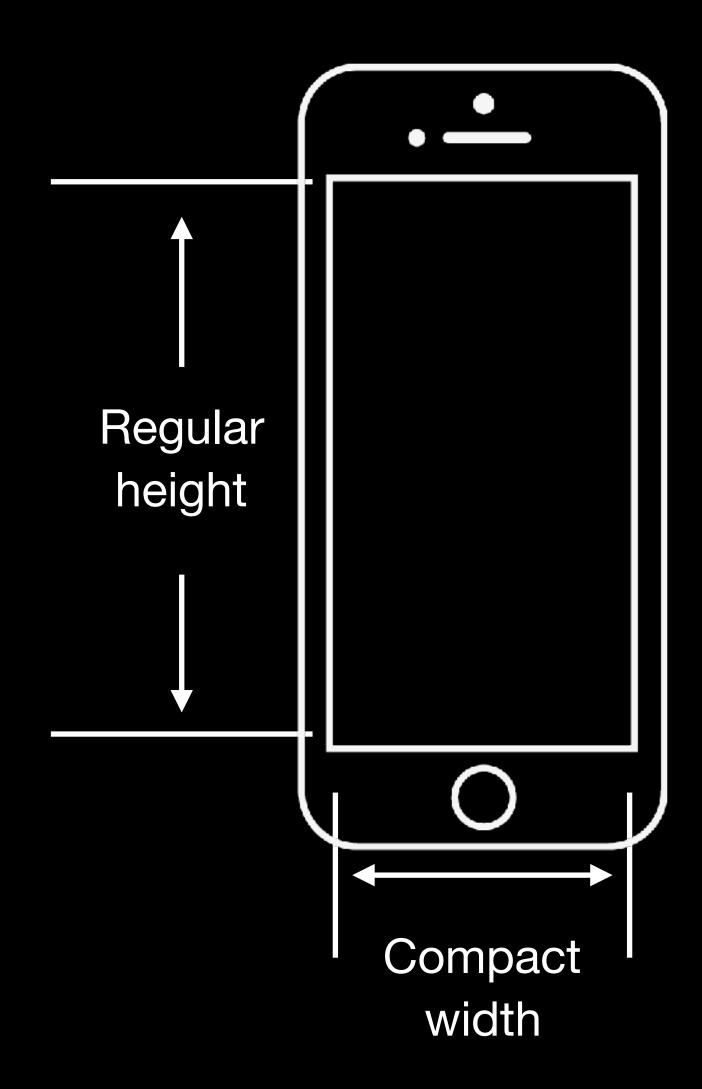


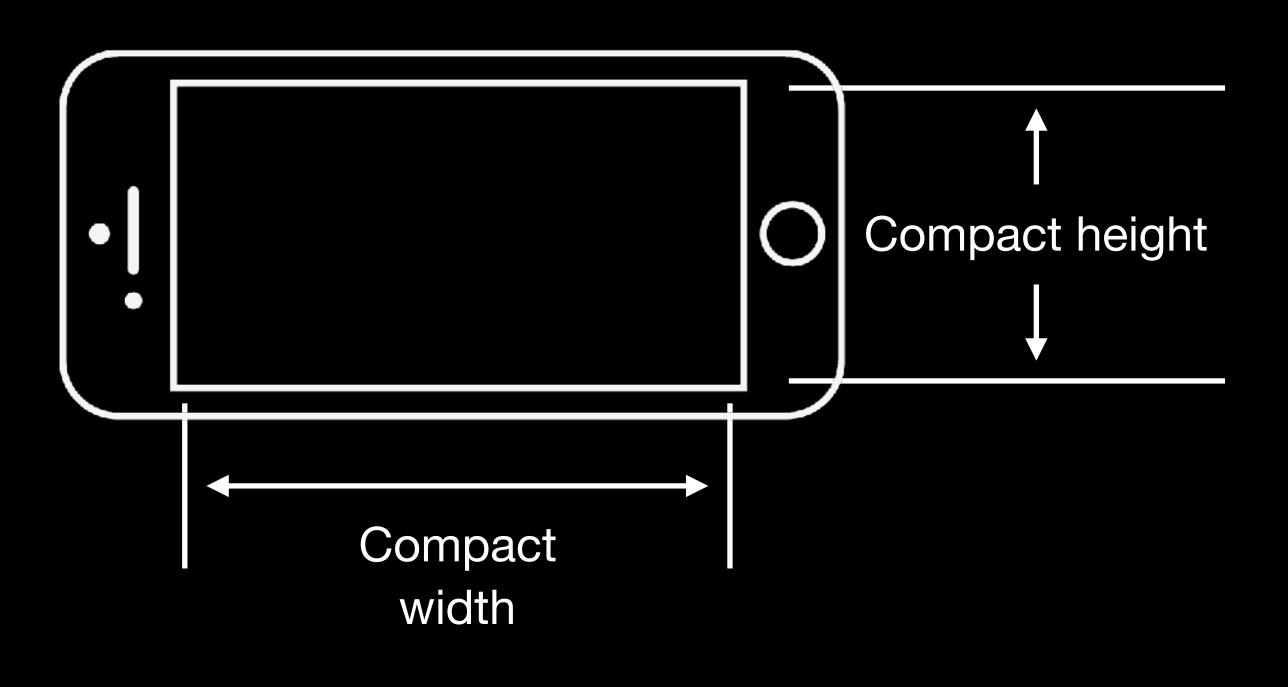
### Size classes iPad



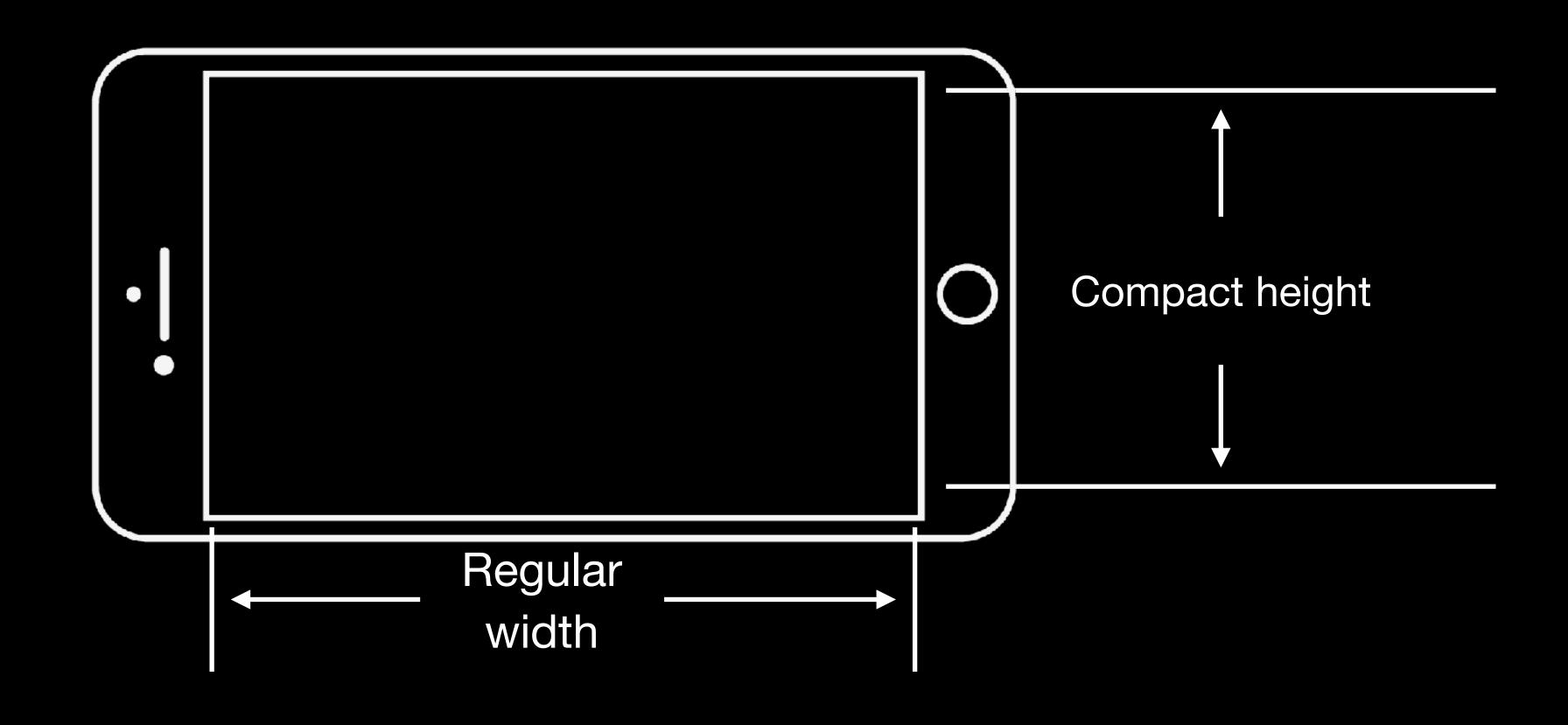


### Size classes iPhone





### Size classes iPhone 6 Plus, iPhone 7 Plus, and iPhone 8 Plus



### Unit 2—Lesson 10 Auto Layout and Stack Views



Learn the fundamentals of Auto Layout for building precisely designed user interfaces.

#### Unit 2—Lesson 10

#### Lab: Calculator



Use view objects, constraints, and stack views to create a simple calculator that maintains its layout on all device sizes.

