

#WWDC18

# UIKit: Apps for Every Size and Shape

Session 235

David Duncan, UIKit Engineer

Tyler Fox, UIKit Engineer

Russell Ladd, UIKit Engineer







Safe area and layout margins

Safe area and layout margins

Scroll views

Safe area and layout margins

Scroll views

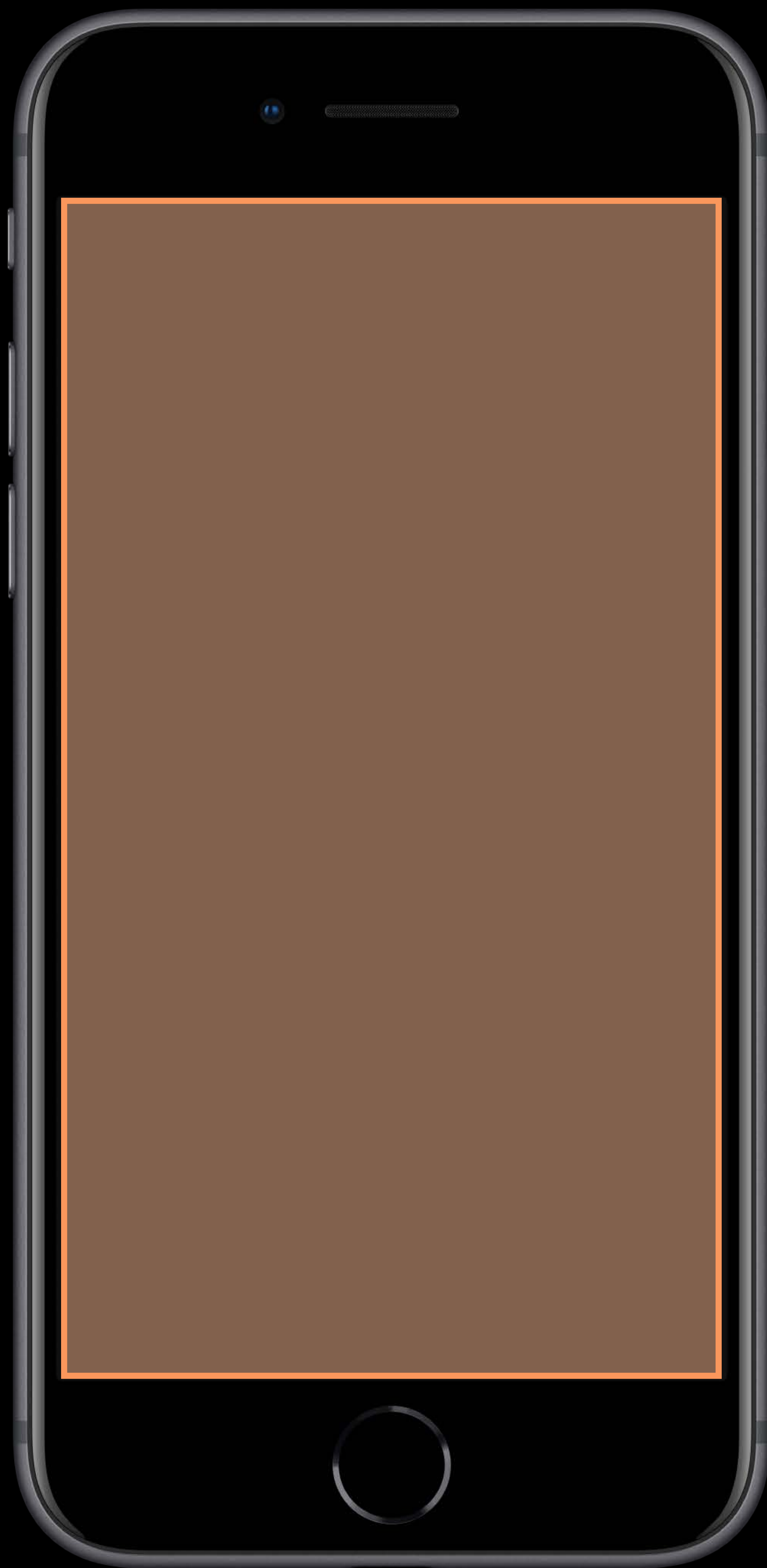
Building adaptive apps

# Safe Area and Layout Margins

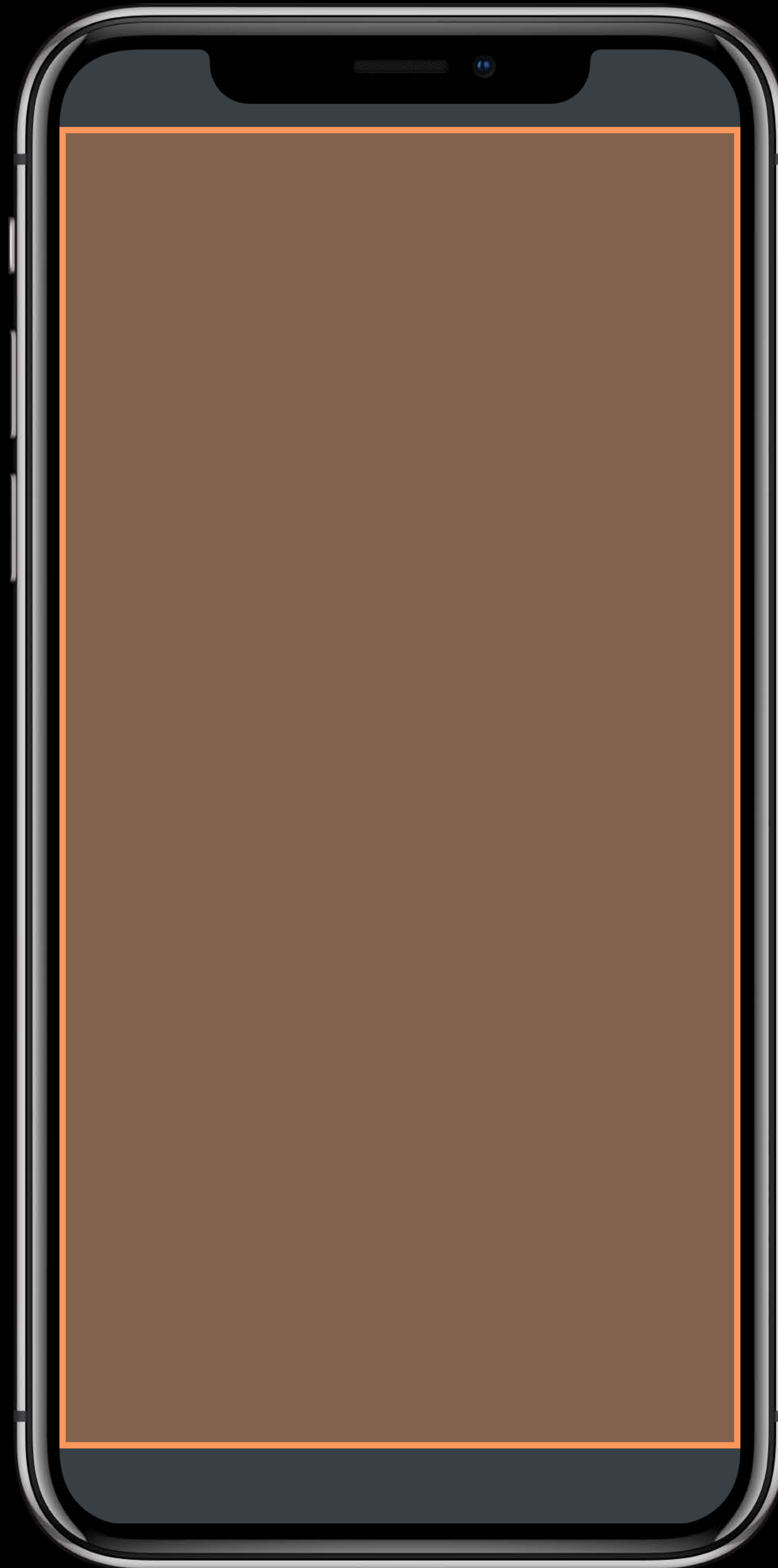
David Duncan, UIKit Engineer



# Safe Area



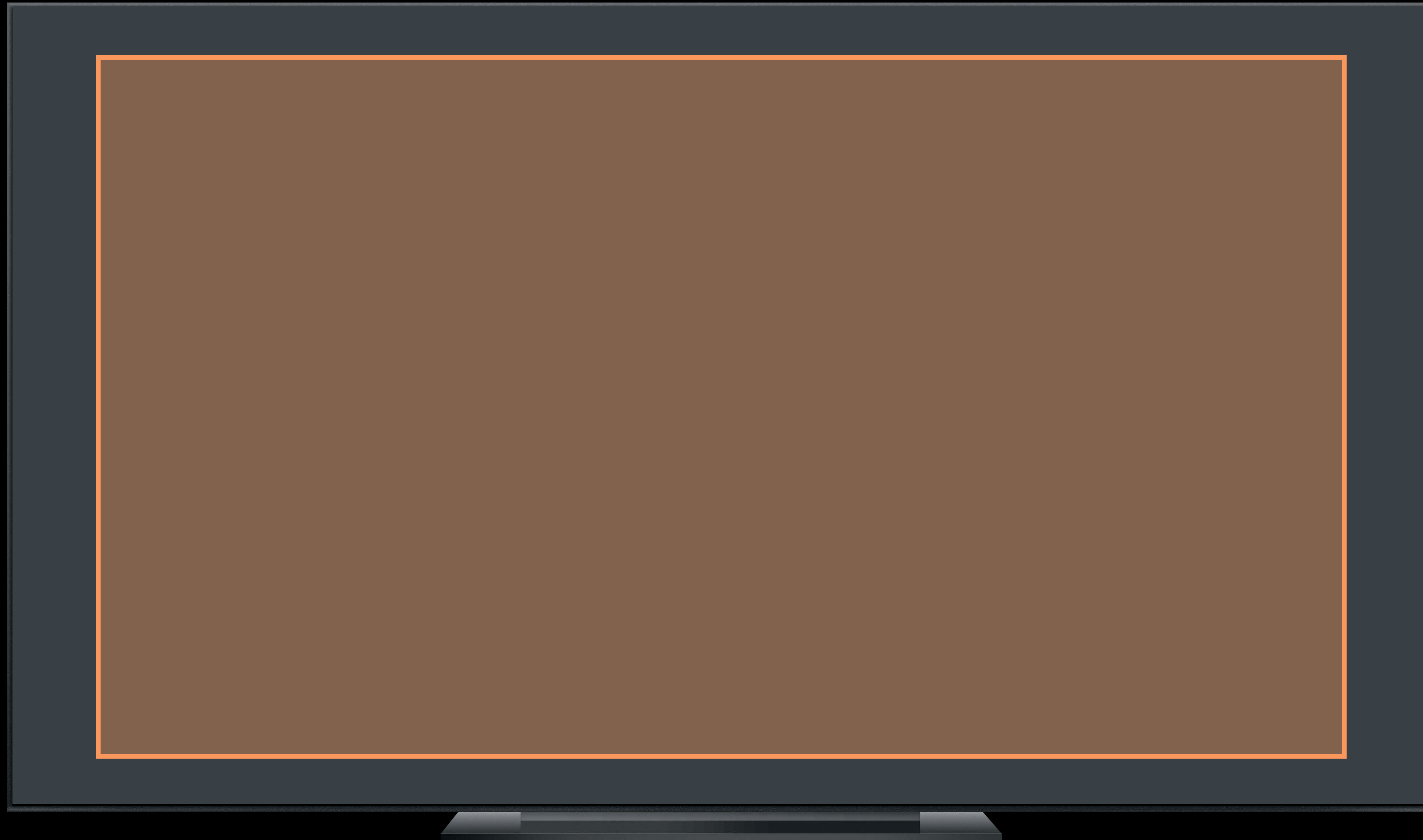
# Safe Area



# Safe Area



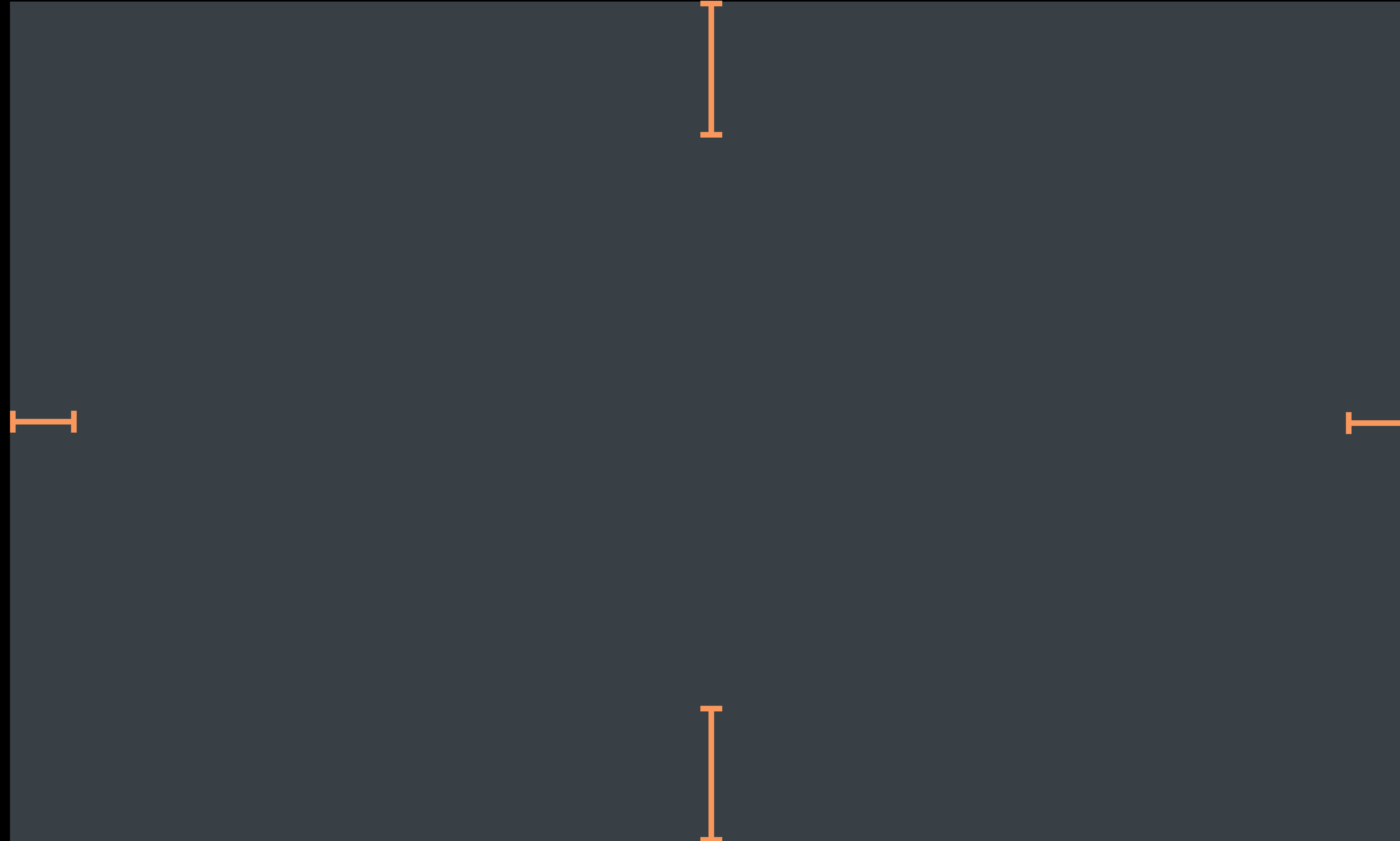
# Safe Area



**Safe Area**

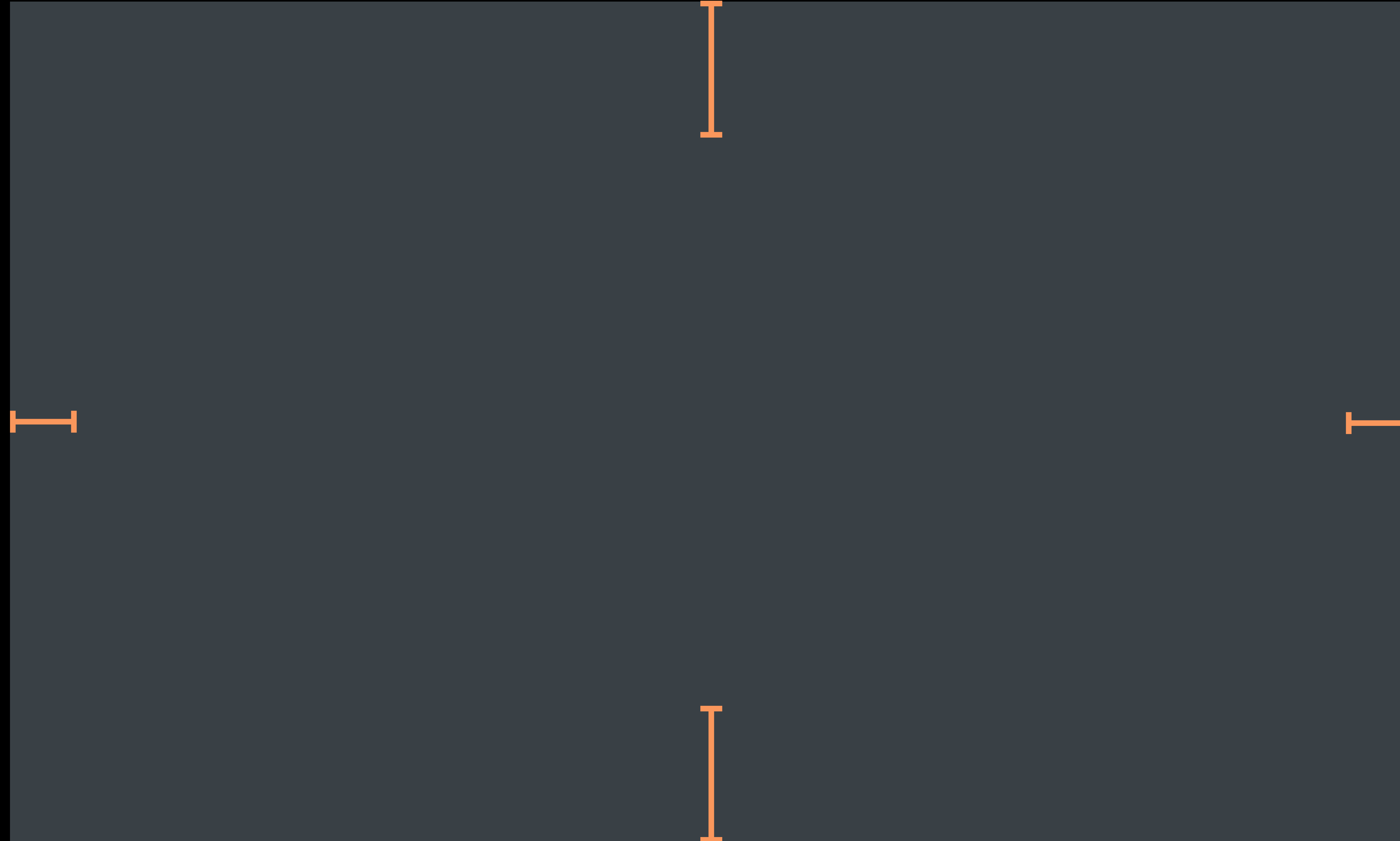


# Safe Area



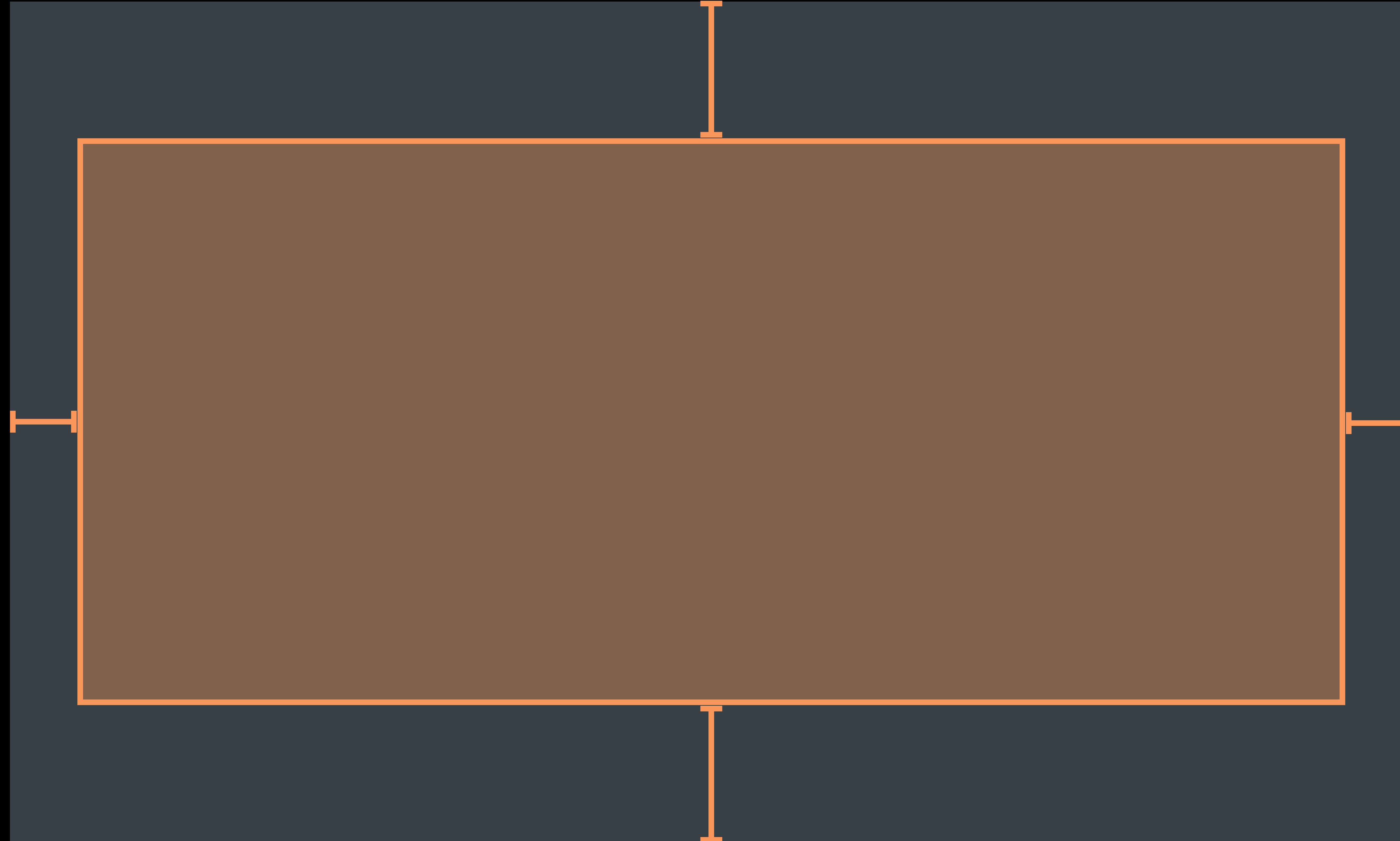
# Safe Area

`.safeAreaInsets`



# Safe Area

`.safeAreaInsets`



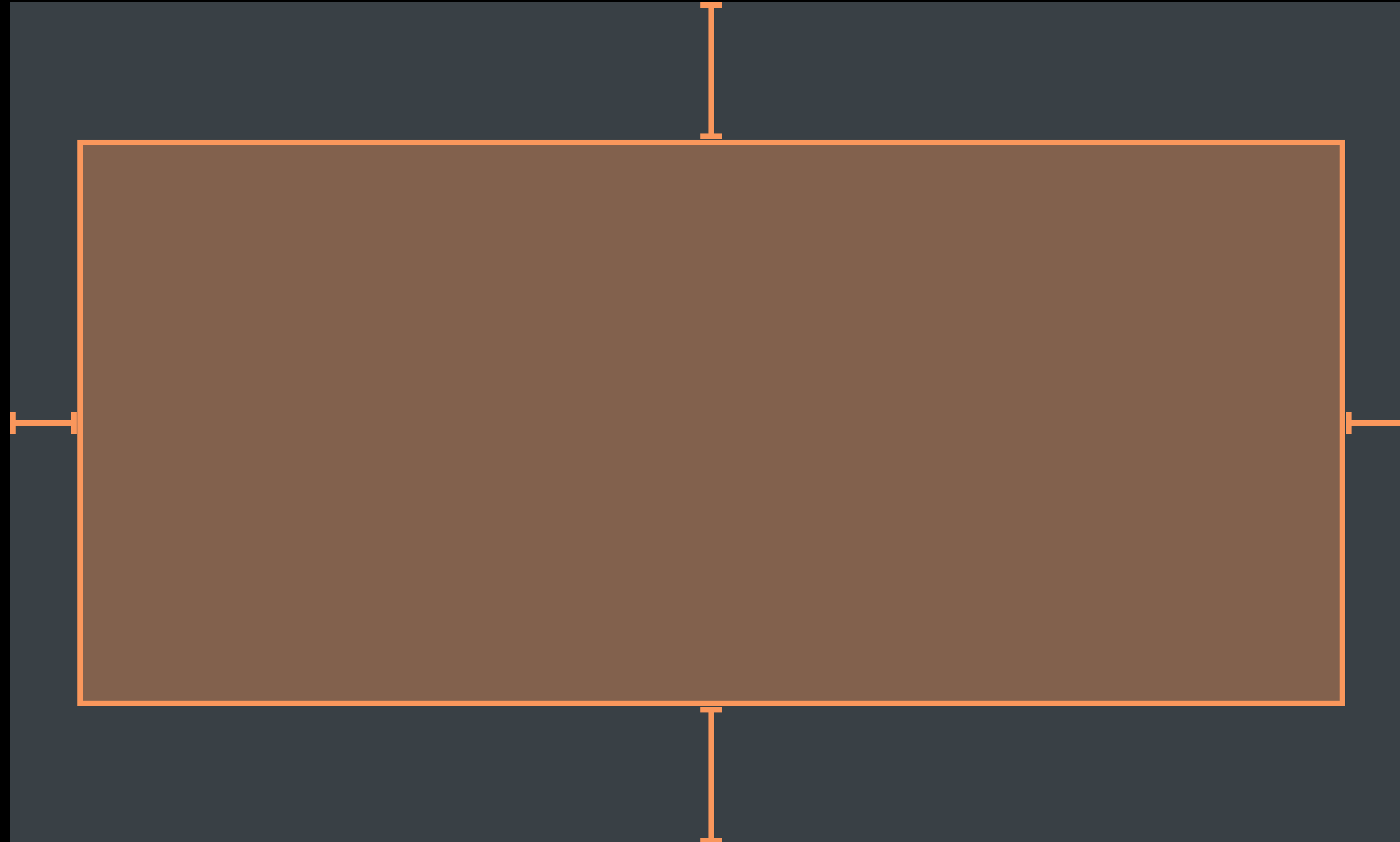


# Safe Area



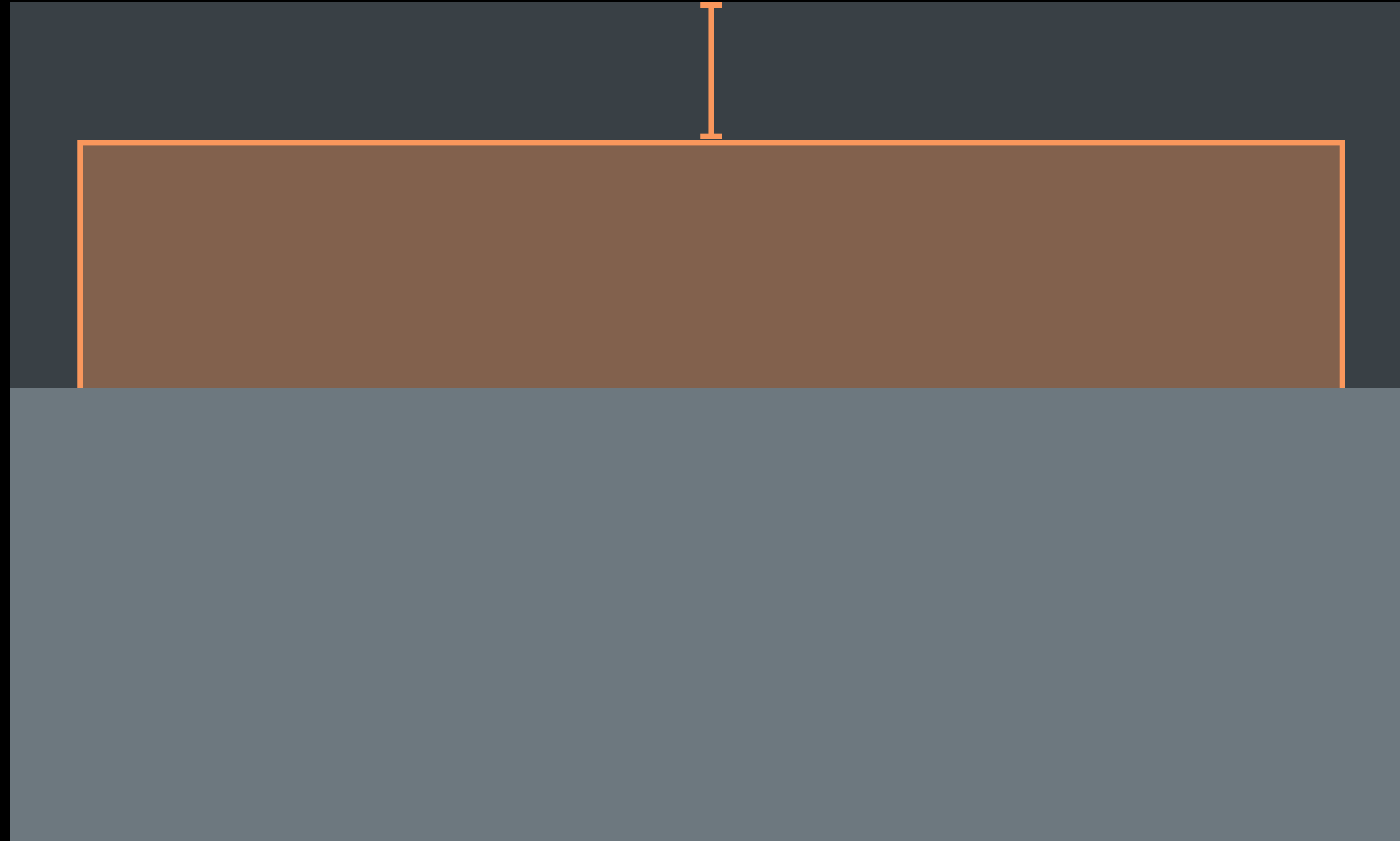
# Safe Area

Subview propagation



# Safe Area

Subview propagation



# Safe Area

Subview propagation



# Safe Area

Subview propagation



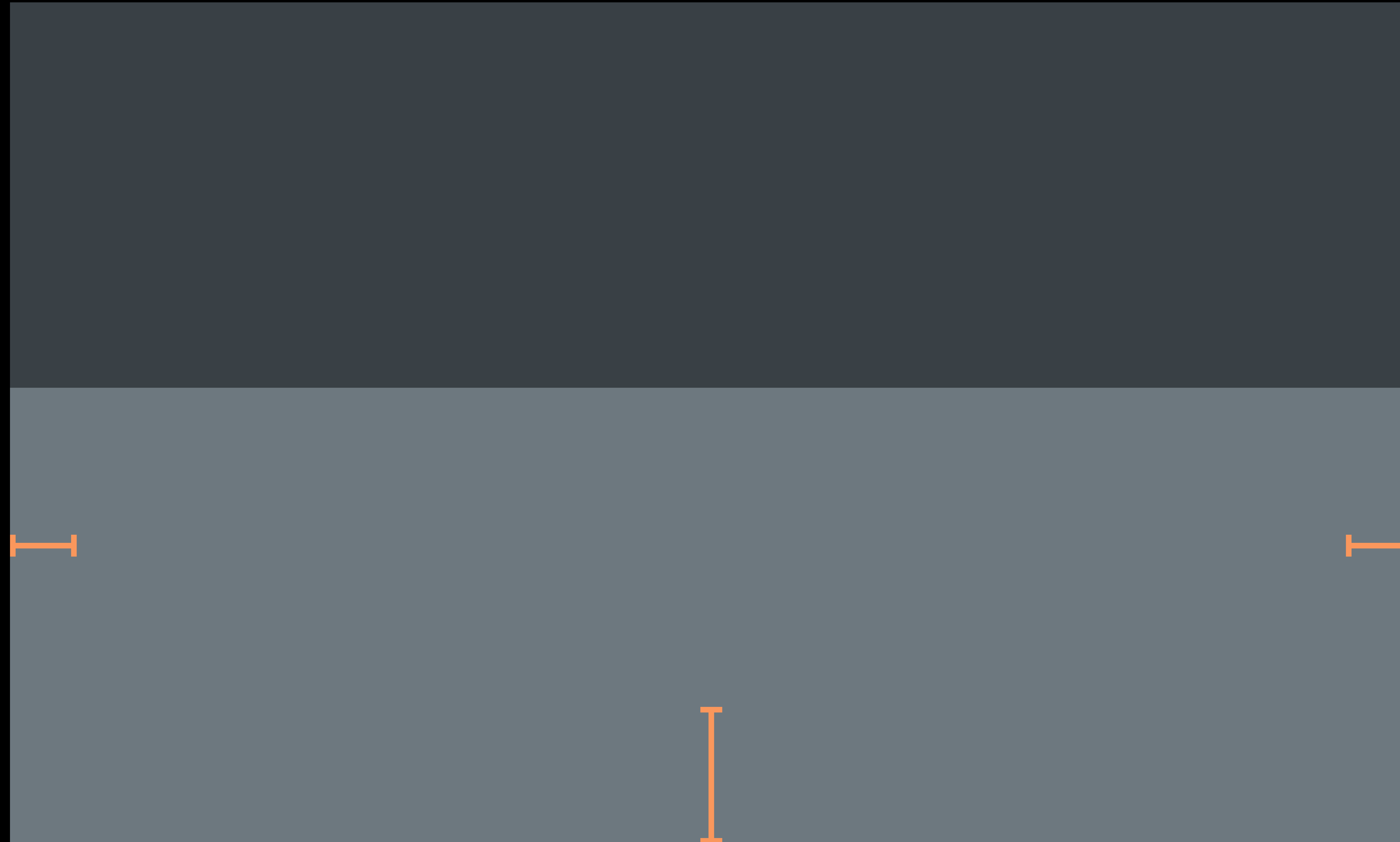
# Safe Area

Subview propagation



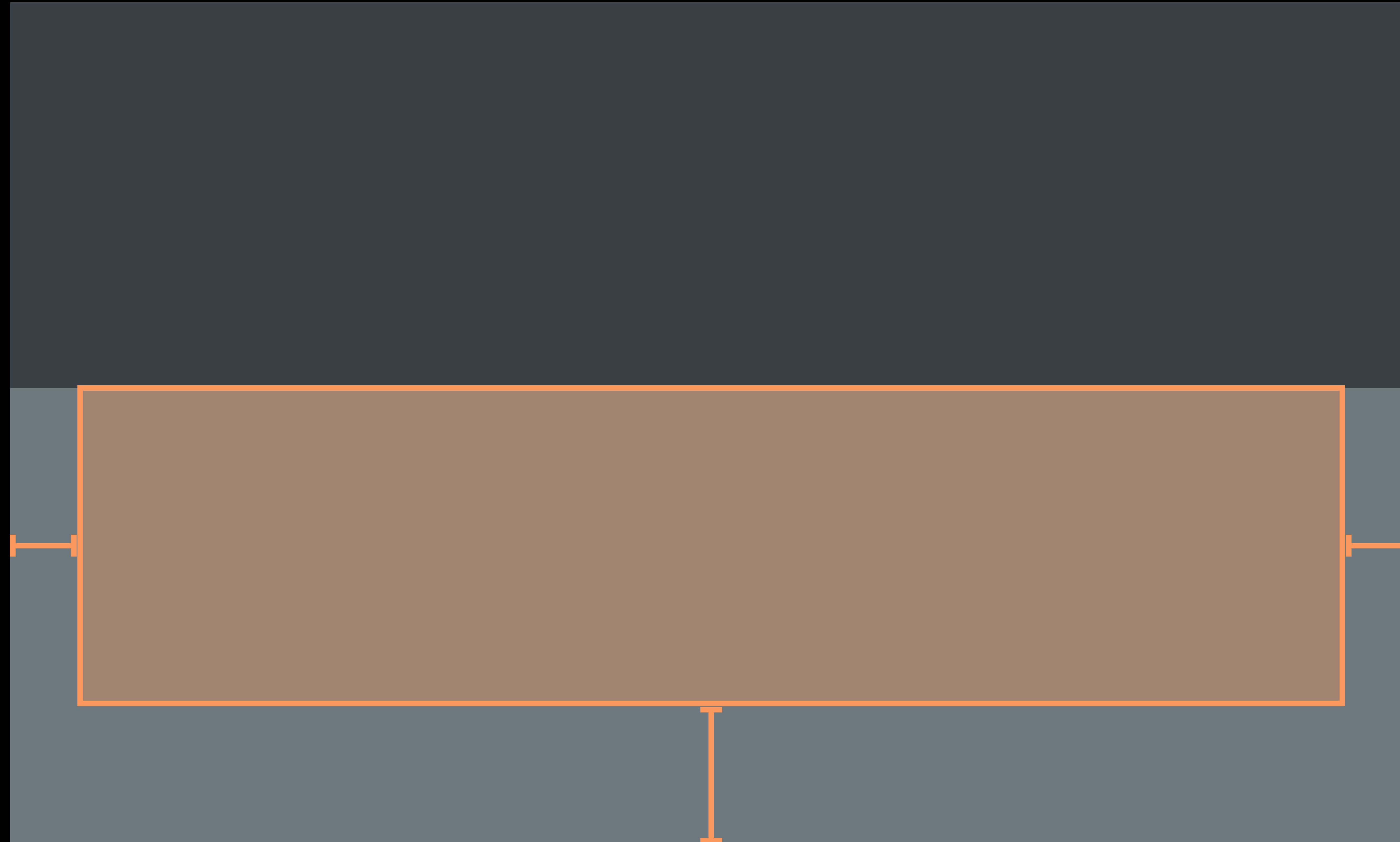
# Safe Area

Subview propagation



# Safe Area

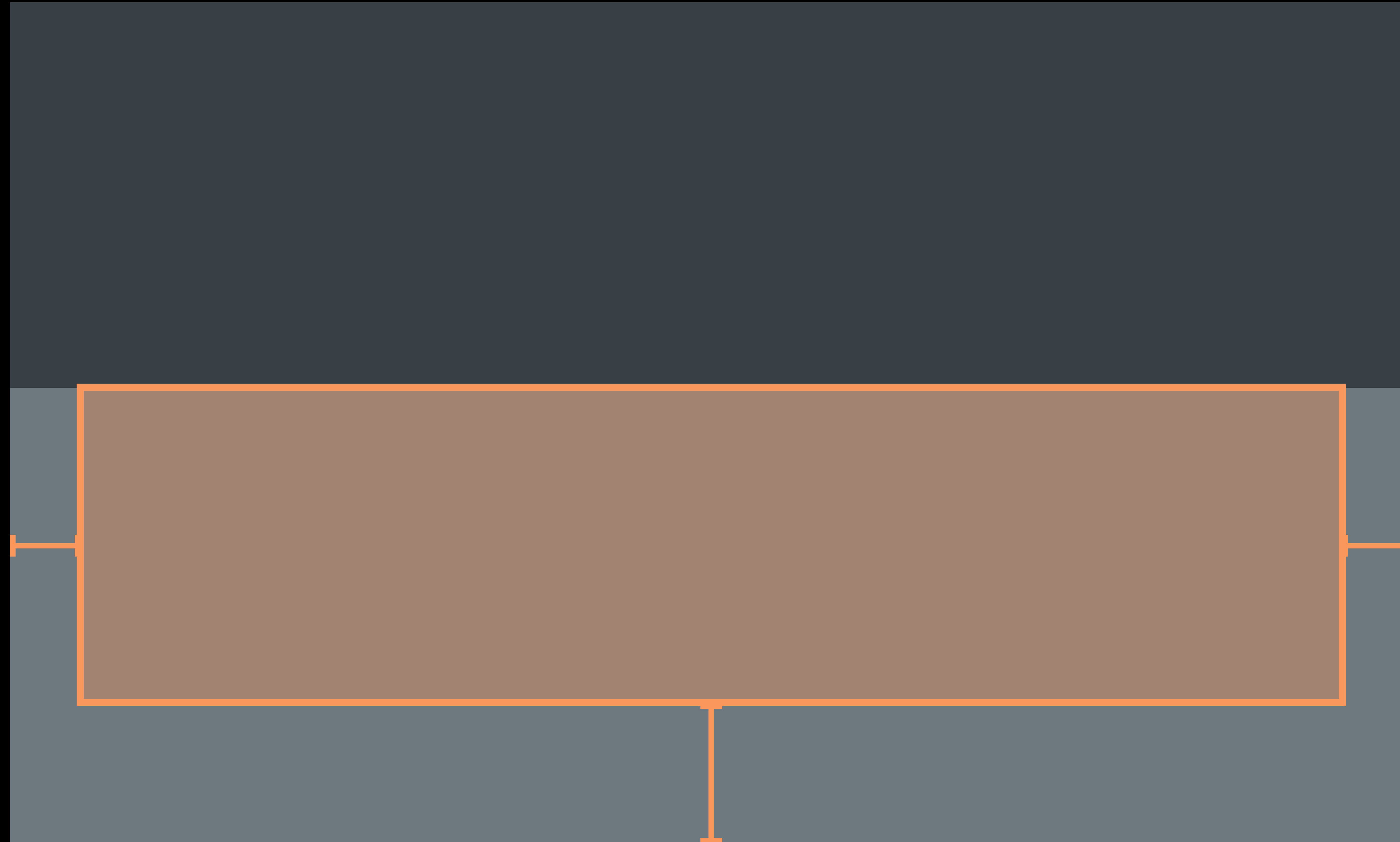
Subview propagation





# Safe Area

Adding insets



