

# CESAR Summer School - iOS

## Auto Layout



# Auto Layout





2007

2008

2009

2010

2011

2012

2013

2014



2015

2016

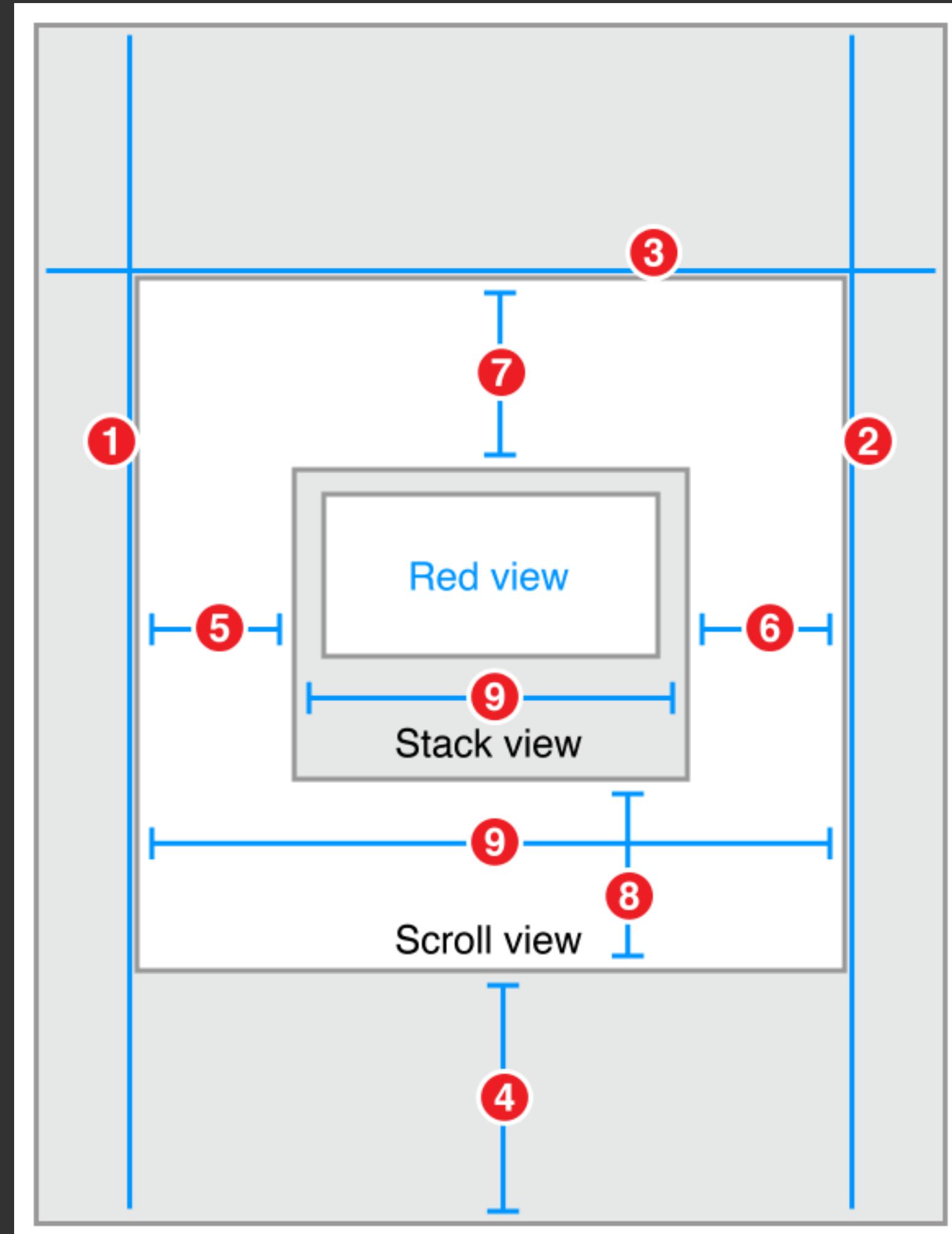
2017



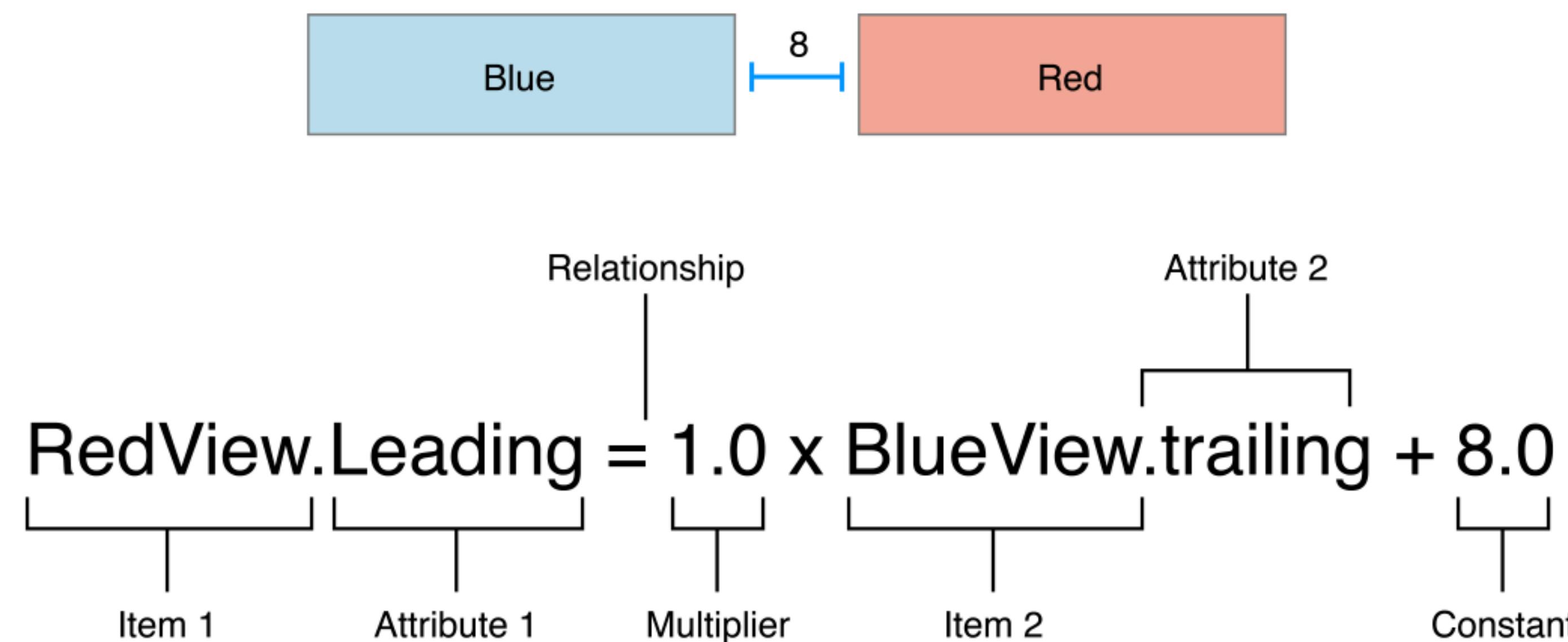
# Constraint



Determina a regra da relação entre as views e determina a posição e tamanho de cada view



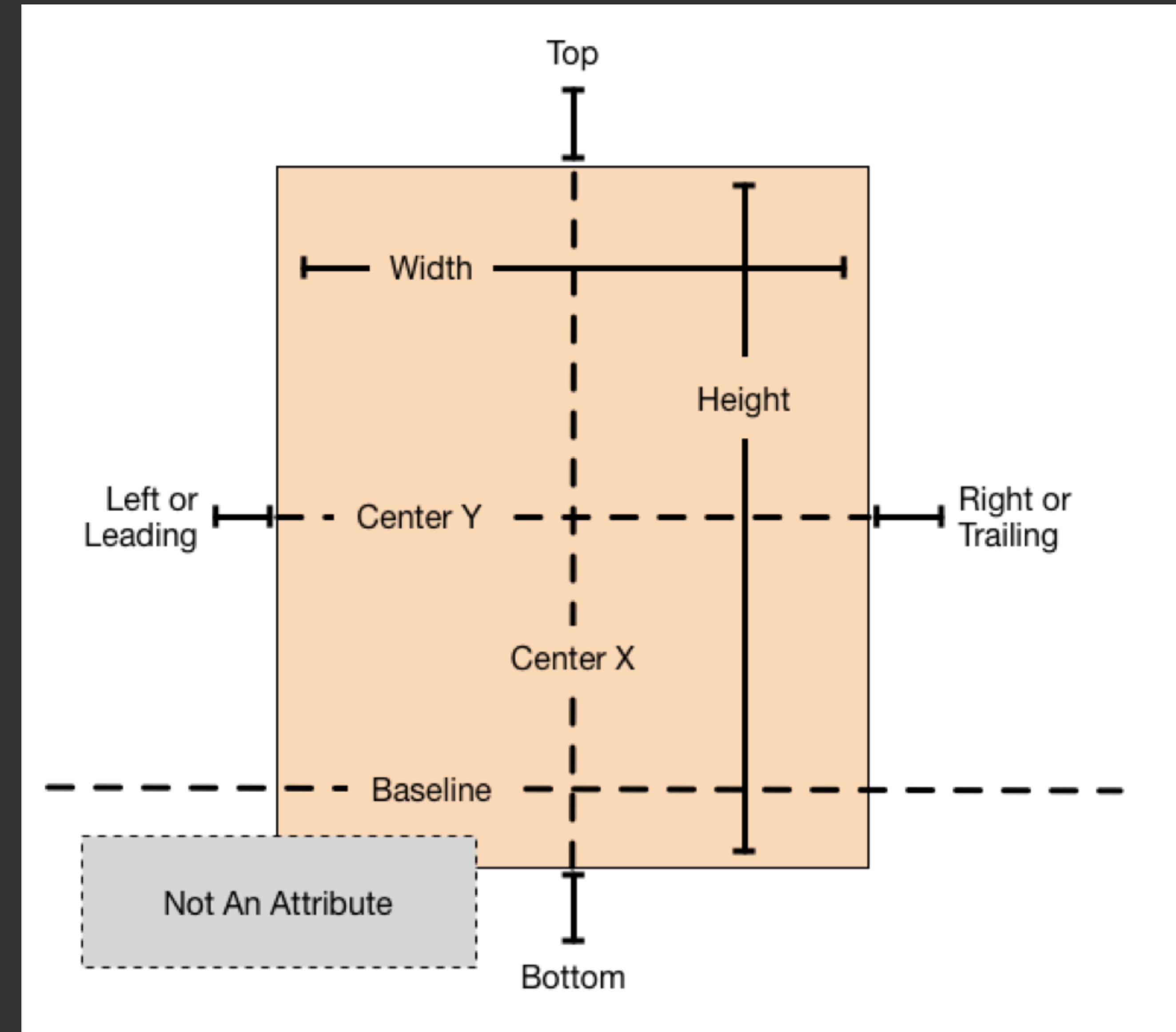
# Anatomia



# Anatomia

```
// Setting a fixed distance between two buttons  
Button_1.trailing = 1.0 * Button_2.leading - 8.0  
  
// Aligning the leading edge of two buttons  
Button_2.leading = 1.0 * Button_1.leading + 0.0  
  
// Give two buttons the same width  
Button_2.width = 1.0 * Button.width + 0.0  
  
// Center a view in its superview  
Superview.centerX = 1.0 * View.centerX + 0.0  
Superview.centerY = 1.0 * View.centerY + 0.0  
  
// Give a view a constant aspect ratio  
View.width = 0.5 * View.height + 0.0
```

