

# Supplementary Views (Section Headers and Footers)

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**Mark Moeykens**

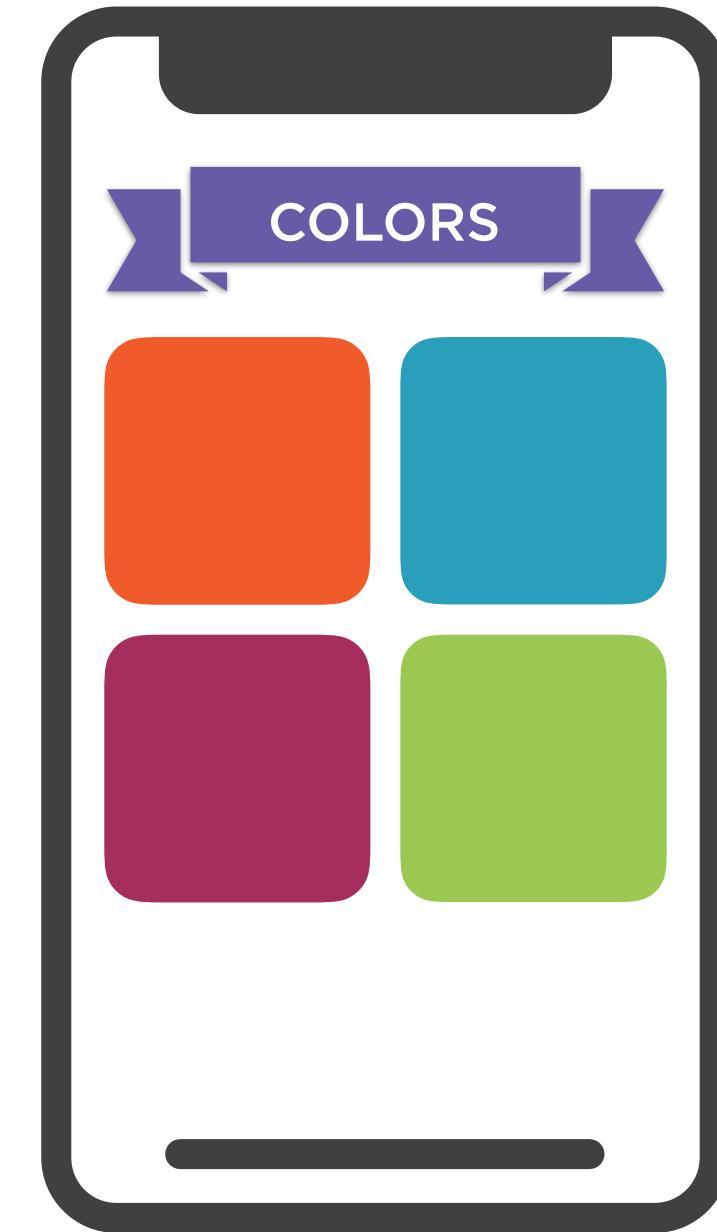
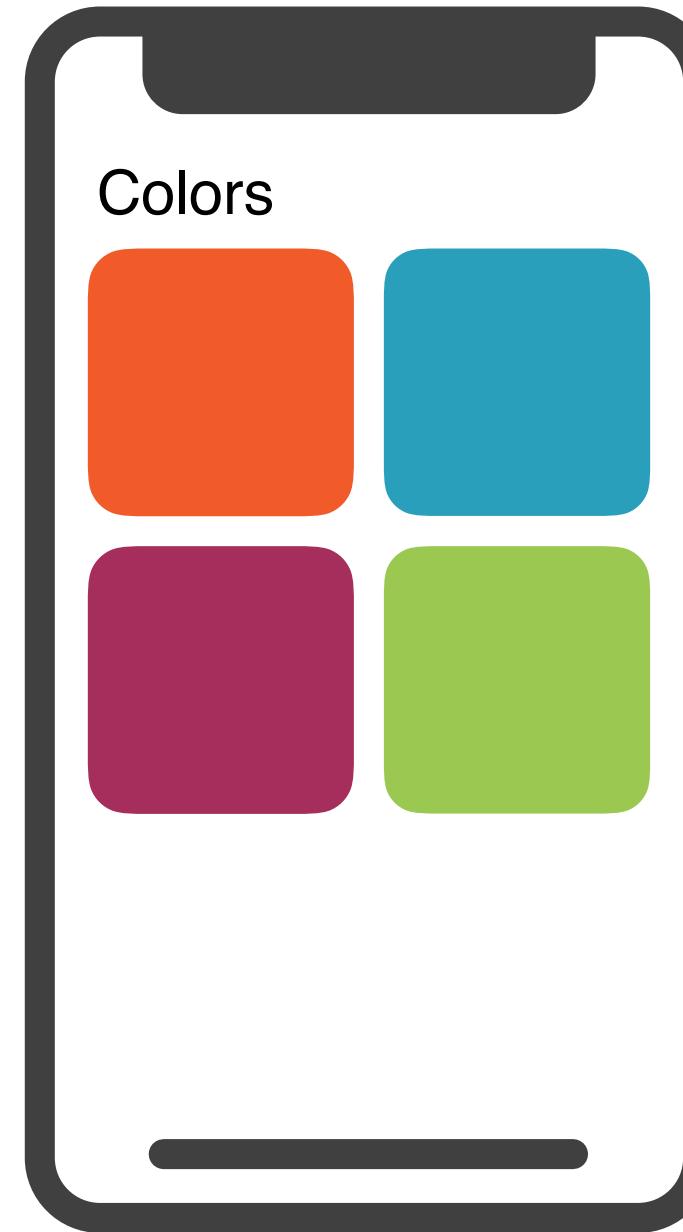
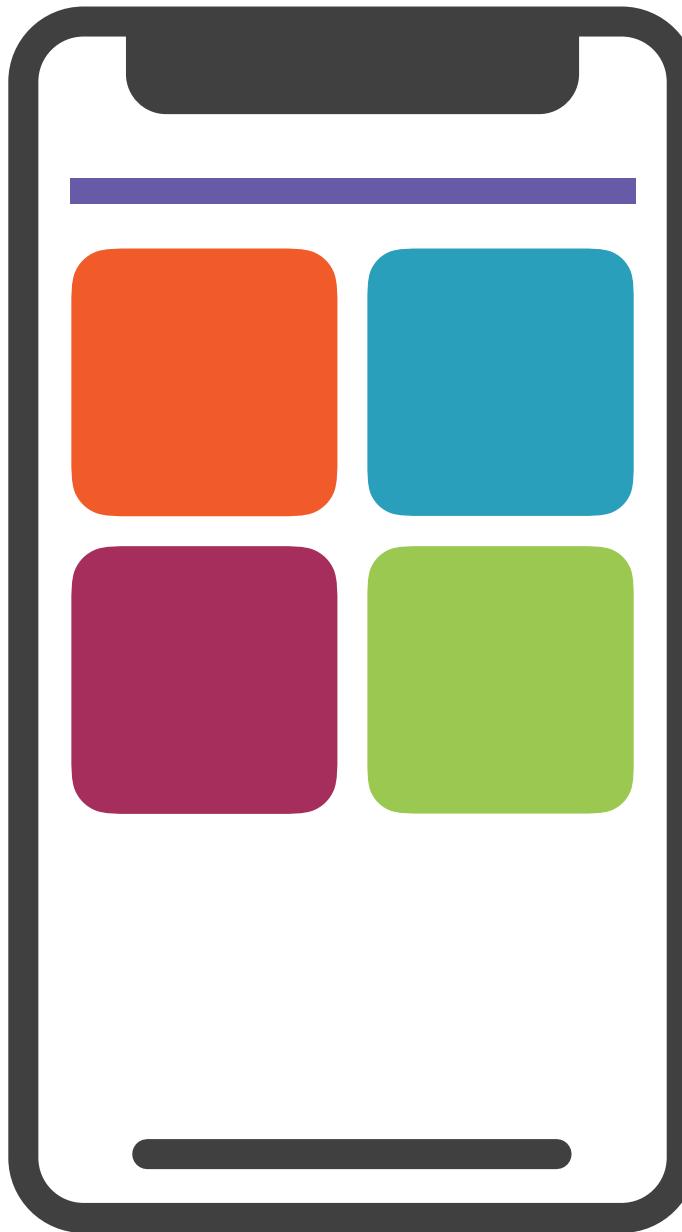
IOS DEVELOPER AND AUTHOR