# Safe Area

Adding insets



# Safe Area

Adding insets



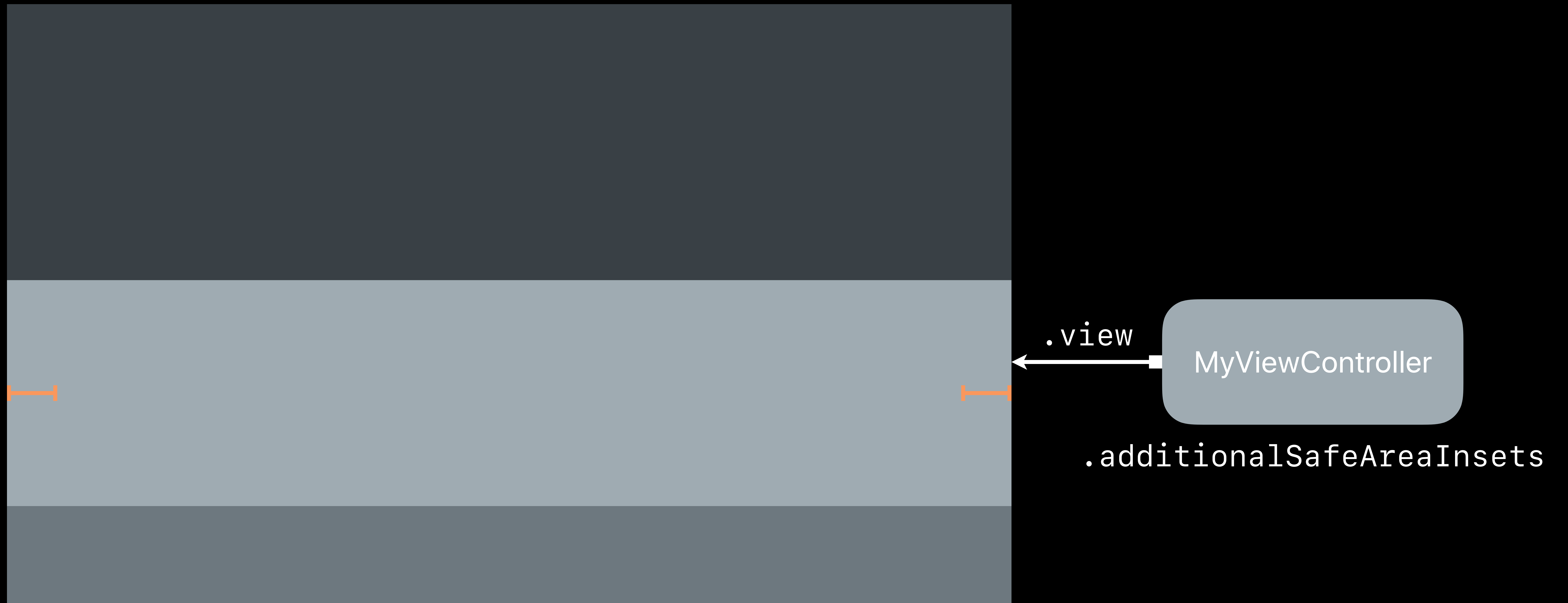
# Safe Area

Adding insets



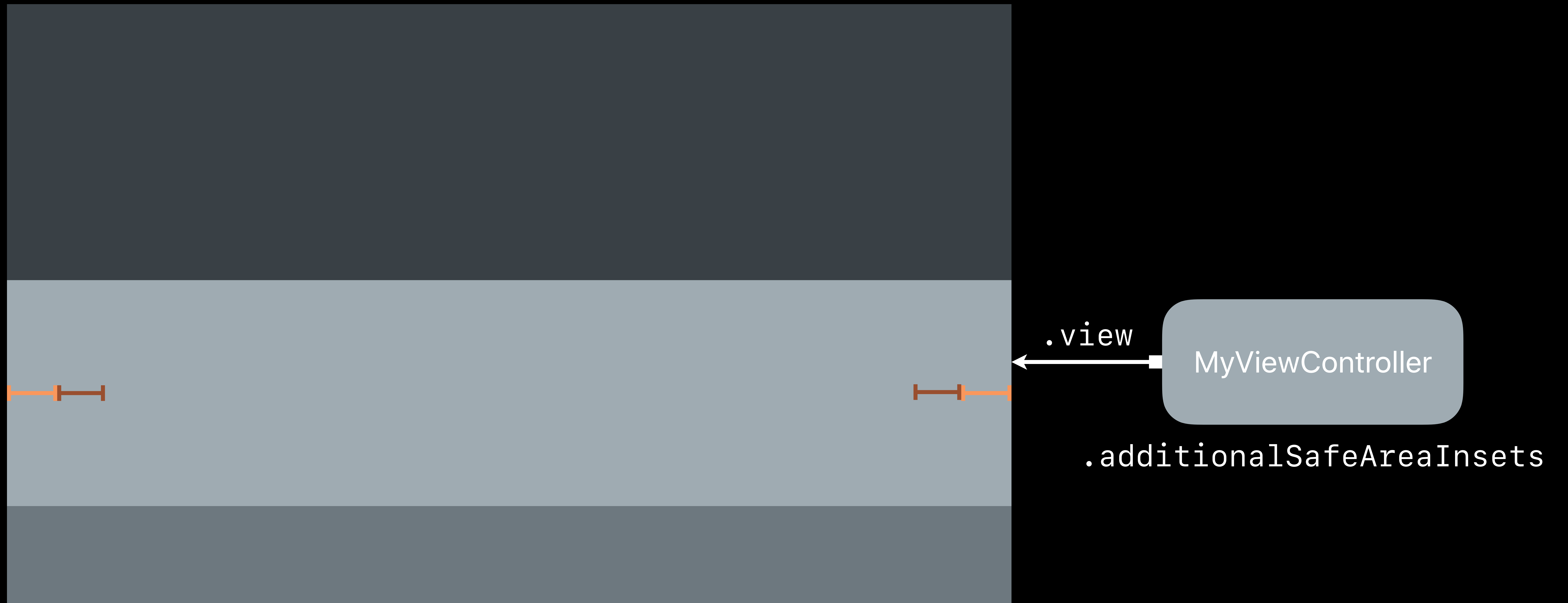
# Safe Area

Adding insets



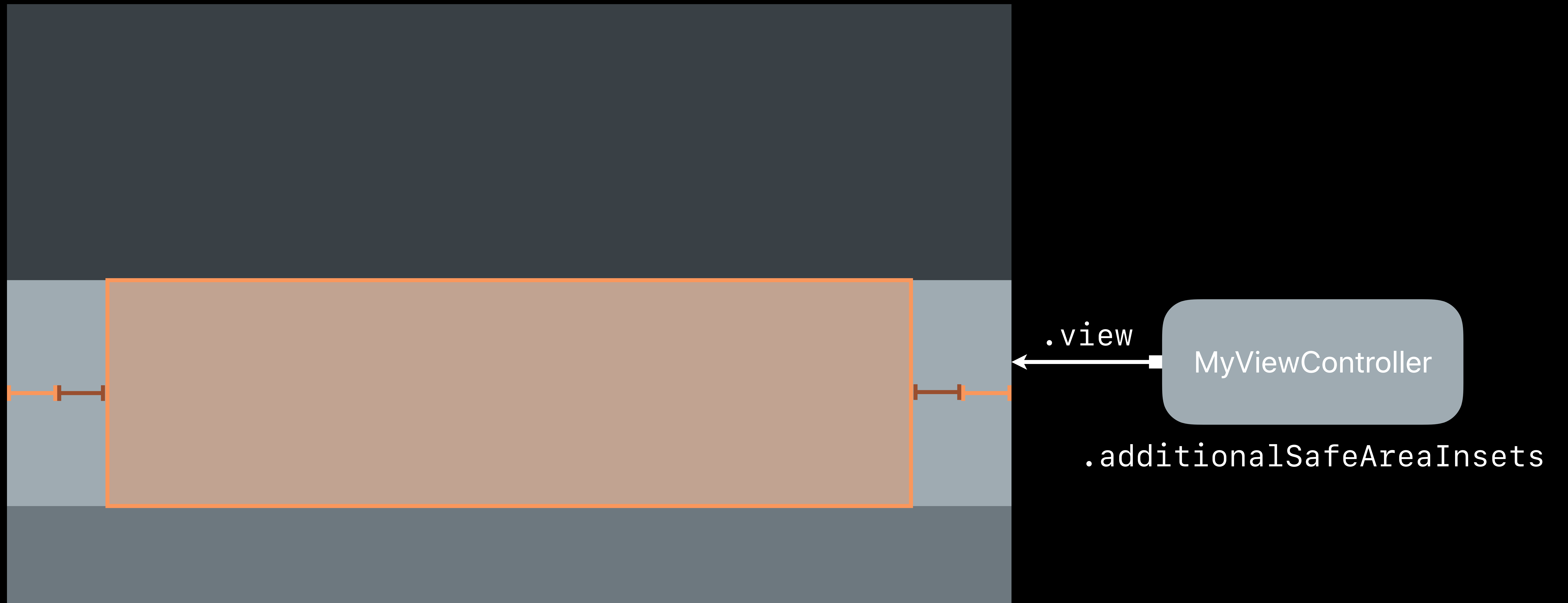
# Safe Area

Adding insets



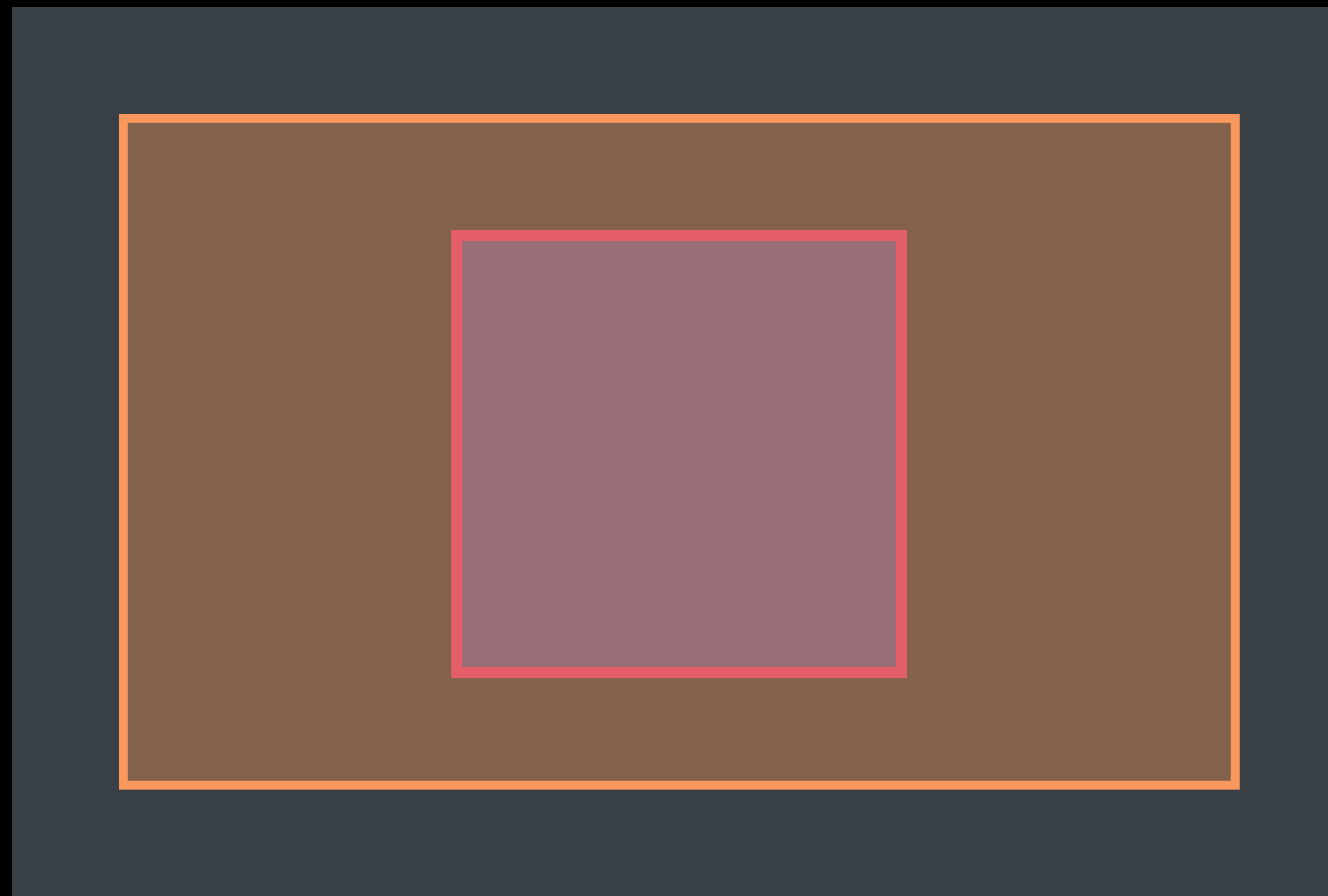
# Safe Area

Adding insets



# Safe Area

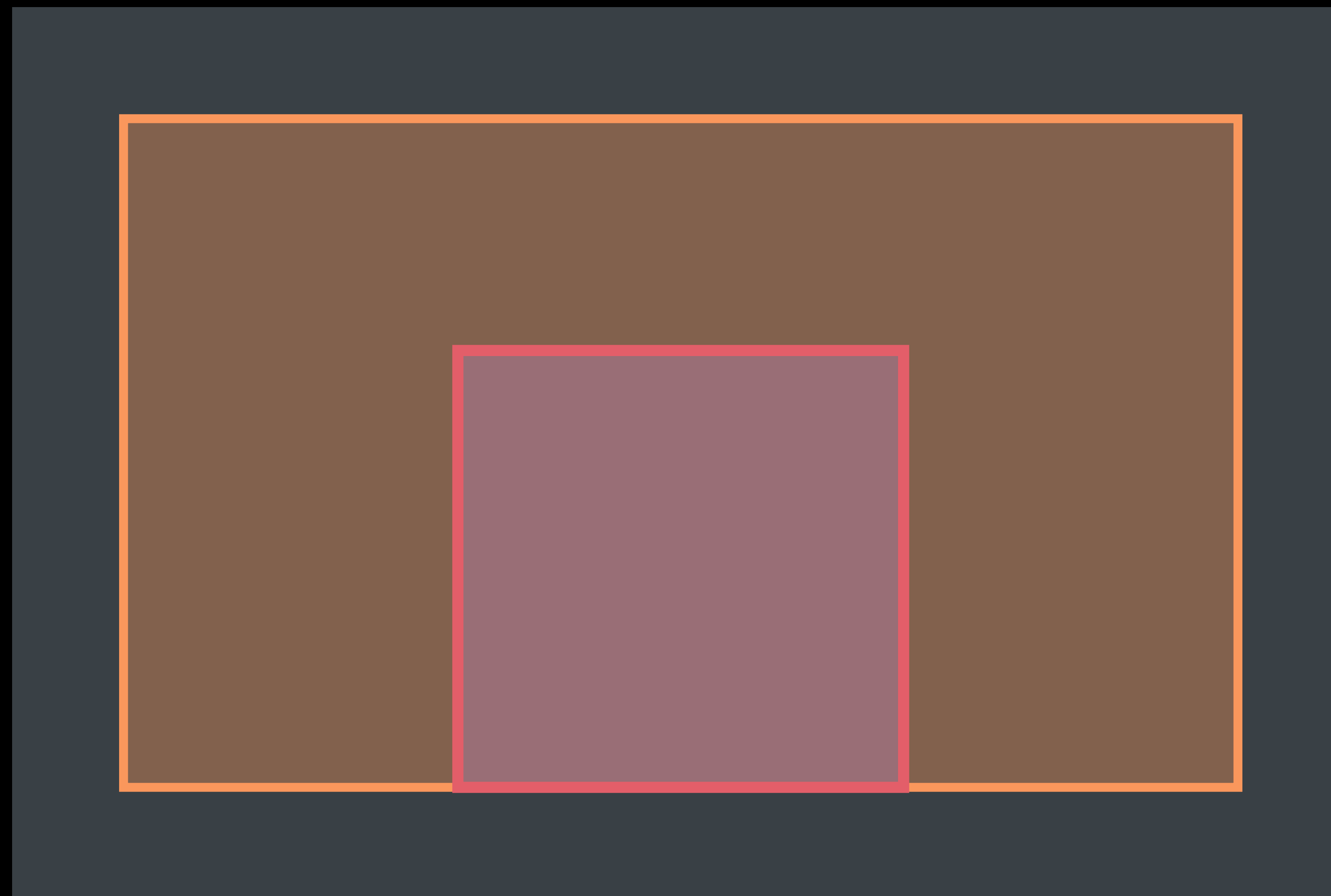
Behavior





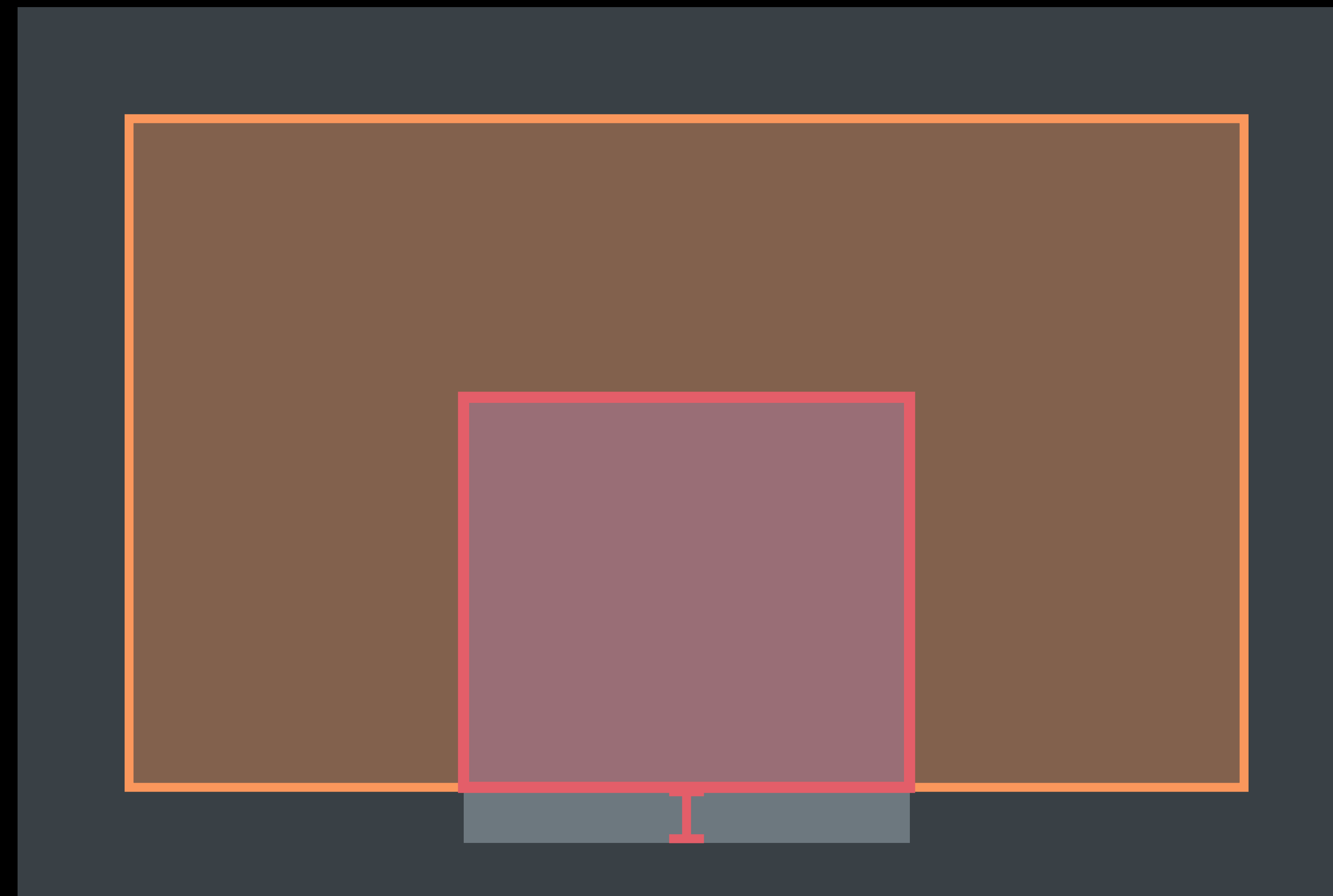
# Safe Area

Behavior



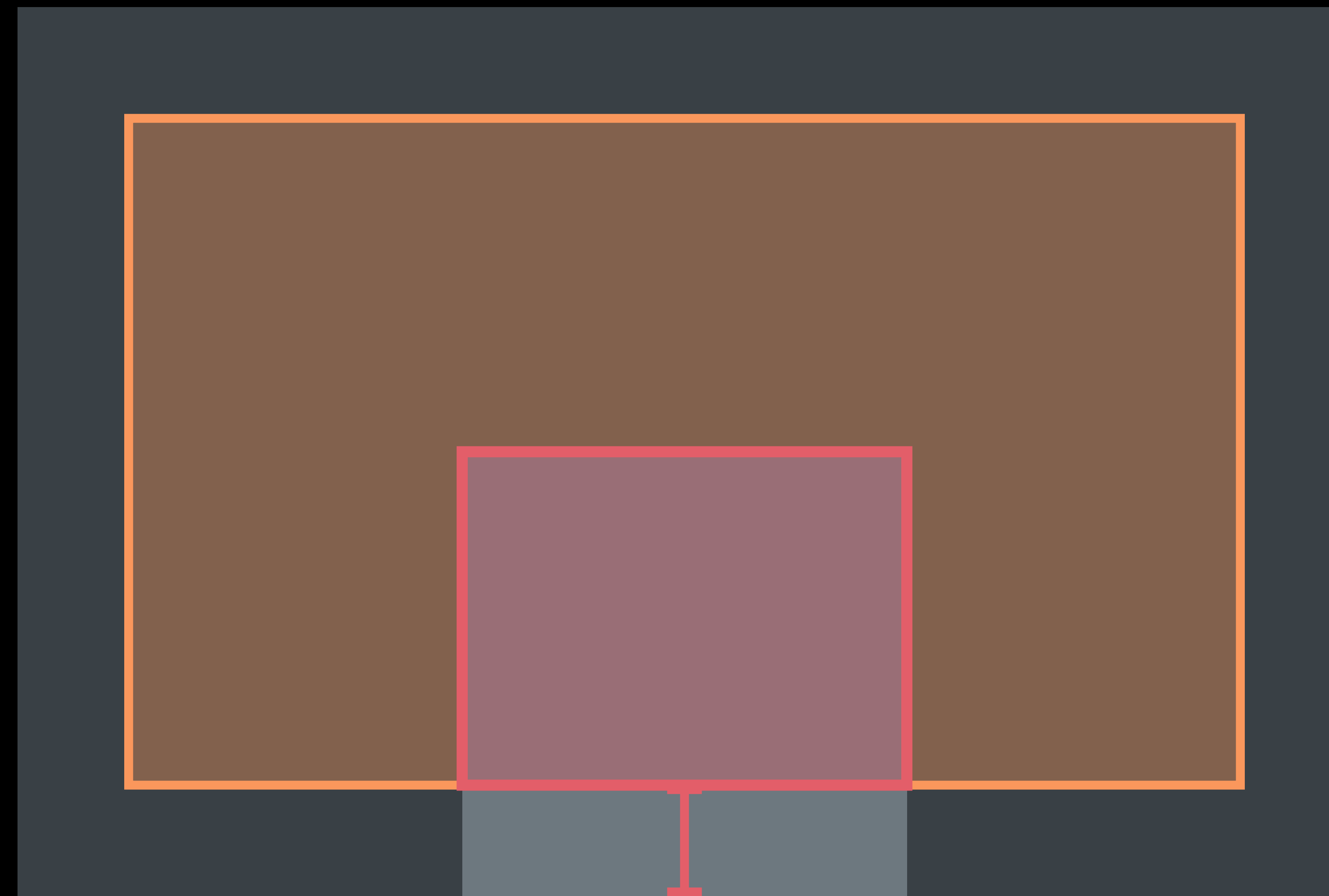
# Safe Area

Behavior



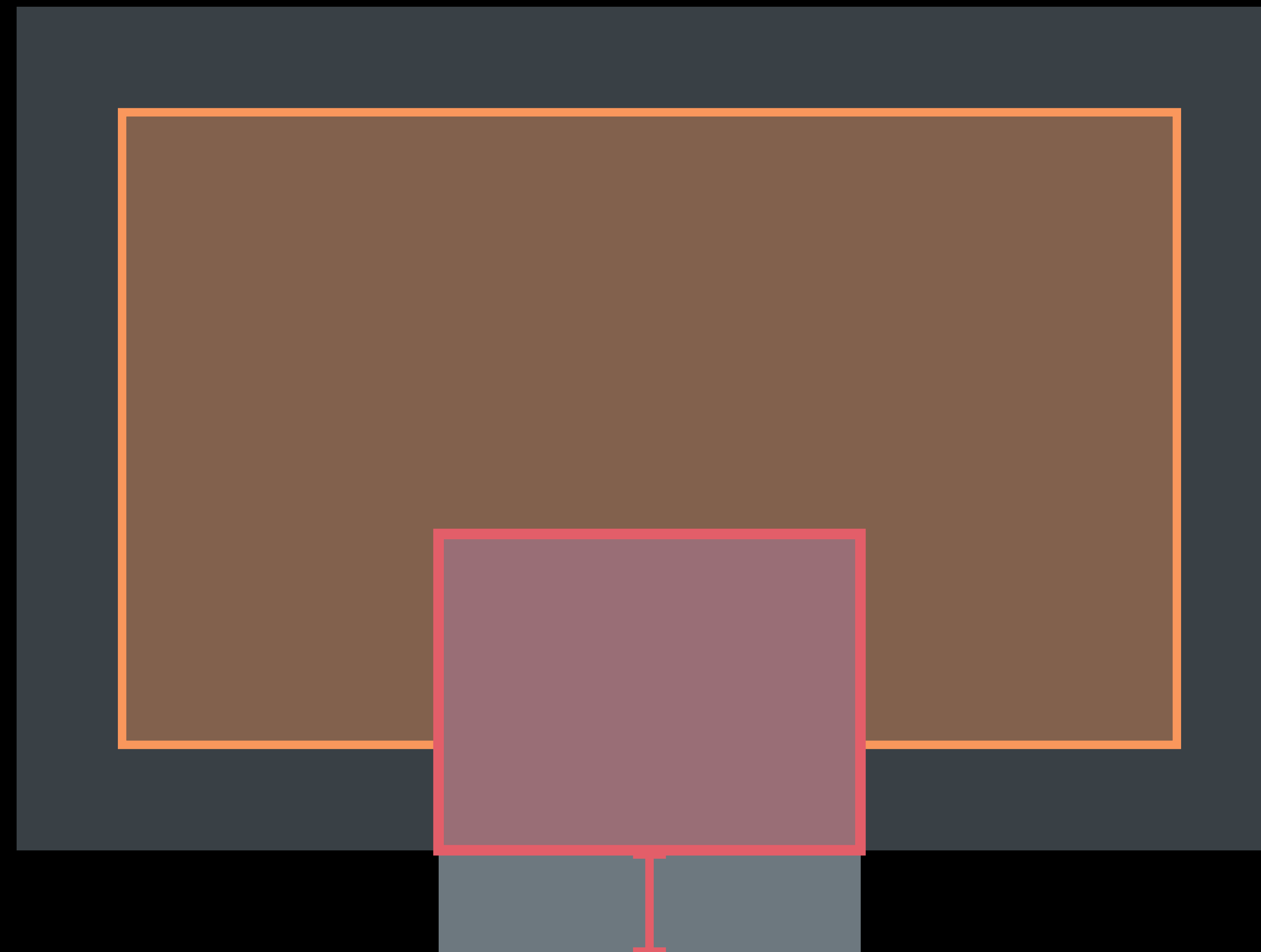
# Safe Area

Behavior



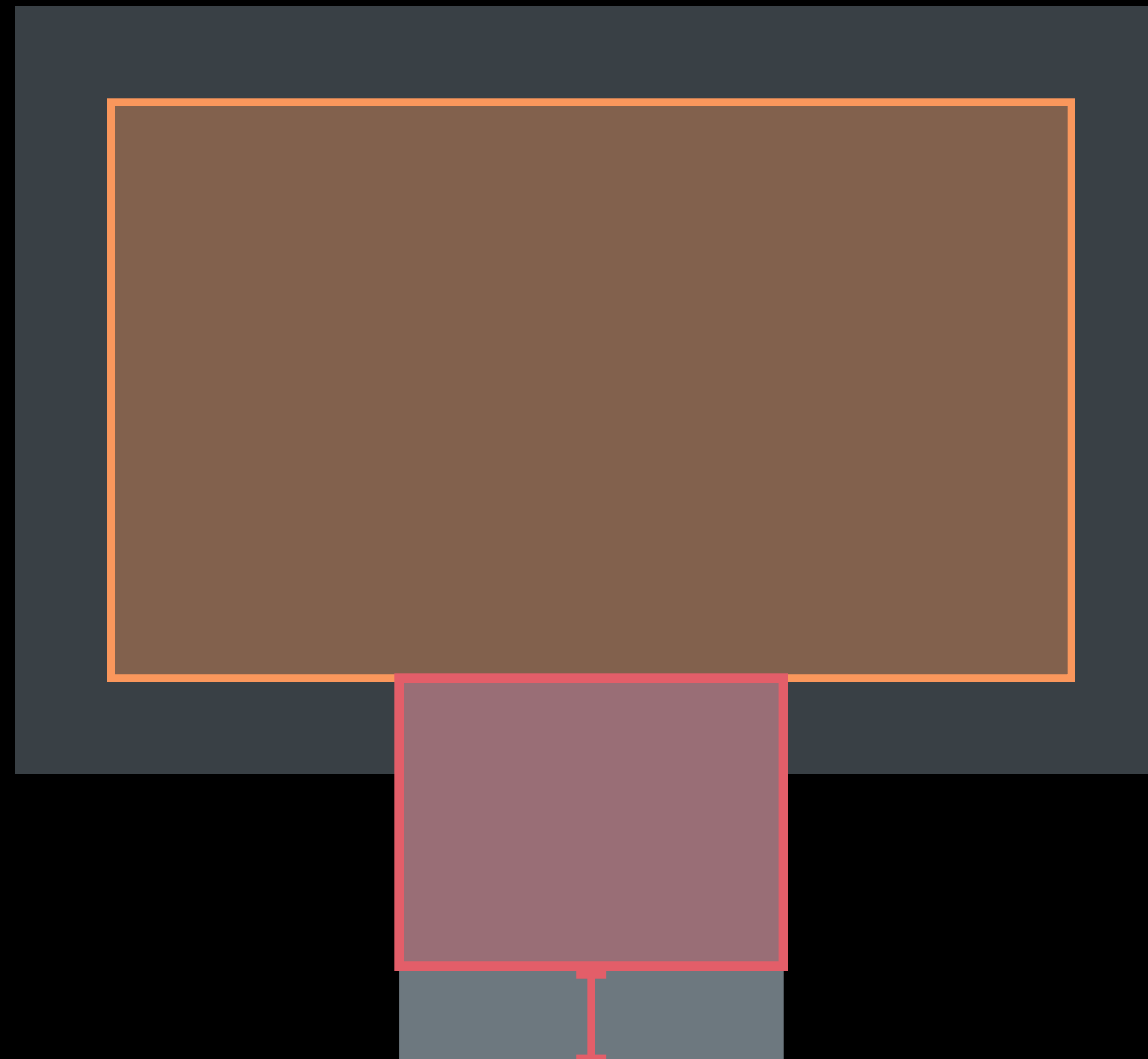
# Safe Area

Behavior



# Safe Area

Behavior



9:41



Browse

## Featured

### Everything Seasoning Recipe

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### Avocado Bagels

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### Montreal or New York?

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Featured



Search

9:41



[Browse](#)

## Featured

### Everything Seasoning Recipe

Lorem ipsum dolor sit amet, consectetur adipiscing elit. Nullam et efficitur nibh. Sed viverra vitae lacus et faucibus. Donec libero mauris, gravida consectetur sodales nec, sollicitudin vel enim. Proin lacinia nisl ac vehi...