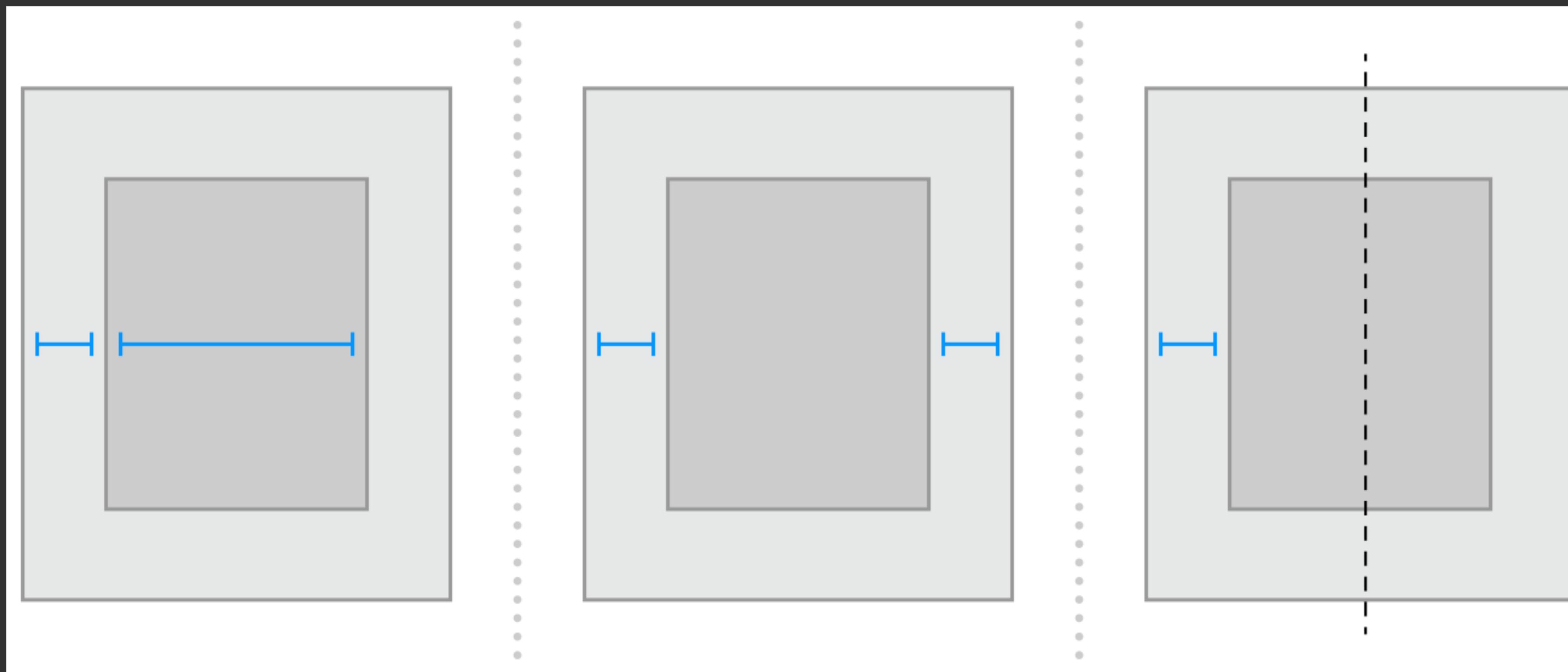
# Atributos

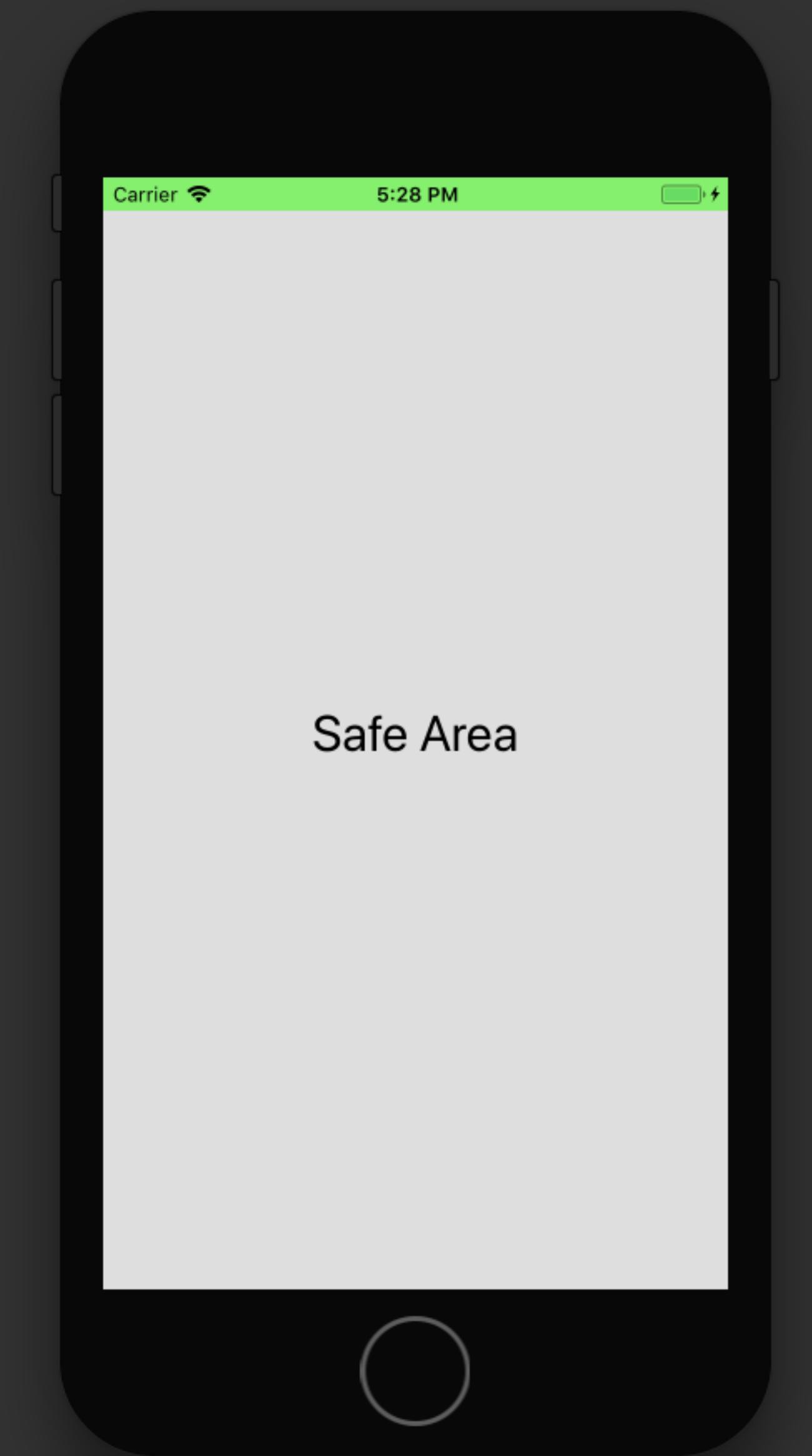


# Hierarquia

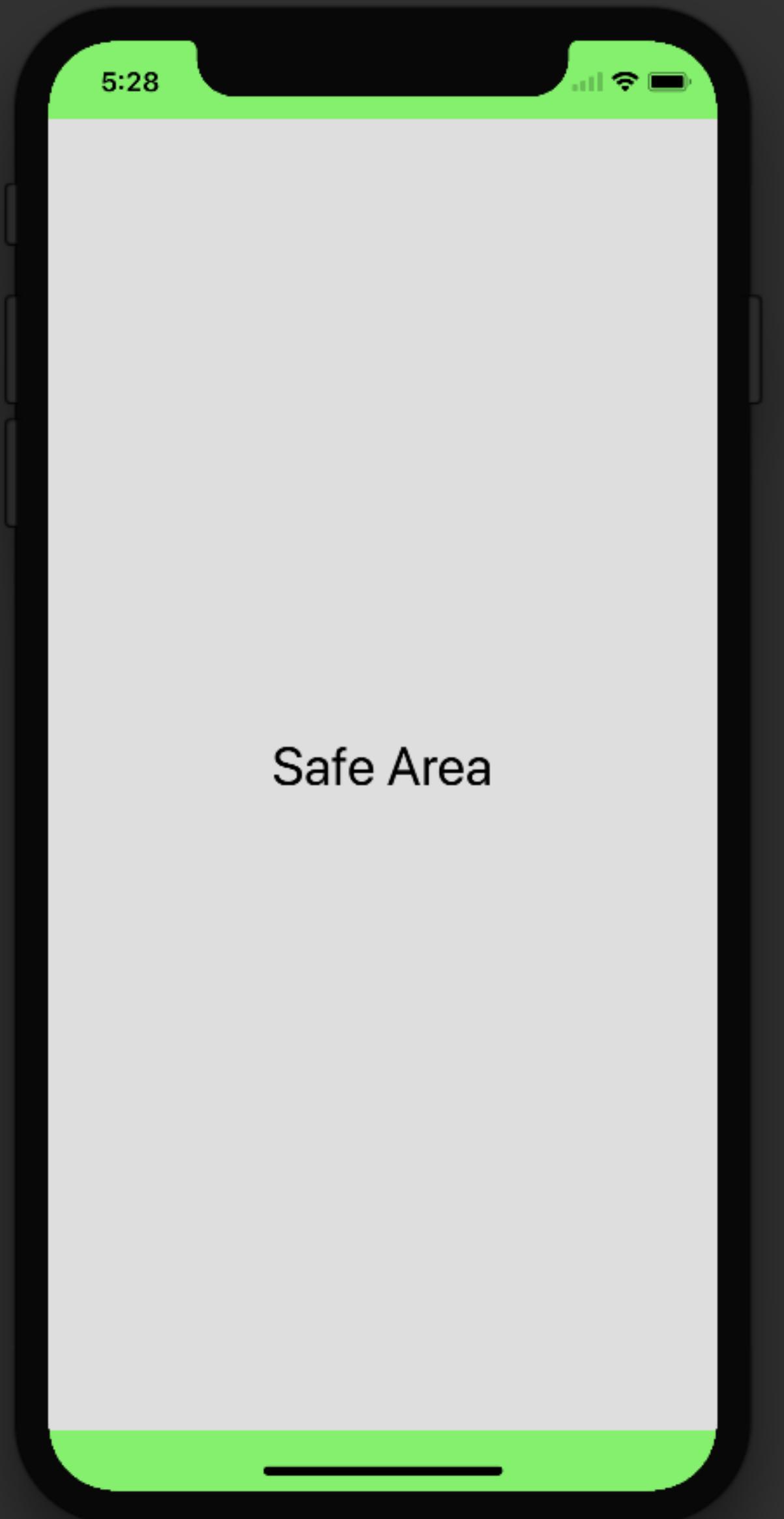
Título