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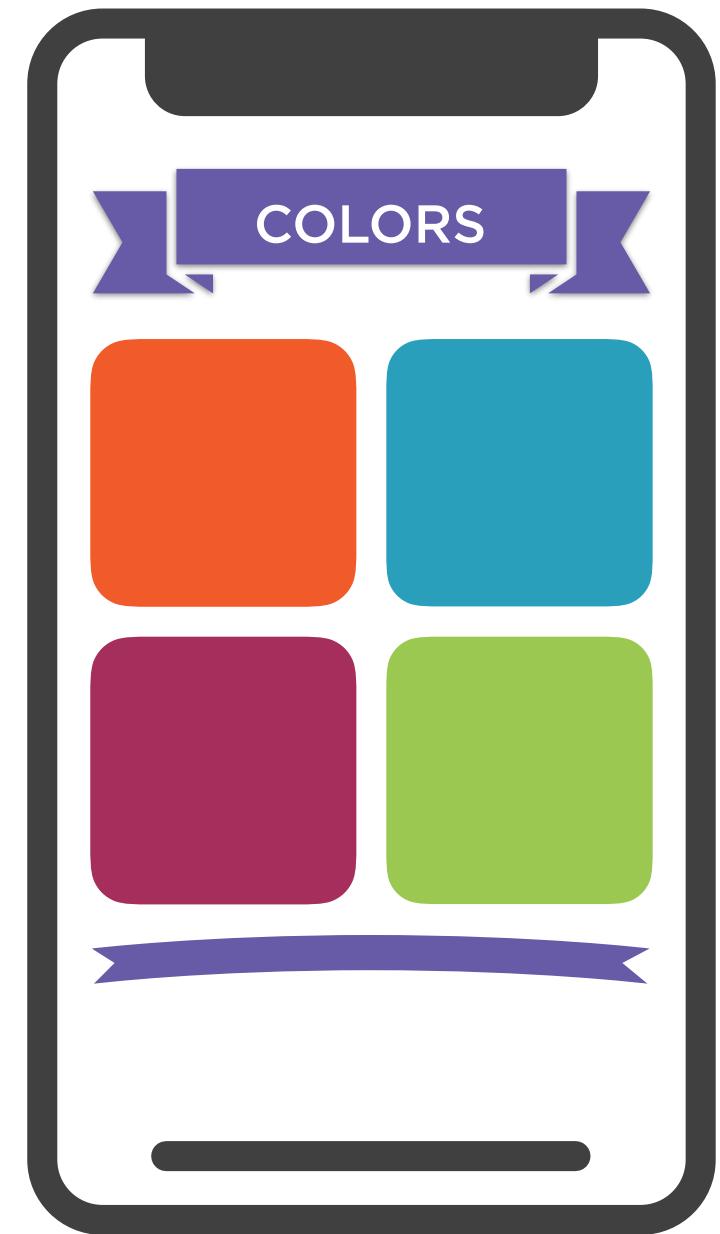
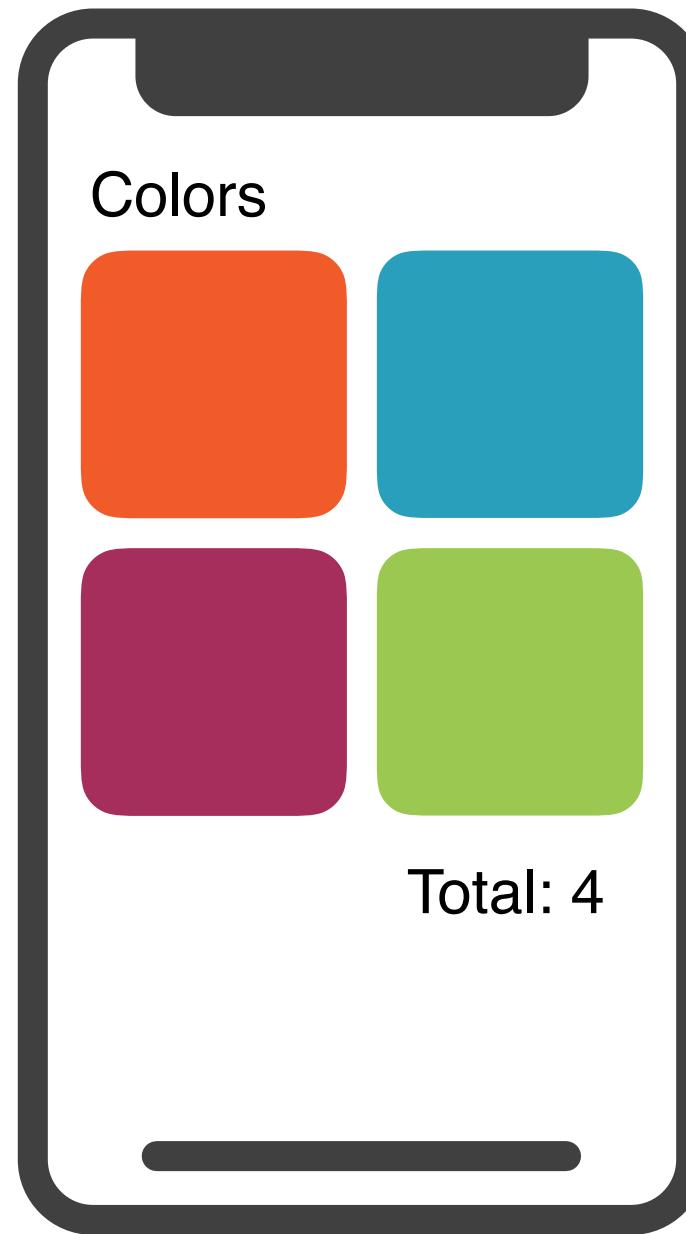
# Supplementary