### Avocado Bagels

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### Montreal or New York?

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Featured



Search

9:41



Browse

## Featured

### Everything Seasoning Recipe

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### Avocado Bagels

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### Montreal or New York?

Lorem ipsum dolor sit amet, consectetur adipiscing elit. Nullam et efficitur nibh. Sed viverra vitae lacus et faucibus. Donec libero mauris, gravida consectetur sodales nec, sollicitudin vel enim. Proin lacinia nisl ac vehi...



Featured



Search



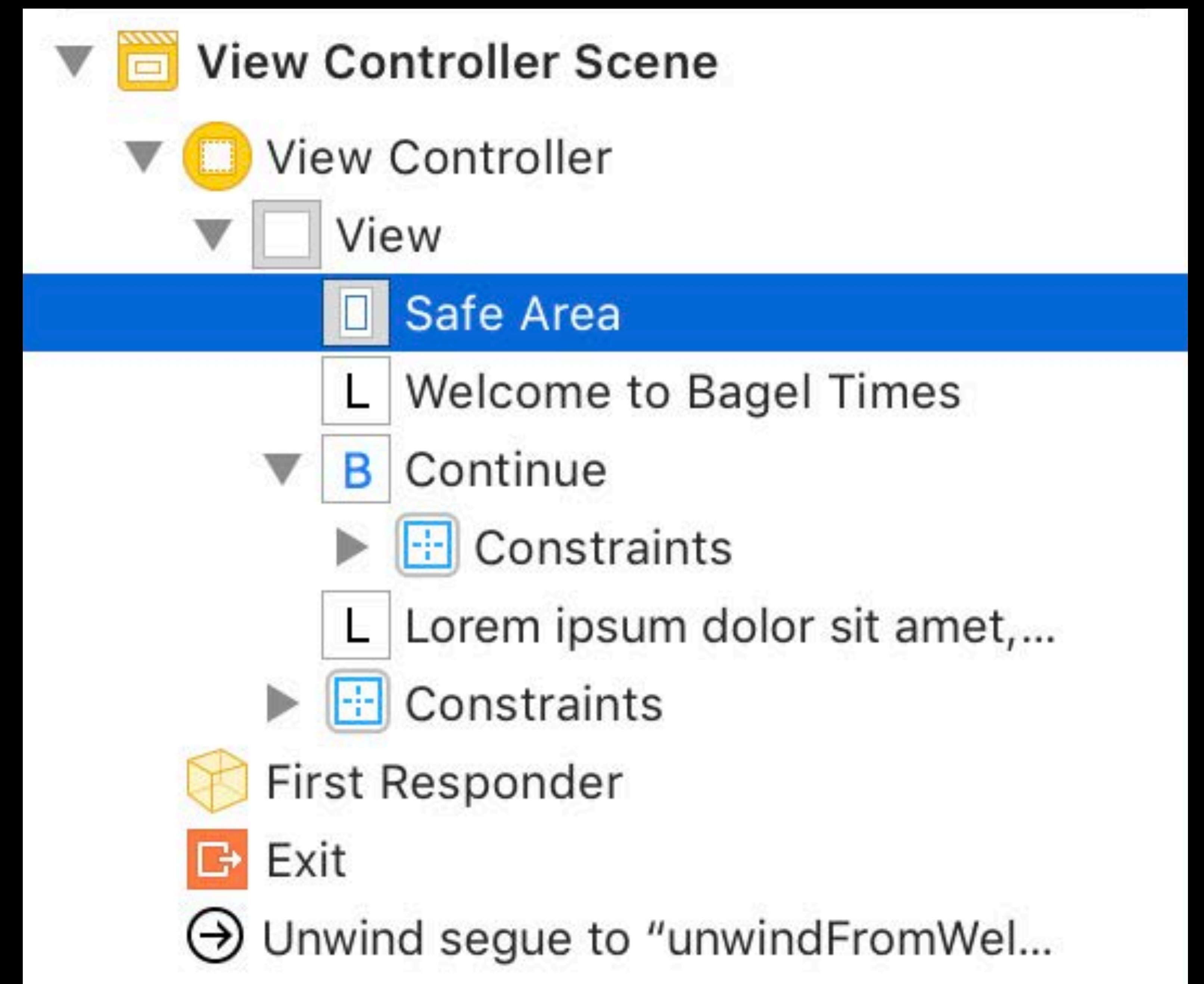
# Using Safe Area

## UIView

```
.safeAreaInsets  
.safeAreaLayoutGuide  
.safeAreaInsetsDidChange()
```

## UIViewController

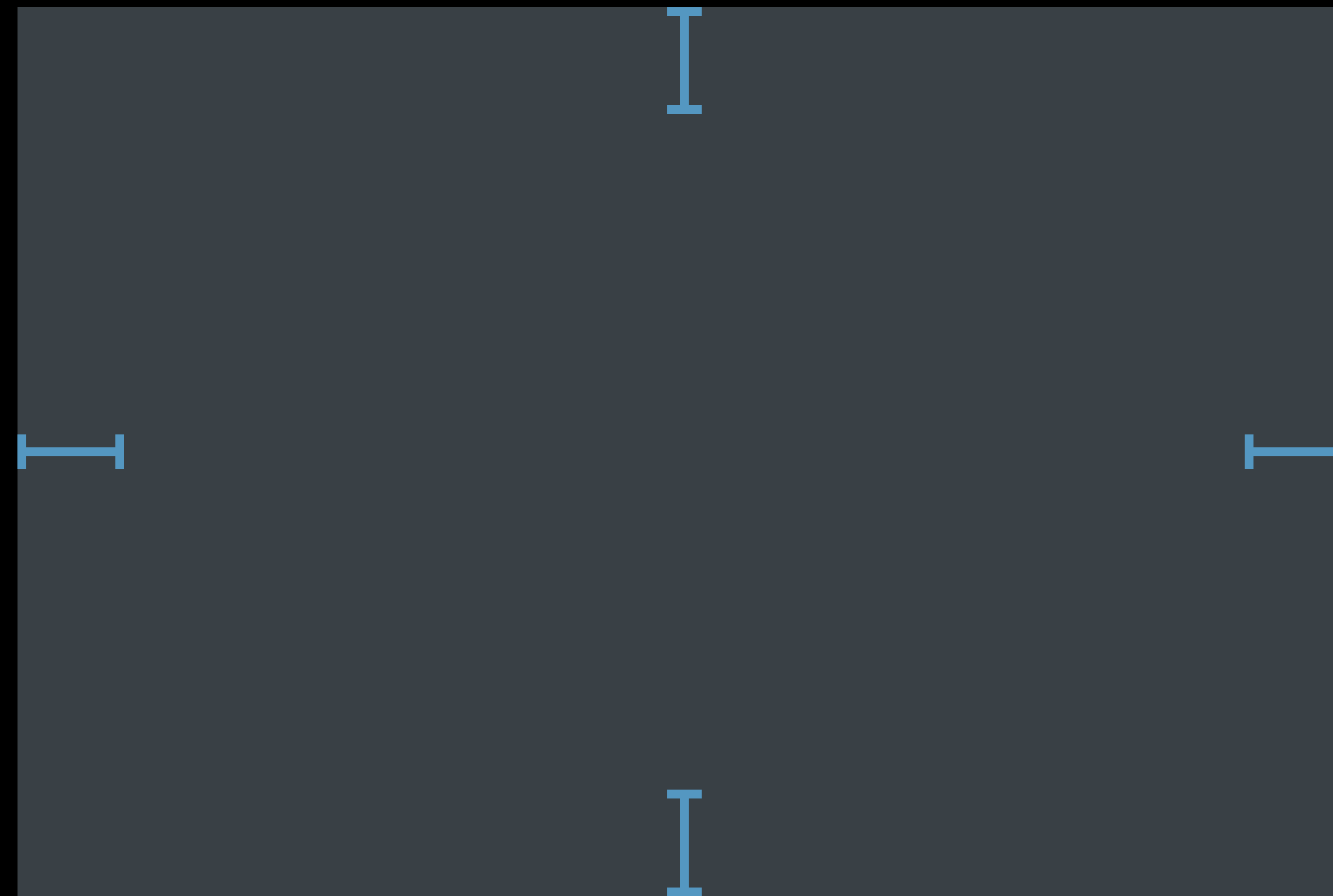
```
.viewSafeAreaInsetsDidChange()
```



# Layout Margins

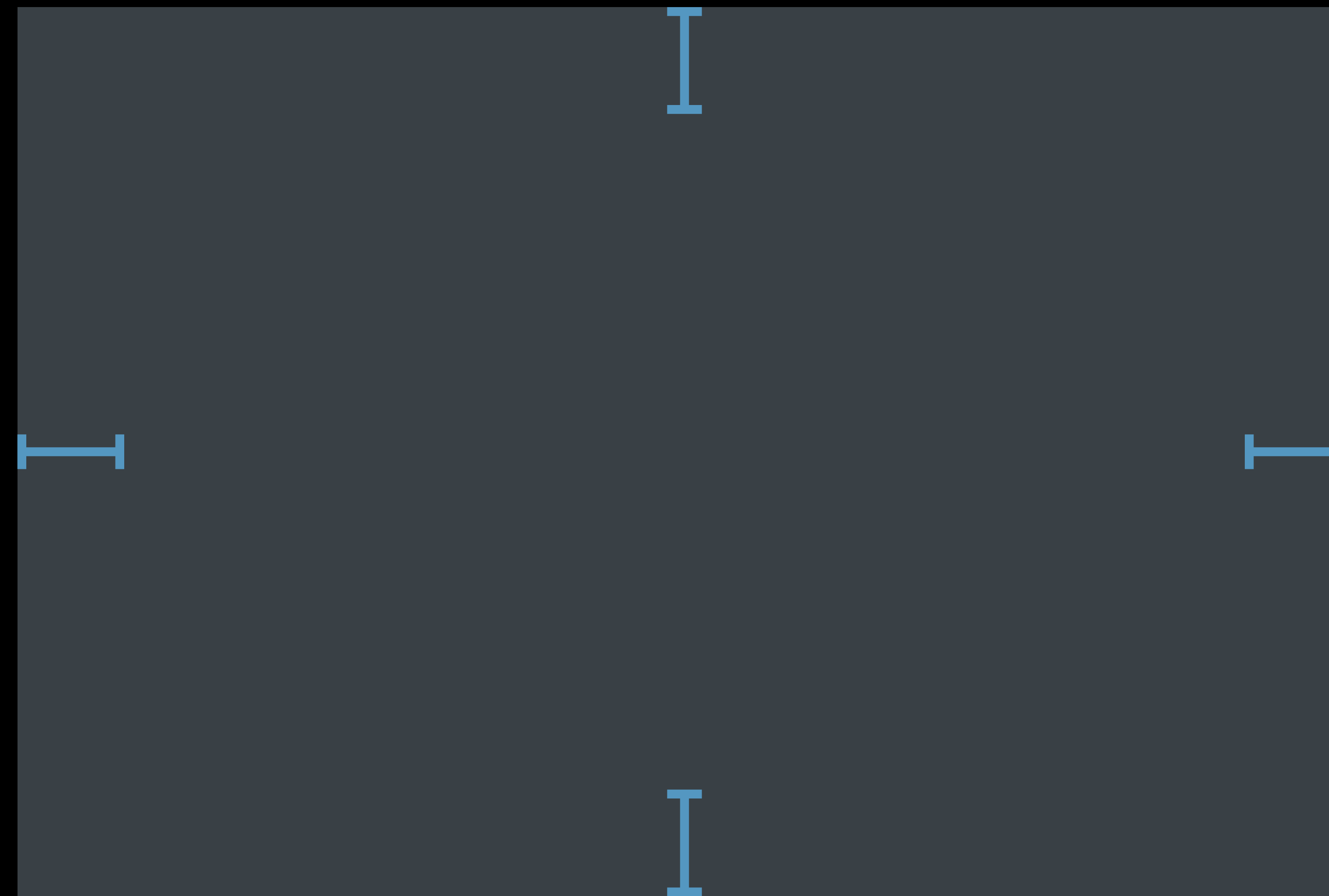


# Layout Margins



`.layoutMargins`

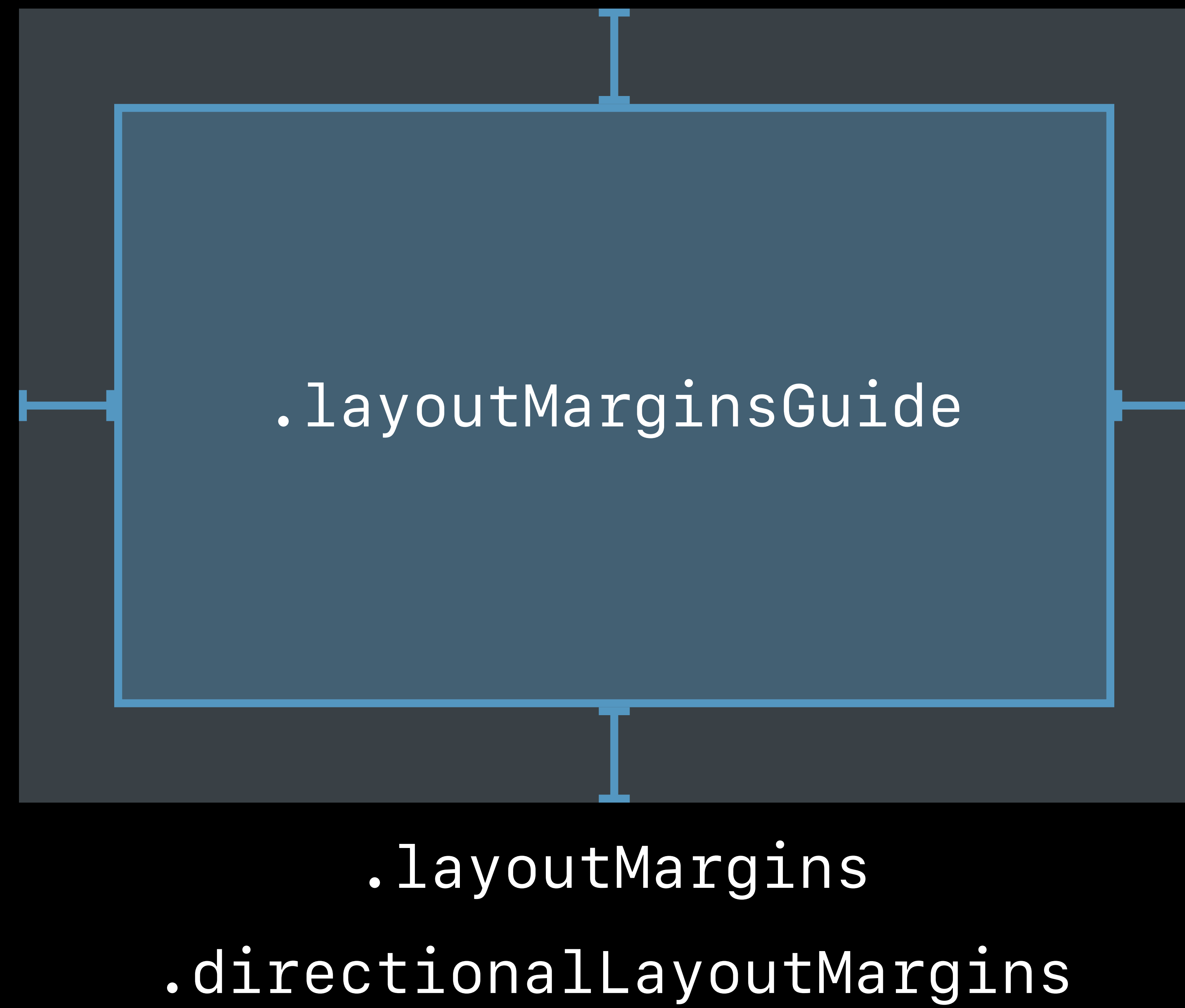
# Layout Margins



`.layoutMargins`

`.directionalLayoutMargins`

# Layout Margins



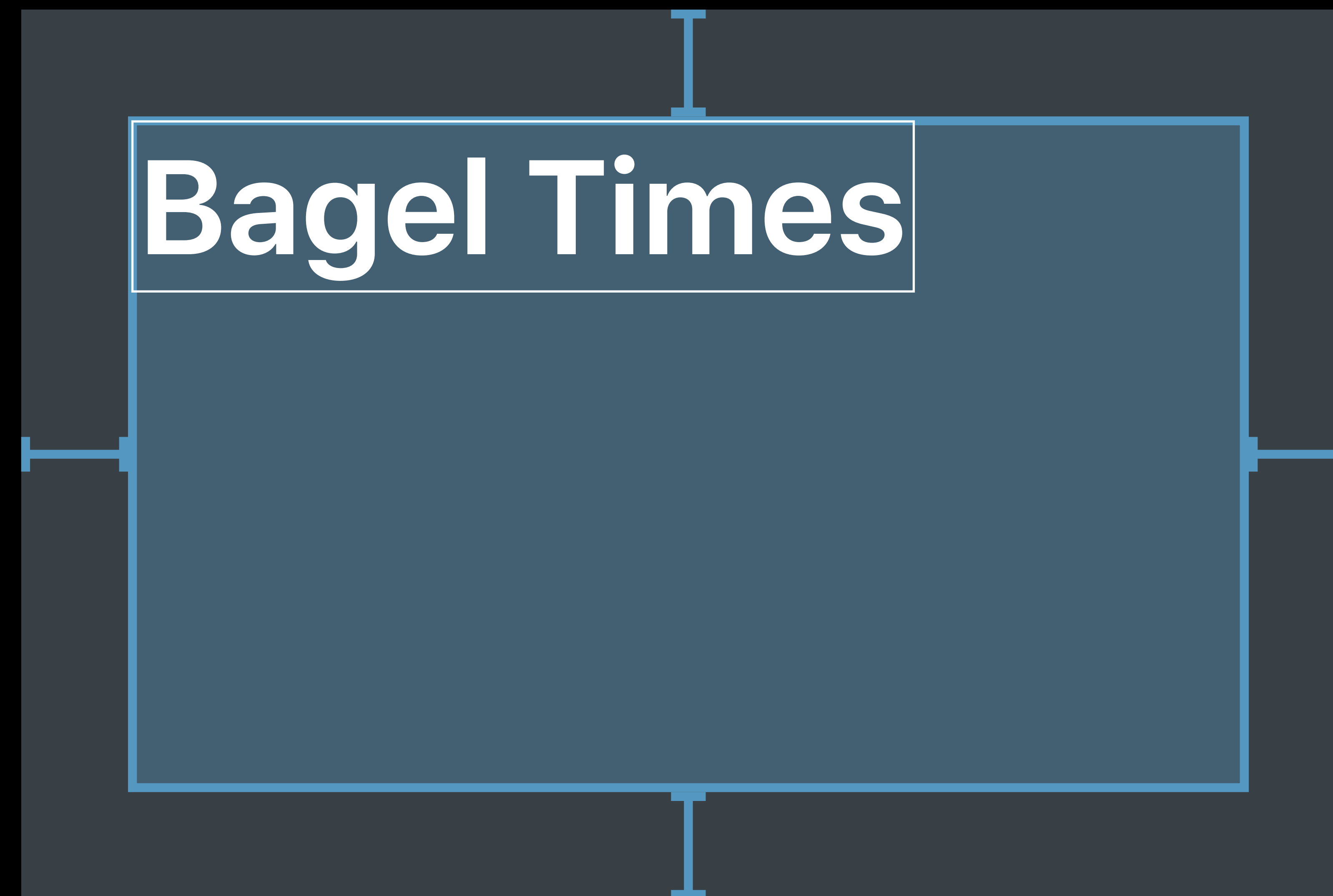
# Layout Margins



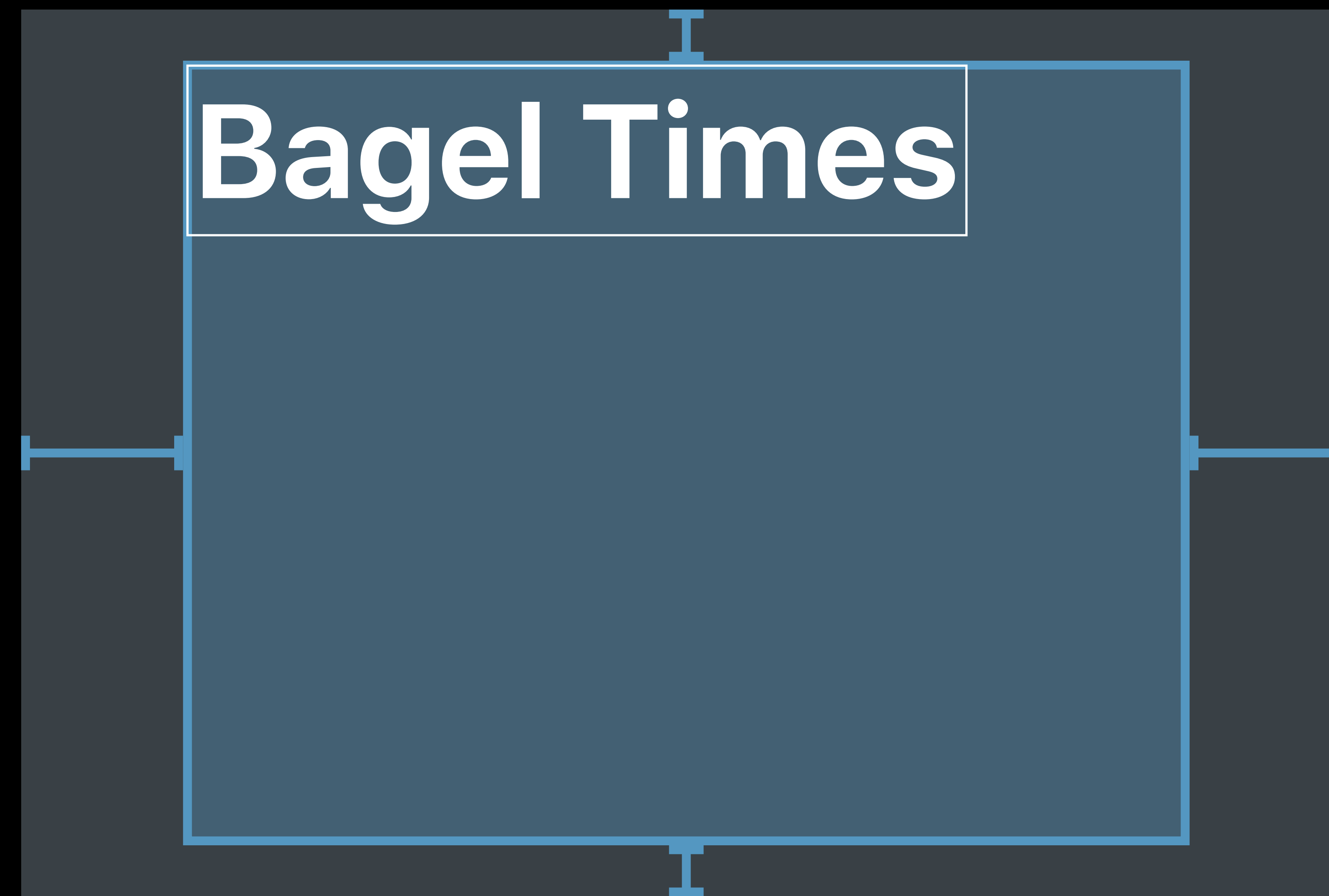
Bagel Times

The diagram shows a dark gray rectangular container. Inside this container, there is a smaller, light blue rectangular area. The text 'Bagel Times' is positioned in the top-left corner of the light blue area. The space between the text and the right and bottom edges of the light blue area represents the layout margins.

# Layout Margins



# Layout Margins





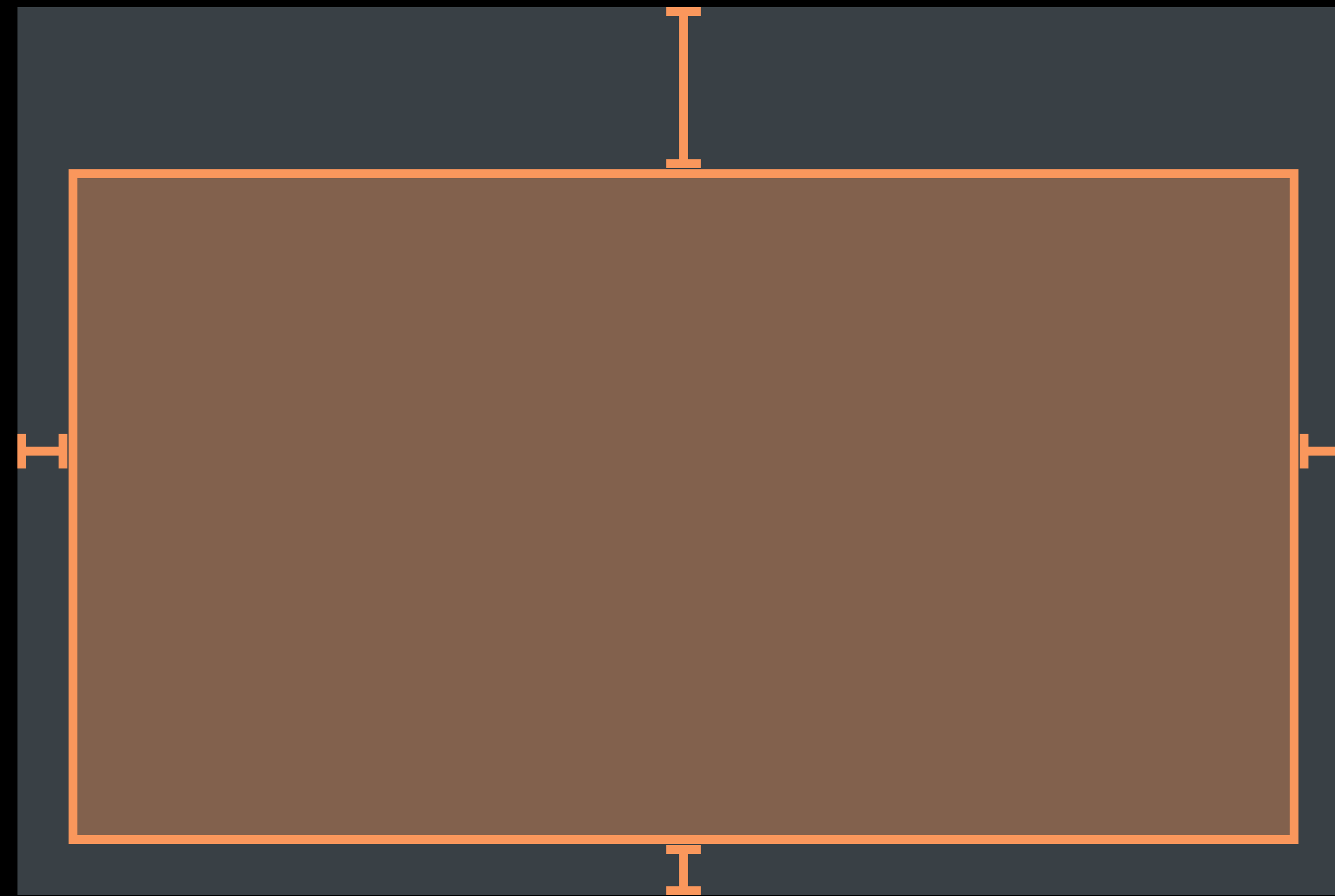
# Layout Margins

And Safe Area



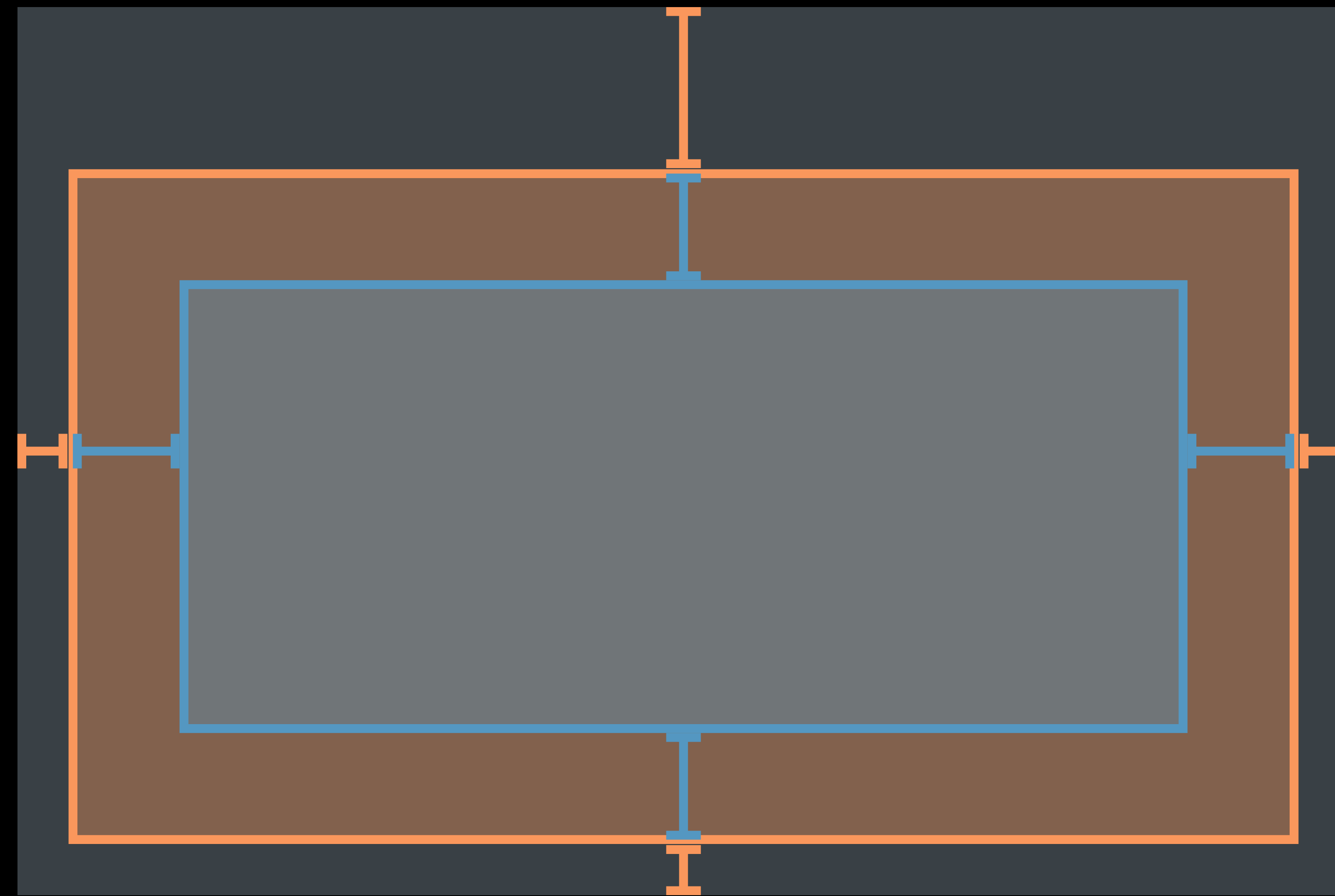
# Layout Margins

And Safe Area



# Layout Margins

And Safe Area



# Layout Margins

And Safe Area



# Layout Margins

And Safe Area



```
.insetsLayoutMarginsFromSafeArea = true
```

# Layout Margins

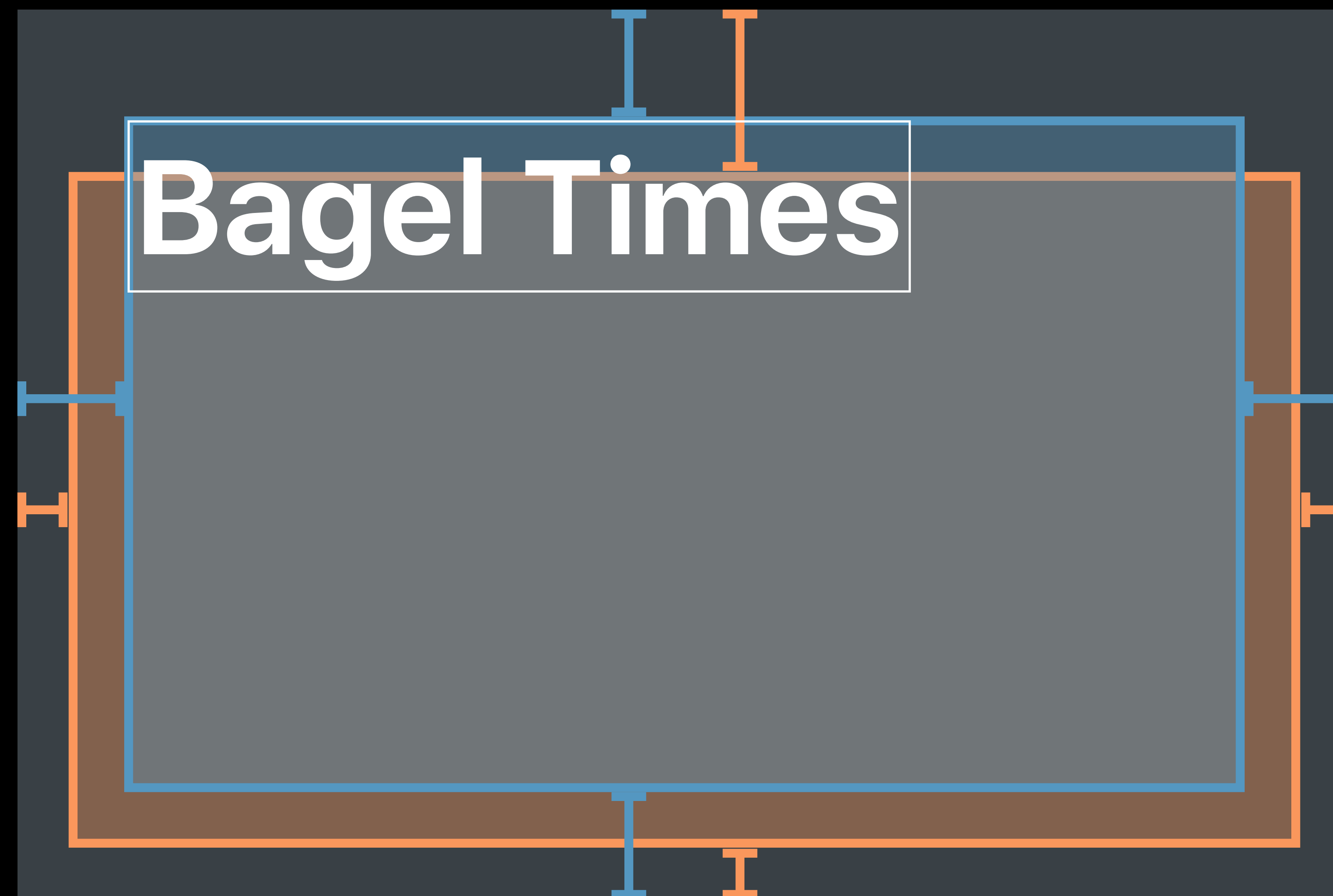
And Safe Area



```
.insetsLayoutMarginsFromSafeArea = false
```

# Layout Margins

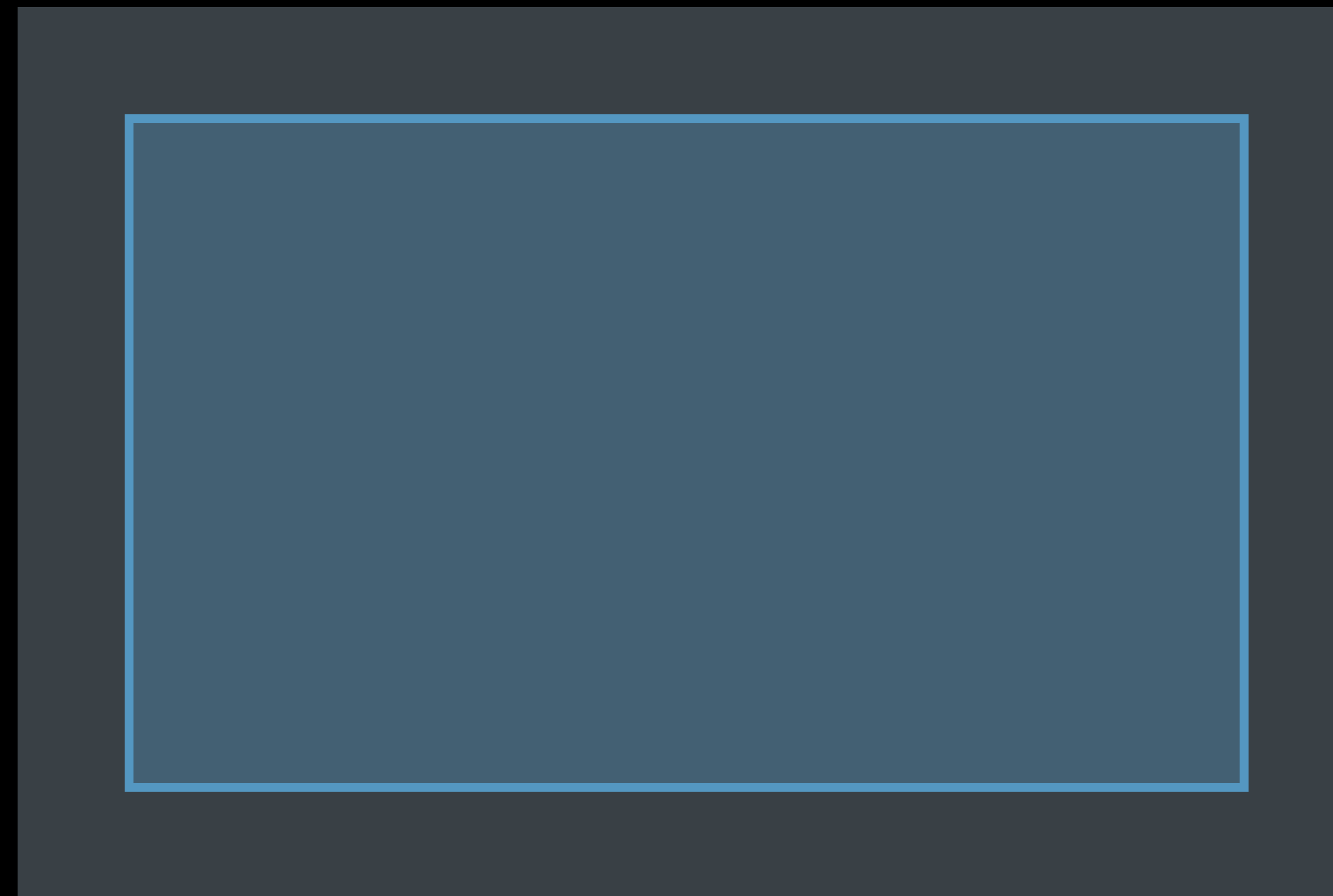
And Safe Area



```
.insetsLayoutMarginsFromSafeArea = false
```