# Não pode ter ambiguidade



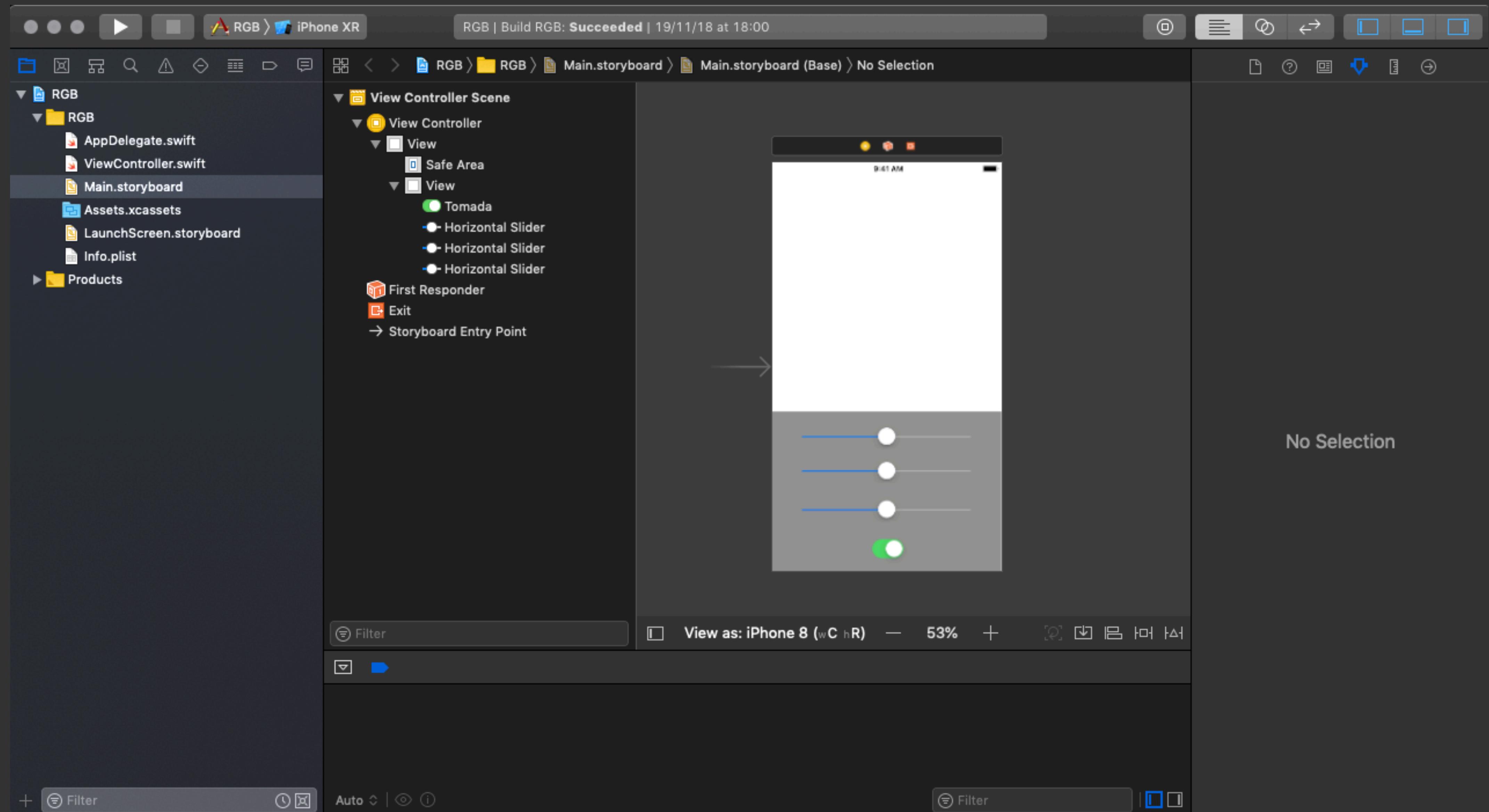


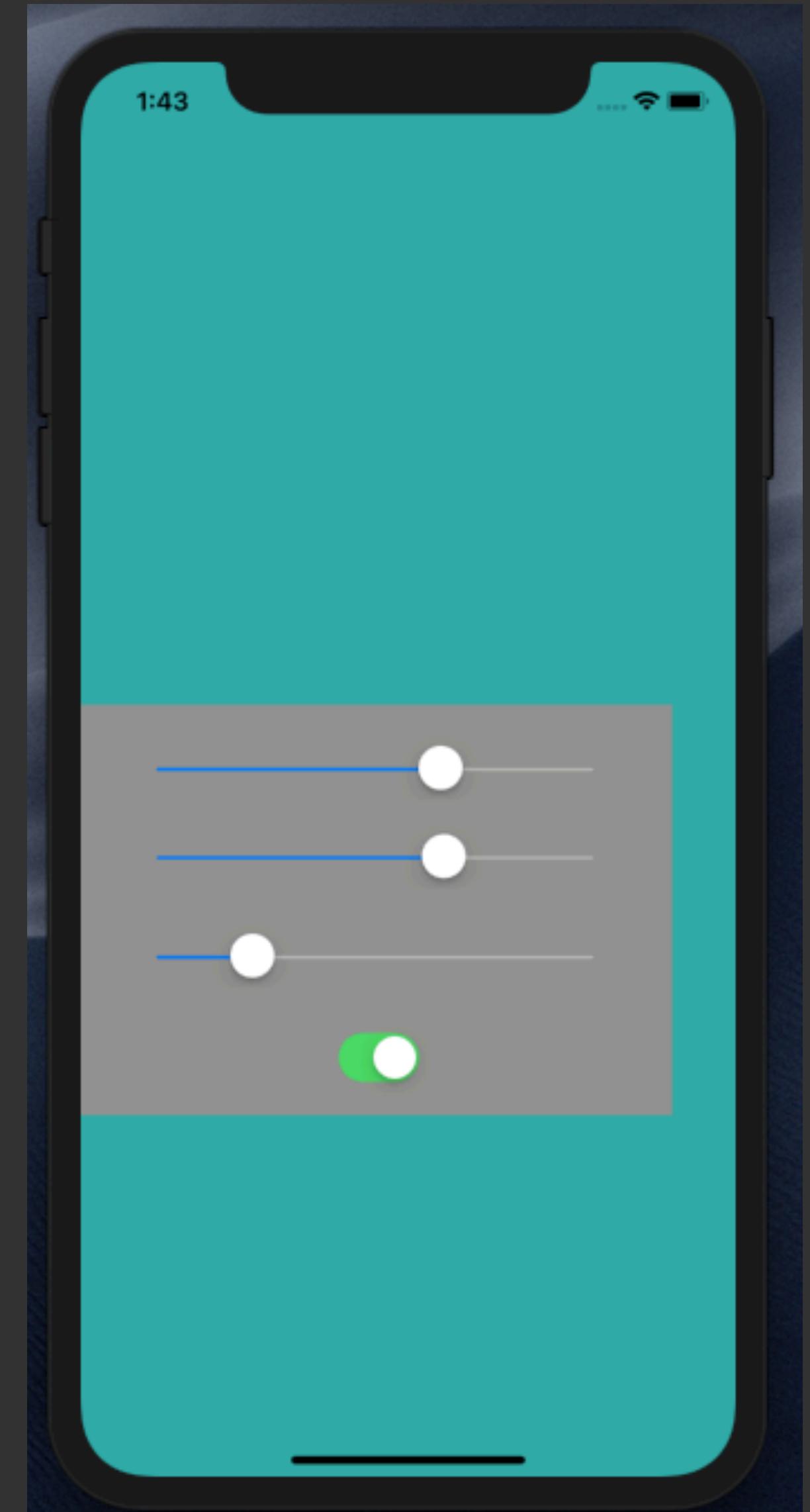
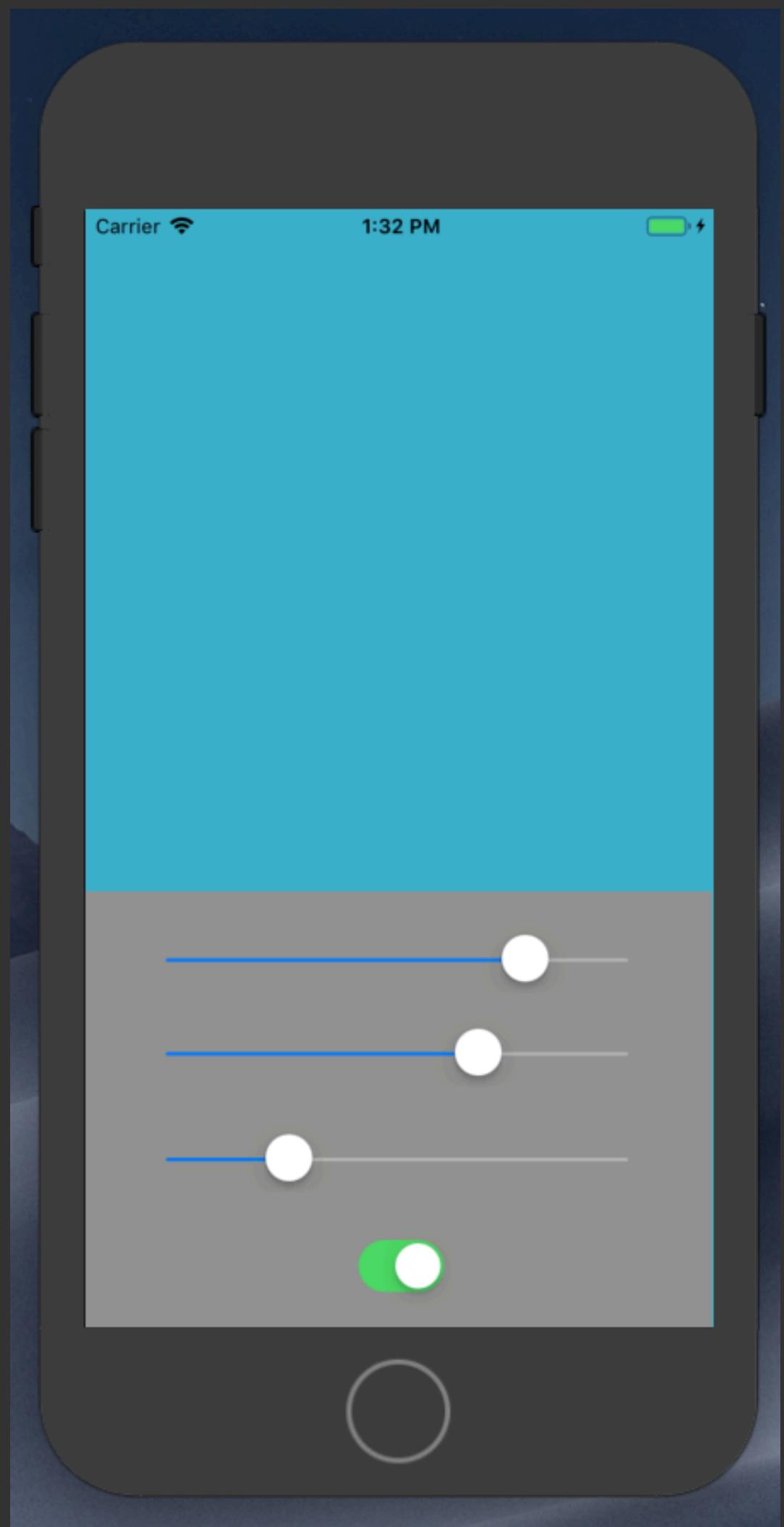
iPhone 8 - iOS 11.0