Completing or enhancing something; additional, extra

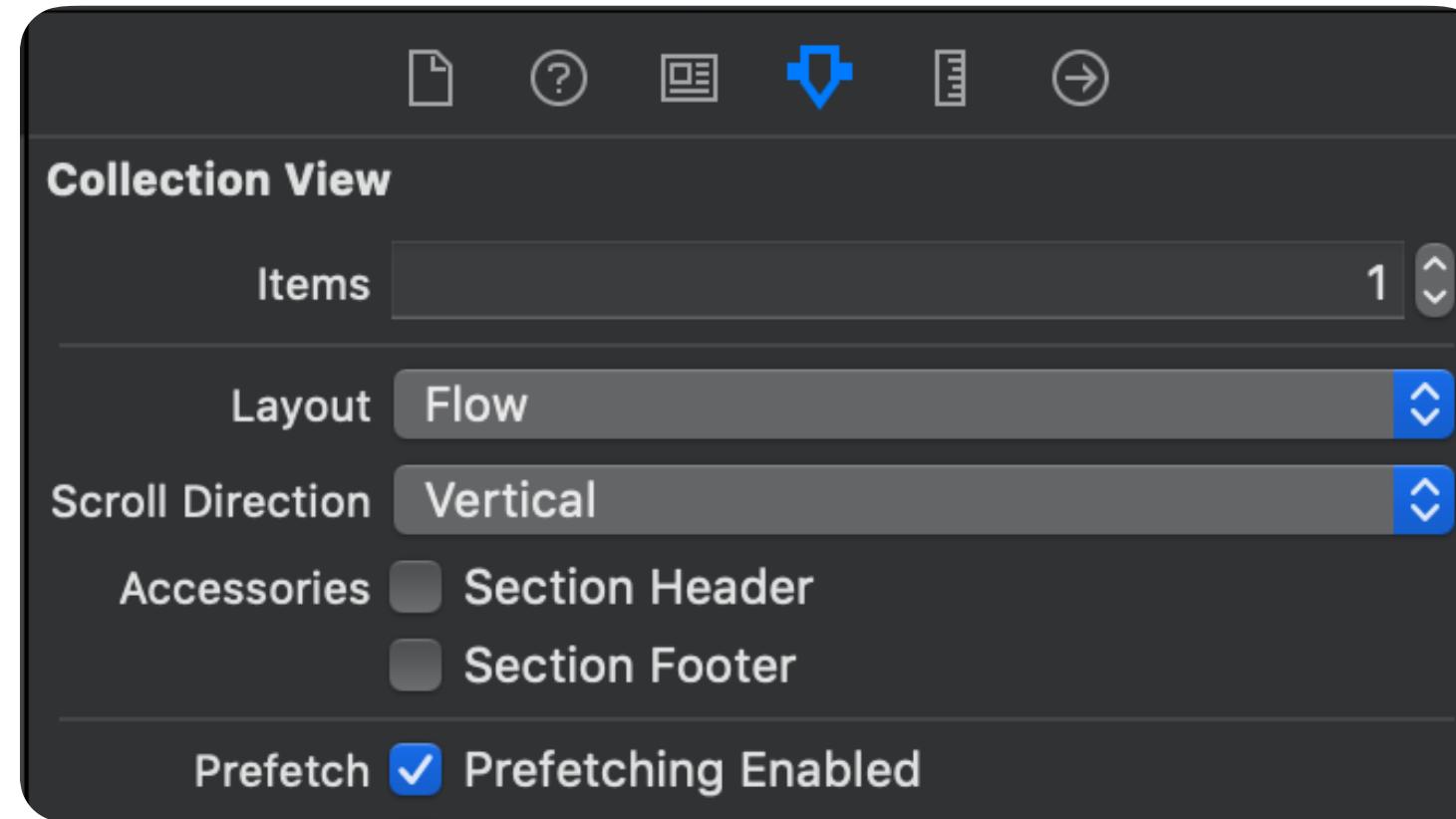
# Supplementary Views: Section Headers



# Supplementary Views: Section Footers

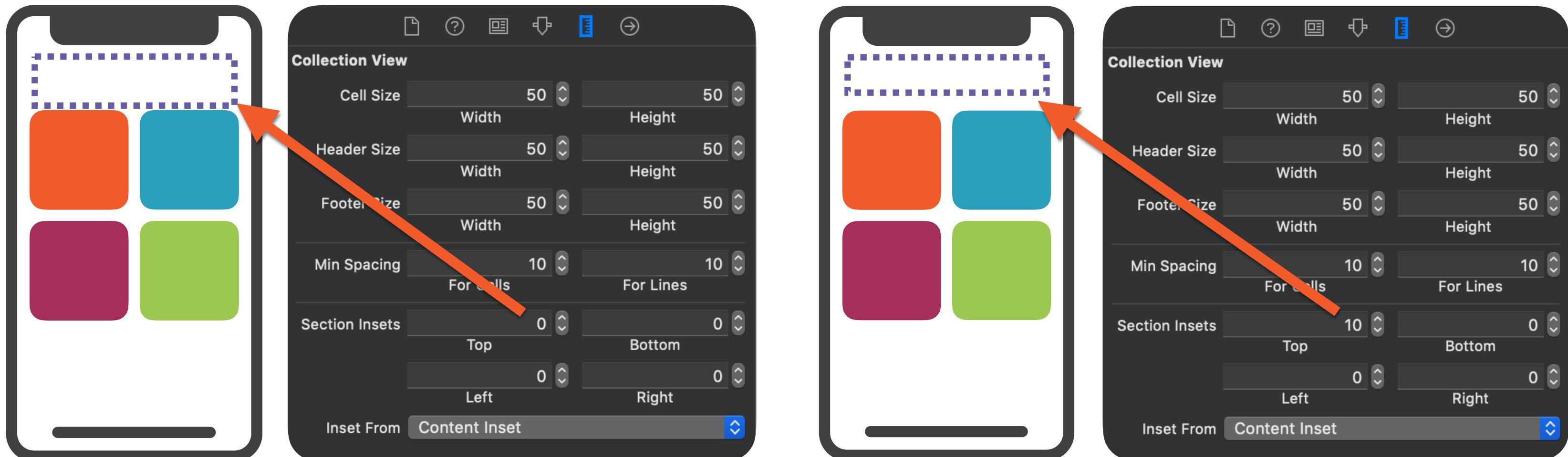


# Adding Supplementary Views

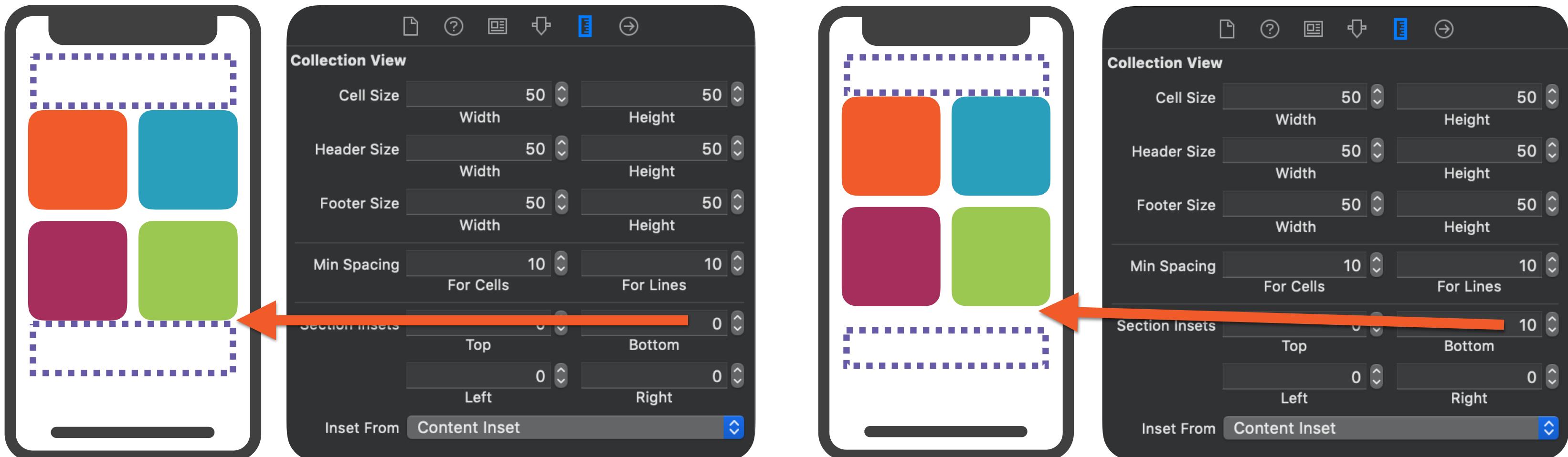


In the Attributes inspector, the supplementary views are listed under Accessories