# Layout Margins

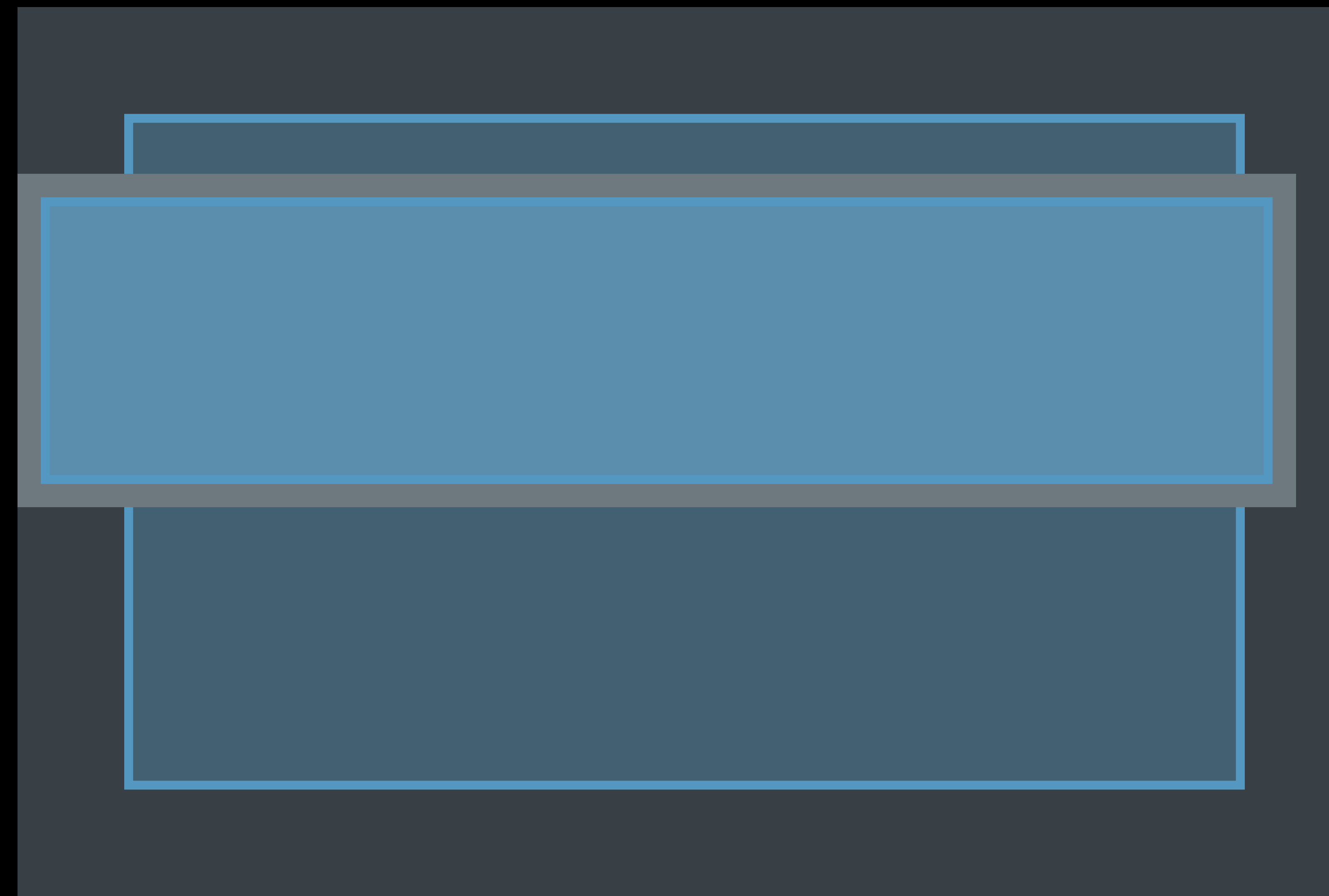
Subview propagation





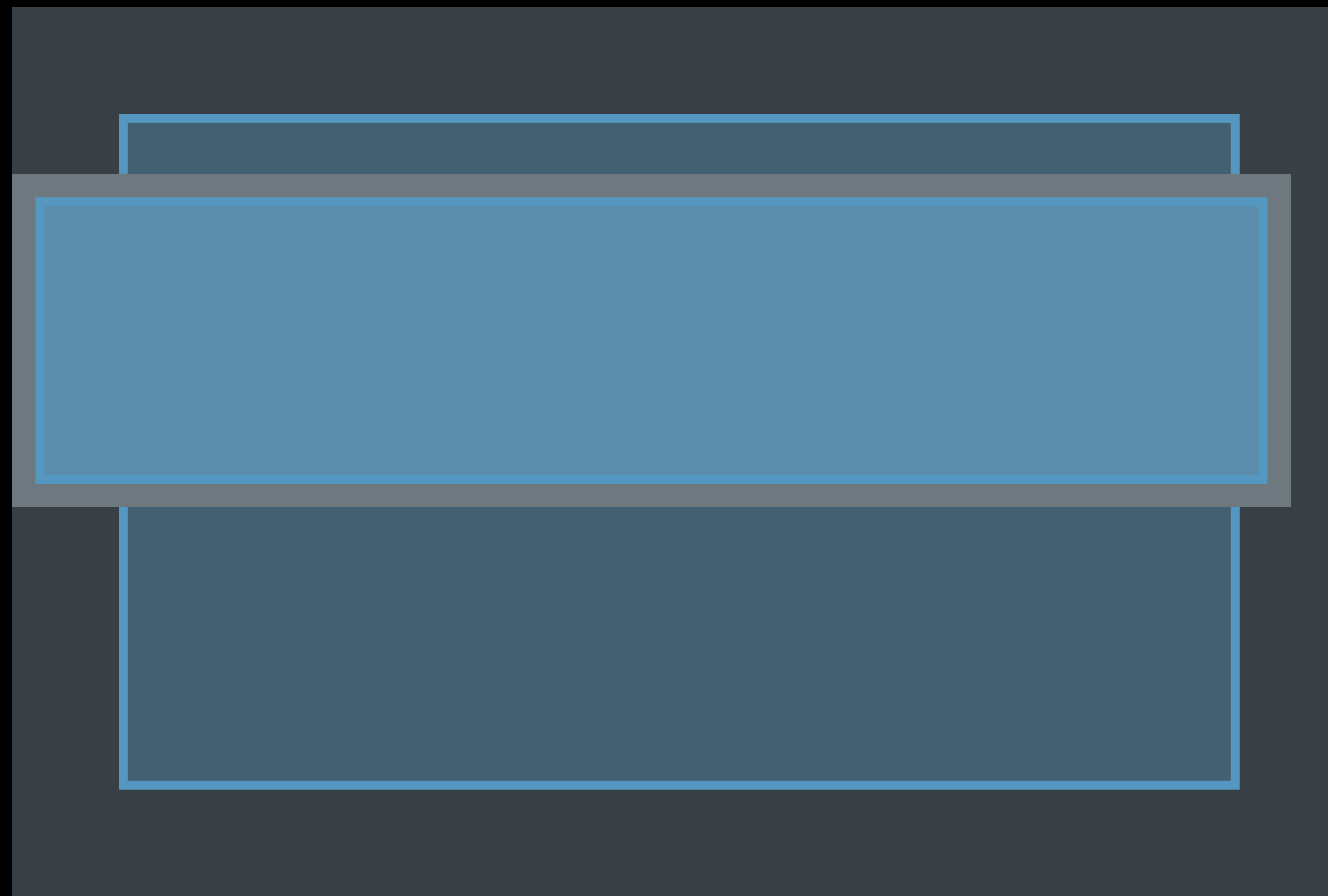
# Layout Margins

Subview propagation



# Layout Margins

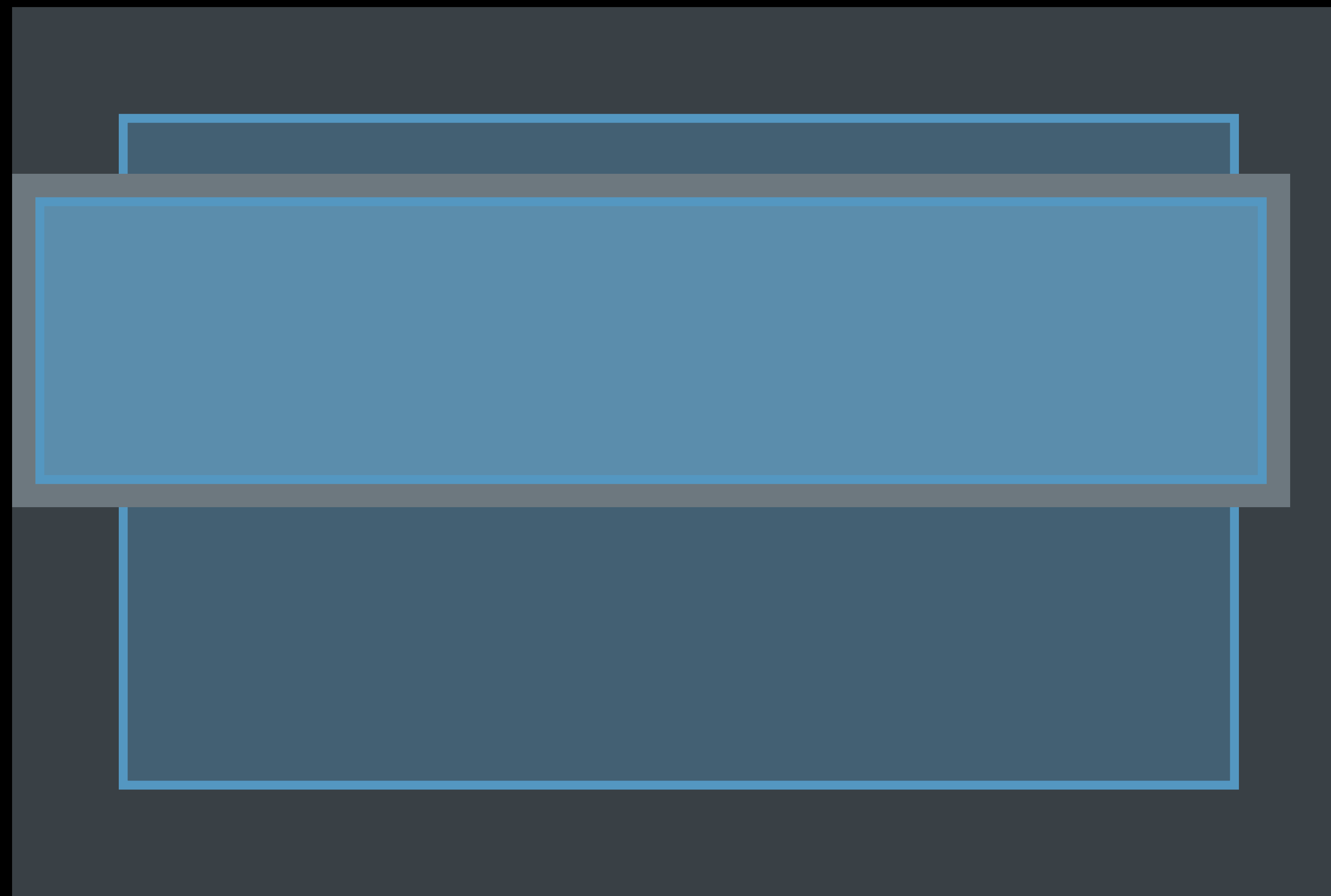
Subview propagation



```
.preservesSuperviewLayoutMargins = false
```

# Layout Margins

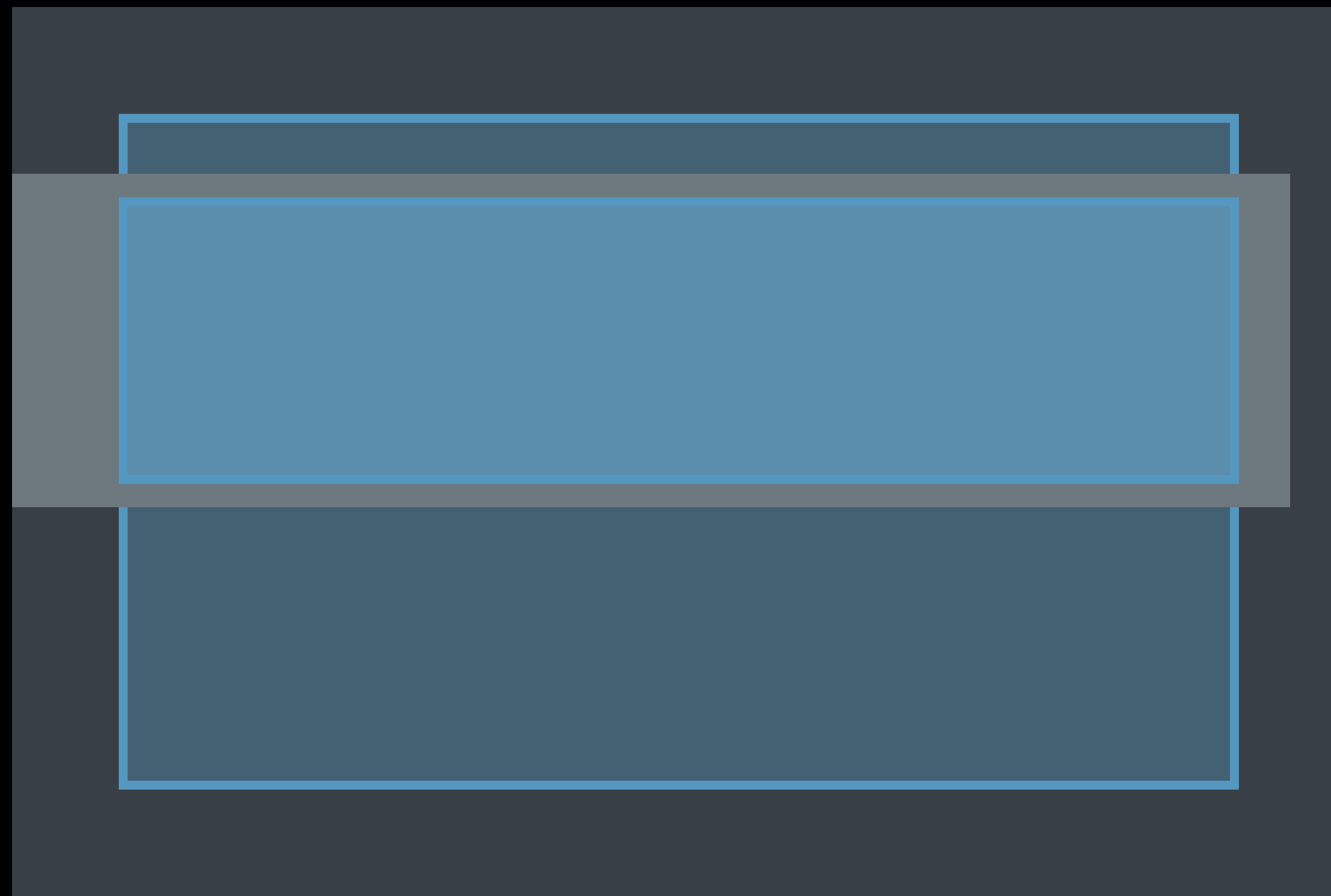
Subview propagation



```
.preservesSuperviewLayoutMargins = true
```

# Layout Margins

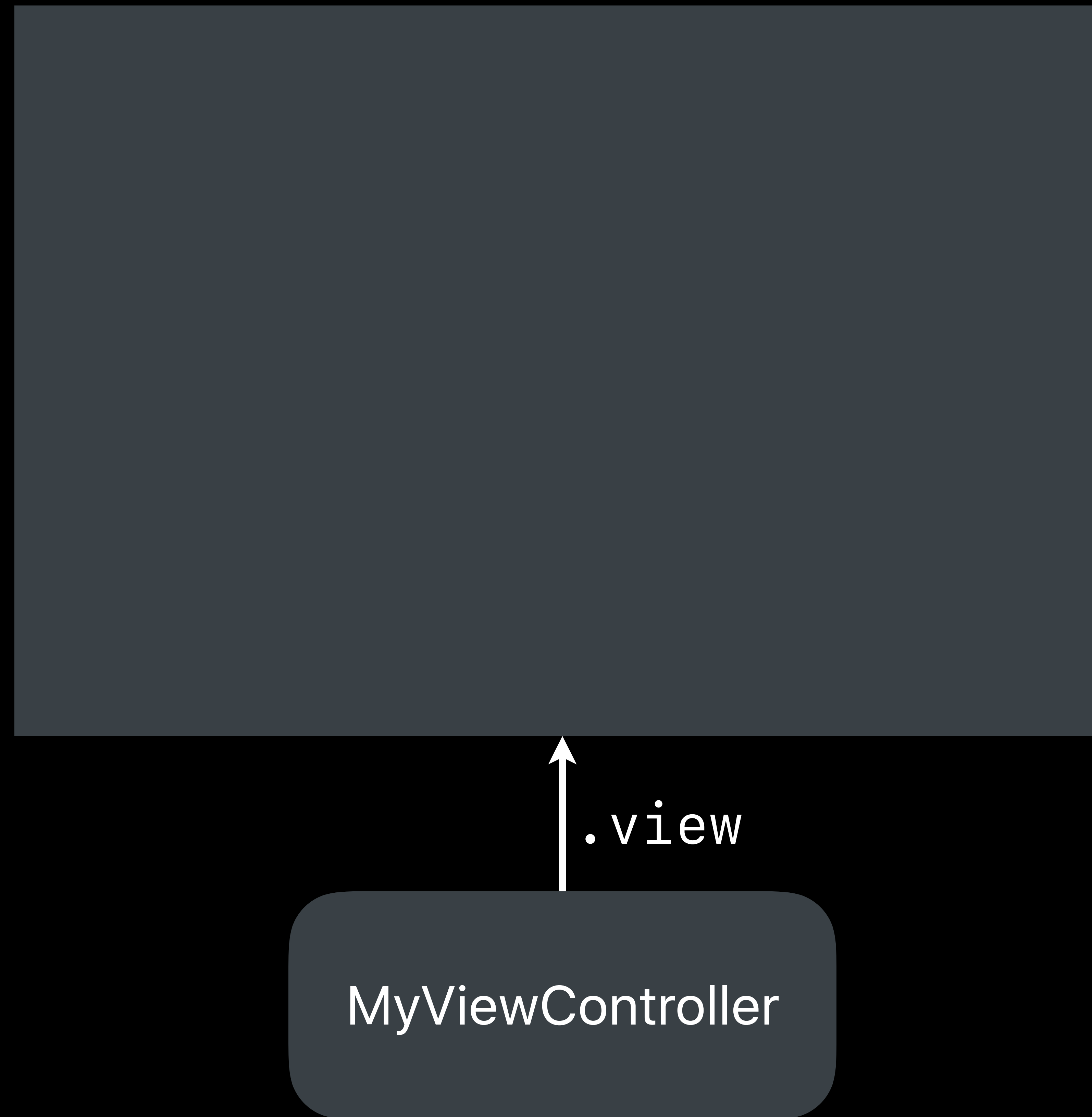
Subview propagation



```
.preservesSuperviewLayoutMargins = true
```

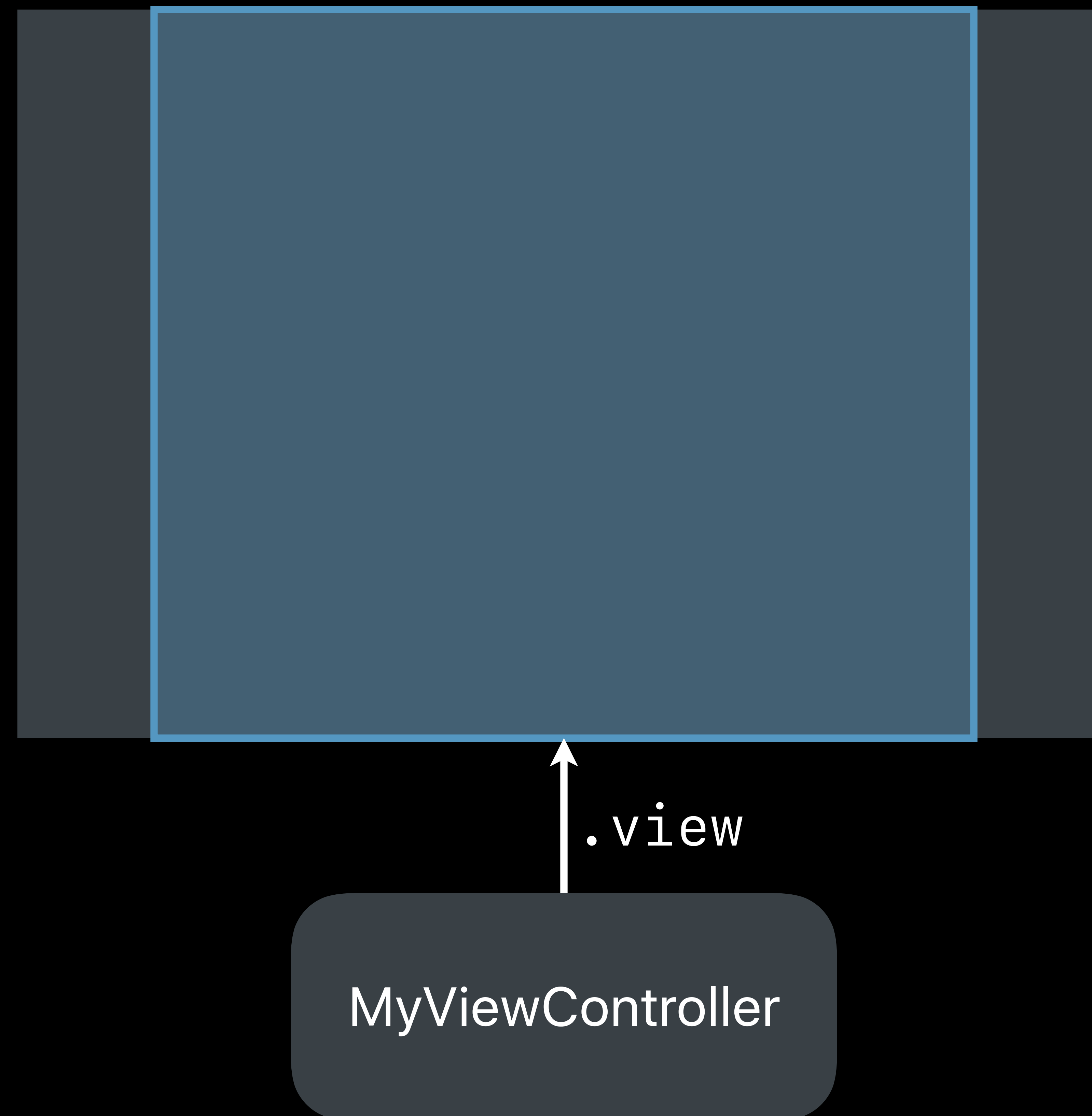
# Layout Margins

UIViewController and system margins



# Layout Margins

UIViewController and system margins



# Layout Margins

UIViewController and system margins



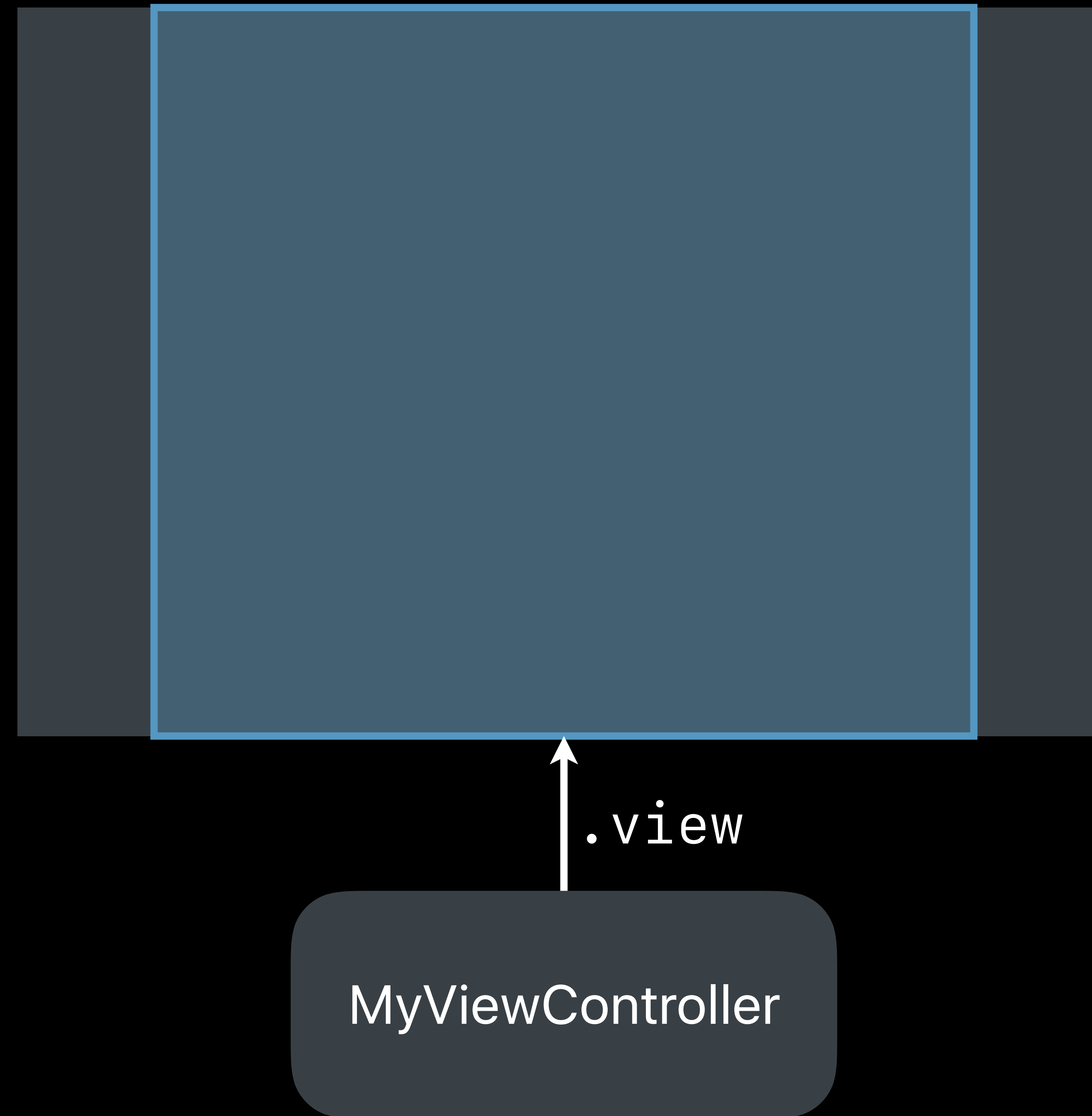
`.view`

MyViewController

`.systemMinimumLayoutMargins`

# Layout Margins

UIViewController and system margins

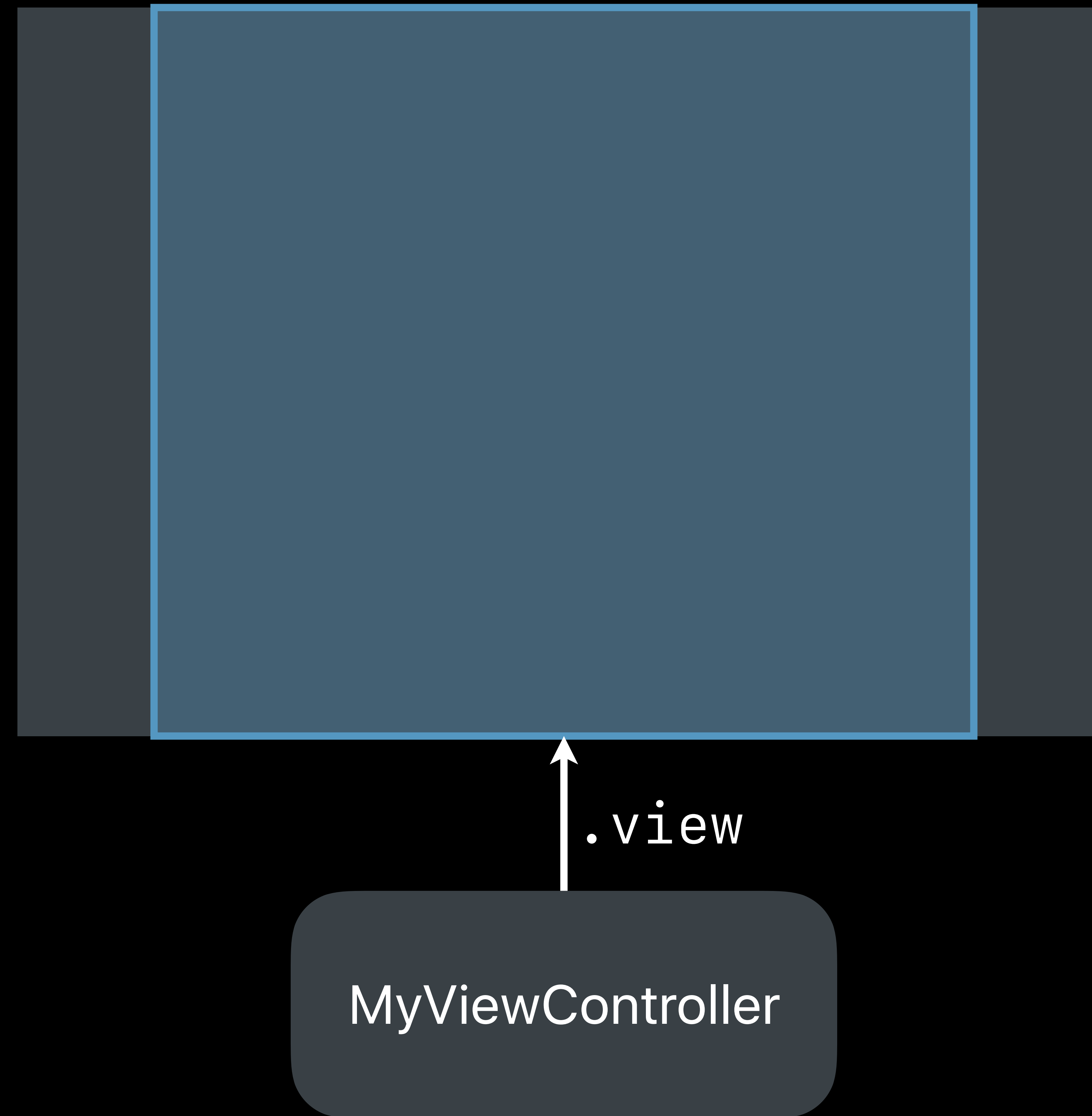


```
.viewRespectsSystemMinimumLayoutMargins = true
```



# Layout Margins

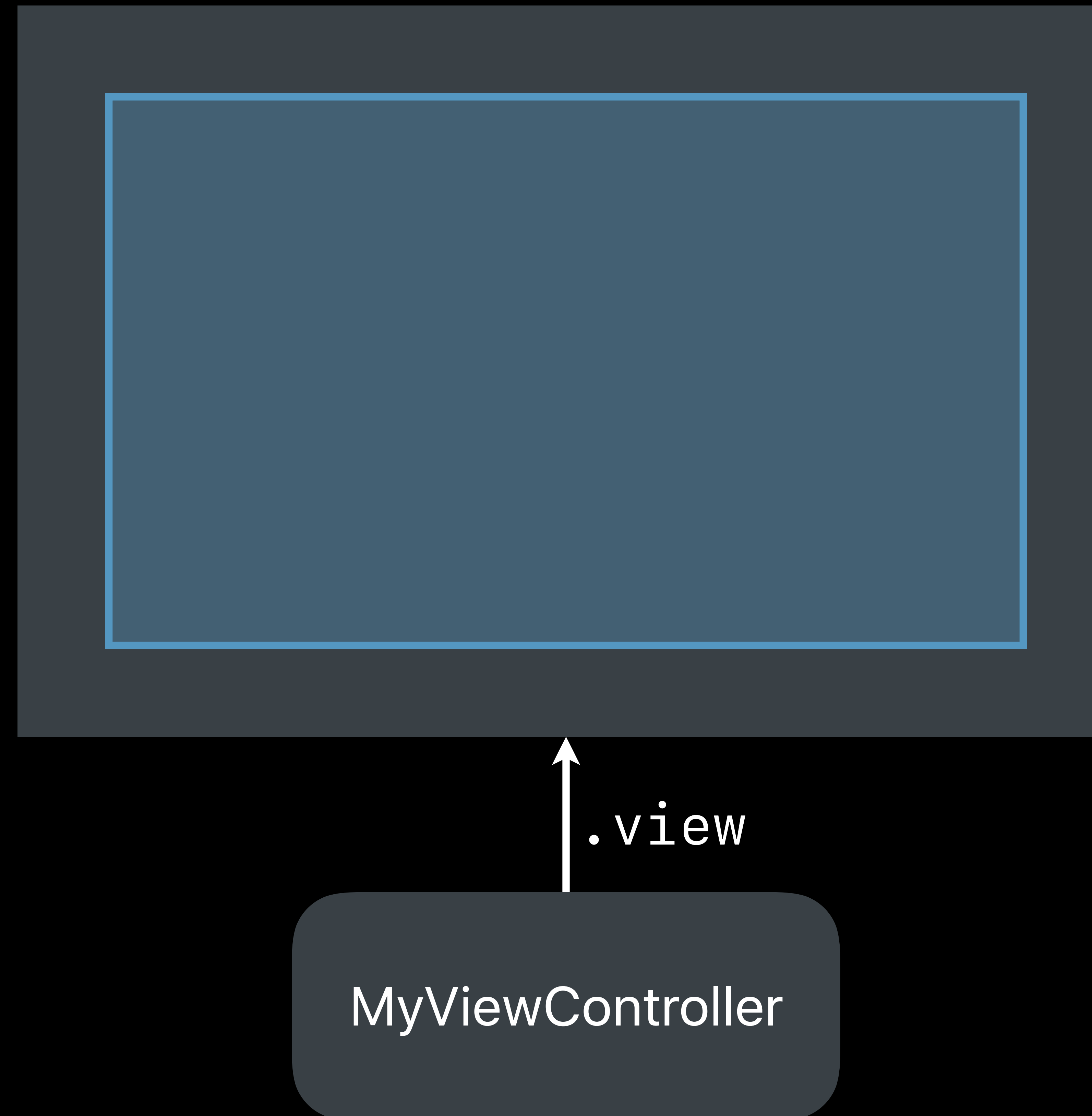
UIViewController and system margins



```
.viewRespectsSystemMinimumLayoutMargins = false
```

# Layout Margins

UIViewController and system margins



```
.viewRespectsSystemMinimumLayoutMargins = false
```