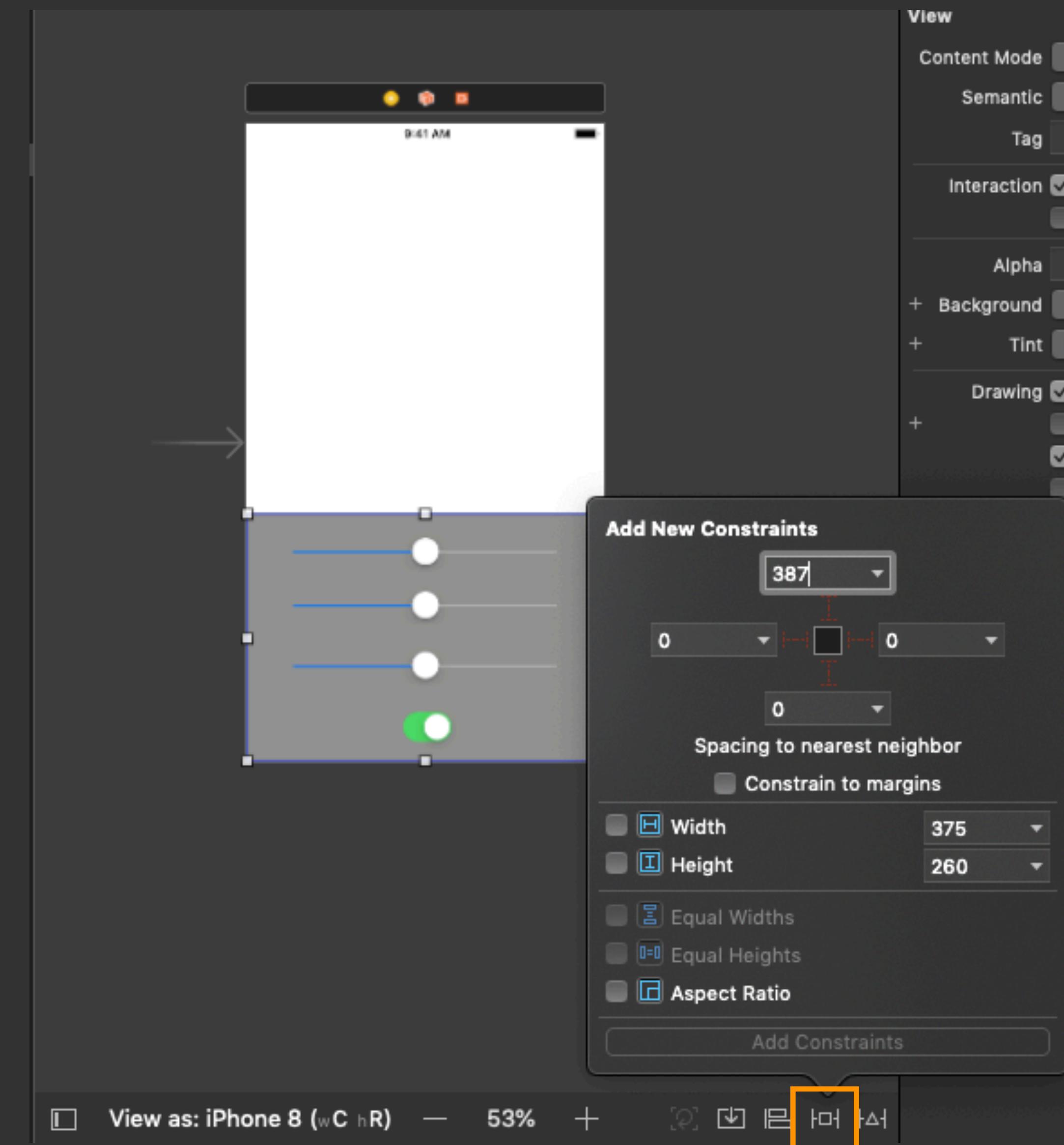
iPhone X - iOS 11.0

Vamos aplicar ao Lanterna RGB





# É necessário selecionar a view



## Add New Constraints

387

0 H 0

0

Spacing to nearest neighbor

Constrain to margins

Width

375

Height

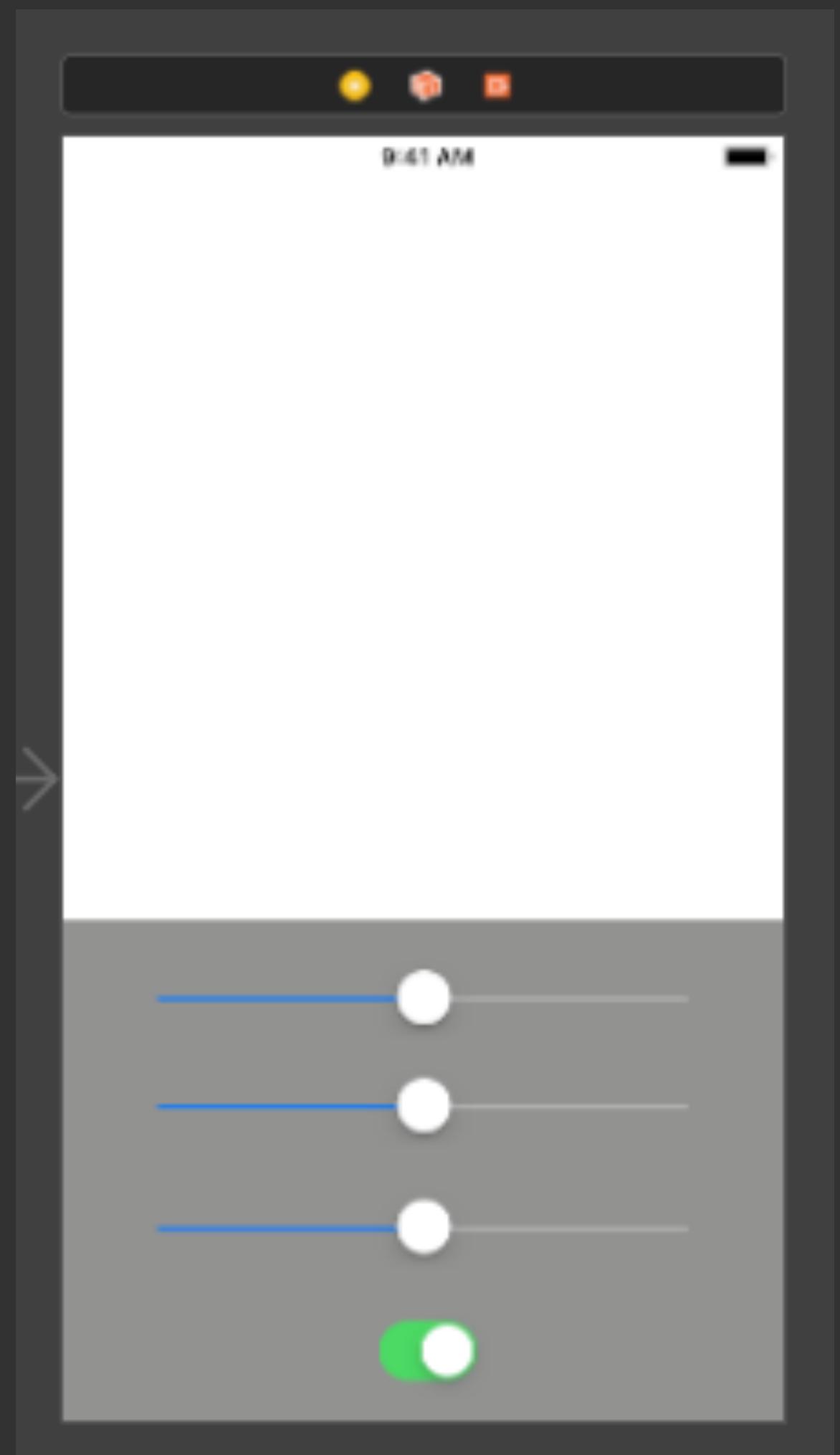