# Spacing and Supplementary Views



# Spacing and Supplementary Views



# Demo

## Working With Supplementary Views

- Adding a Section Header
- Customizing the Section Header

# Project Files



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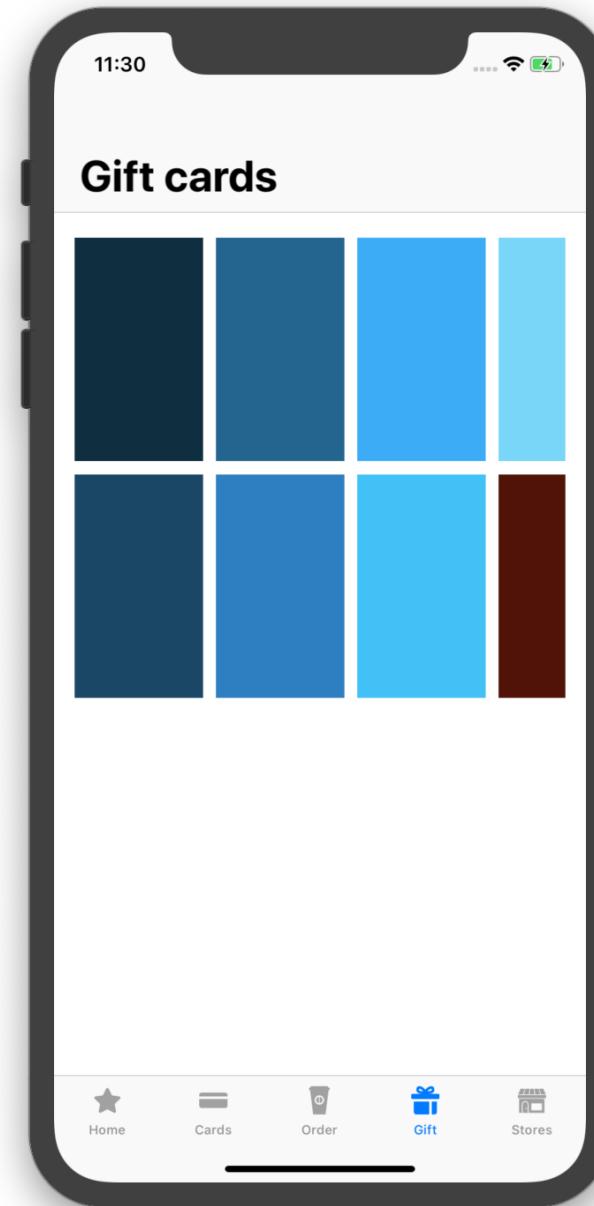
[Transcript](#)