# Layout Margins

UIView

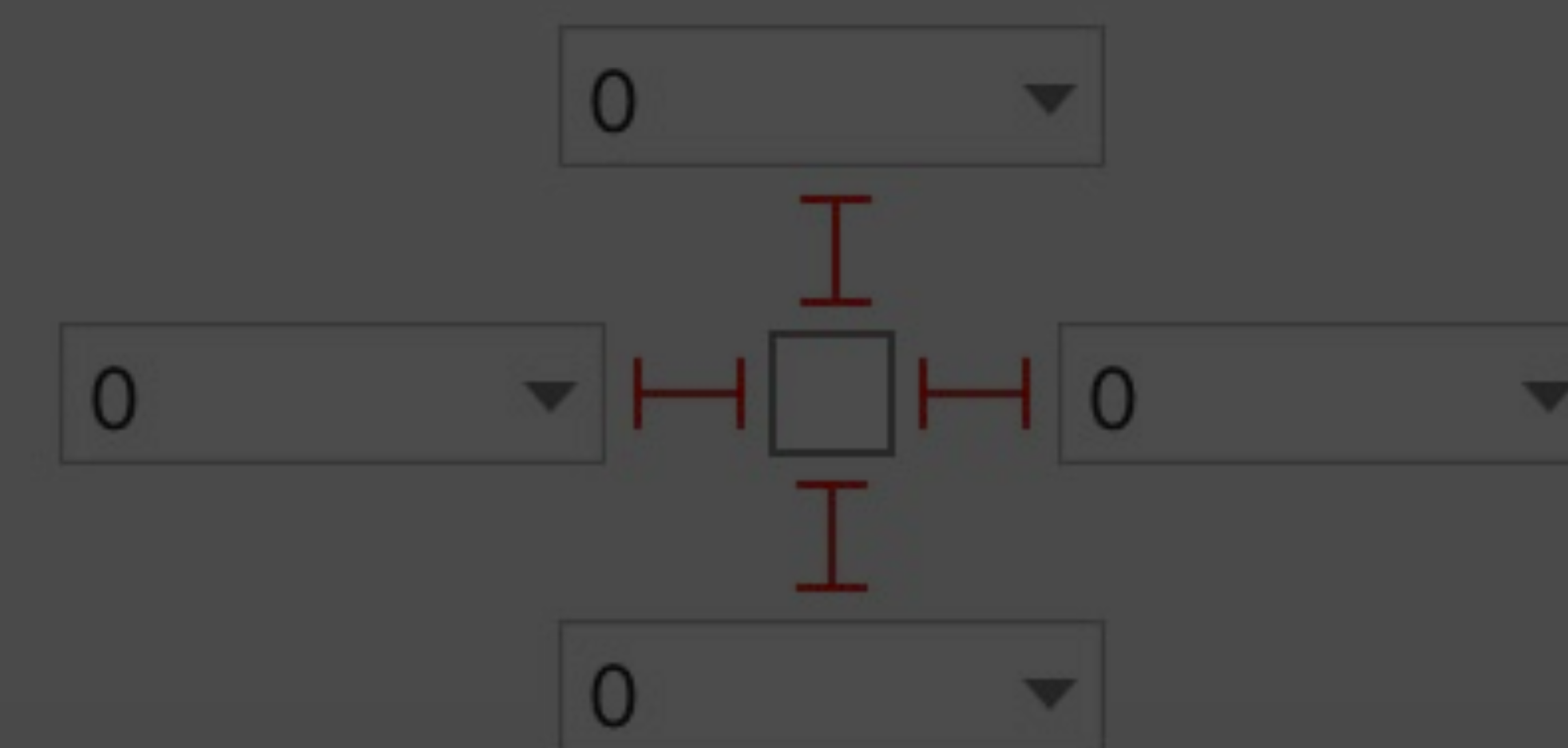
.layoutMargins

.directionalLayoutMargins

.layoutMarginsGuide

.layoutMarginsDidChange()

## Add New Constraints



Spacing to nearest neighbor

Constrain to margins

Width 375

Height 812

Equal Widths

Equal Heights

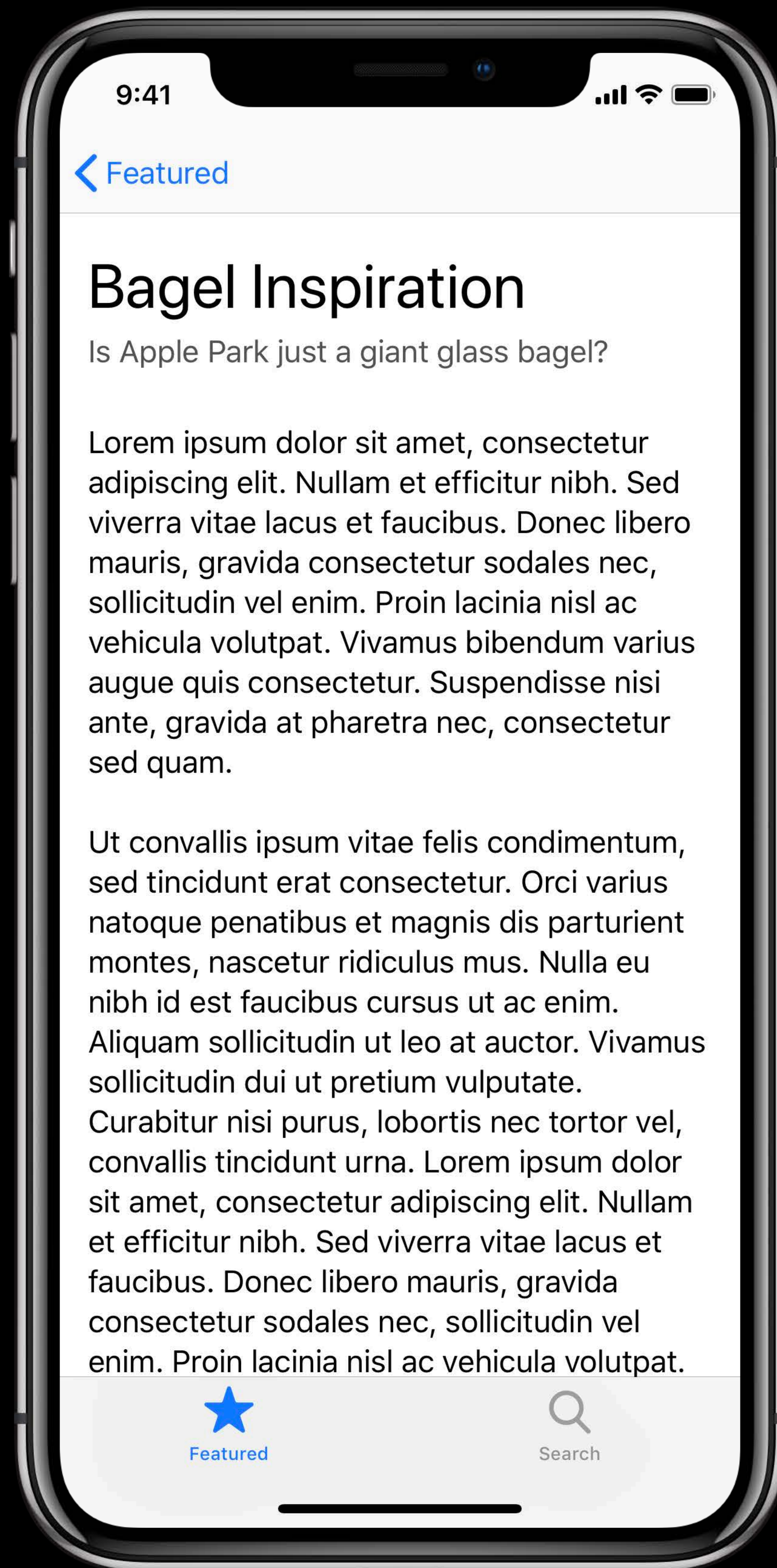
Aspect Ratio

Align Leading Edges

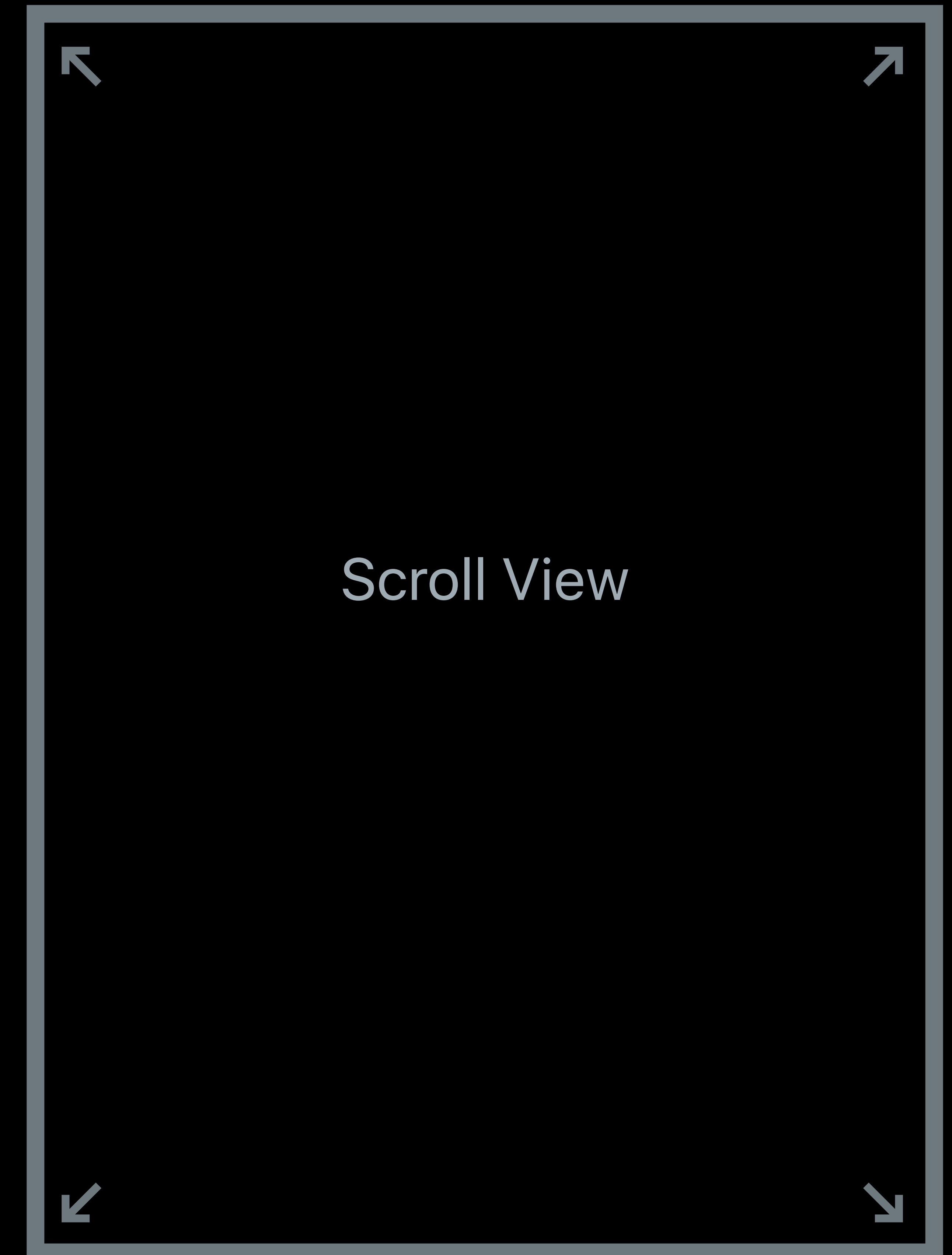
Add 4 Constraints

# Scroll Views

Tyler Fox, UIKit Engineer



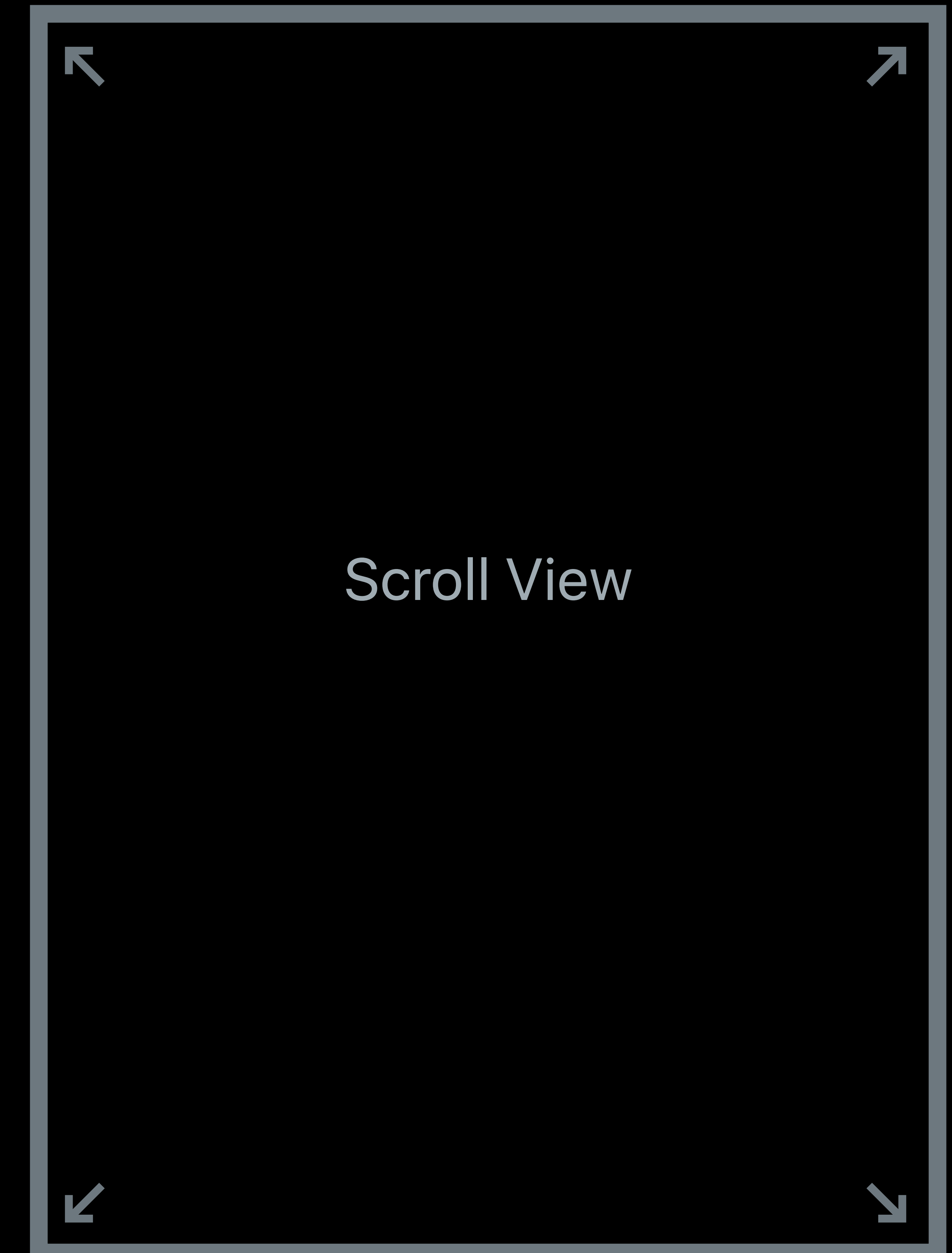
# Scroll View Fundamentals



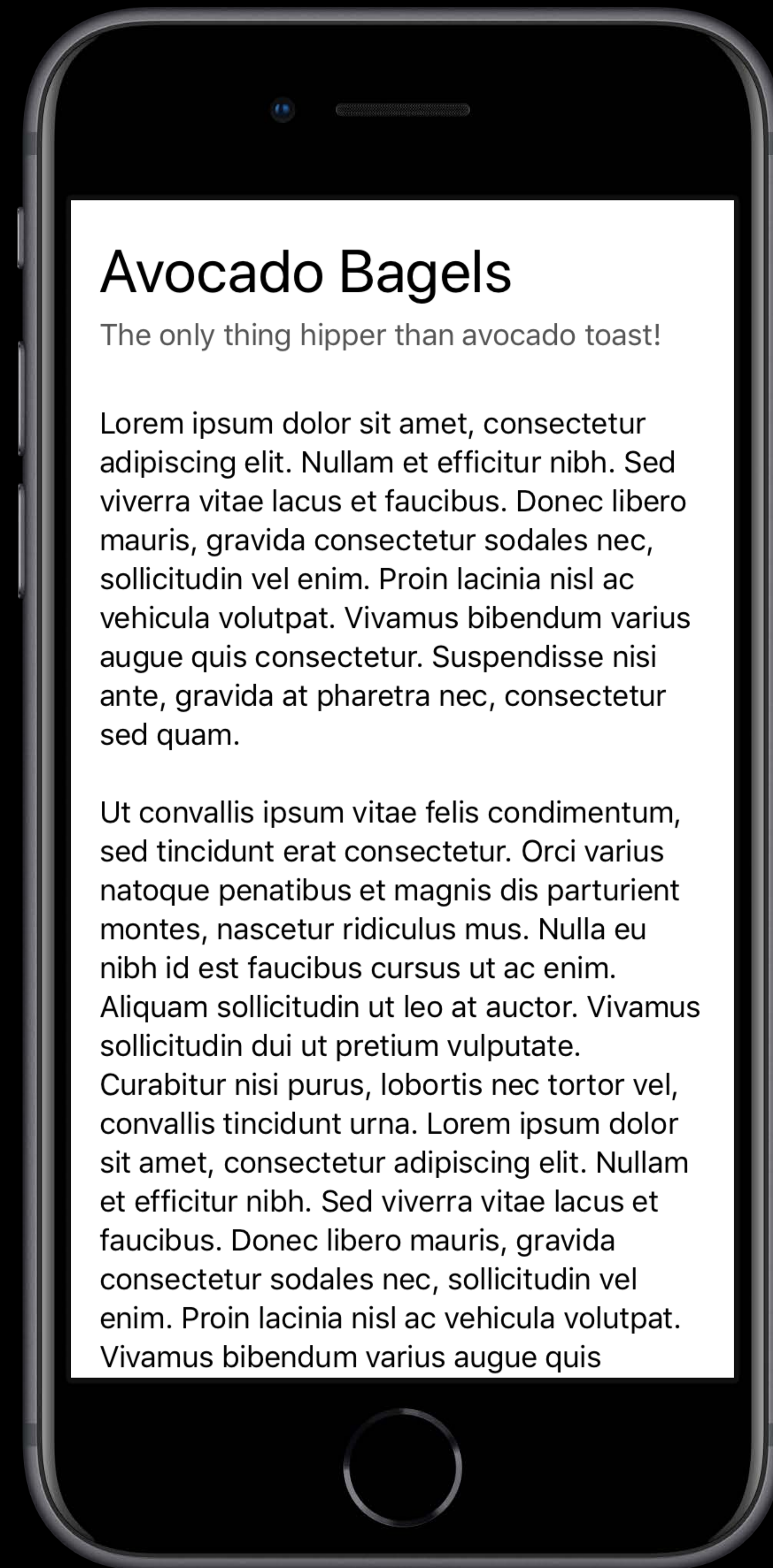
# ScrollView Fundamentals



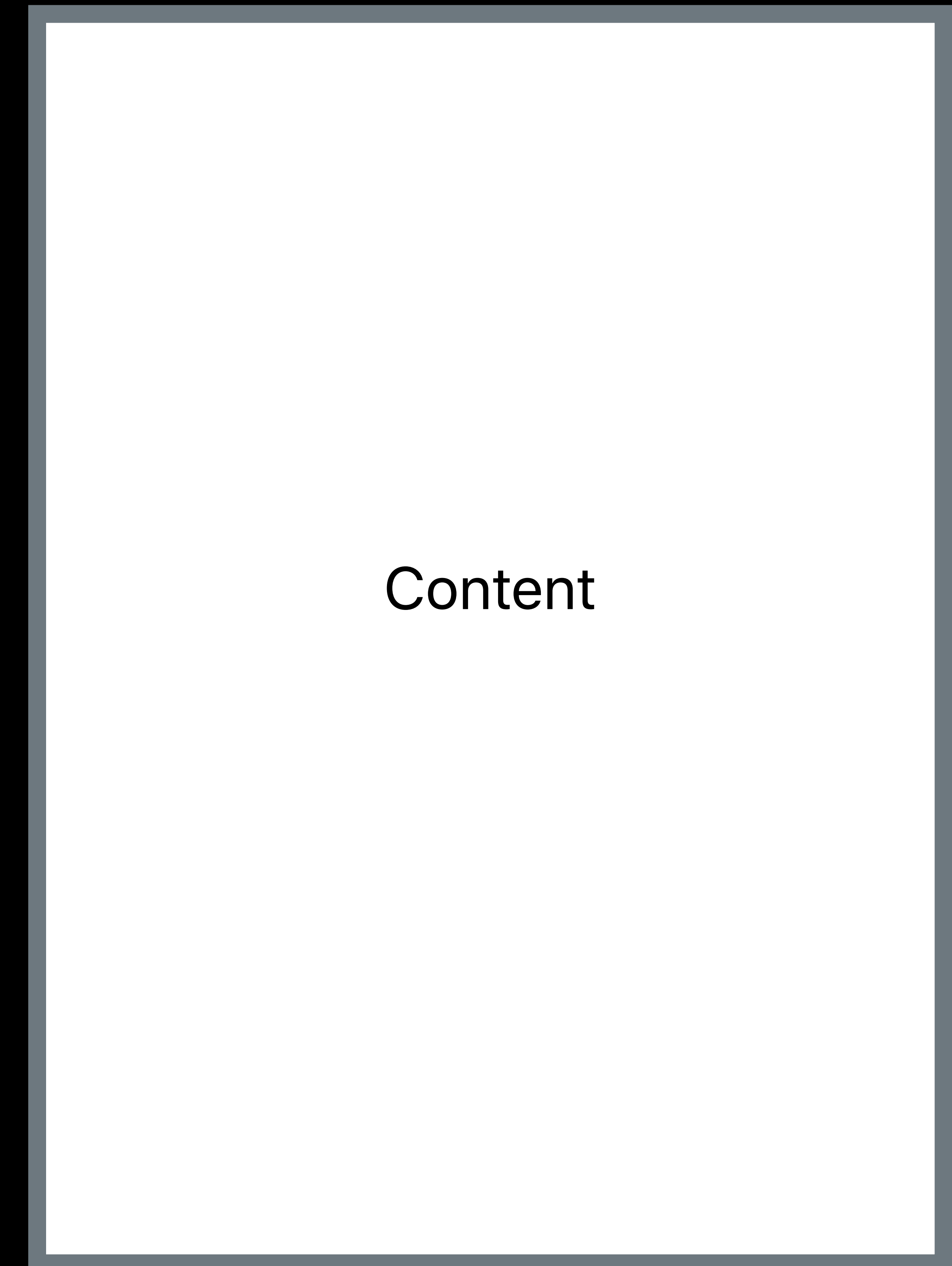
```
bounds.size.height = 400
```



# Scroll View Fundamentals

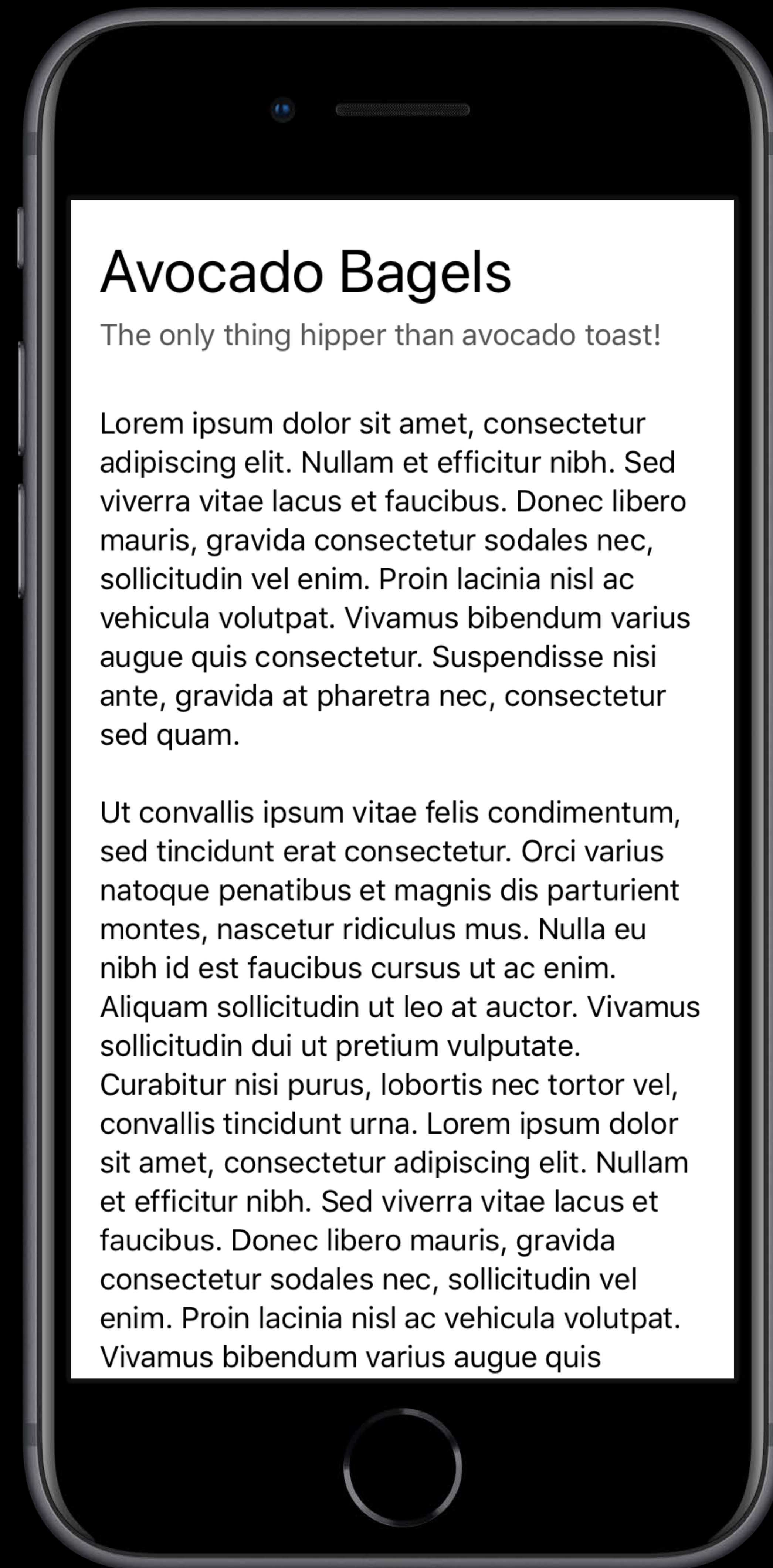


```
bounds.size.height = 400
```





# Scroll View Fundamentals



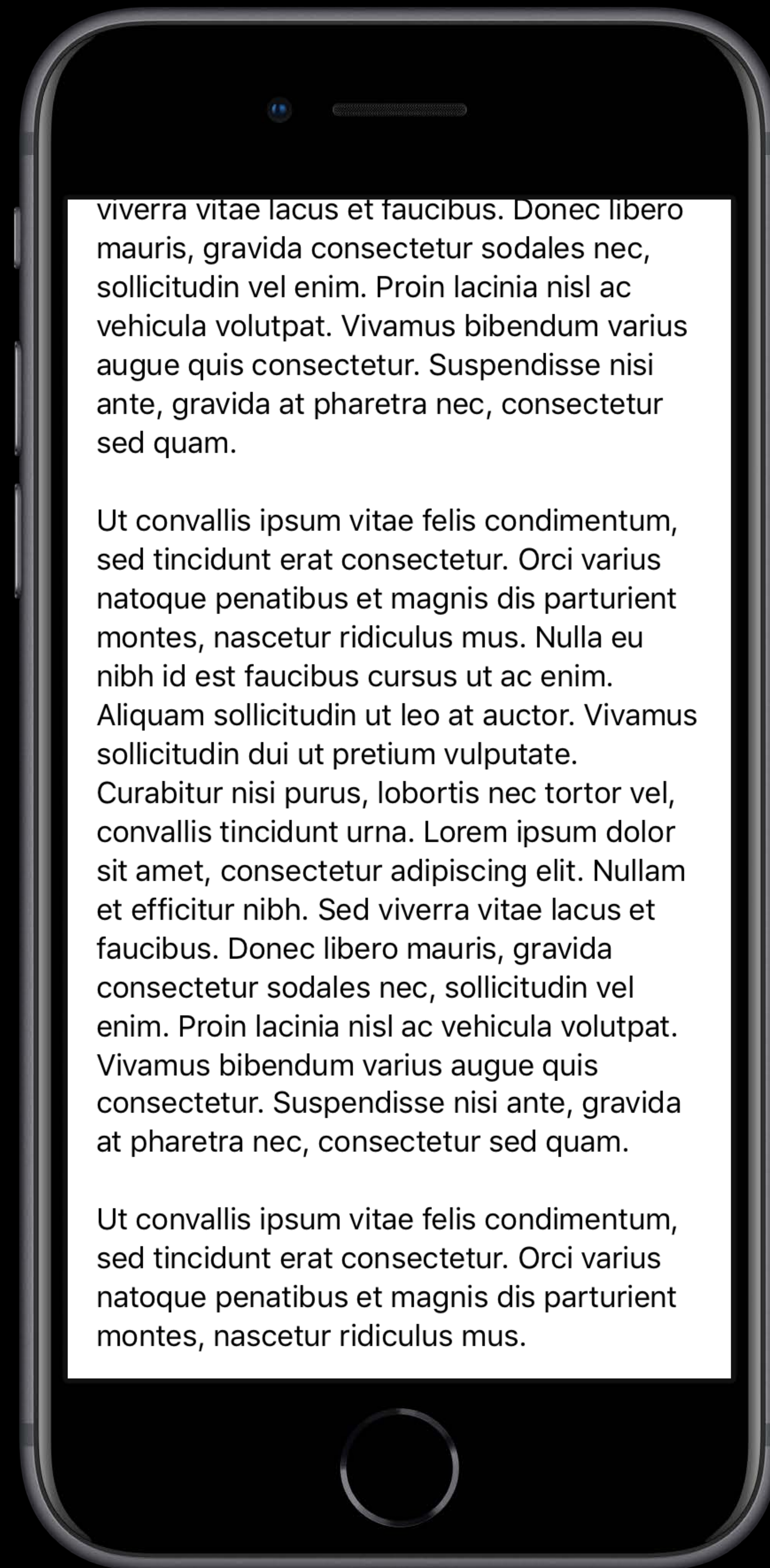
```
contentOffset.y = 0
```

```
bounds.size.height = 400
```



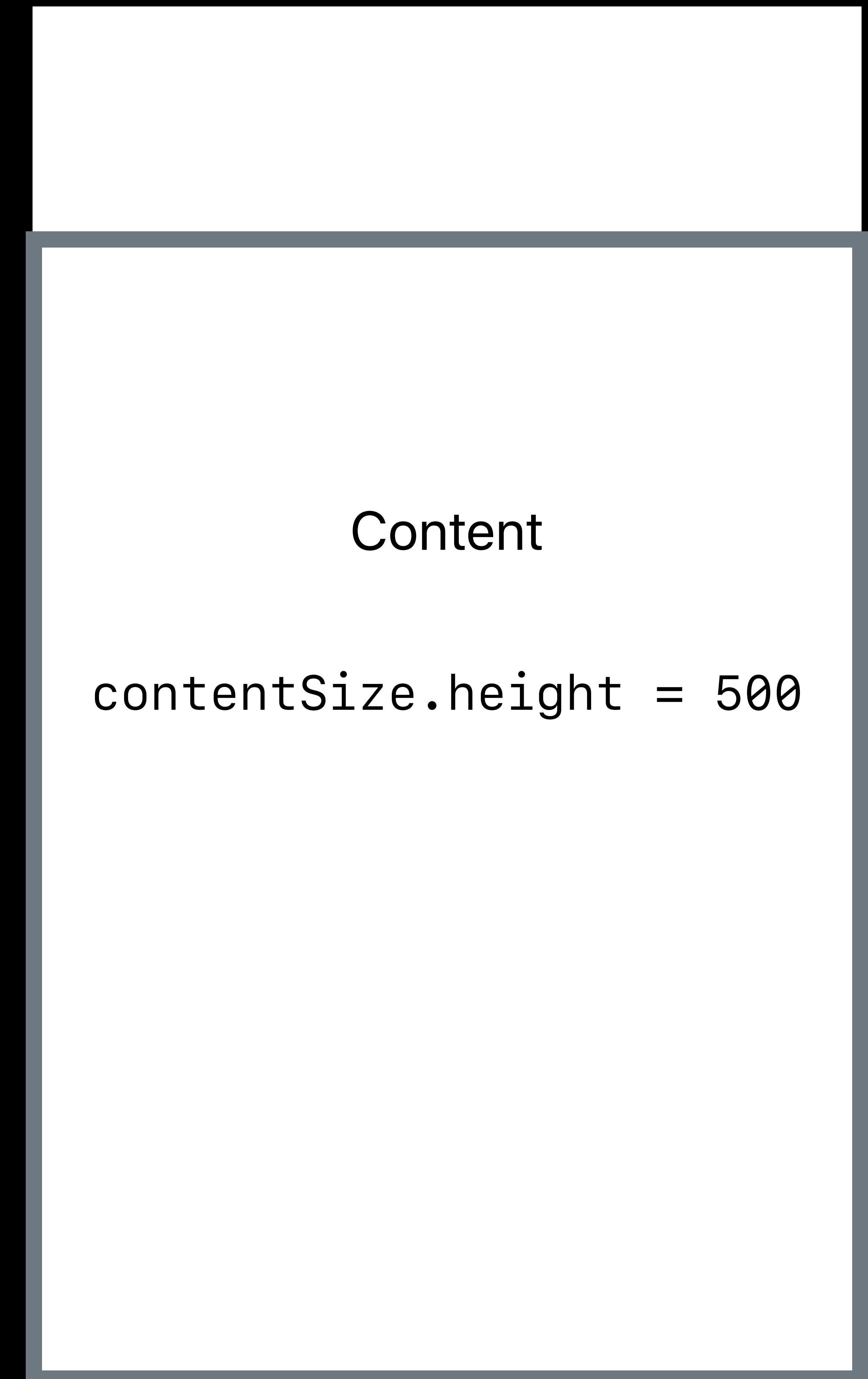
```
ContentSize.height = 500
```

# Scroll View Fundamentals

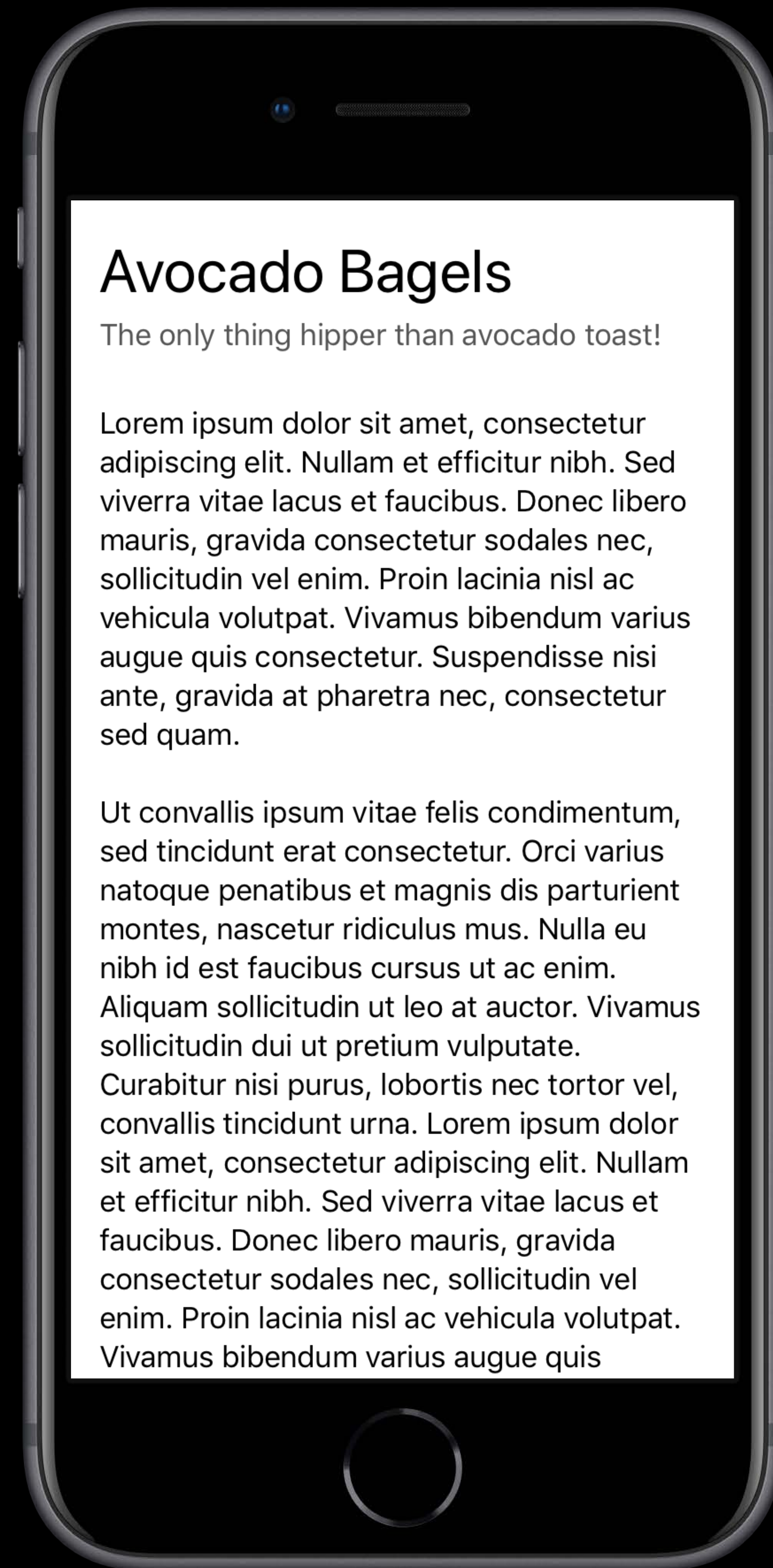


```
contentOffset.y = 100
```

```
bounds.size.height = 400
```