260

Equal Widths

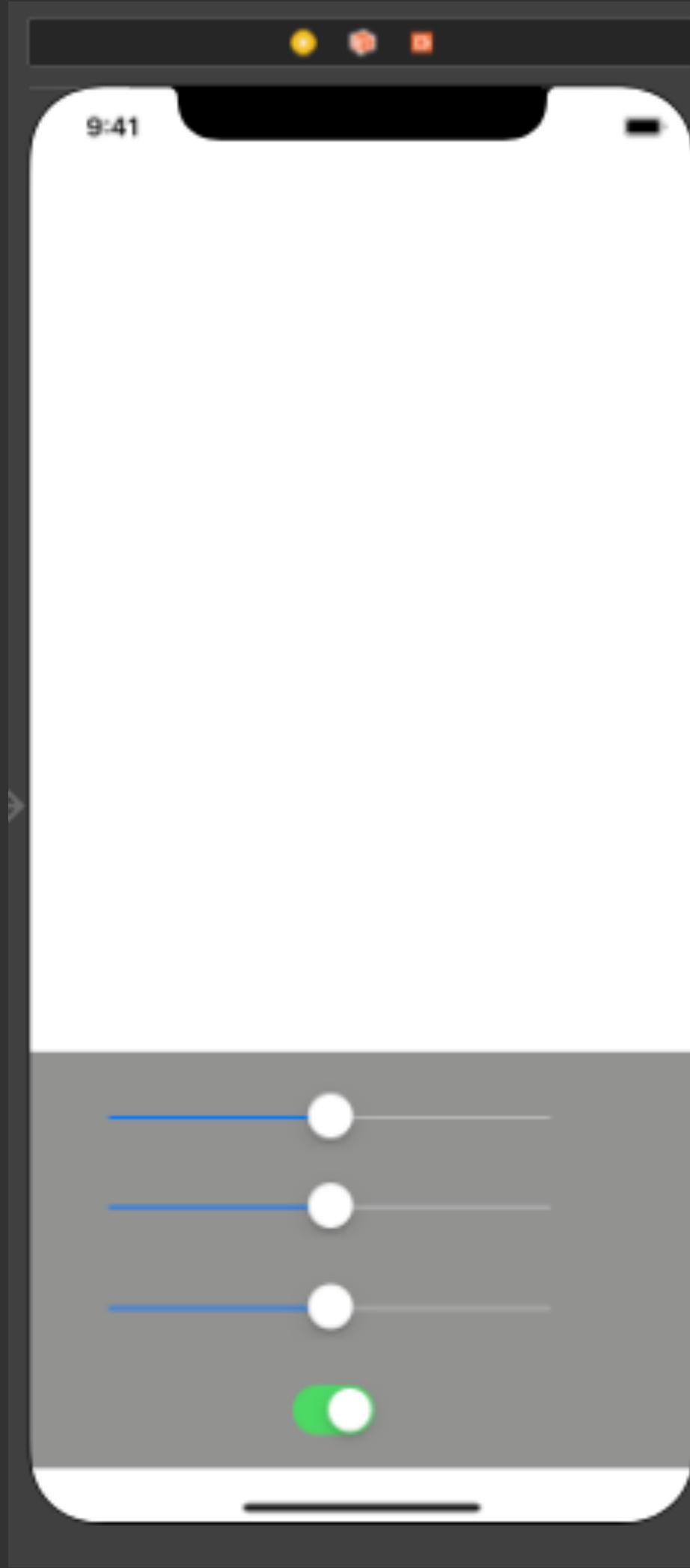
Equal Heights

Aspect Ratio

Add 4 Constraints



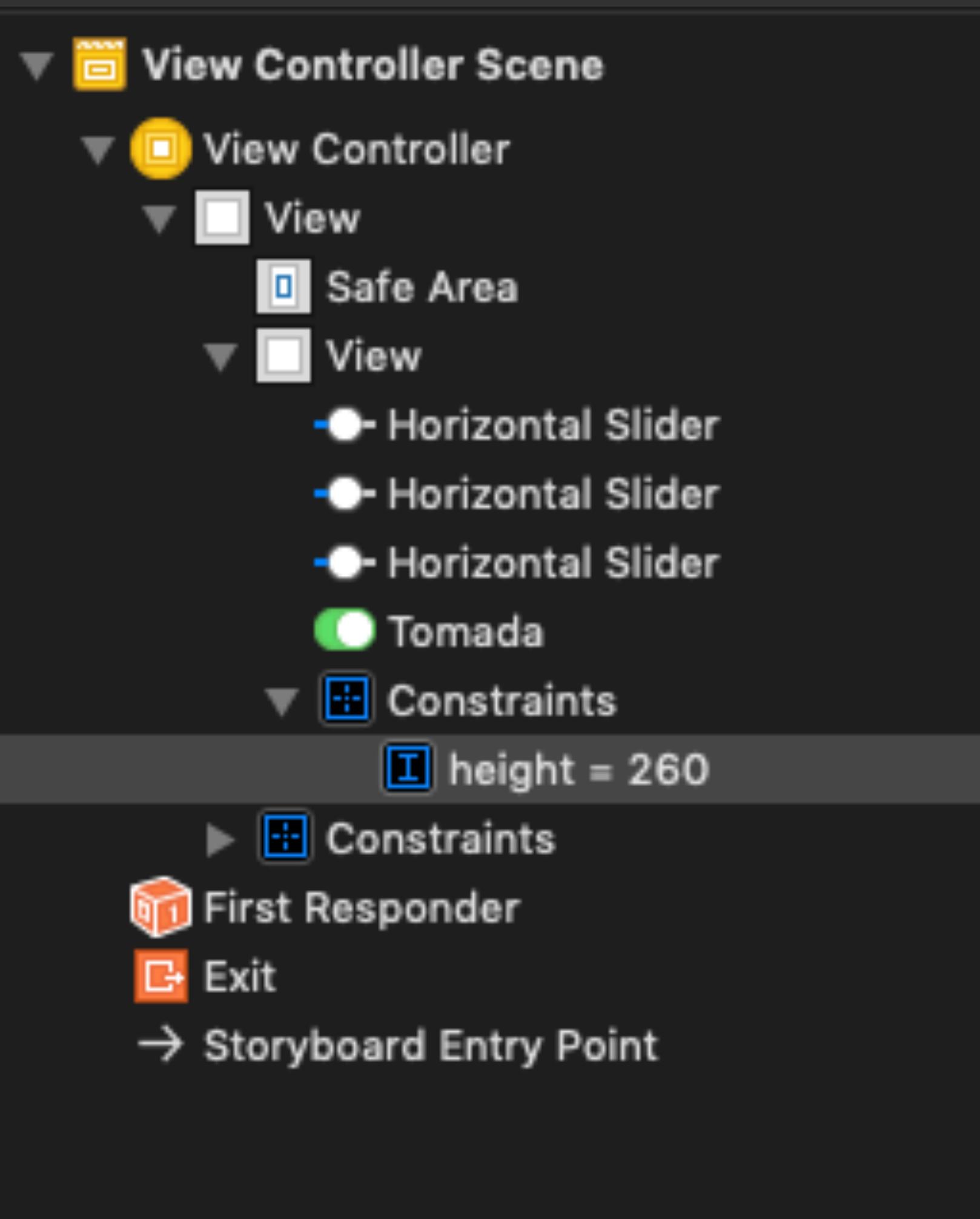
iPhone 8

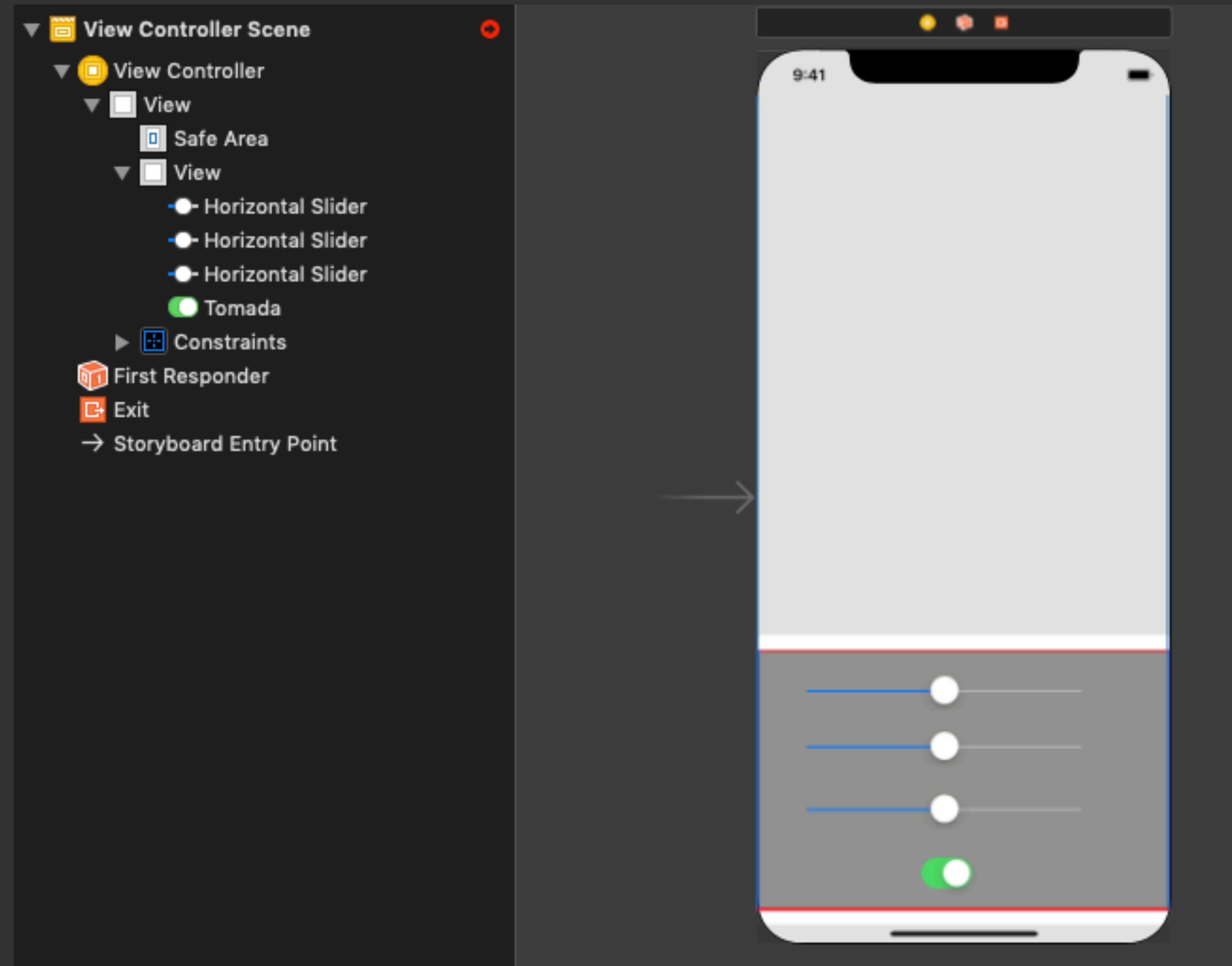


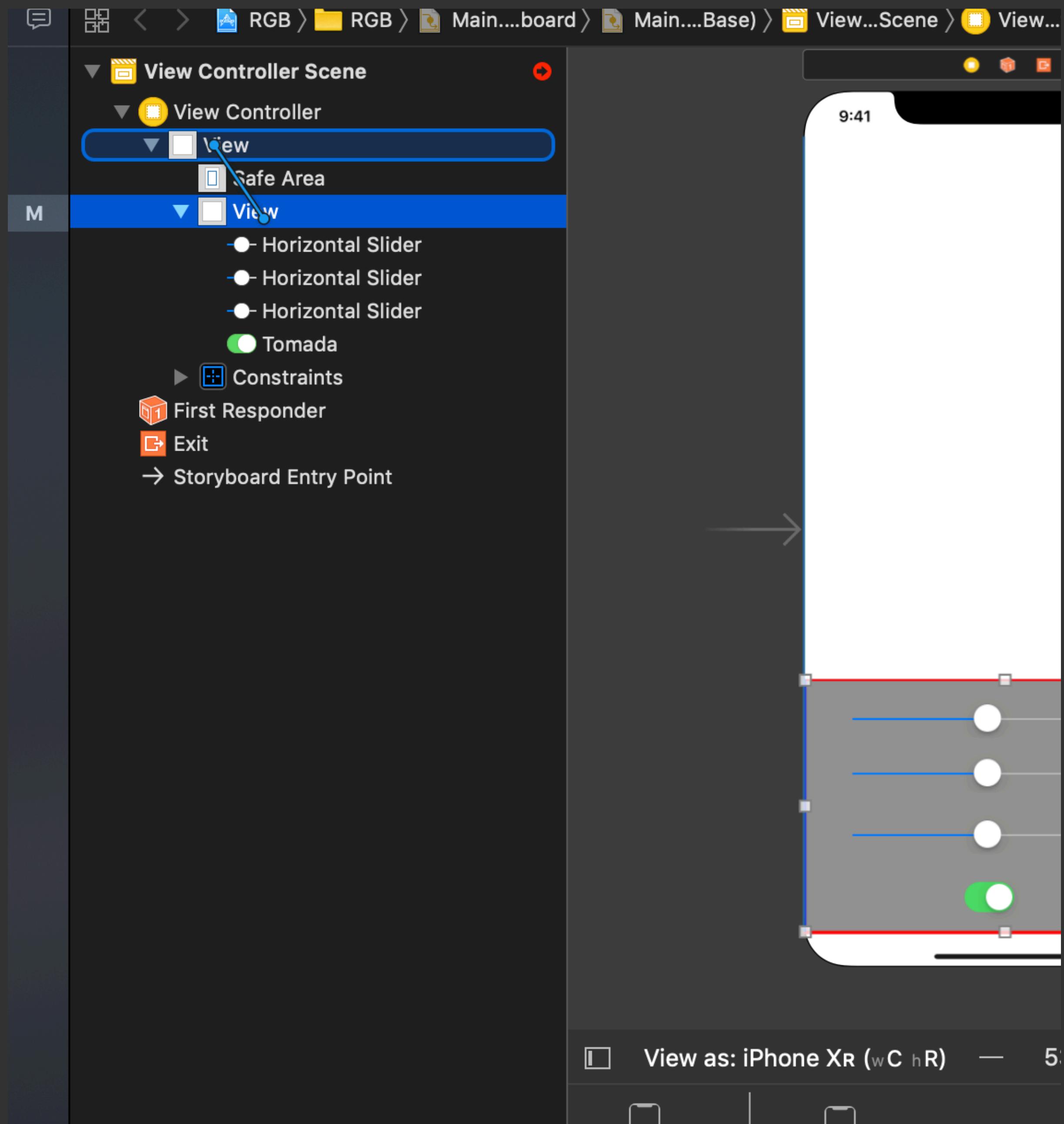