**Exercise files**

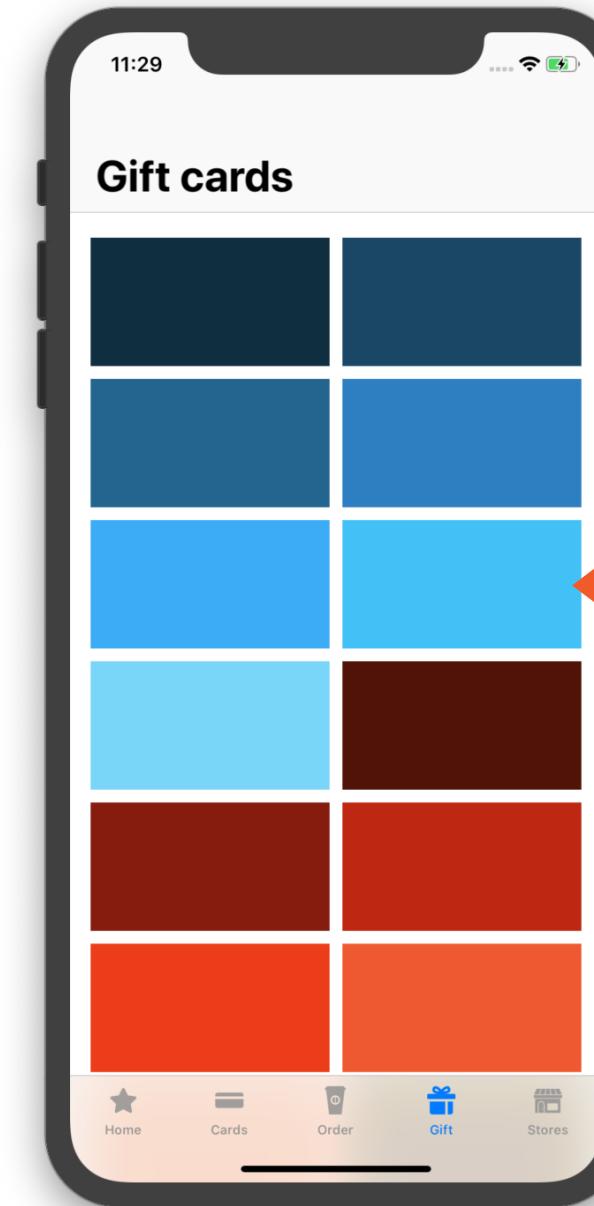
[Discussion](#)

[Recommended](#)