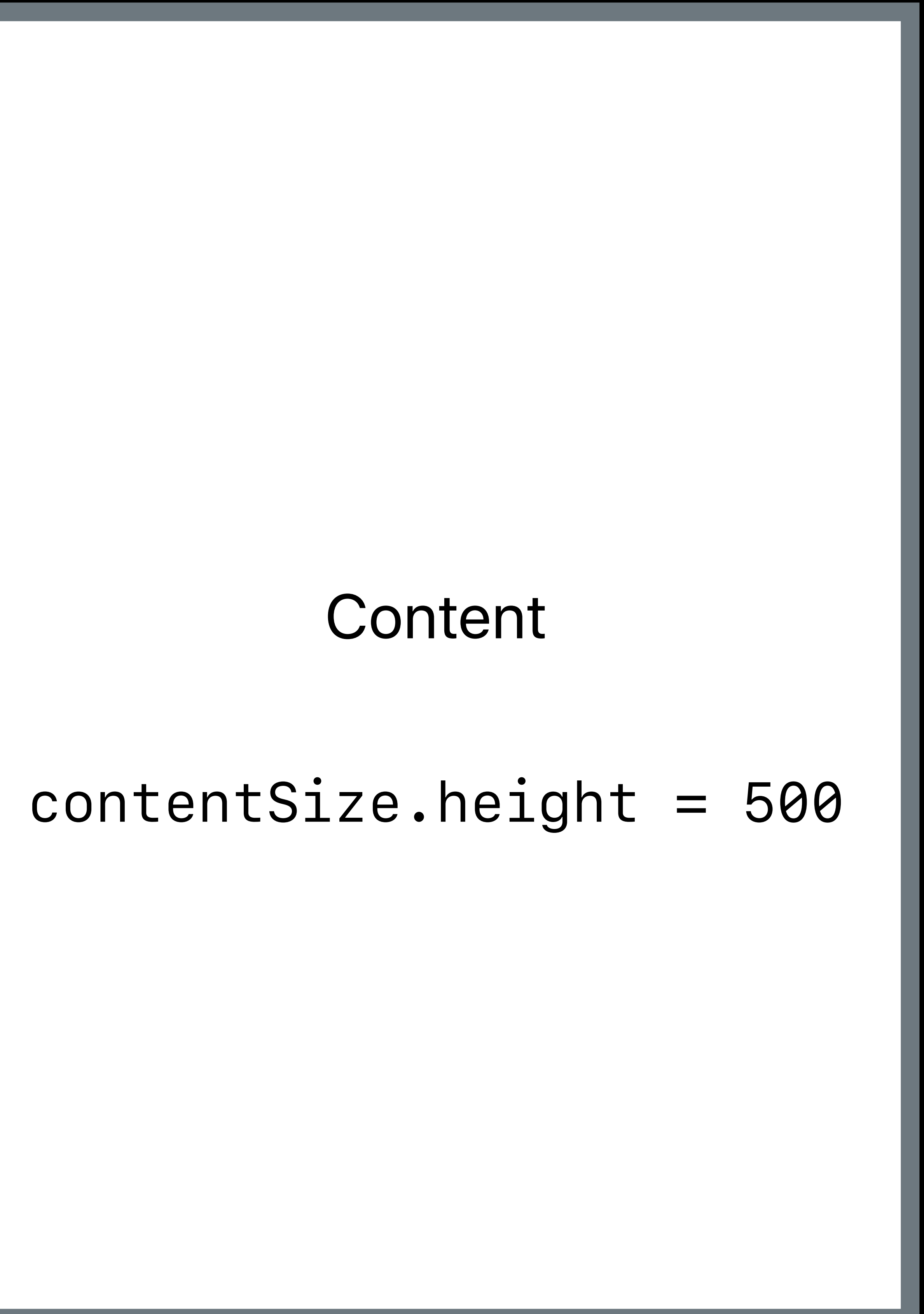


# Scroll View Fundamentals



```
contentOffset.y = 0
```

```
bounds.size.height = 400
```



```
ContentSize.height = 500
```

# Content Inset



```
contentOffset.y = 0
```

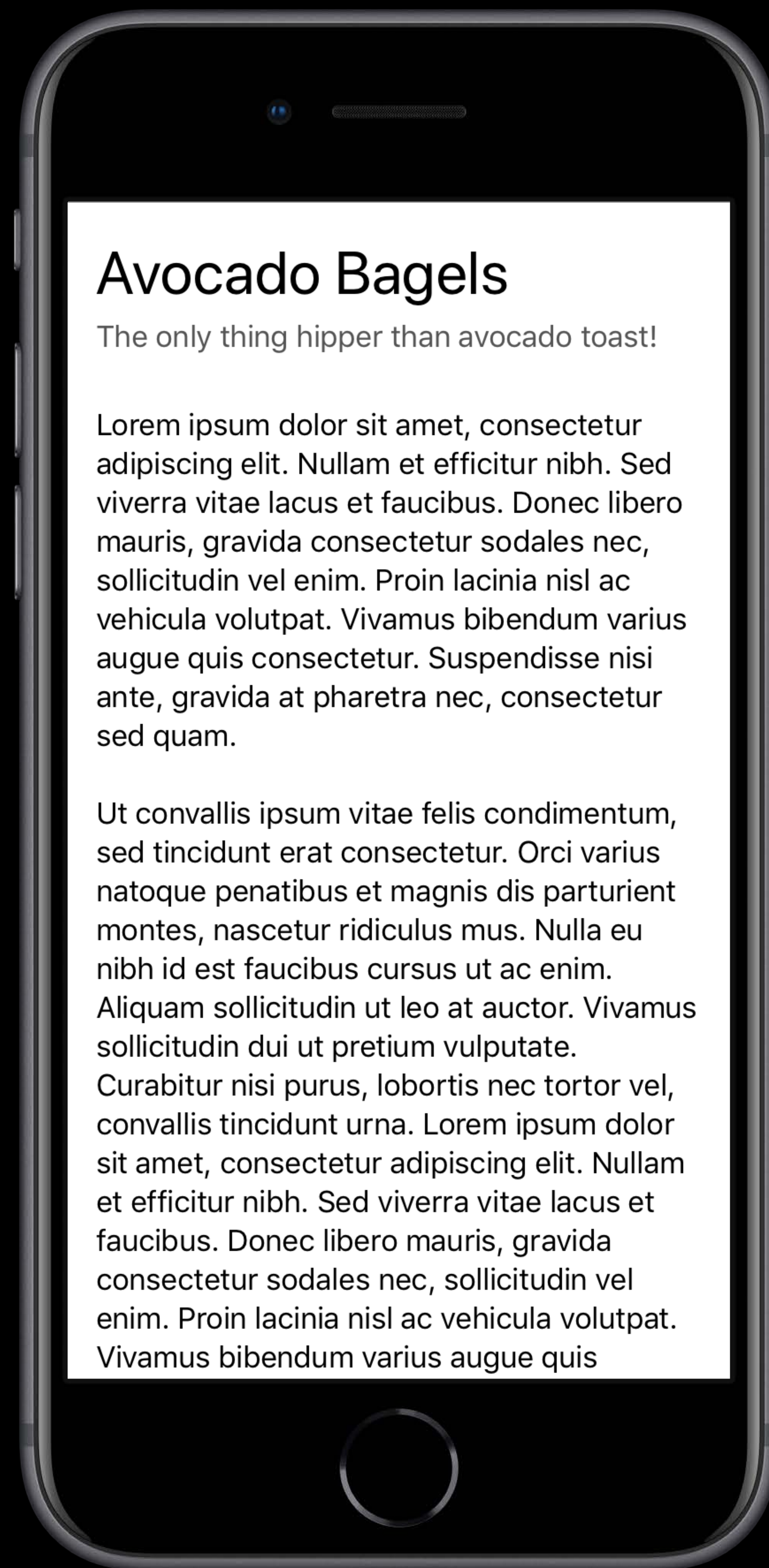
```
bounds.size.height = 400
```

```
contentInset.top = 0
```

Content

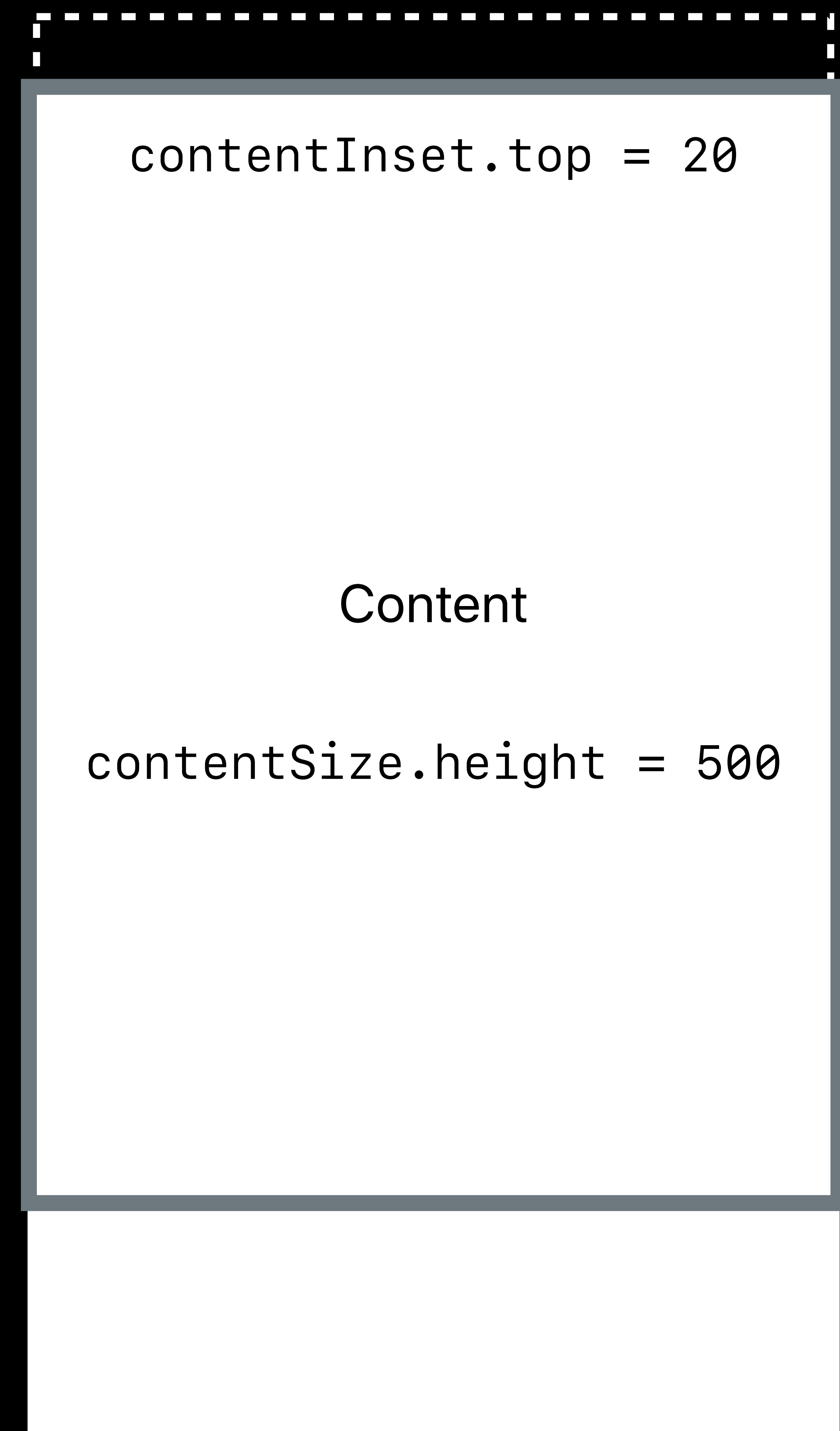
```
contentSize.height = 500
```

# Content Inset

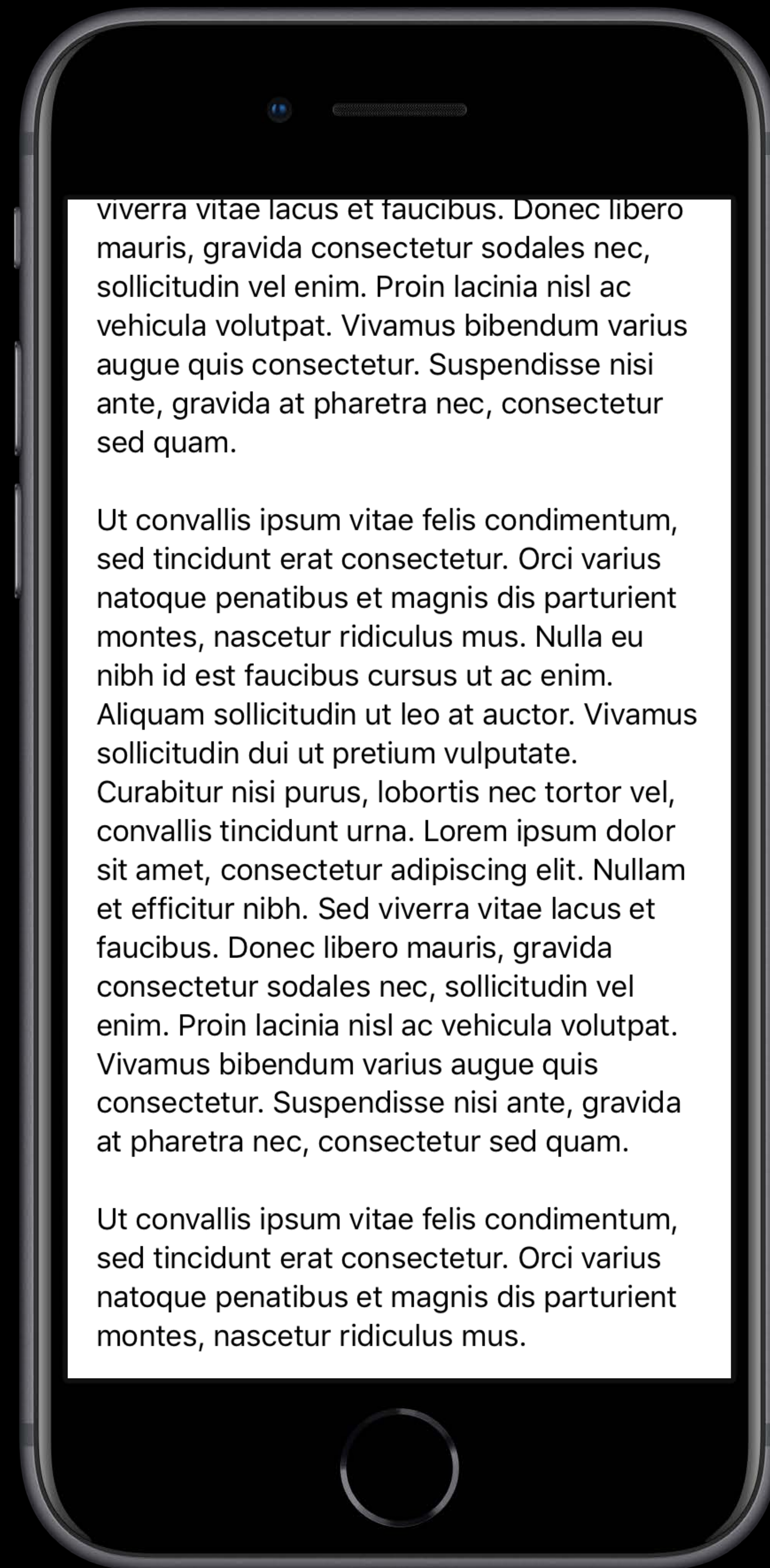


```
contentOffset.y = 0
```

```
bounds.size.height = 400
```



# Content Inset



viverra vitae lacus et faucibus. Donec libero mauris, gravida consectetur sodales nec, sollicitudin vel enim. Proin lacinia nisl ac vehicula volutpat. Vivamus bibendum varius augue quis consectetur. Suspendisse nisi ante, gravida at pharetra nec, consectetur sed quam.

Ut convallis ipsum vitae felis condimentum, sed tincidunt erat consectetur. Orci varius natoque penatibus et magnis dis parturient montes, nascetur ridiculus mus. Nulla eu nibh id est faucibus cursus ut ac enim. Aliquam sollicitudin ut leo at auctor. Vivamus sollicitudin dui ut pretium vulputate. Curabitur nisi purus, lobortis nec tortor vel, convallis tincidunt urna. Lorem ipsum dolor sit amet, consectetur adipiscing elit. Nullam et efficitur nibh. Sed viverra vitae lacus et faucibus. Donec libero mauris, gravida consectetur sodales nec, sollicitudin vel enim. Proin lacinia nisl ac vehicula volutpat. Vivamus bibendum varius augue quis consectetur. Suspendisse nisi ante, gravida at pharetra nec, consectetur sed quam.

Ut convallis ipsum vitae felis condimentum, sed tincidunt erat consectetur. Orci varius natoque penatibus et magnis dis parturient montes, nascetur ridiculus mus.

```
contentOffset.y = 100
```

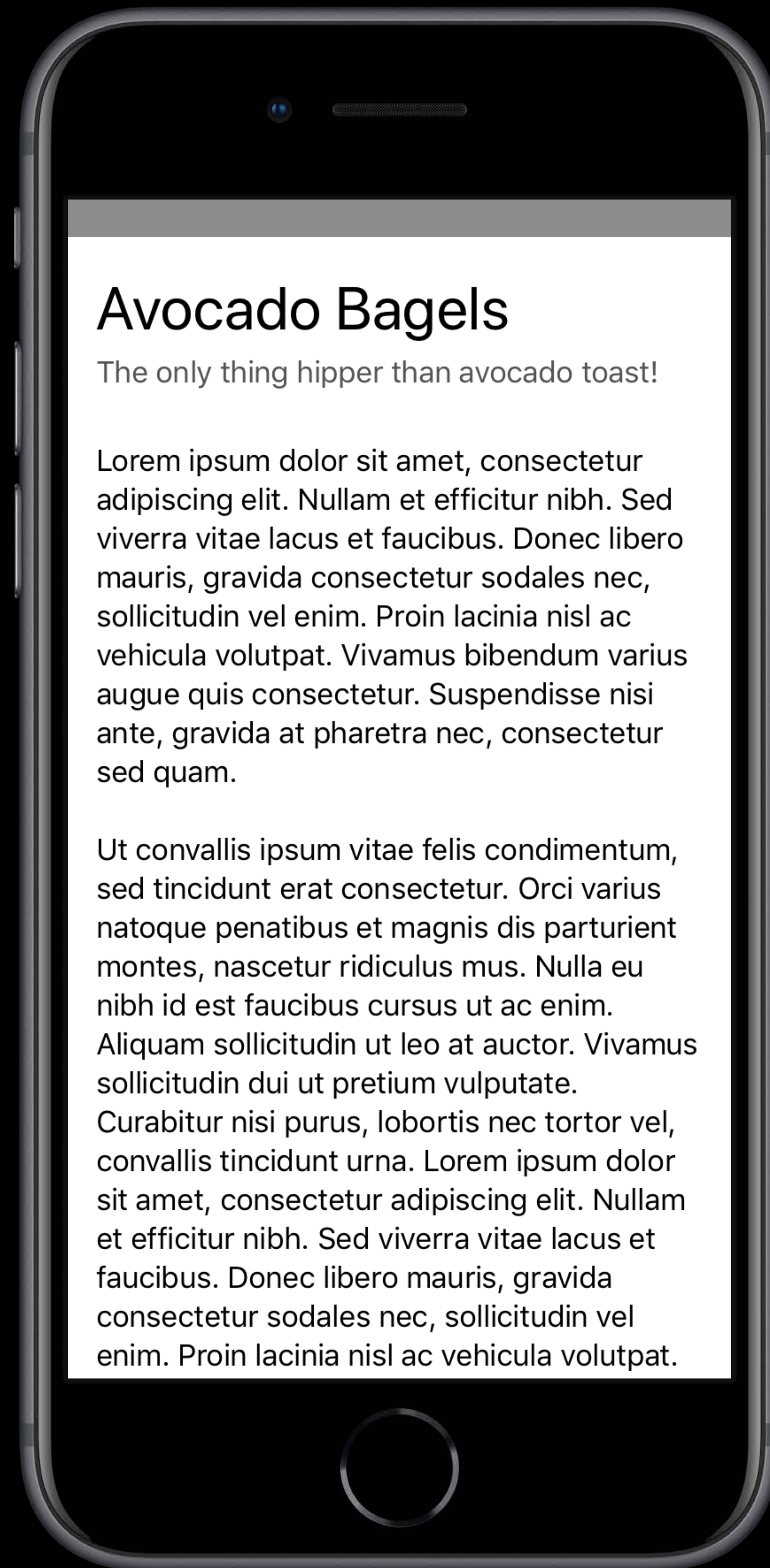
```
bounds.size.height = 400
```

```
contentInset.top = 20
```

Content

```
contentSize.height = 500
```

# Content Inset



```
contentOffset.y = -20
```

```
bounds.size.height = 400
```



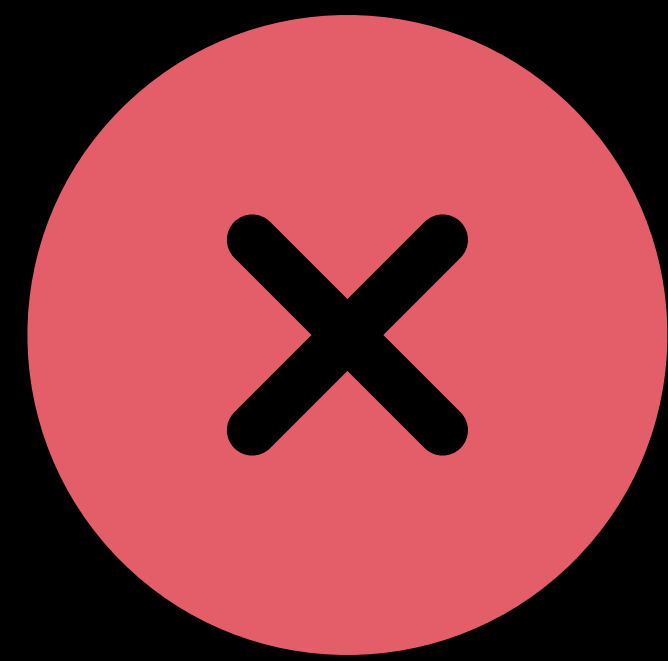
# Automatic Content Inset

```
class UIViewController: UIResponder {  
    var automaticallyAdjustsScrollViewInsets: Bool  
}
```





# Automatic Content Inset



```
class UIViewController: UIResponder {  
    var automaticallyAdjustsScrollViewInsets: Bool  
}
```



```
class UIScrollView: UIView {  
    var adjustedContentInset: UIEdgeInsets { get }  
}
```

`adjustedContentInset = contentInset + system inset`

# Scroll Views and Safe Areas

```
adjustedContentInset.top = 0
```

```
contentInset.top = 0
```

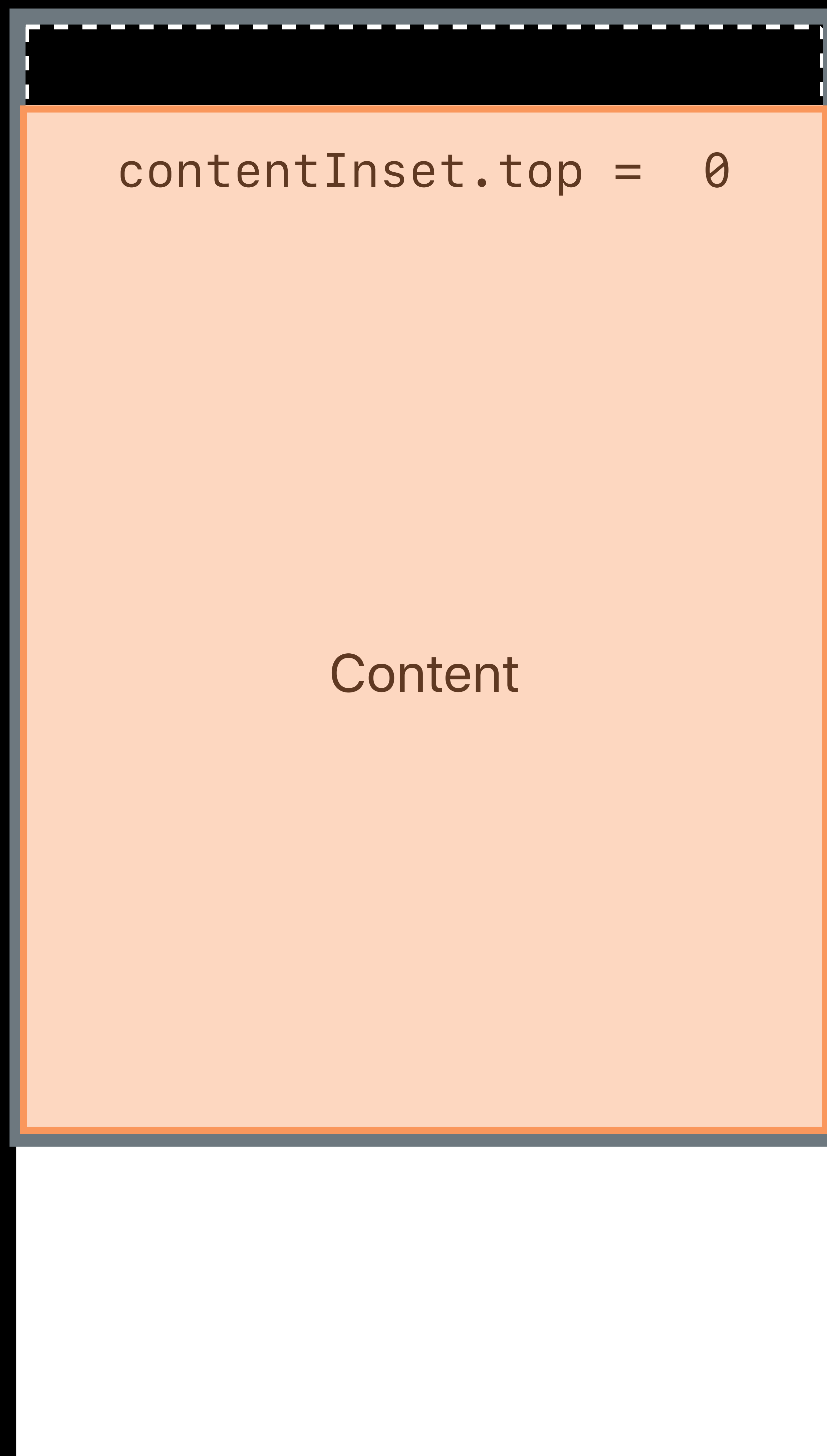
```
safeAreaInsets.top = 0
```

Content

A diagram illustrating the relationship between content insets and safe area insets in a scroll view. It features a large light orange rectangle representing the scroll view's content area, with the text "Content" centered inside. This rectangle is enclosed within a larger, slightly darker orange border. Below the scroll view is a white rectangular area representing the system status bar. The diagram is annotated with code snippets: "adjustedContentInset.top = 0" on the left, "contentInset.top = 0" at the top left of the scroll view, and "safeAreaInsets.top = 0" on the right.