iPhone Xr

Mudaremos pra altura da view ser 1/3 da tela

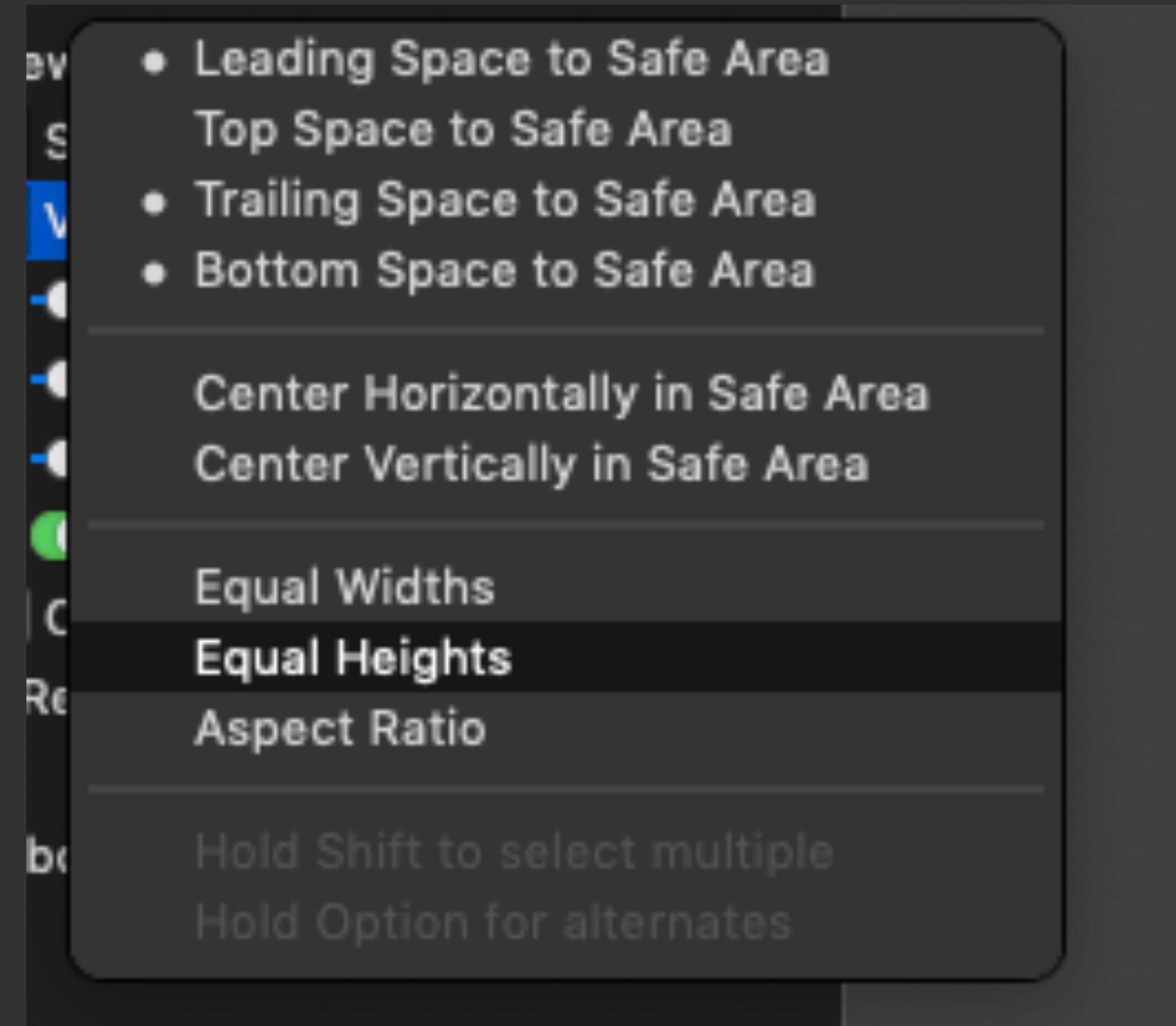
# Delete a constraint de altura

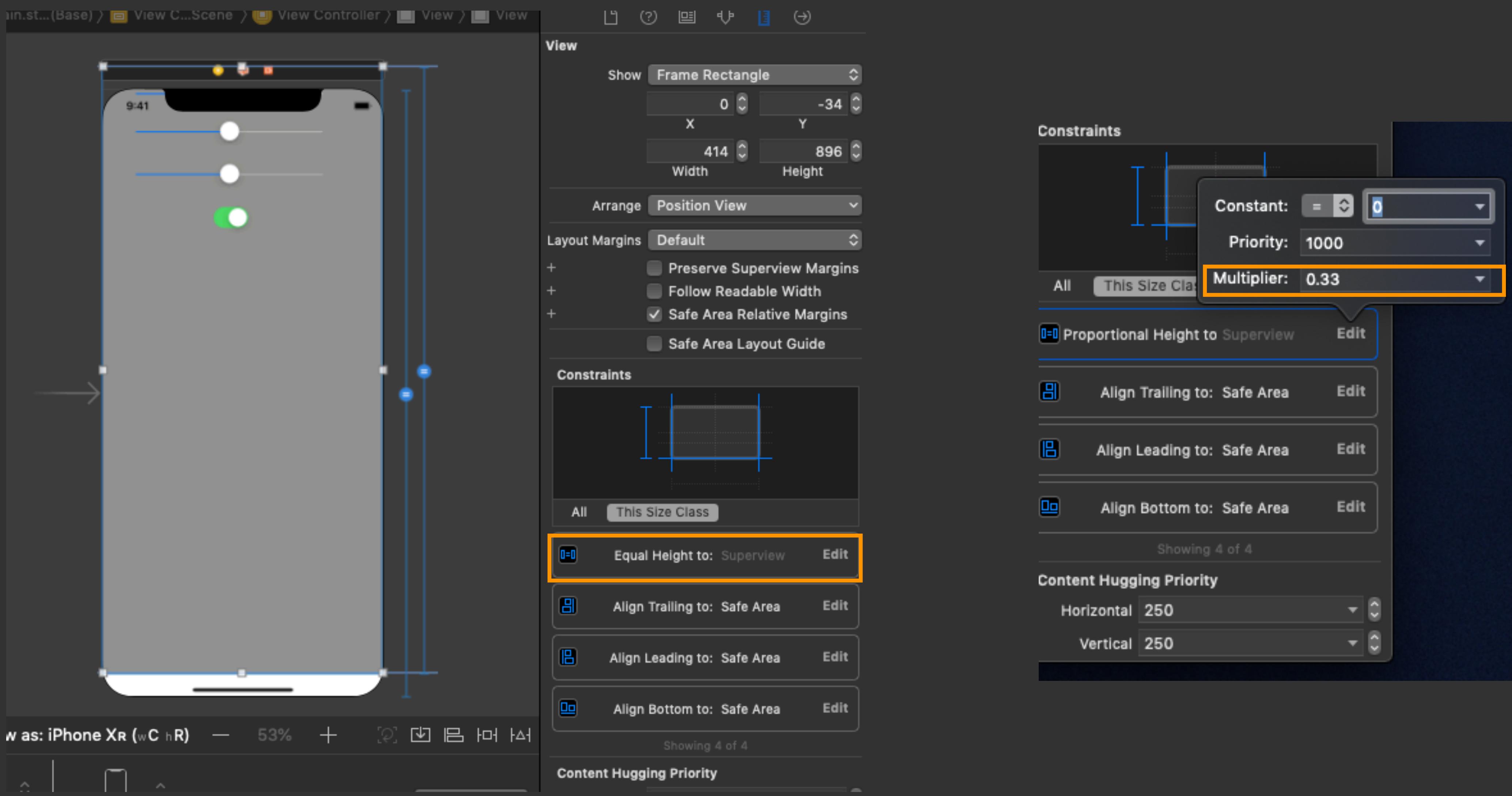


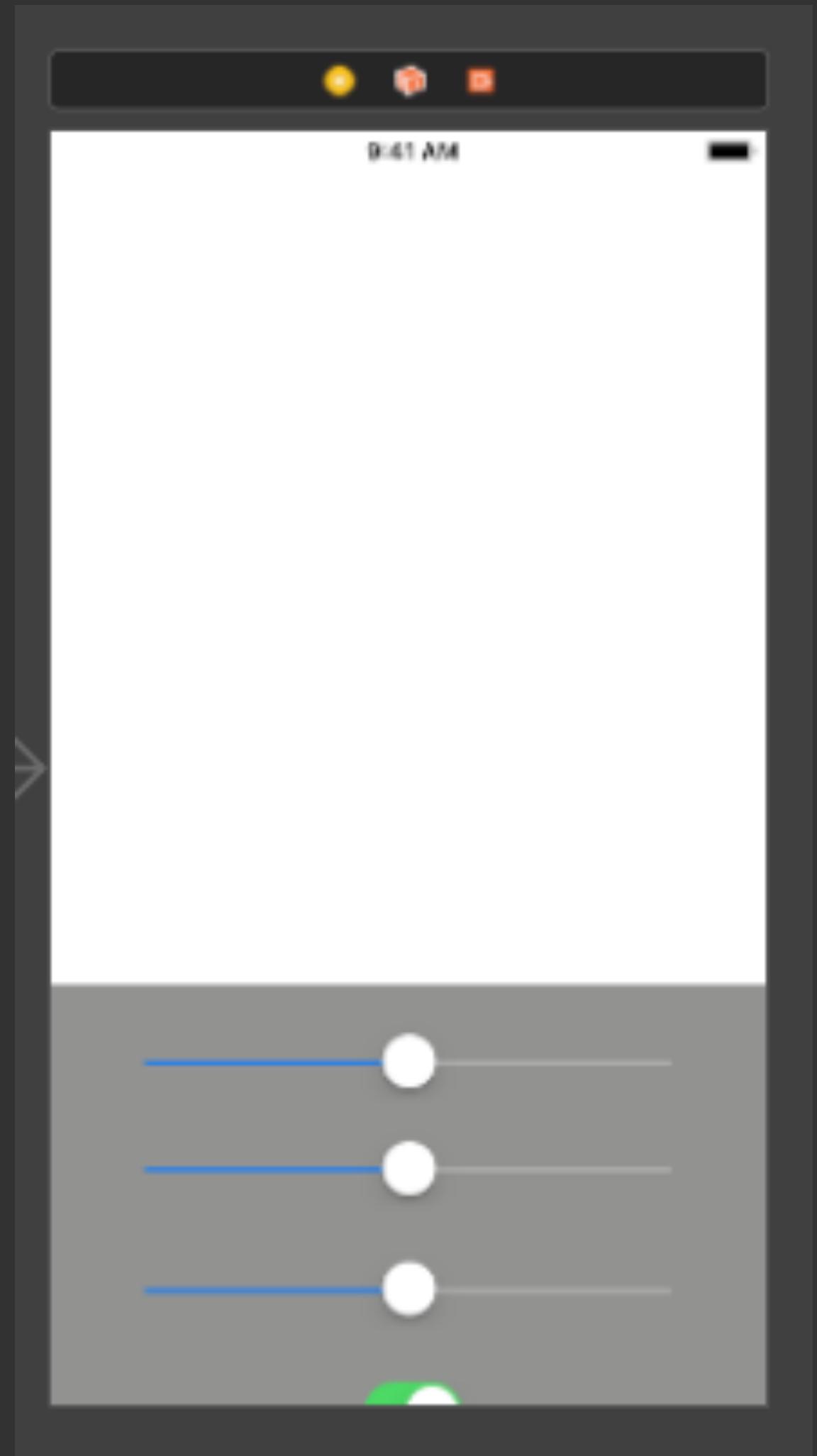




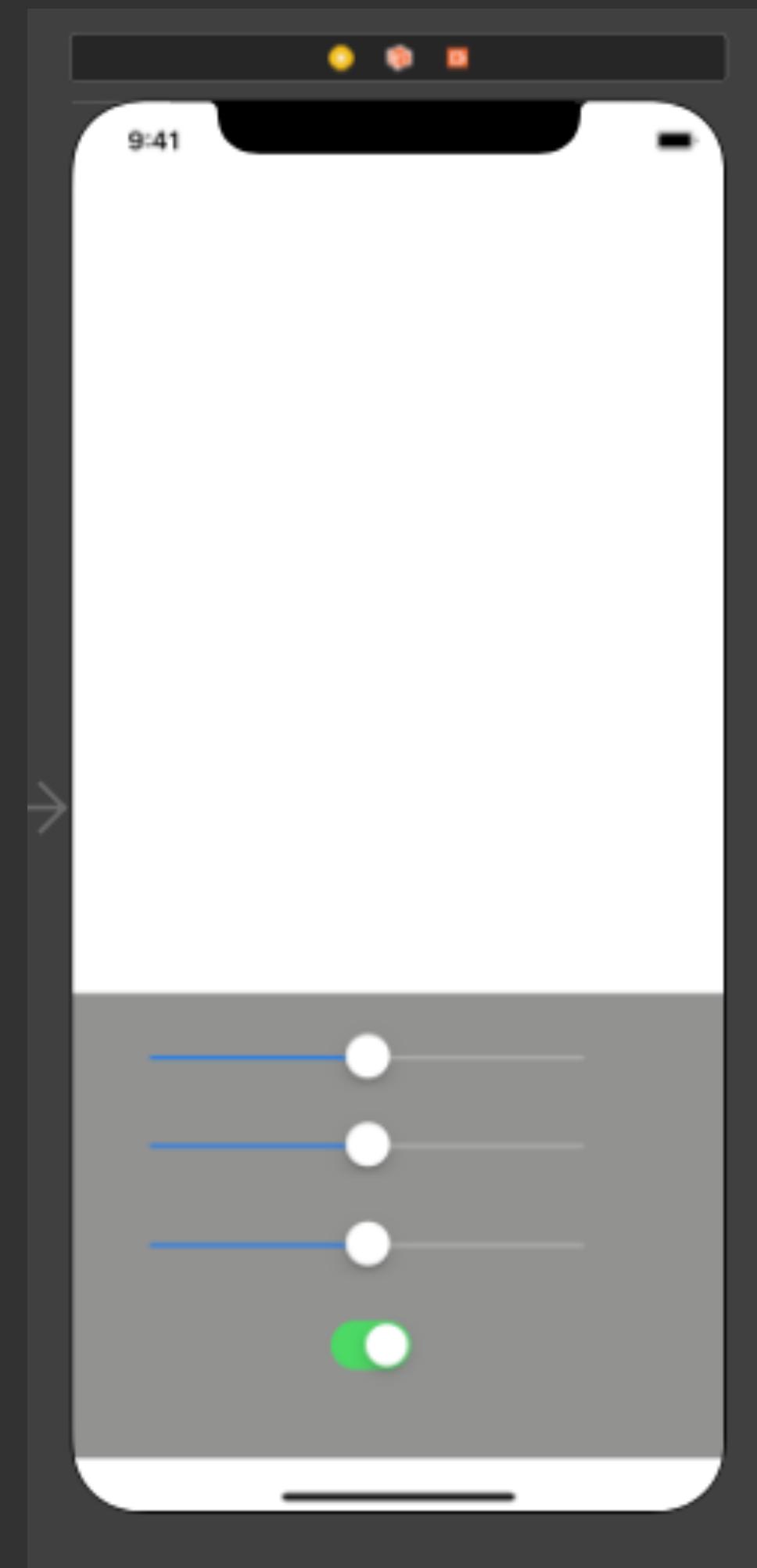