# Use the Vertical Scrolling Collection View Project



Horizontal Scrolling



Vertical Scrolling

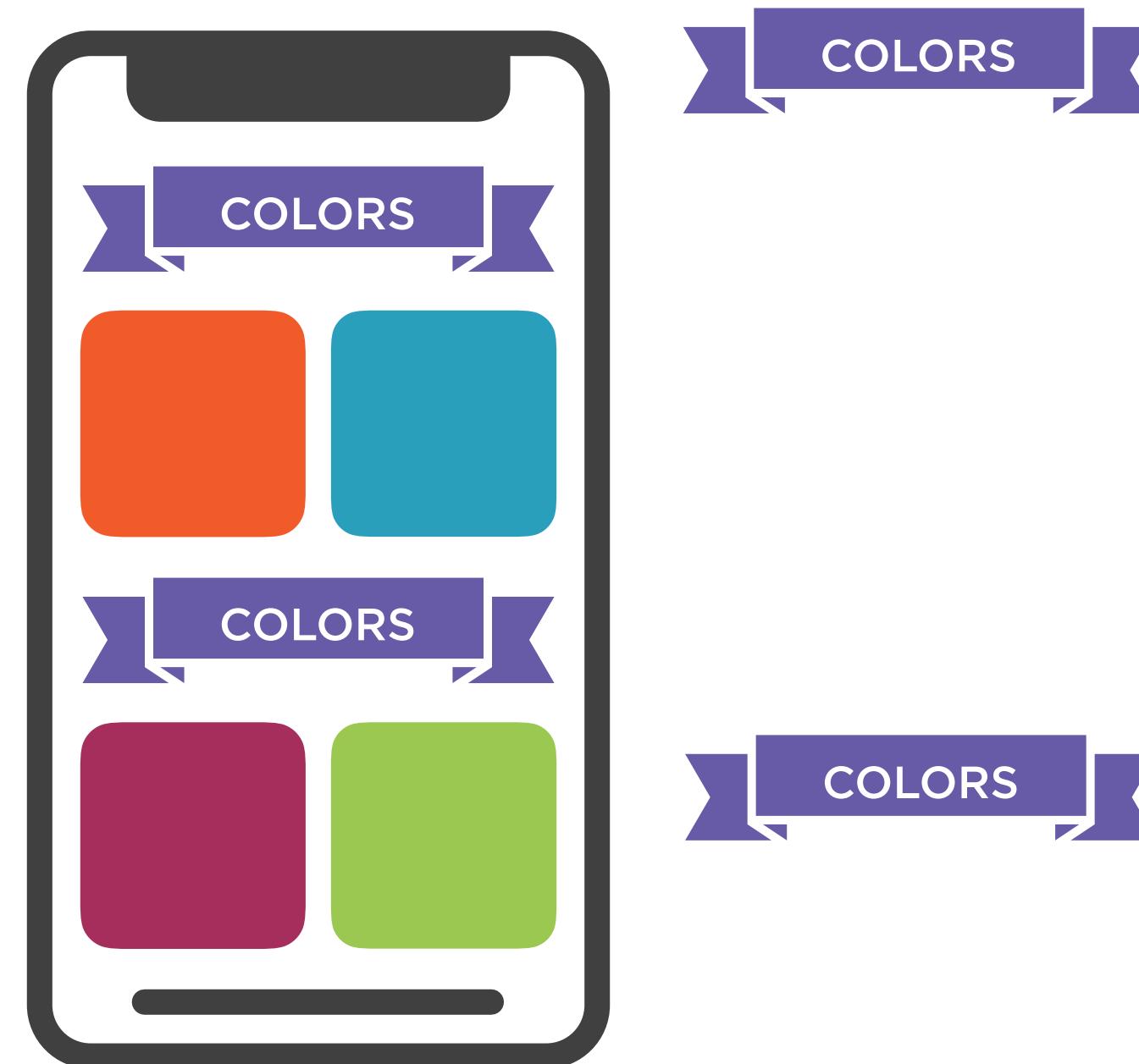
# UICollectionViewDataSource

Asks your data source object to provide a supplementary view to display in the collection view

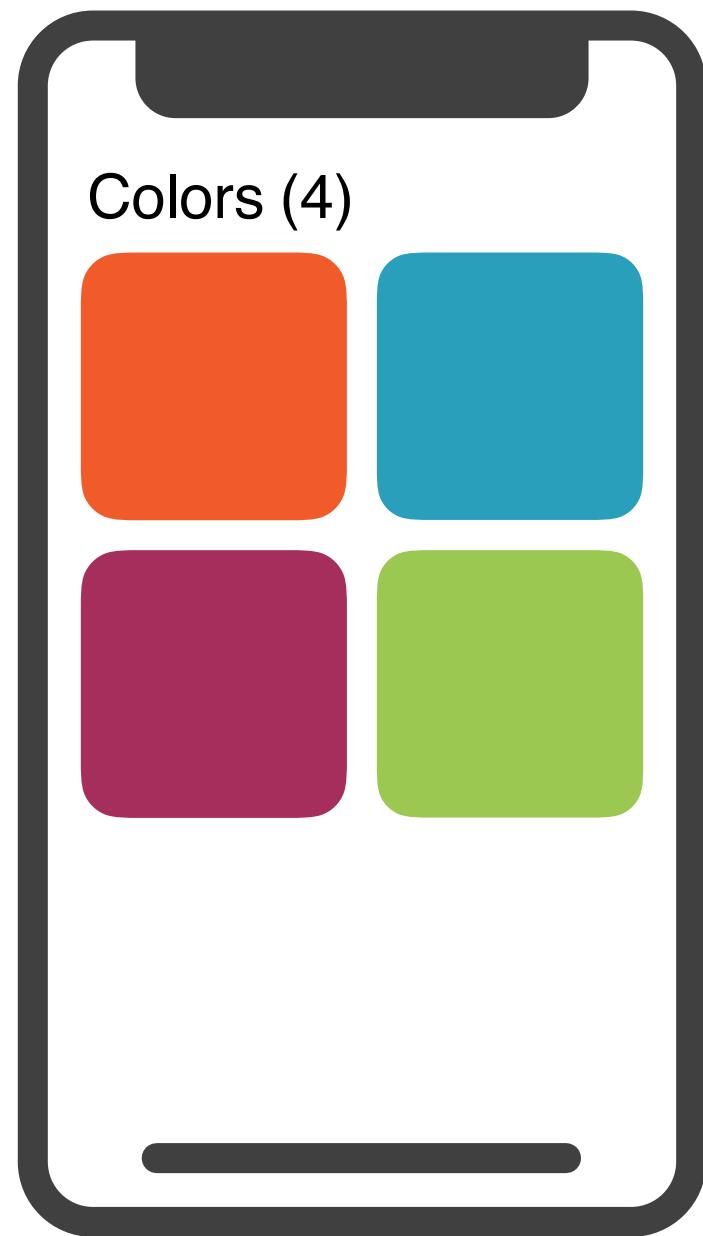
```
func collectionView(_ collectionView: UICollectionView, viewForSupplementaryElementOfKind  
kind: String, at indexPath: IndexPath) -> UICollectionViewReusableView {
```