# Scroll Views and Safe Areas

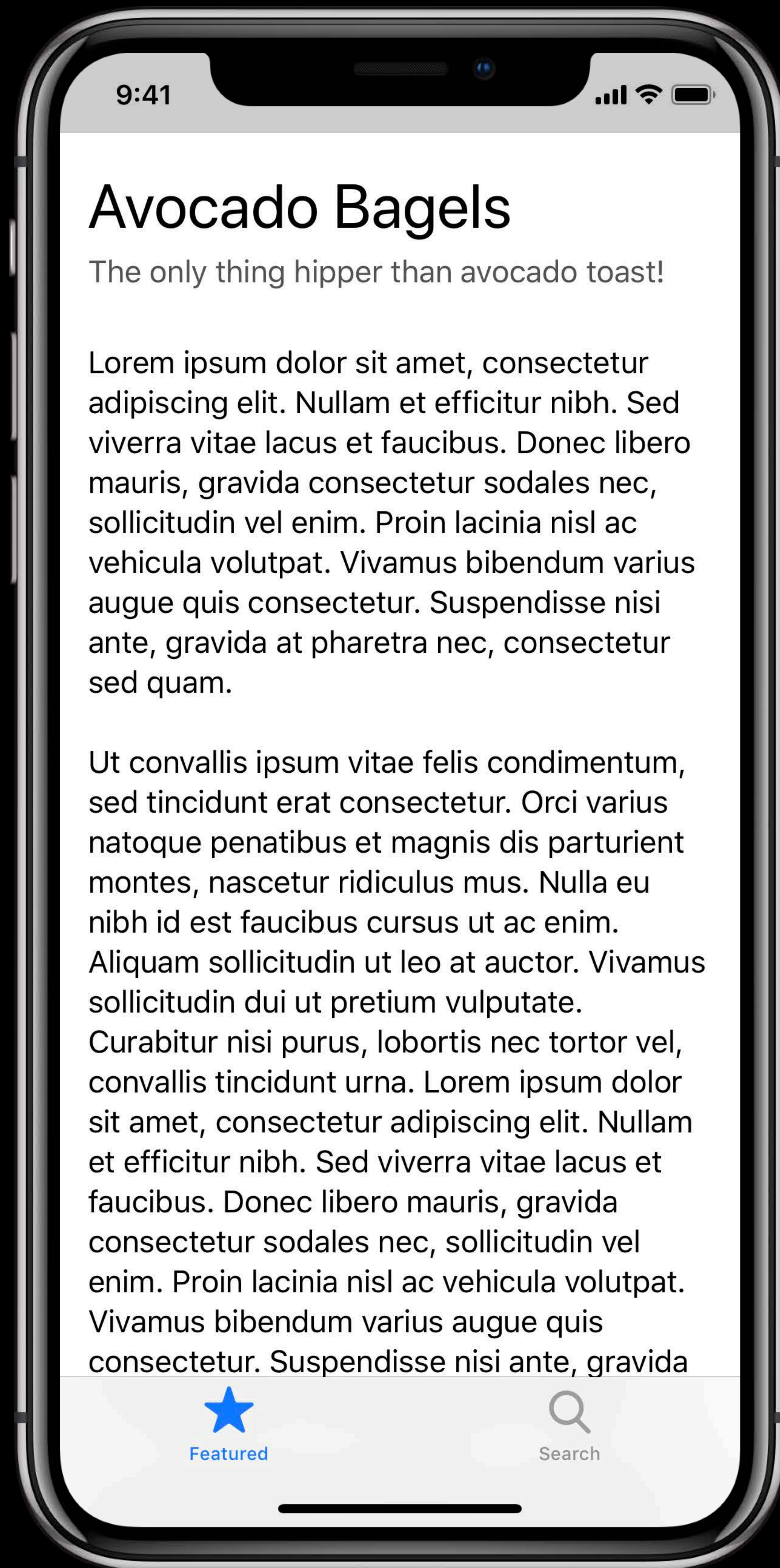
```
adjustedContentInset.top = 20
```



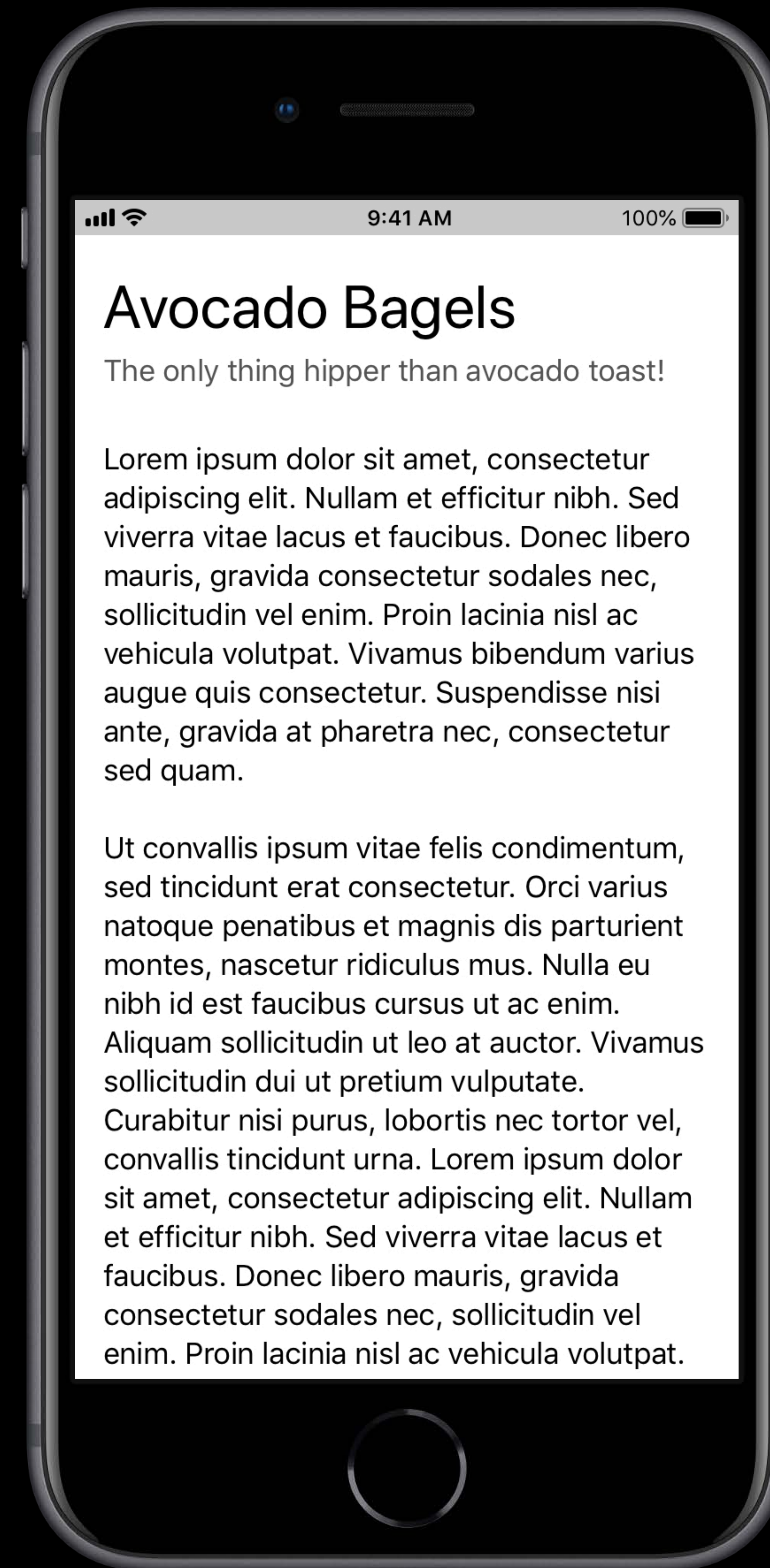
```
contentInset.top = 0
```

Content

```
safeAreaInsets.top = 20
```

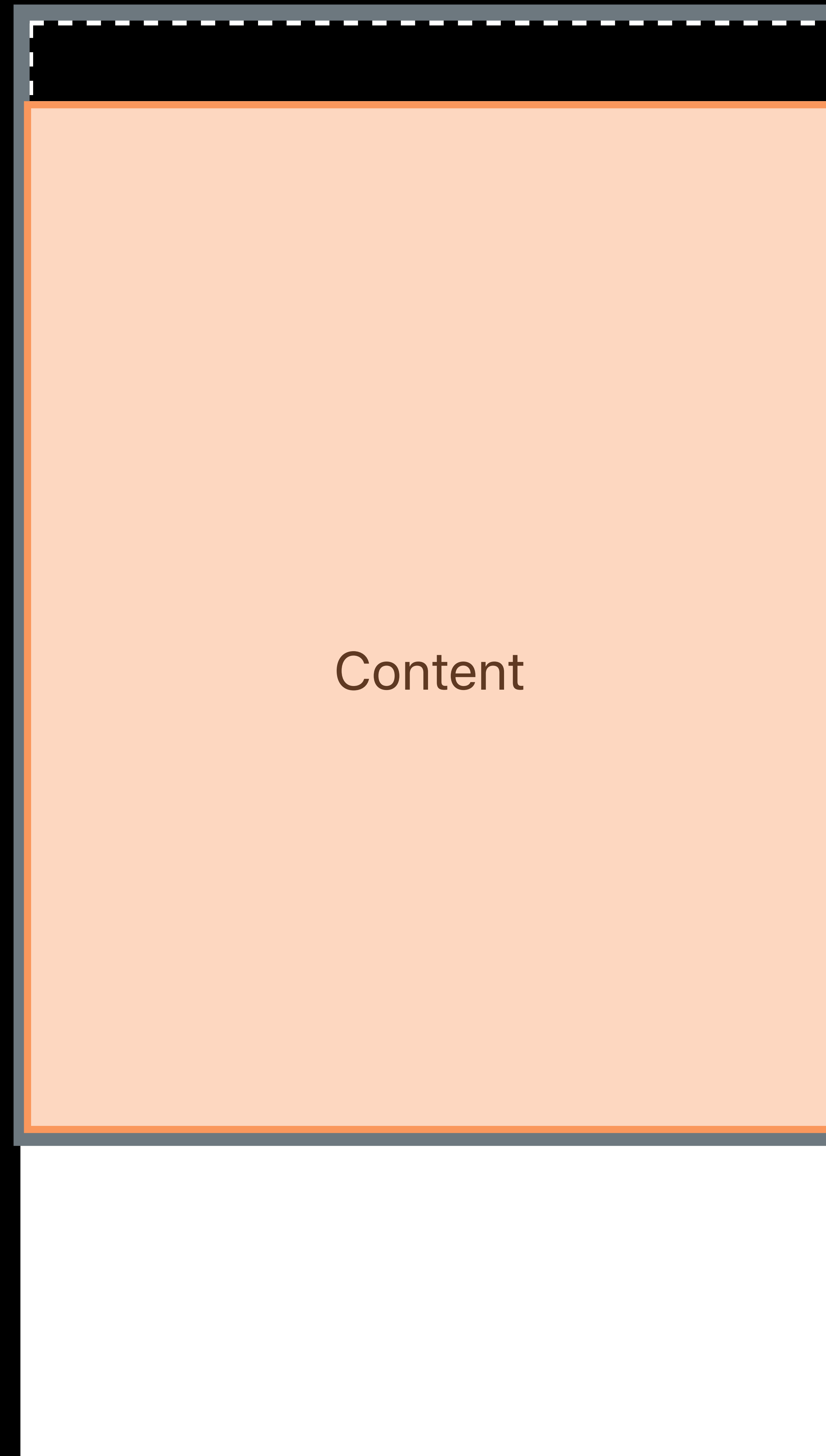


I Safe area inset



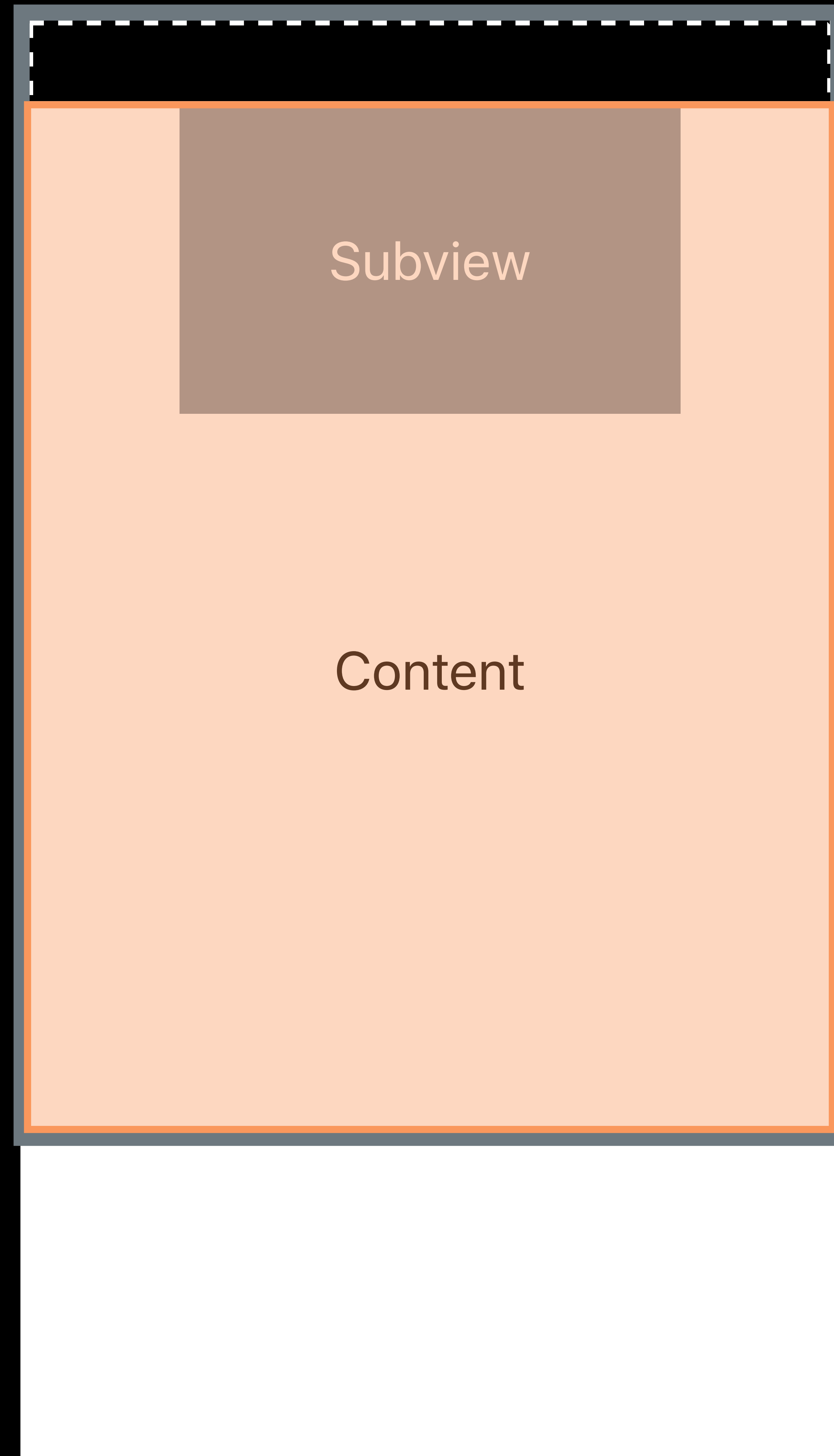
I Safe area inset

# Scroll Views and Safe Areas



`safeAreaInsets.top = 20`

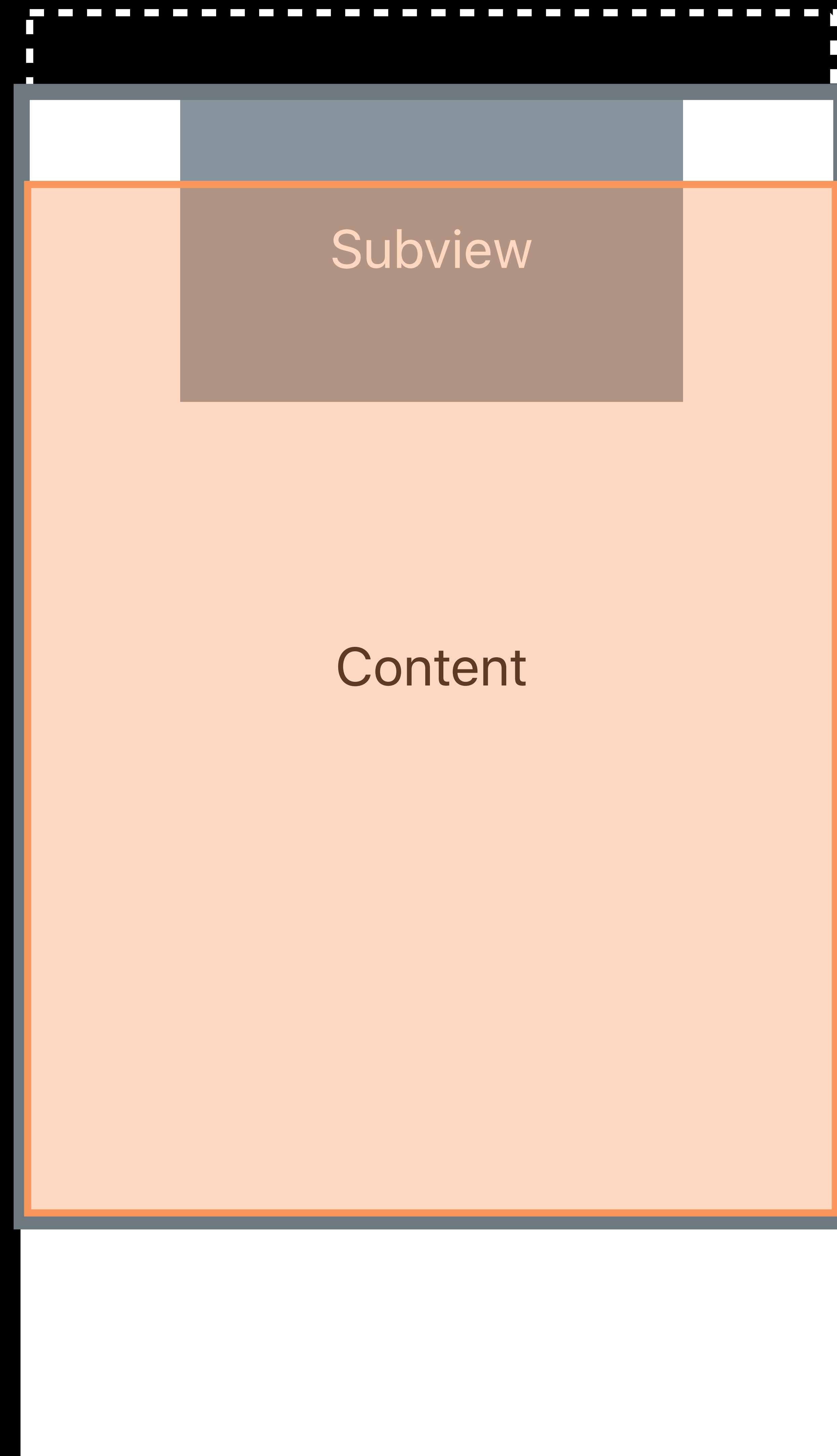
# Scroll Views and Safe Areas



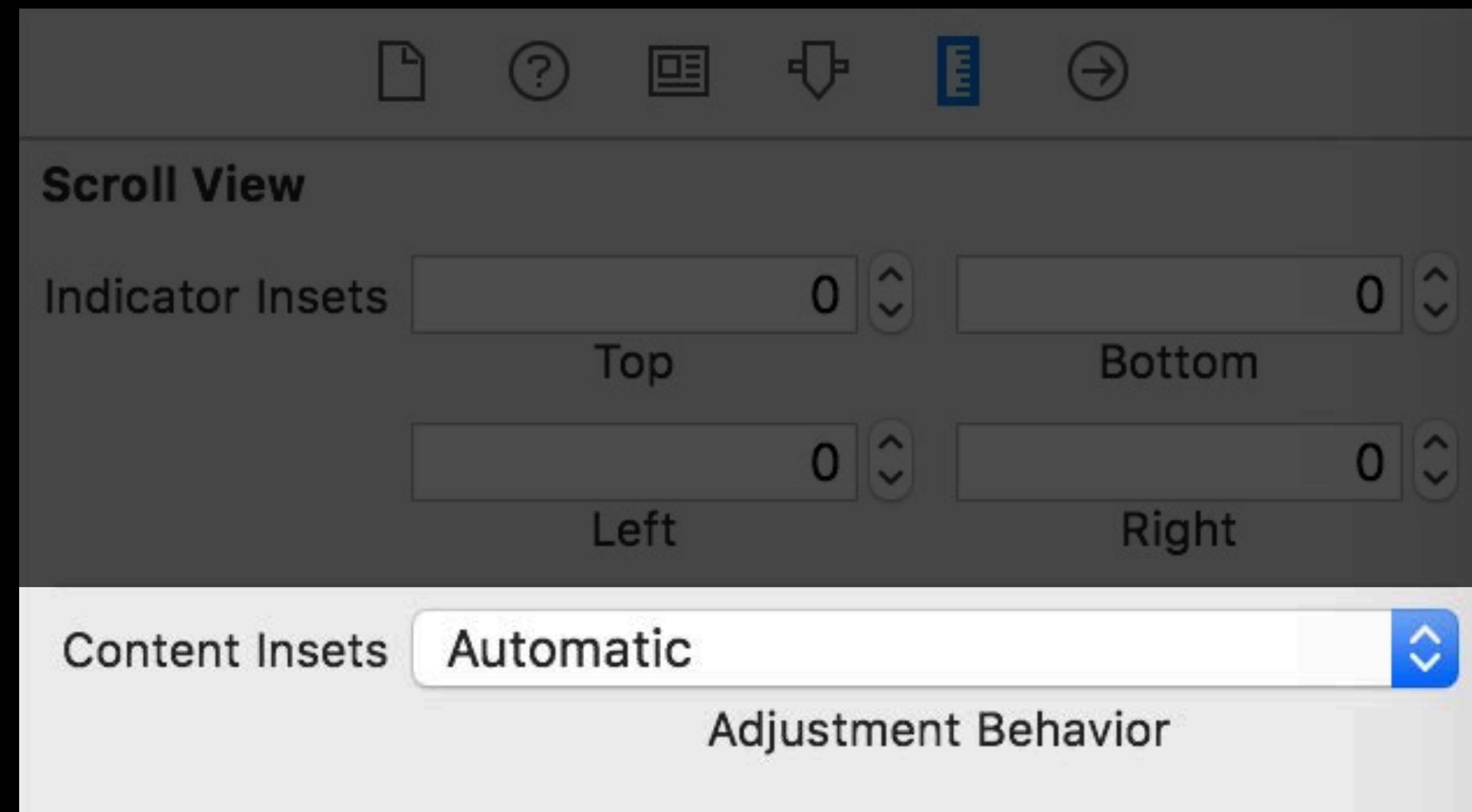
```
safeAreaInsets.top = 20
```



# Scroll Views and Safe Areas



```
safeAreaInsets.top = 20
```



```
class UIScrollView: UIView {  
    var contentInsetAdjustmentBehavior: UIScrollView.ContentInsetAdjustmentBehavior  
}
```

# Content Inset Adjustment Behavior

`.always`

`.scrollableAxes`

`.automatic`

`.never`



# Content Inset Adjustment Behavior

`.always`

`.scrollableAxes`

`.automatic`

`.never`



# Content Inset Adjustment Behavior

`.always`

`.scrollableAxes`

`.automatic`

`.never`



# Content Inset Adjustment Behavior

`.always`

`.scrollableAxes`

`.automatic`

`.never`



# Content Inset Adjustment Behavior

`.always`

`.scrollableAxes`

`.automatic`

`.never`



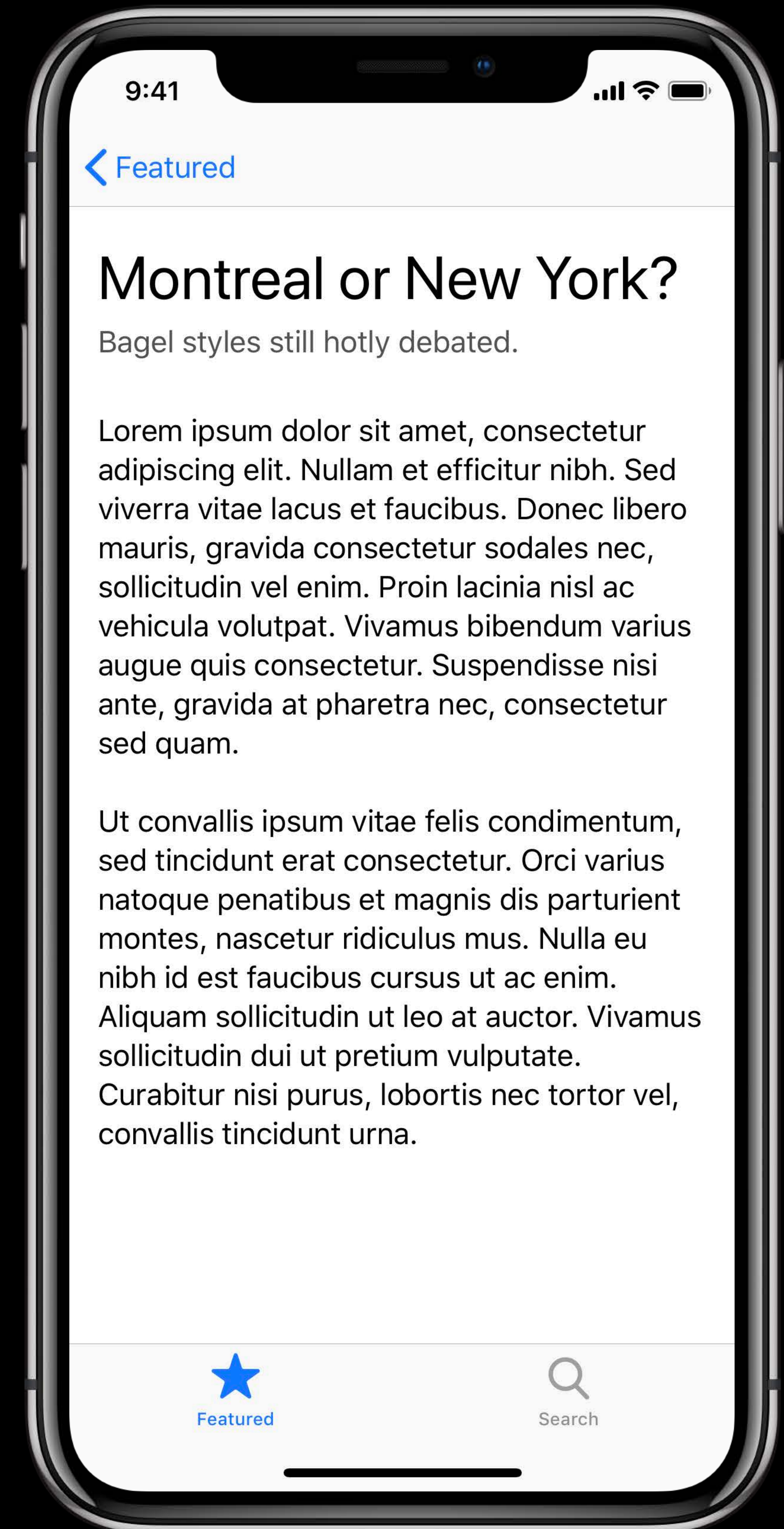
# Content Inset Adjustment Behavior

`.always`

`.scrollableAxes`

`.automatic`

`.never`





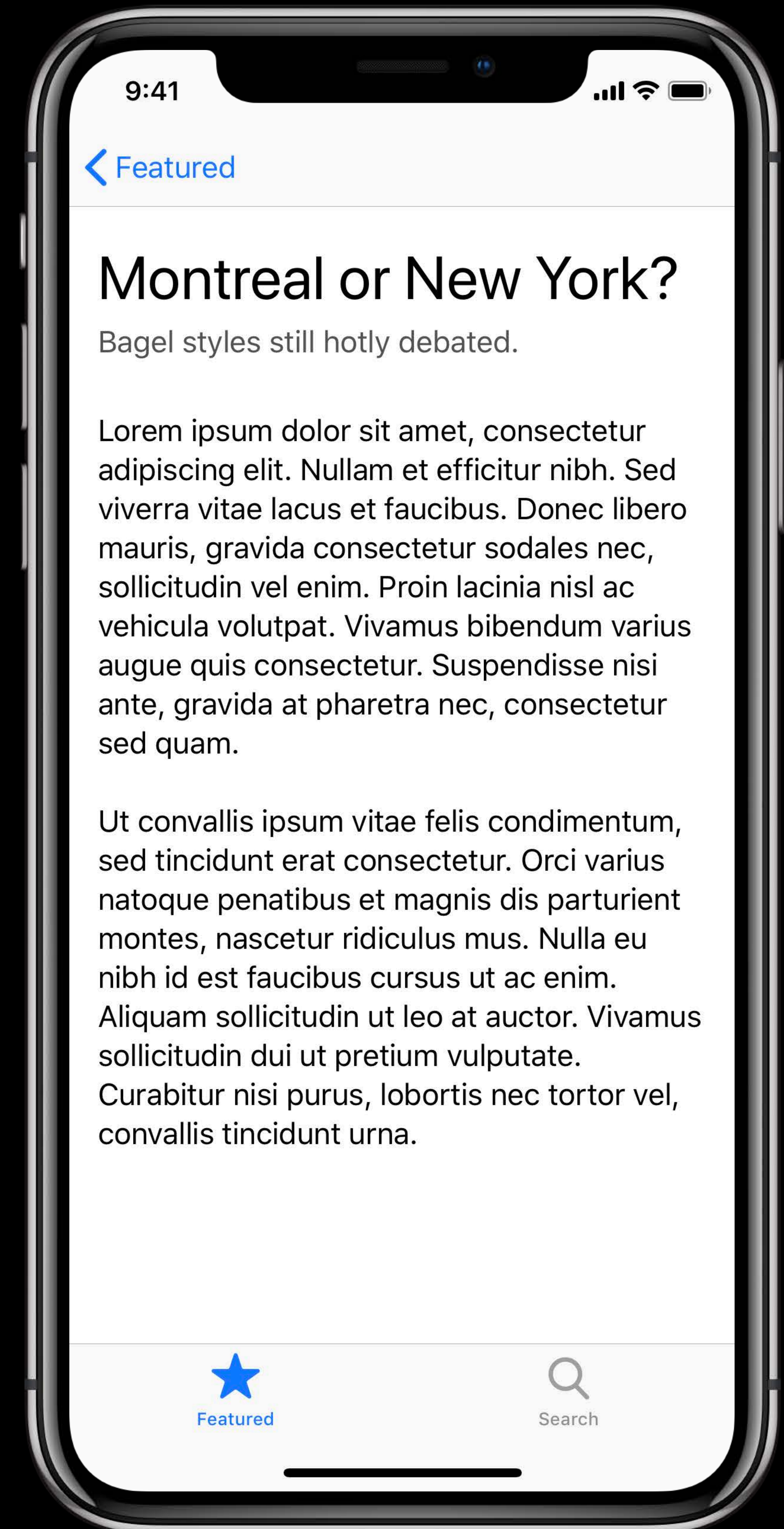
# Content Inset Adjustment Behavior

`.always`

`.scrollableAxes`

`.automatic`

`.never`



# Content Inset Adjustment Behavior

`.always`

`.scrollableAxes`

`.automatic`

`.never`



# Building Adaptive Apps

Russell Ladd, UIKit Engineer

9:41



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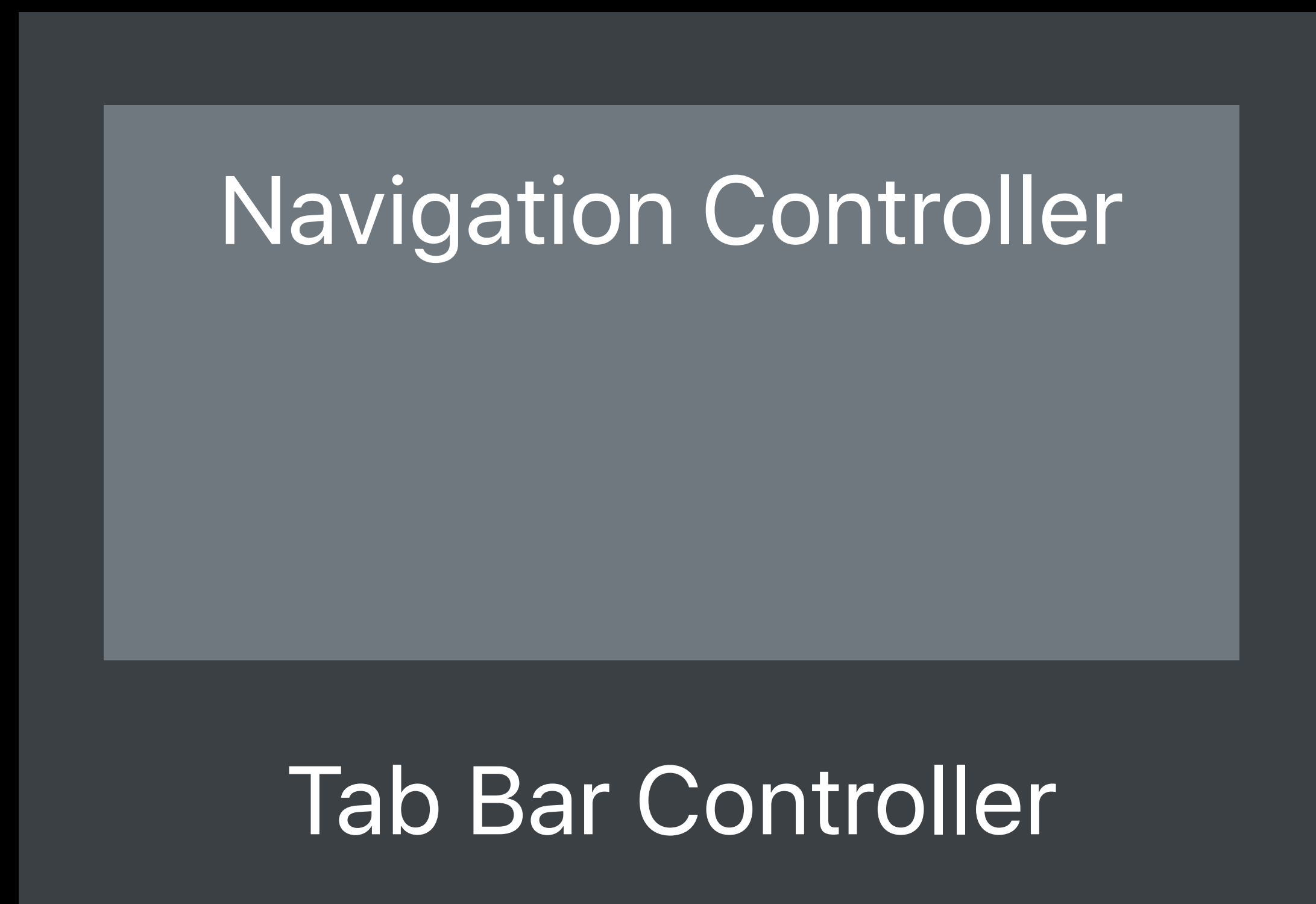
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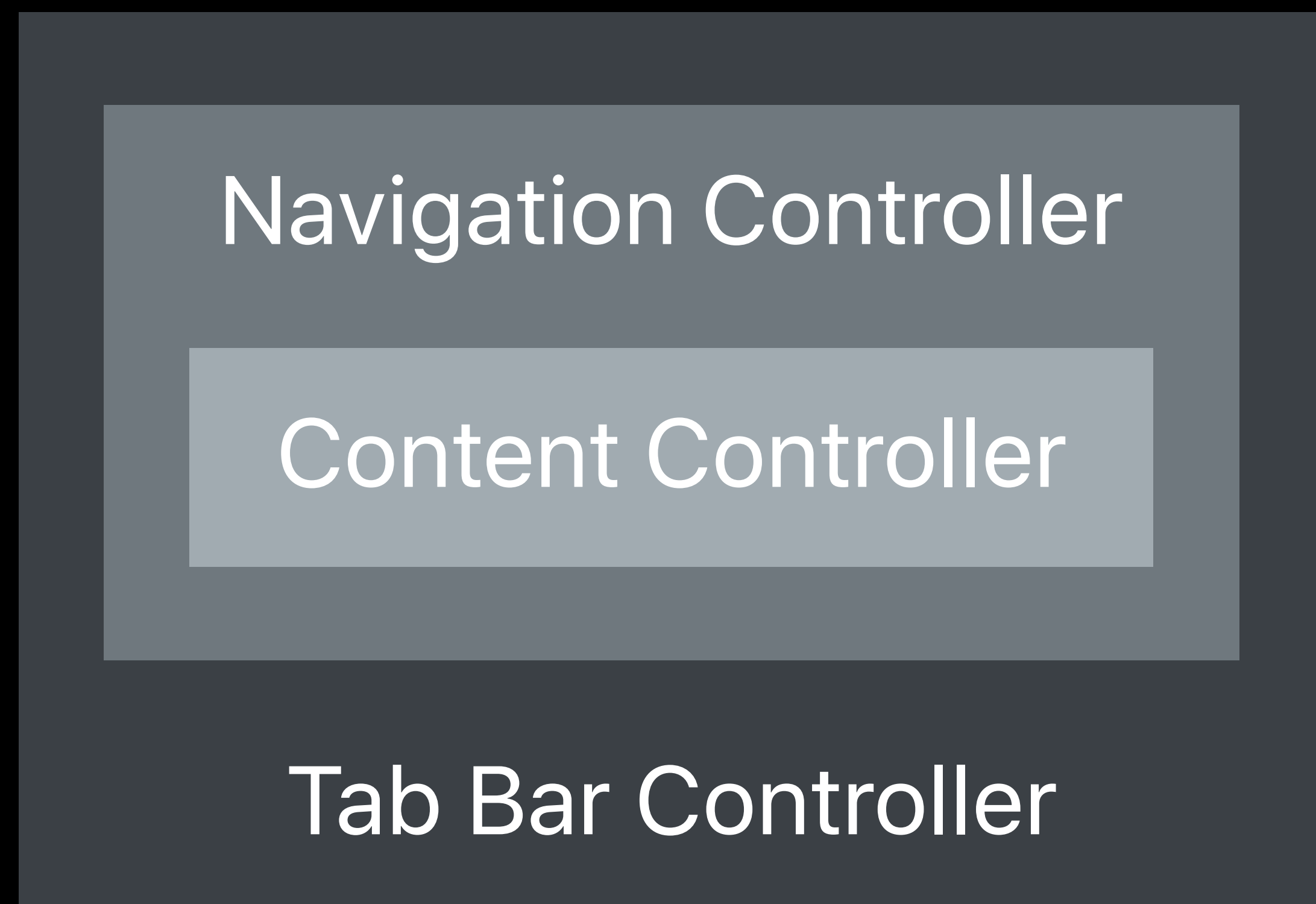