# Seleccione *Equal Heights*



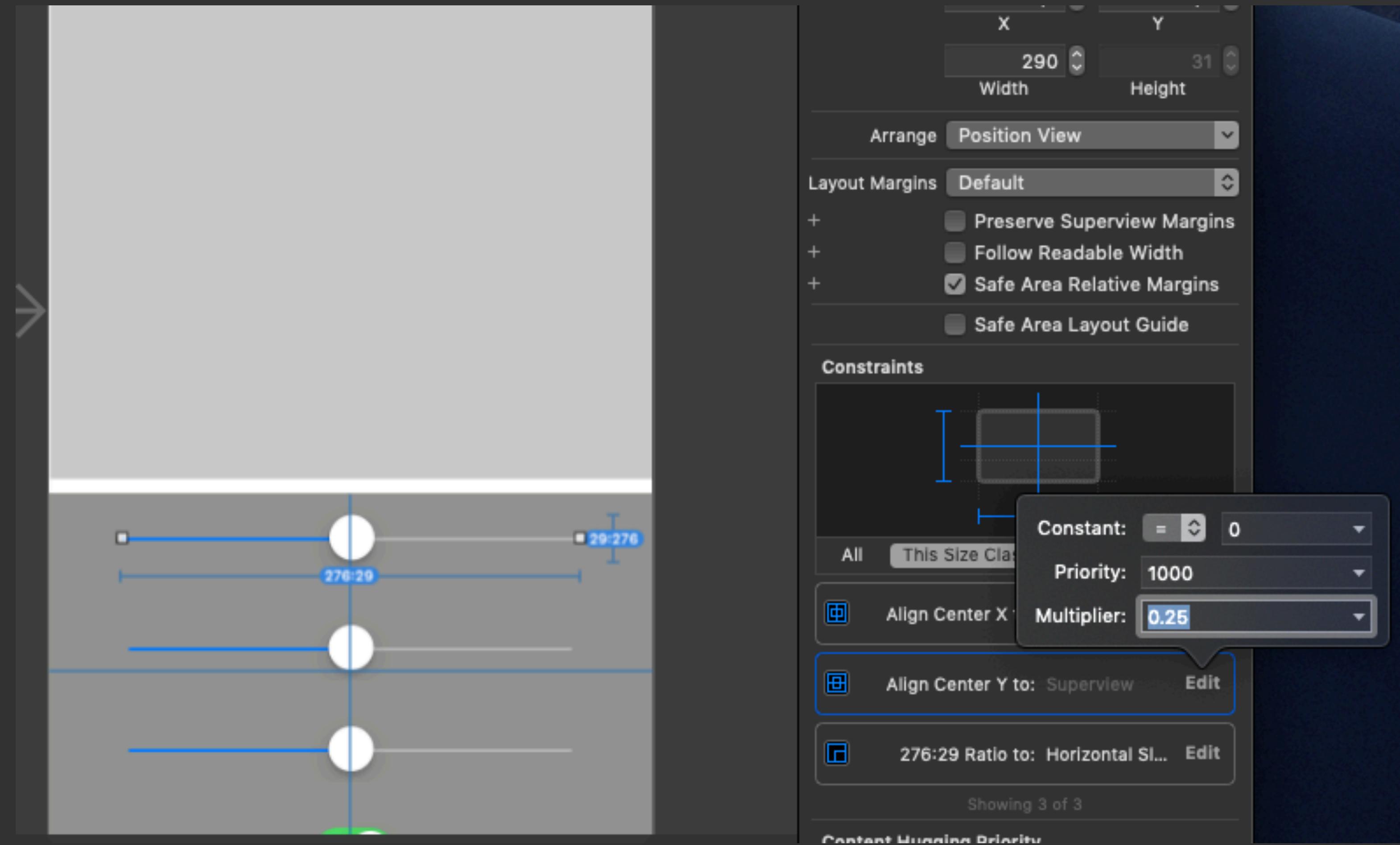




iPhone 8



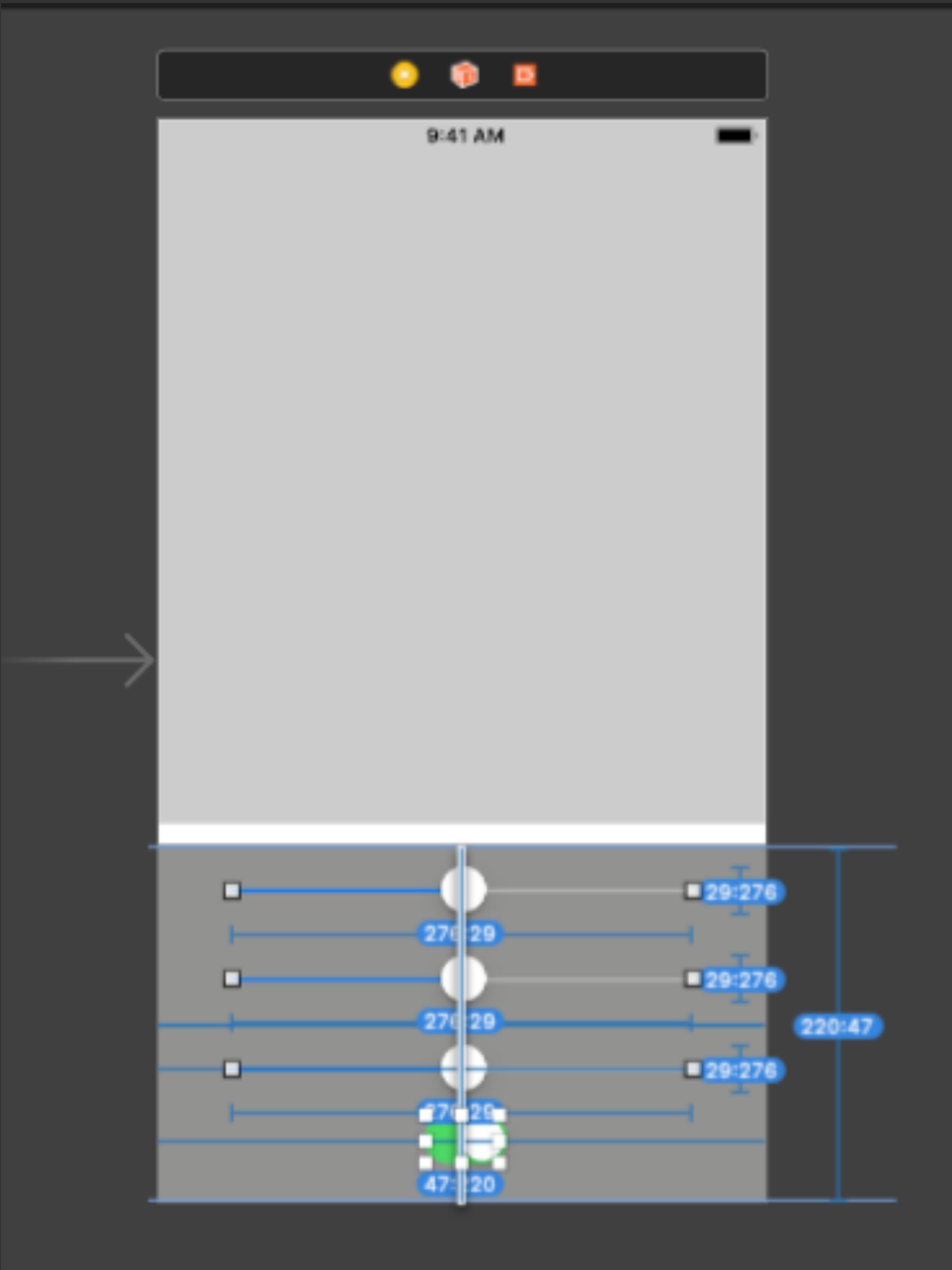
iPhone Xr

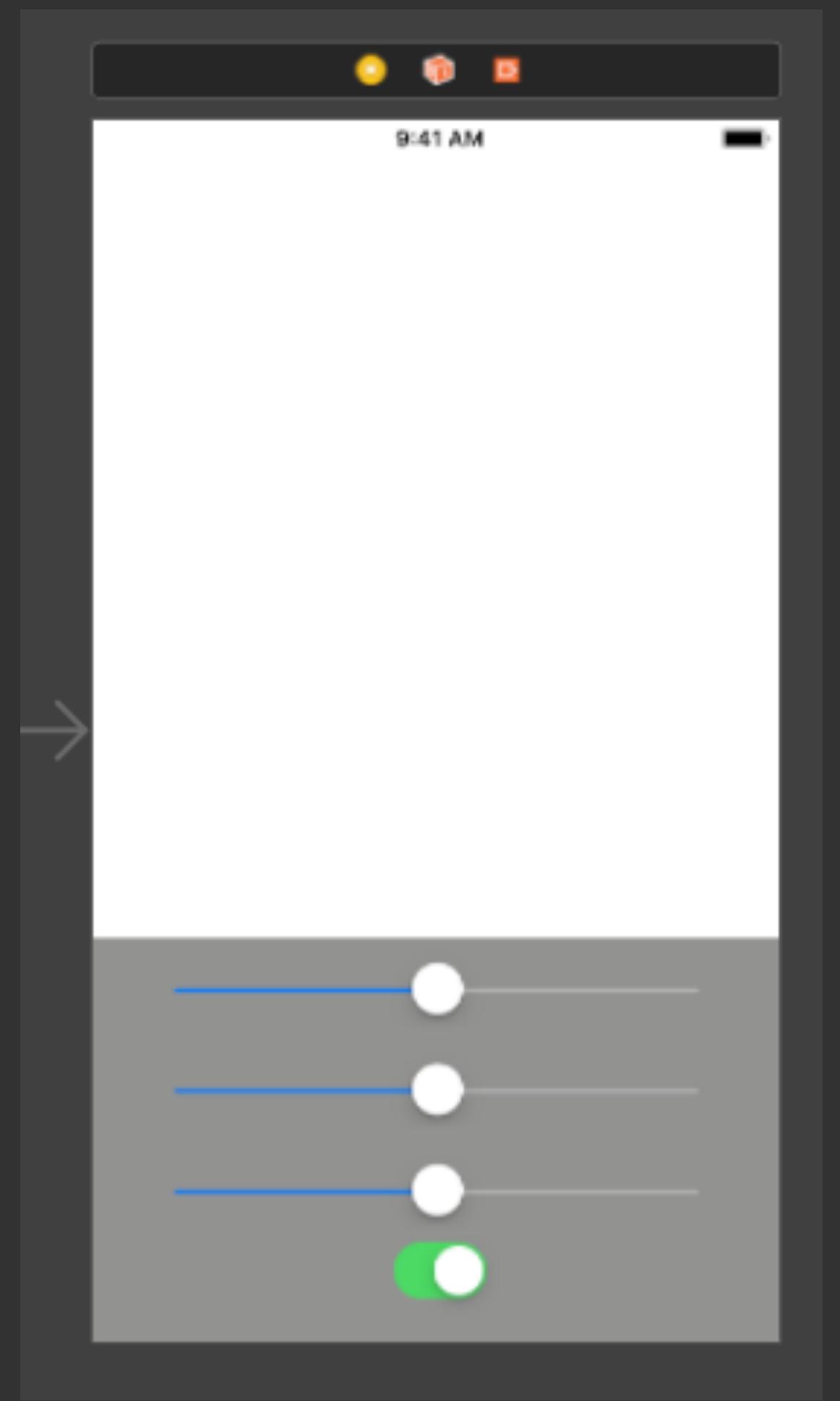


# Aspect Radio

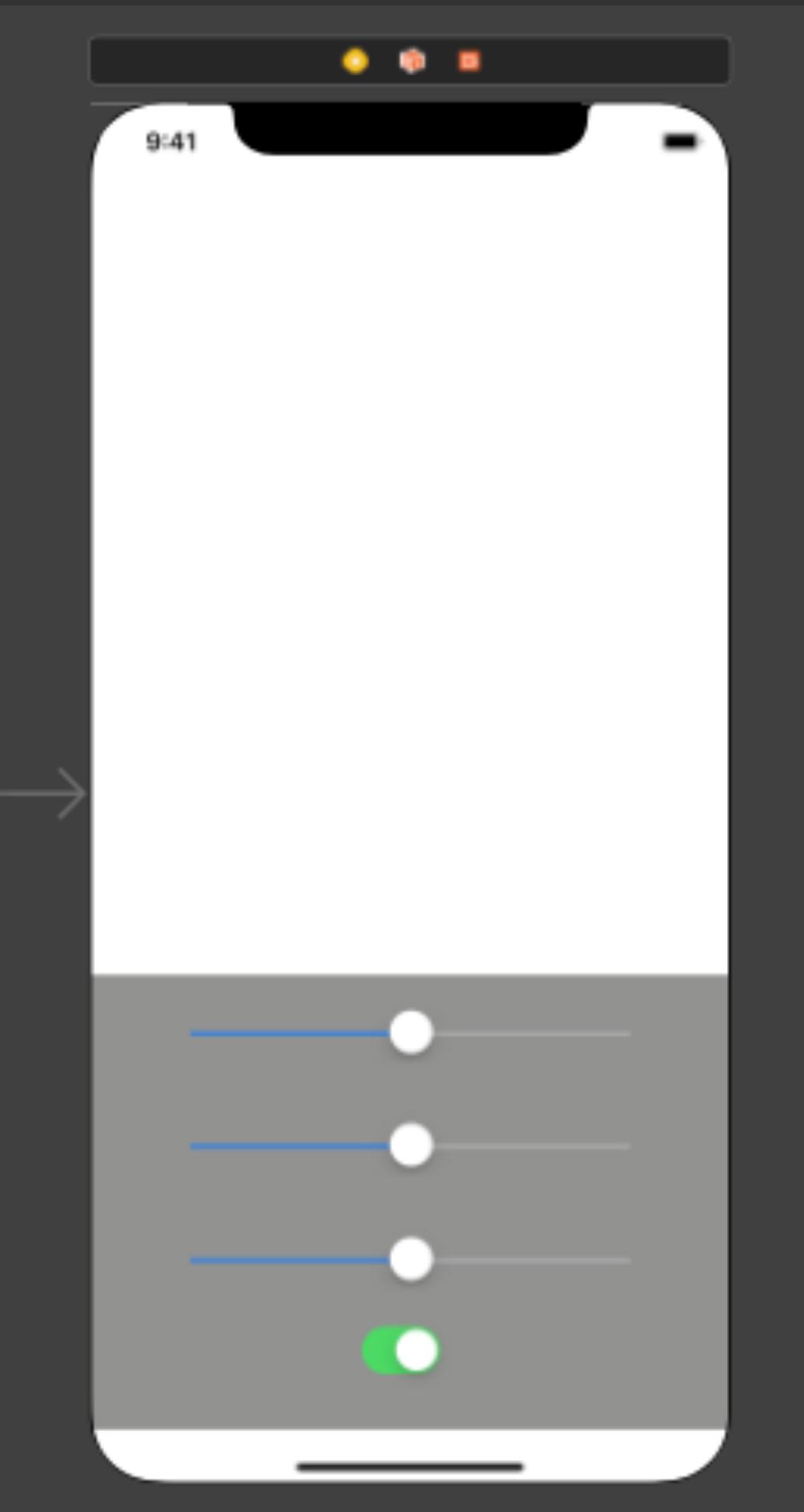