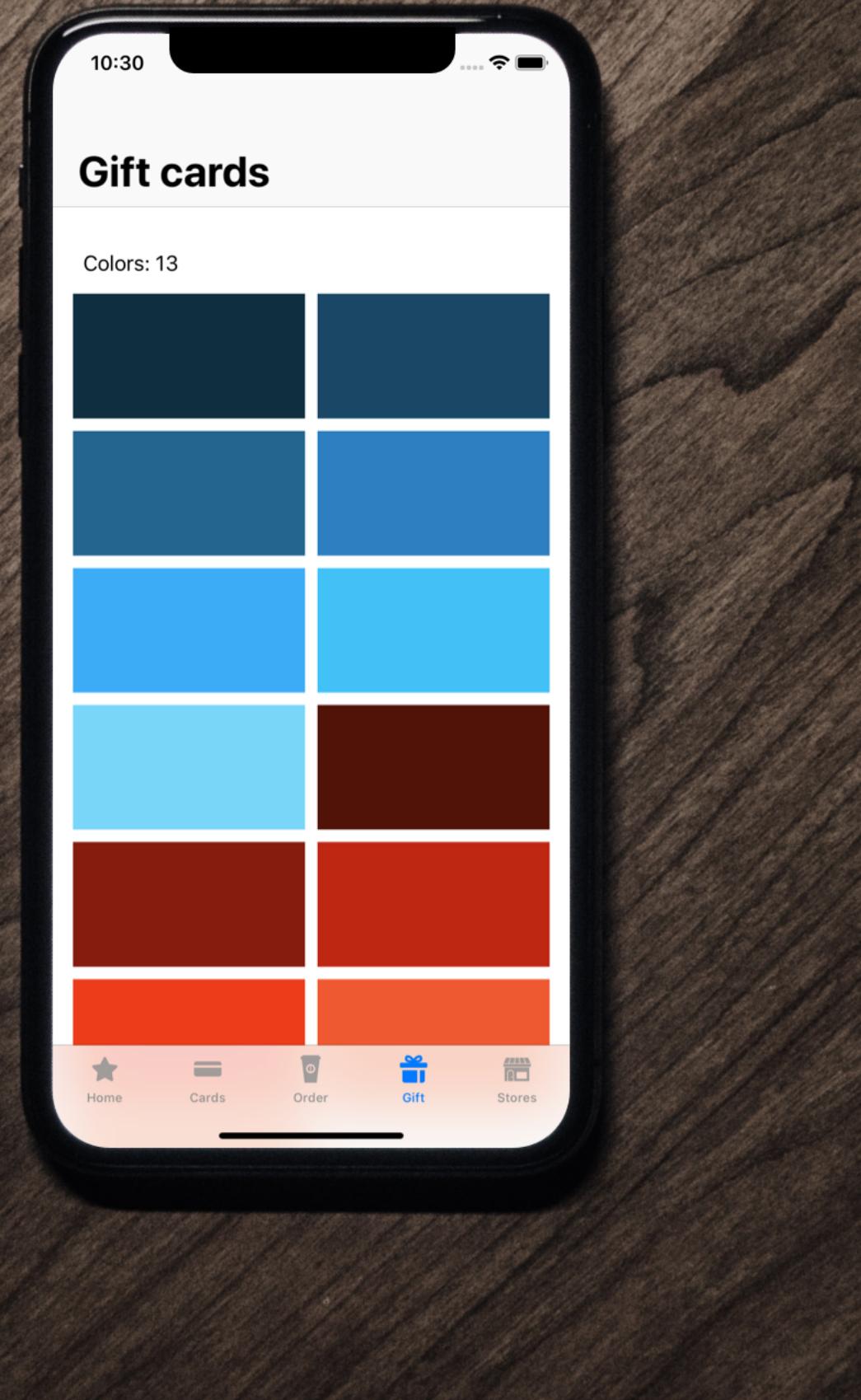
```
let view = collectionView.dequeueReusableCellSupplementaryView(  
    ofKind: UICollectionView.elementKindSectionHeader,  
    withReuseIdentifier: "sectionheader", for: indexPath)  
return view  
}
```

# viewForSupplementaryElementOfKind UICollectionViewDataSource



# Customize the Section Header





## Customizing Section Headers

- Examined the type
- Created new class to represent the section header
- Created an outlet to access the UI elements in the section header
- Updated properties of the UI elements

# Demo

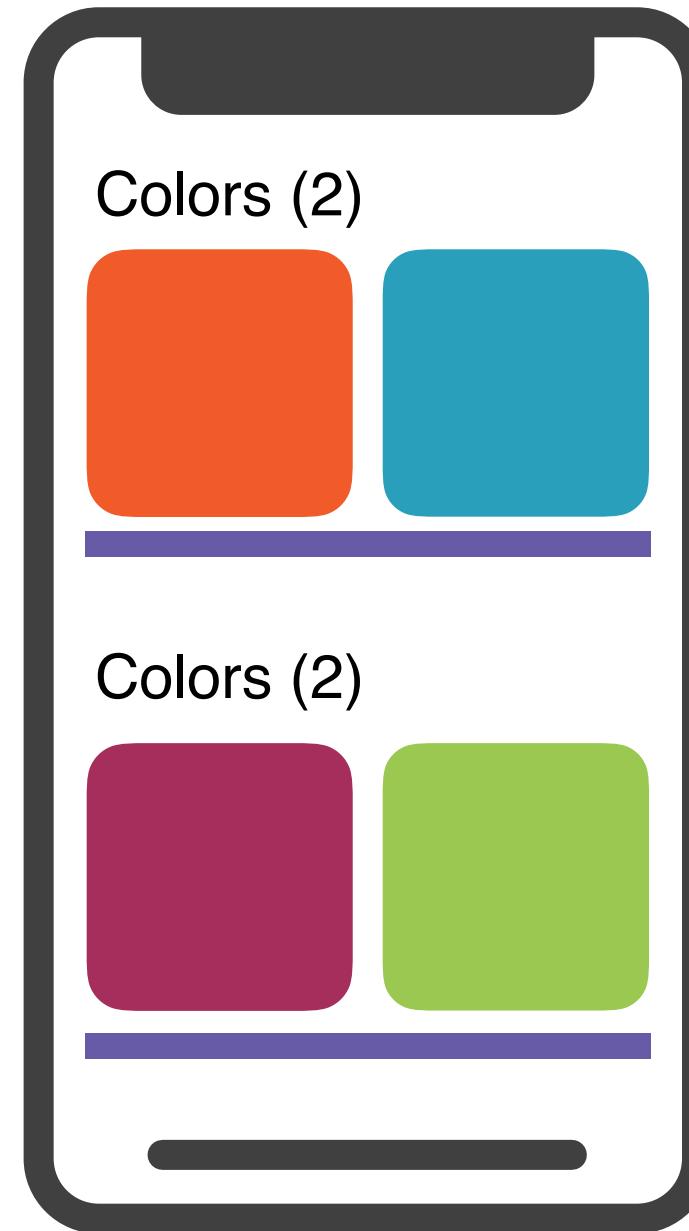
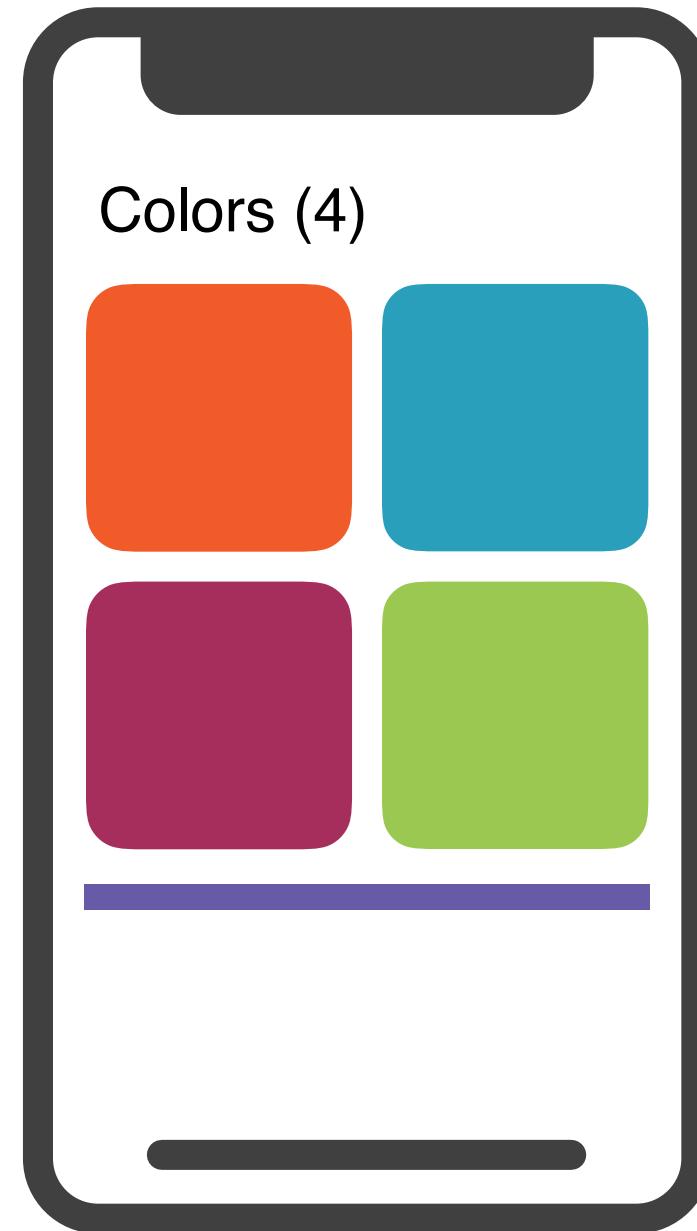
## Working With Supplementary Views