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Tab Bar Controller







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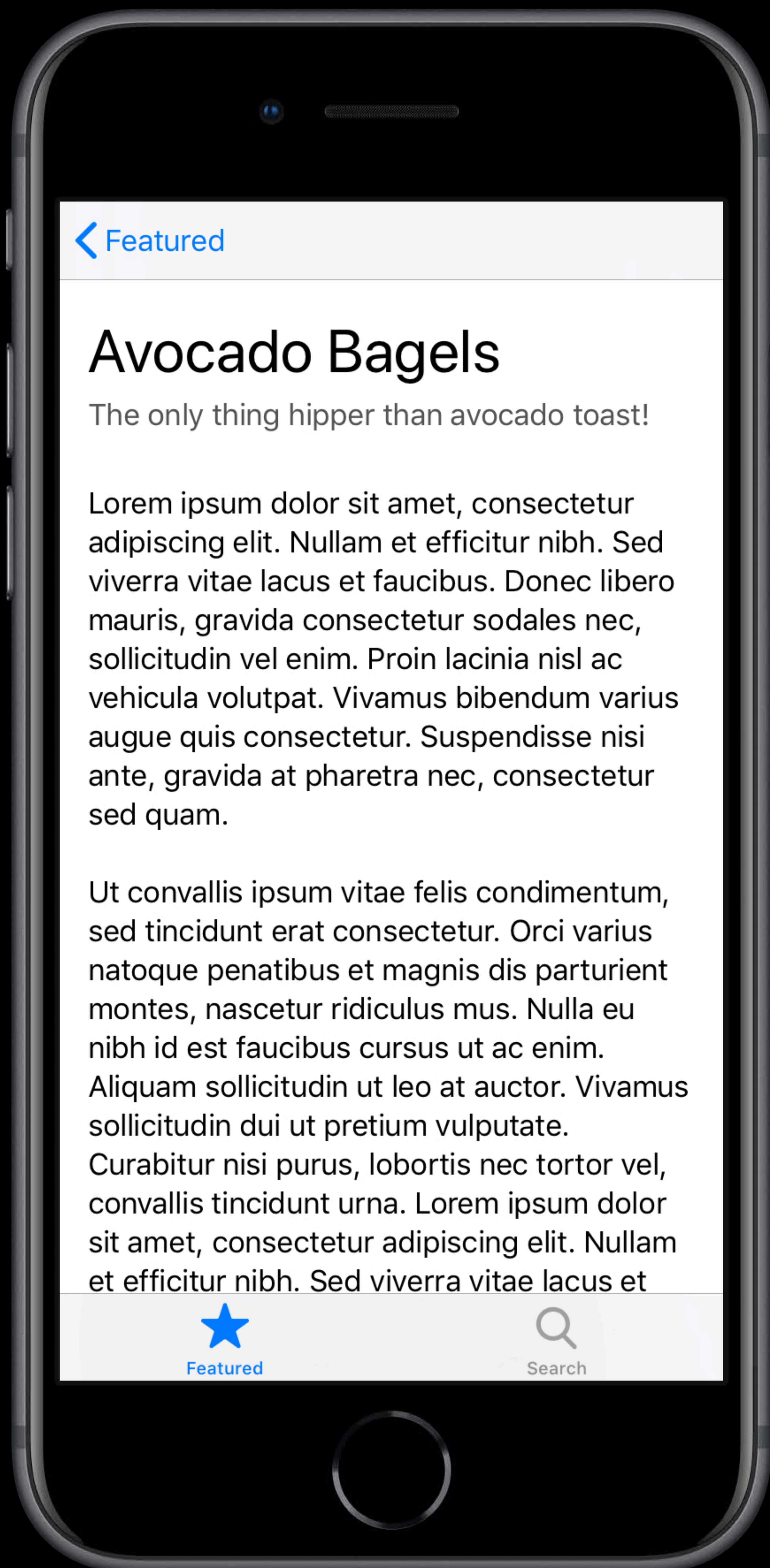
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```
class ArticleViewController: UIViewController {  
    override var prefersStatusBarHidden: Bool {  
        return true  
    }  
}
```



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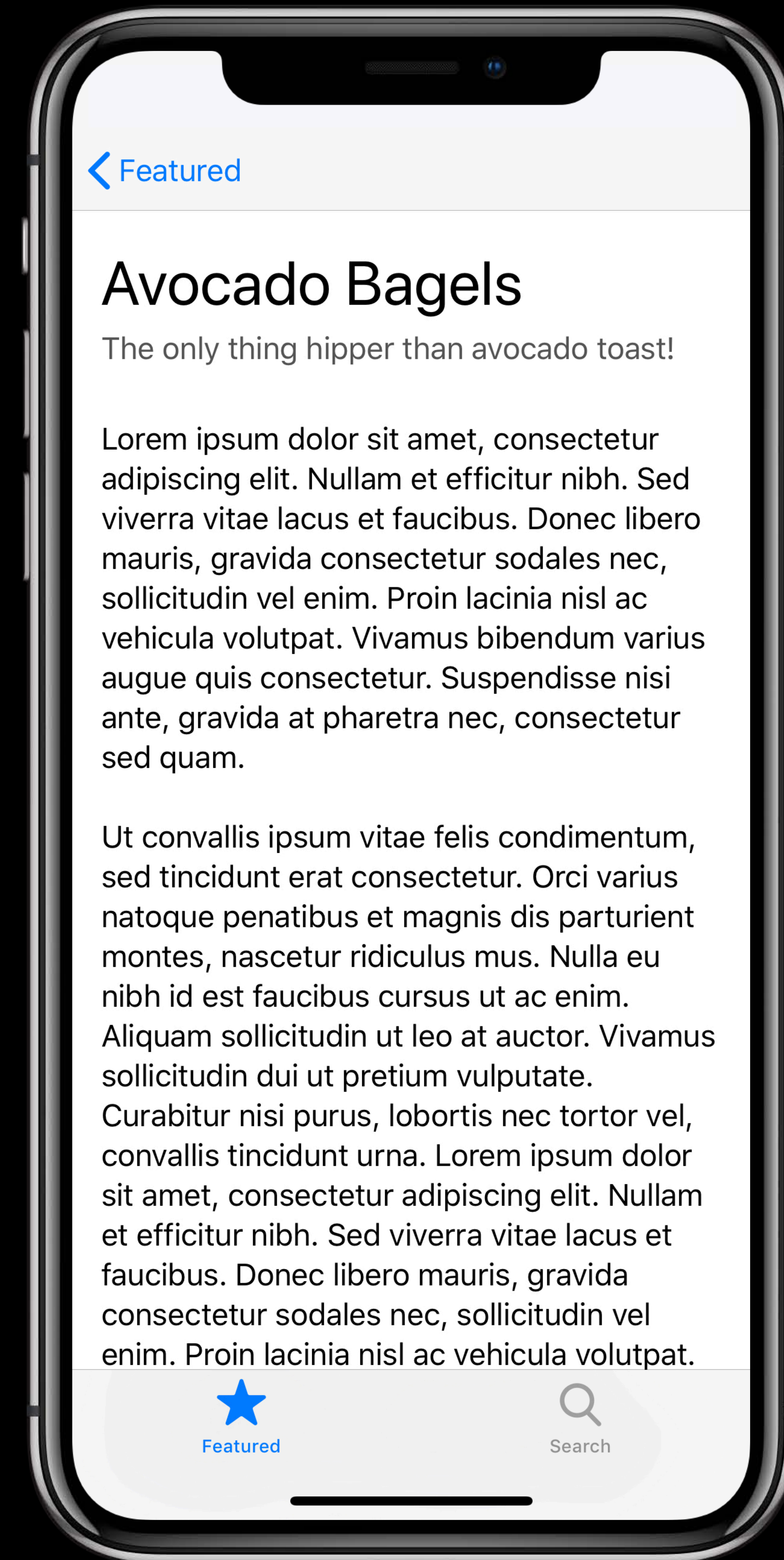
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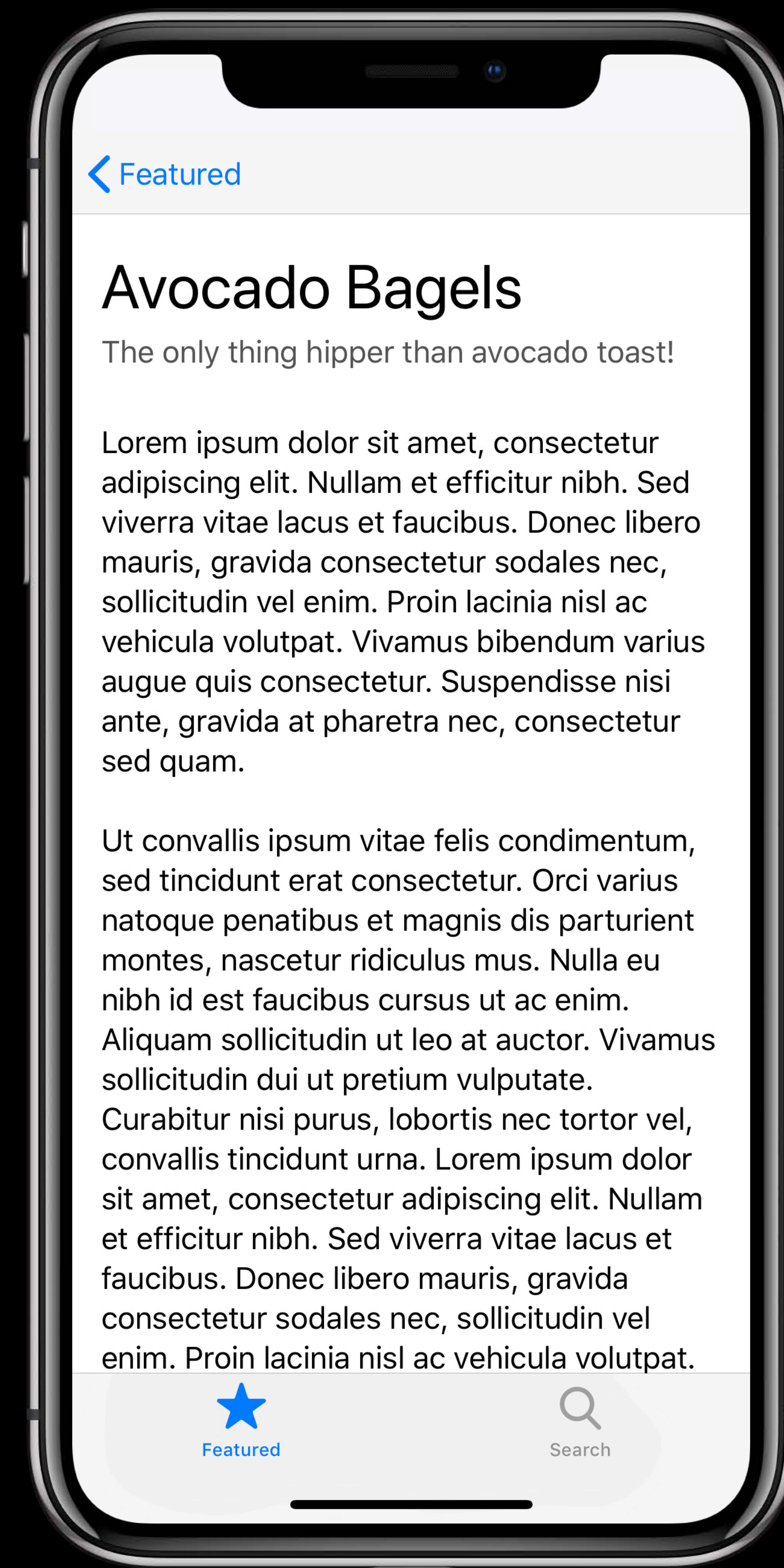
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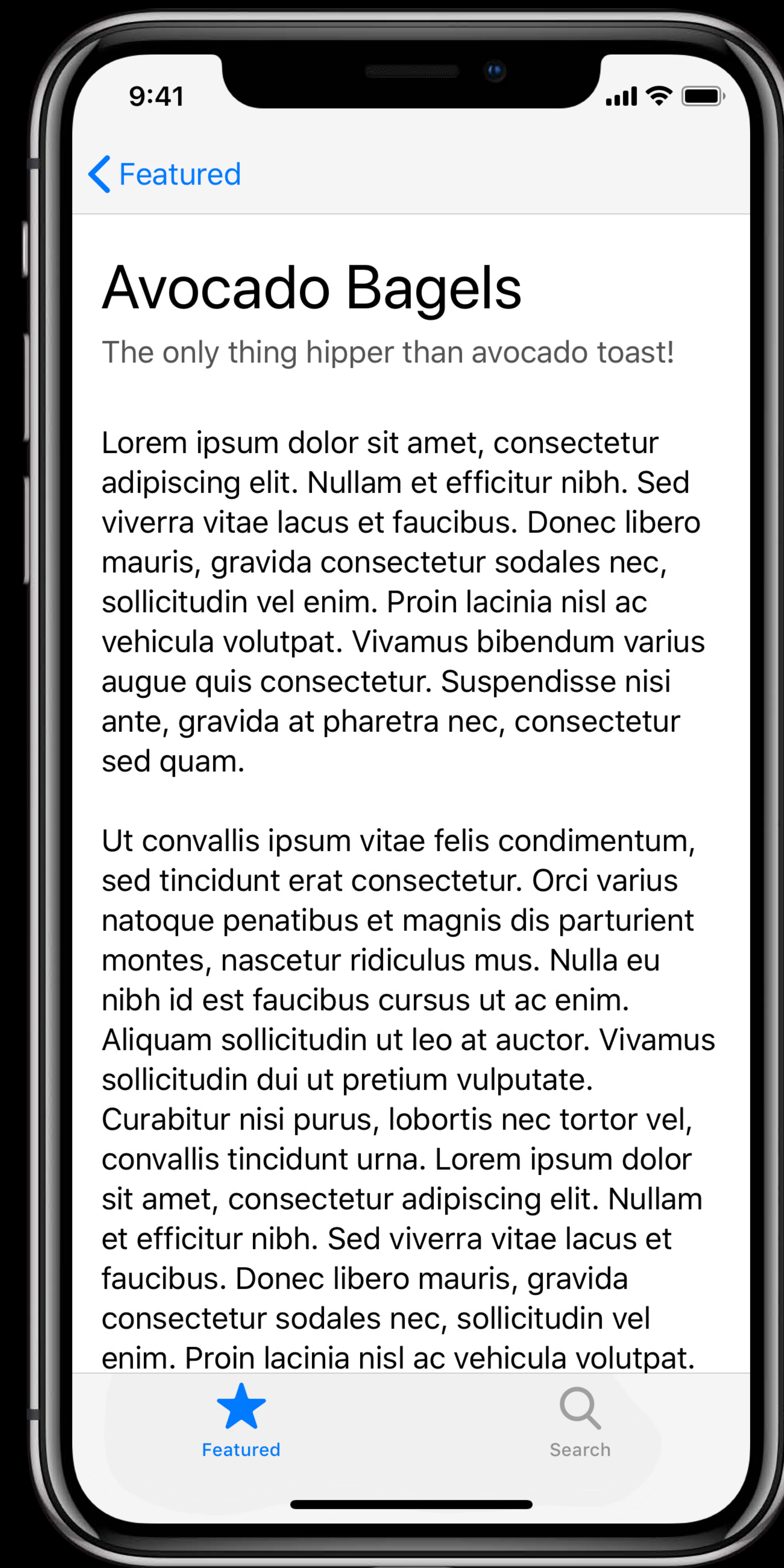


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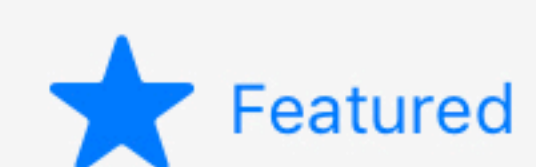
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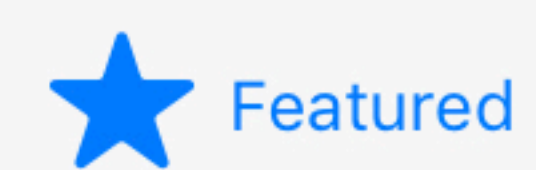
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```
extension UIView {  
    var readableContentGuide: UILayoutGuide { get }  
}
```

9:41 Thu Jan 1st

100%



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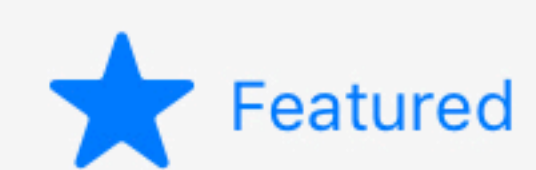
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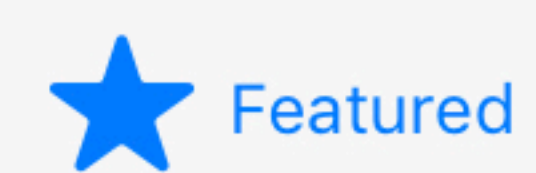
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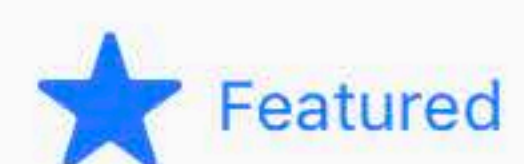
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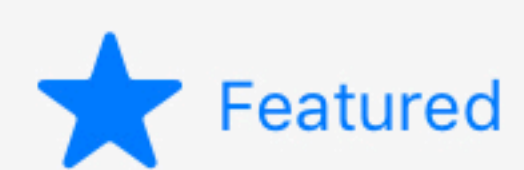
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### Montreal or New York?

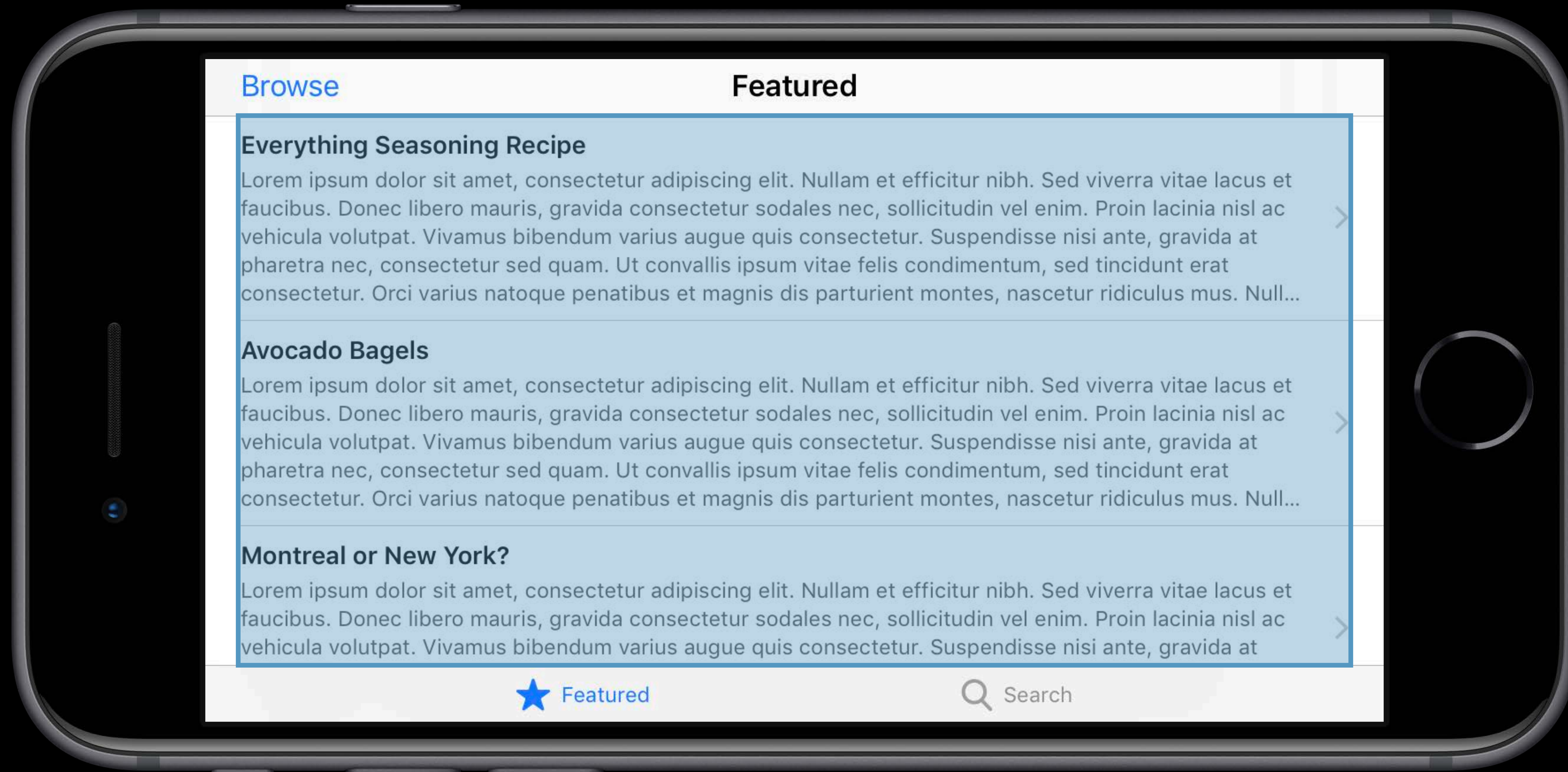
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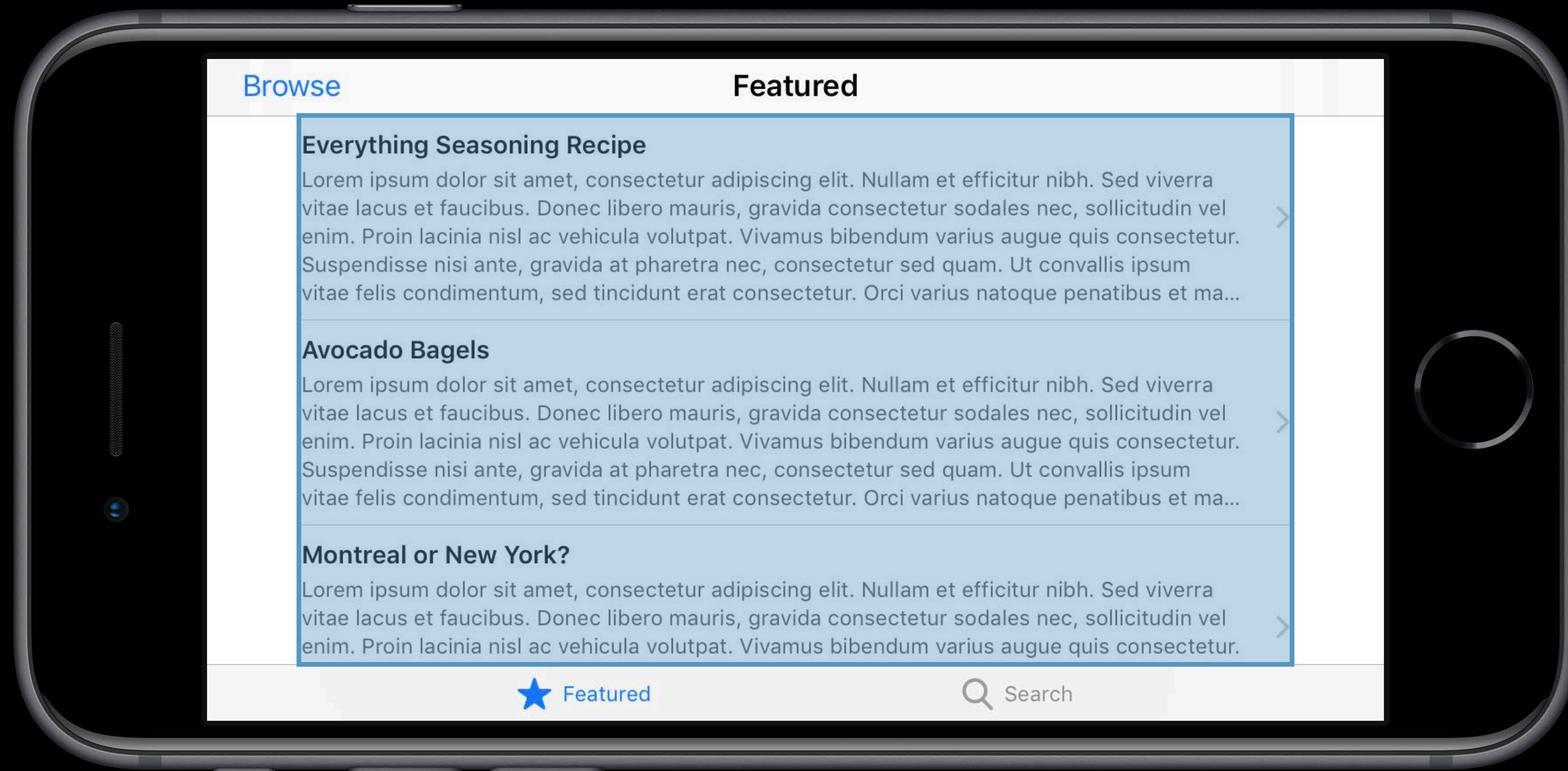
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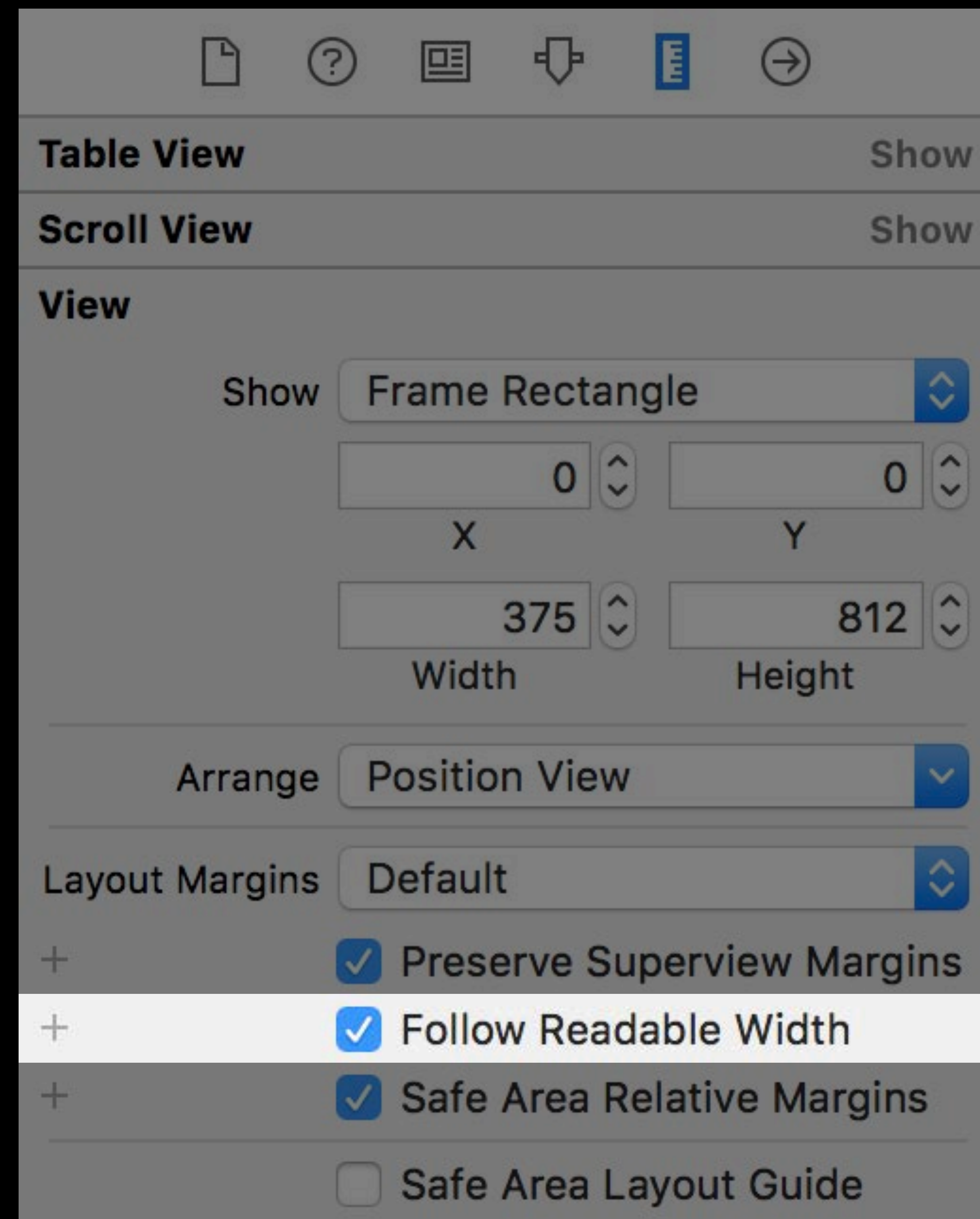
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tableView.cellLayoutMarginsFollowReadableWidth = false
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tableView.cellLayoutMarginsFollowReadableWidth = true
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tableView.cellLayoutMarginsFollowReadableWidth = true
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Content View

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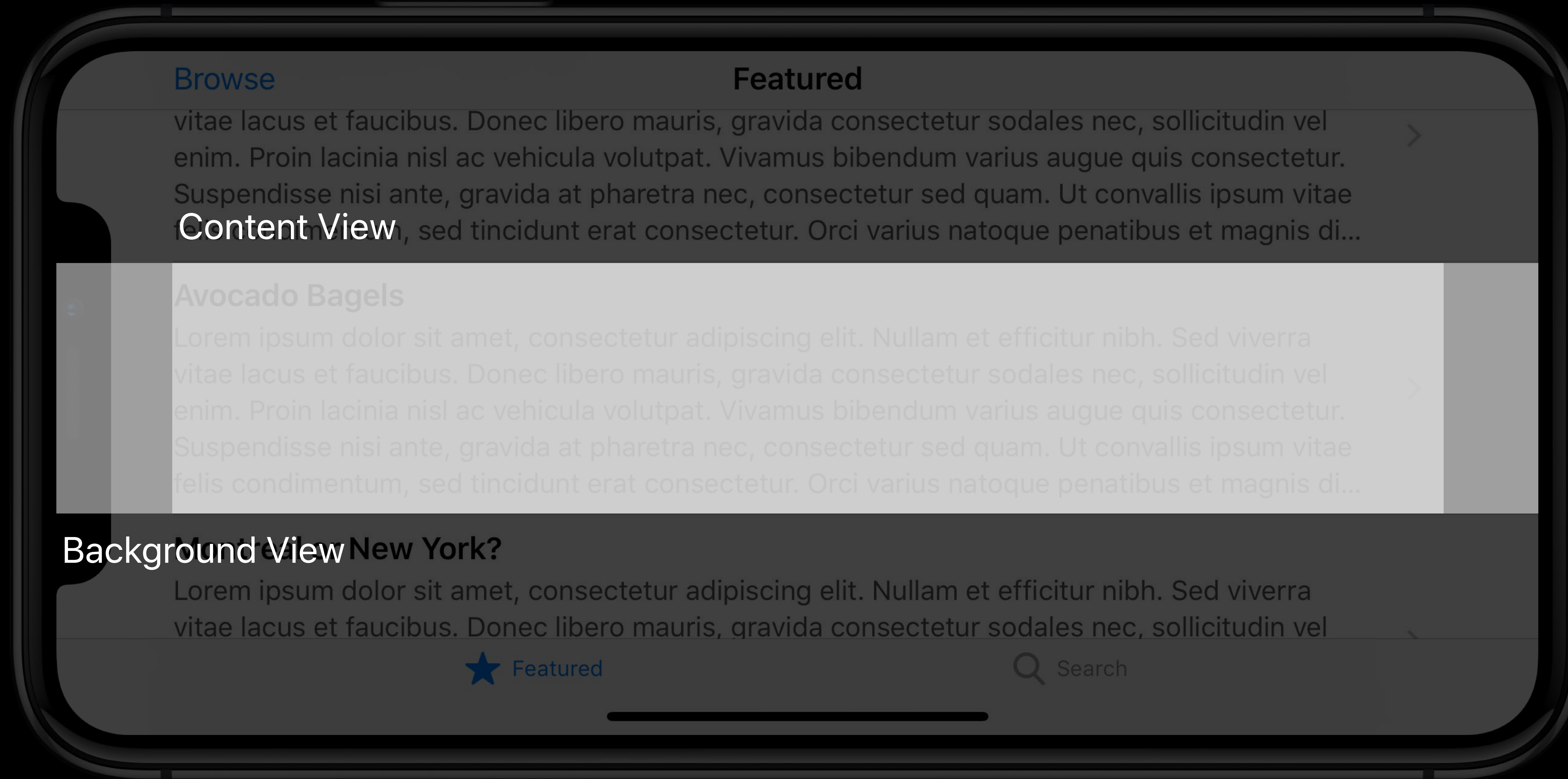
Background View

Must Eat in New York?  
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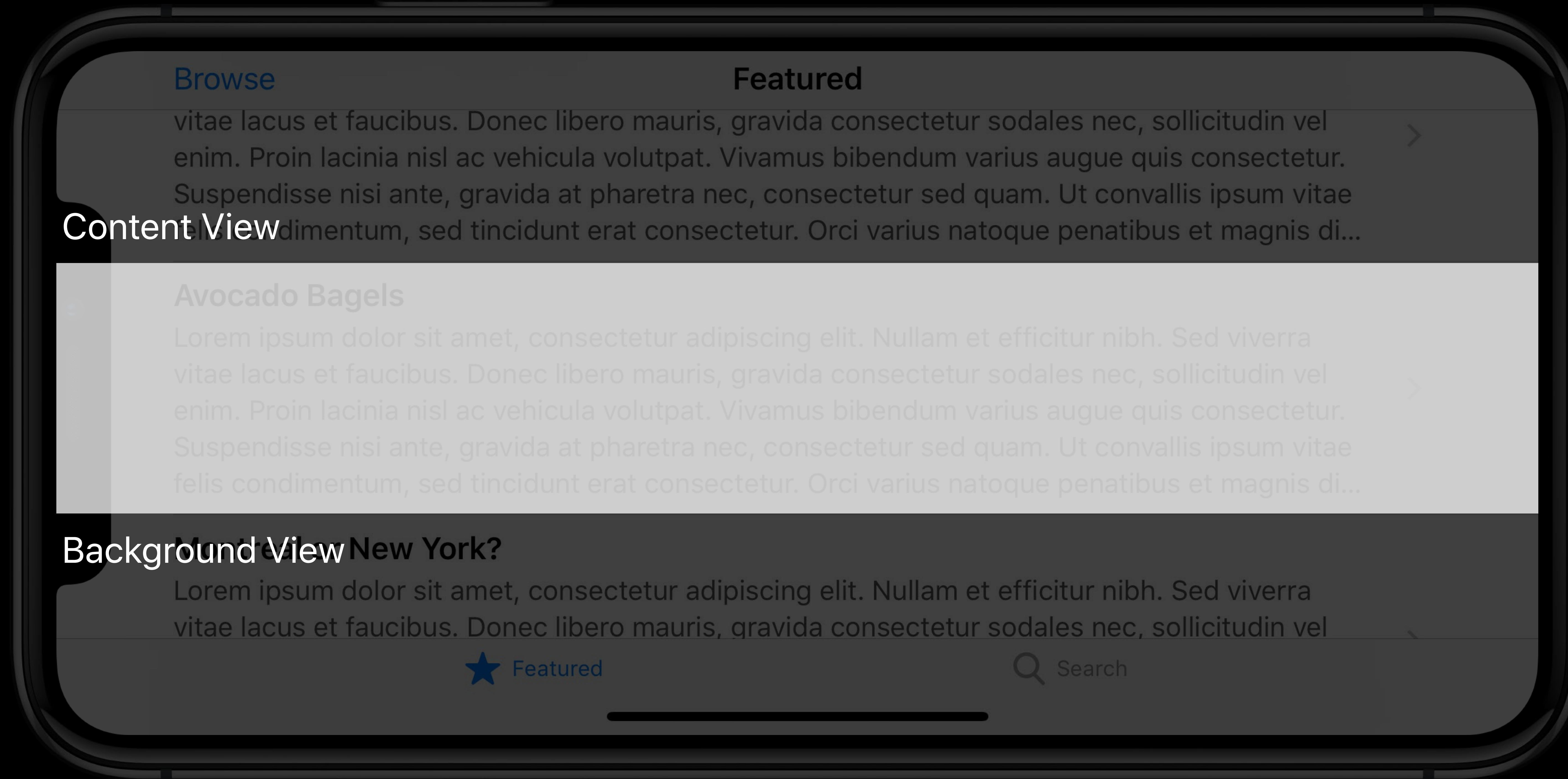
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tableView.insetsContentViewsToSafeArea = true
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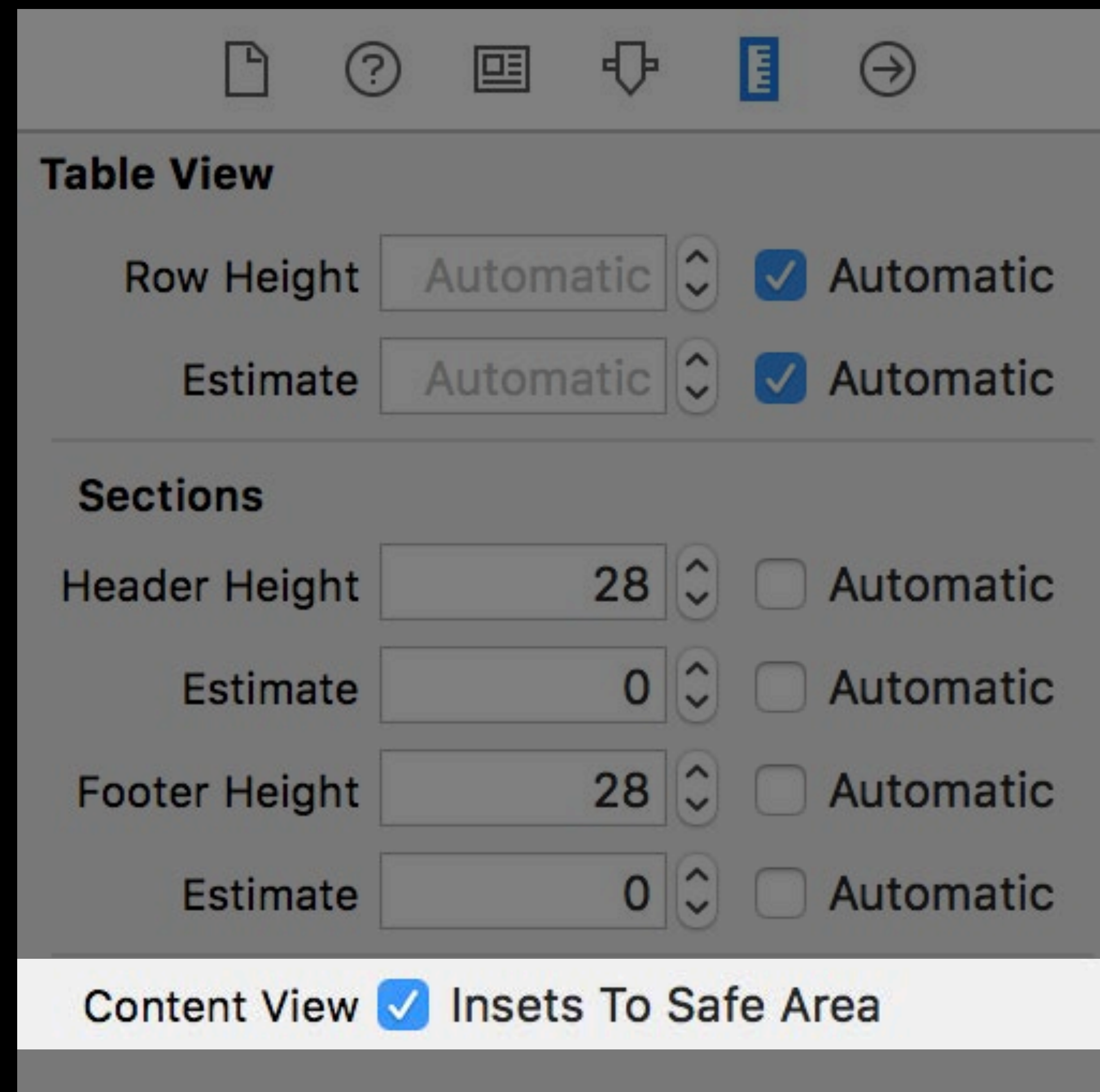




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tableView.insetsContentViewsToSafeArea = false
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tableView.insetsContentViewsToSafeArea = true
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### Montreal or New York?

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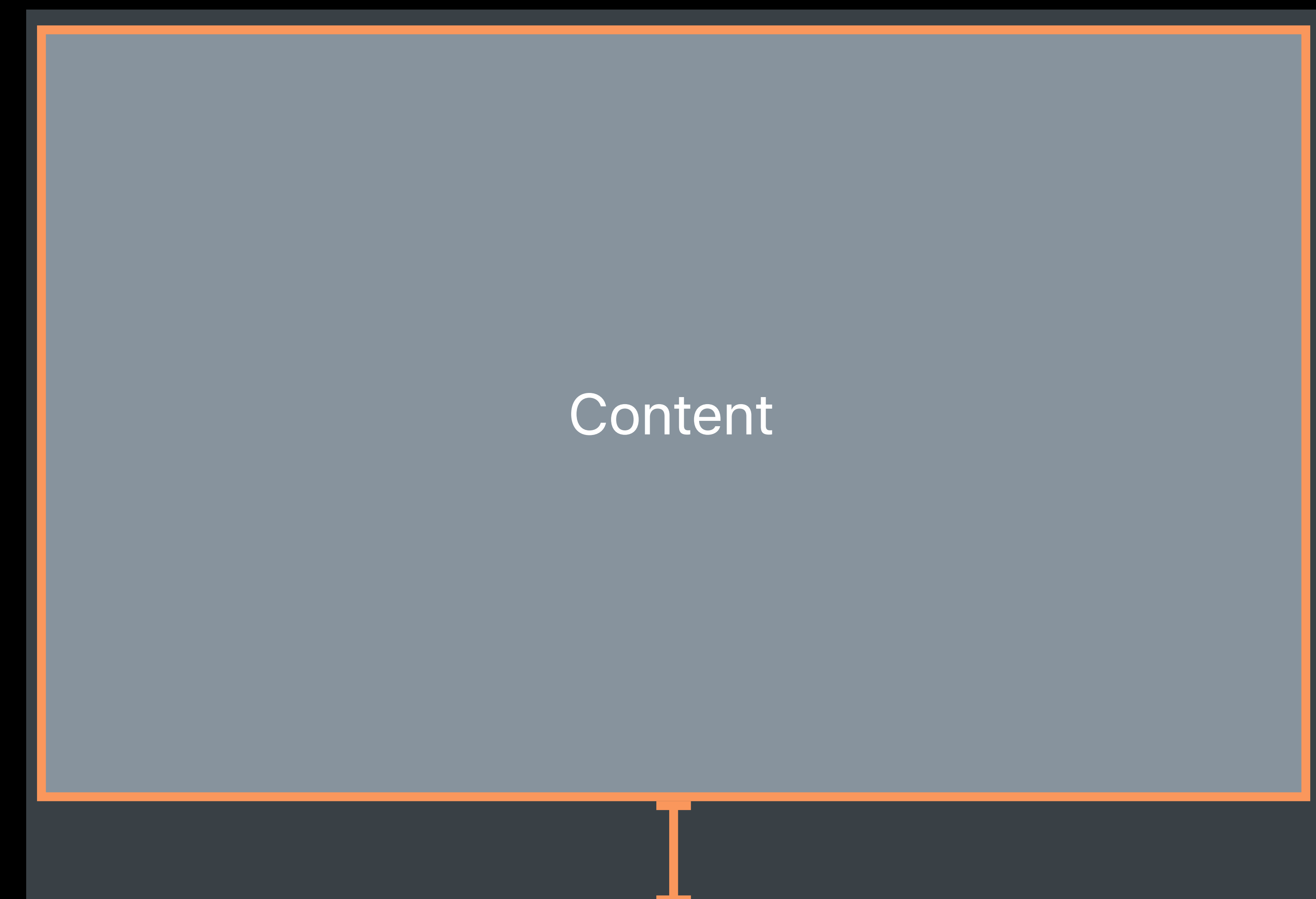
History  
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Last Year

No Safe Area Insets



Container View

With Bottom Safe Area Inset



Container View

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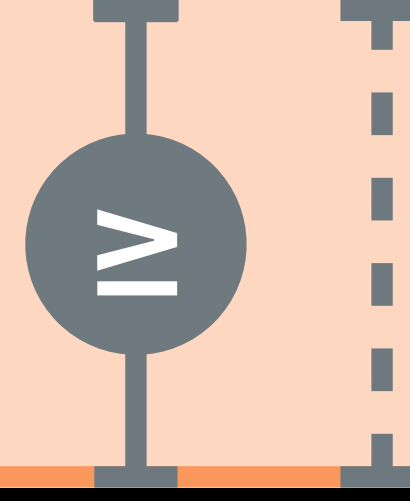
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# Design with Adaptive APIs

# More Information

<https://developer.apple.com/wwdc18/235>

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