## Center Horizontally in Container

## Center Vertically in Container

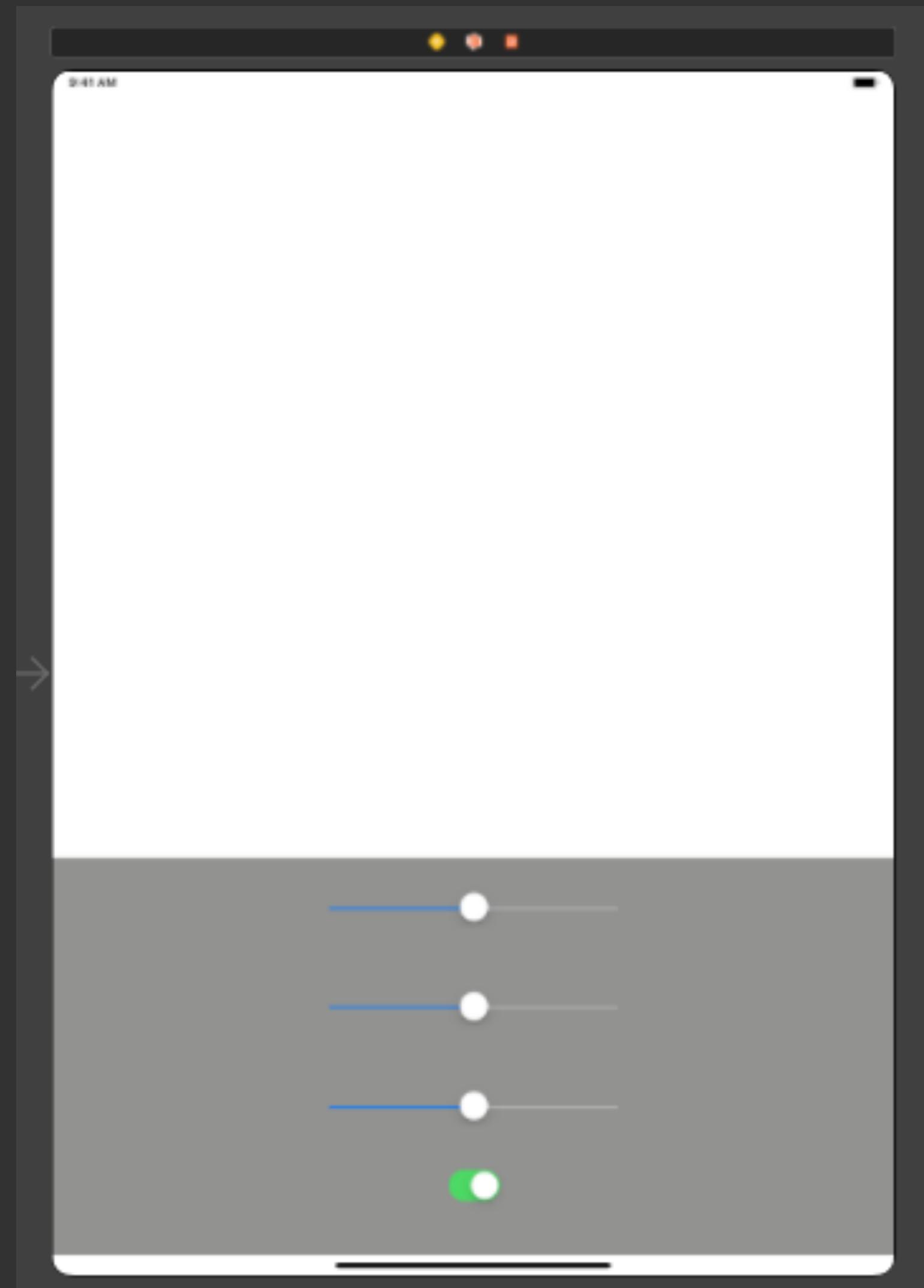




iPhone 8



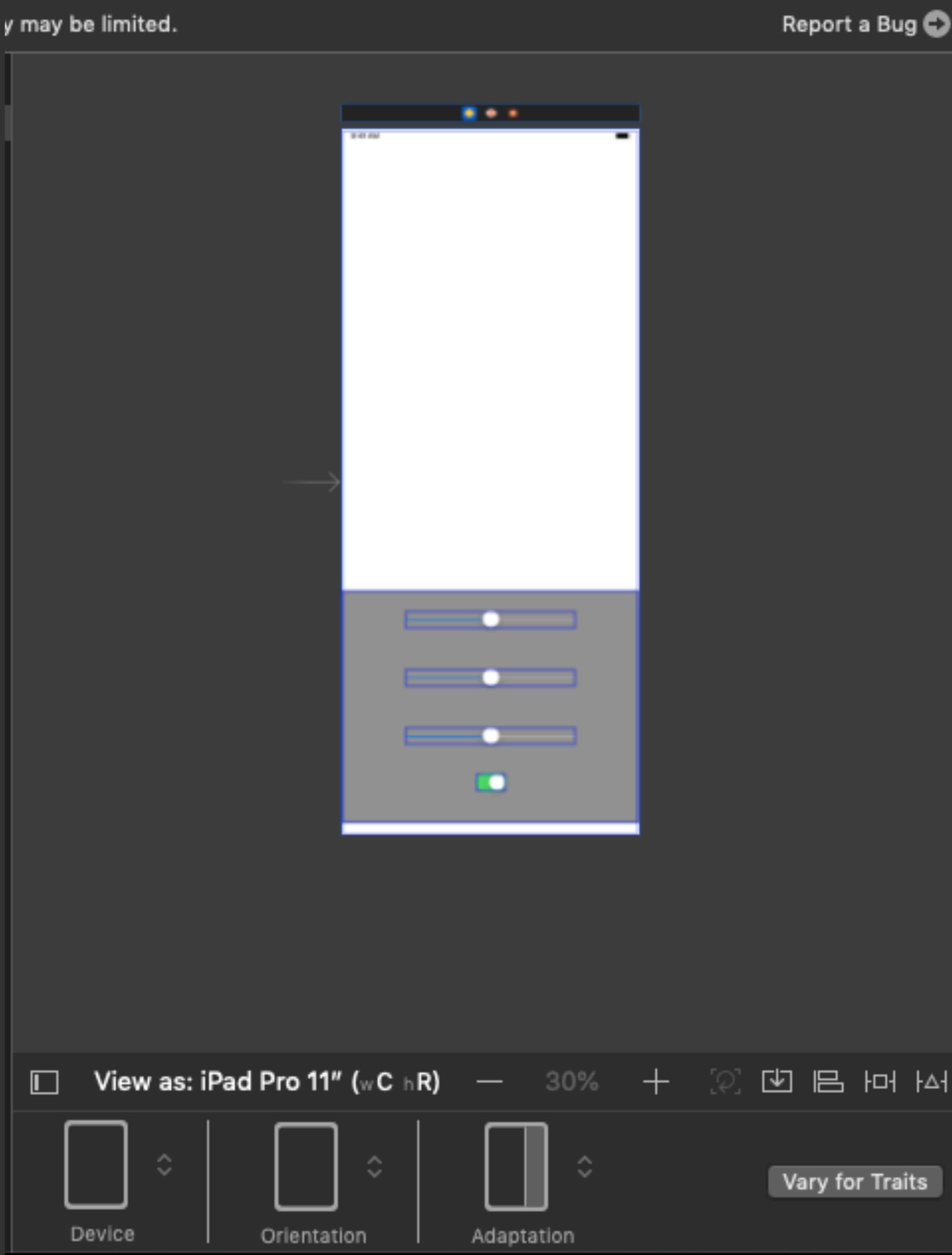
iPhone Xr



iPad Pro 11

y may be limited.

[Report a Bug](#) 



# Atividade

Faça o AutoLayout da  
TableView da aula passada