- Adding a Section Footer
- Customizing the Section Footer

# Multiple Sections in Collection Views

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# Multiple Sections



# Demo

## Working With Multiple Sections

- Split up our test data into multiple sections
- Implement new `numberOfSections` function from the `UICollectionViewDataSource`
- Update code to look at which section it is in

# Arrays of Arrays

## Team Arrays Data

Team 1 Array



Team 2 Array



## My Teams

Team 1 (4)



Team 2 (3)

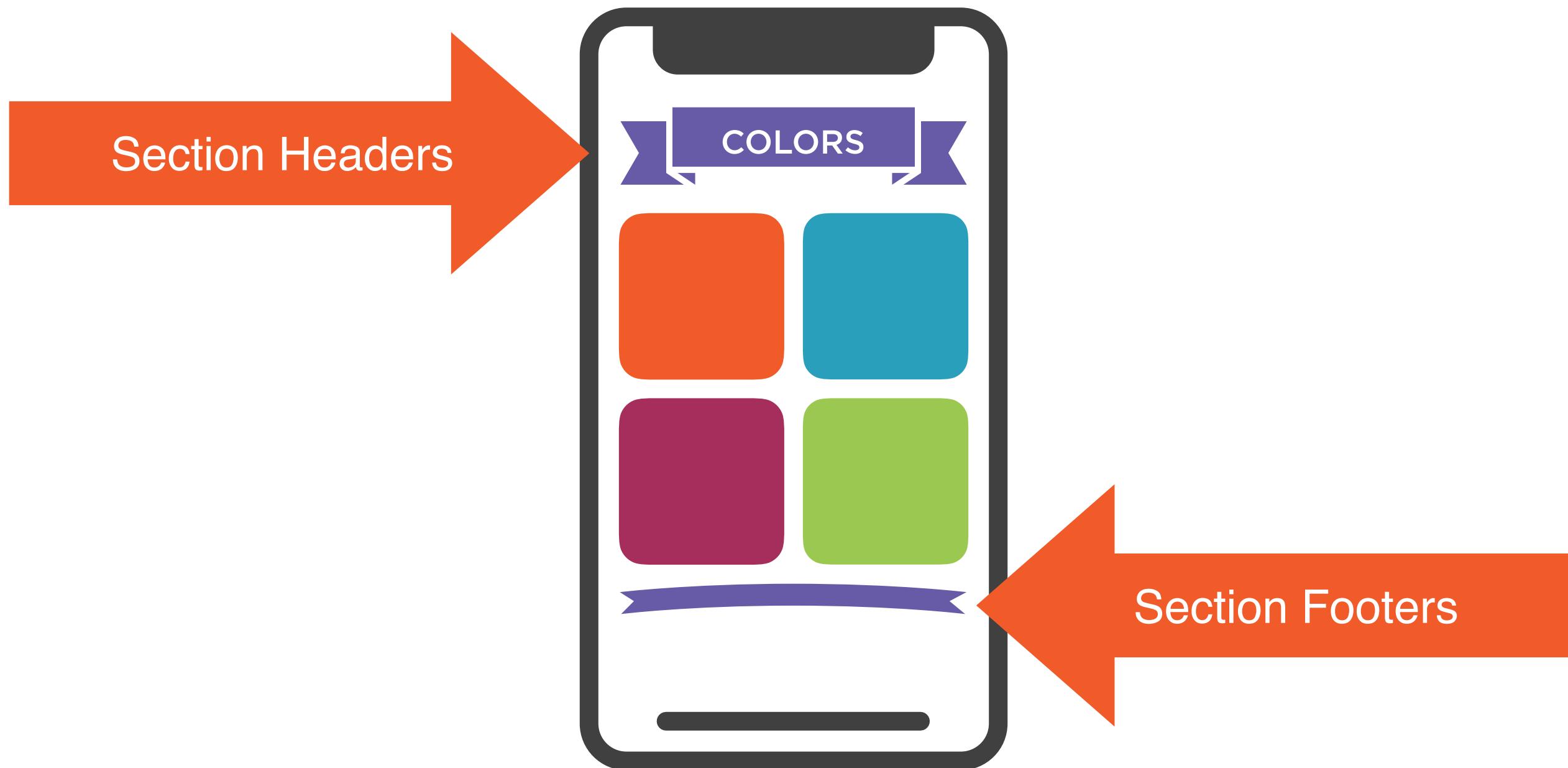


# Summary

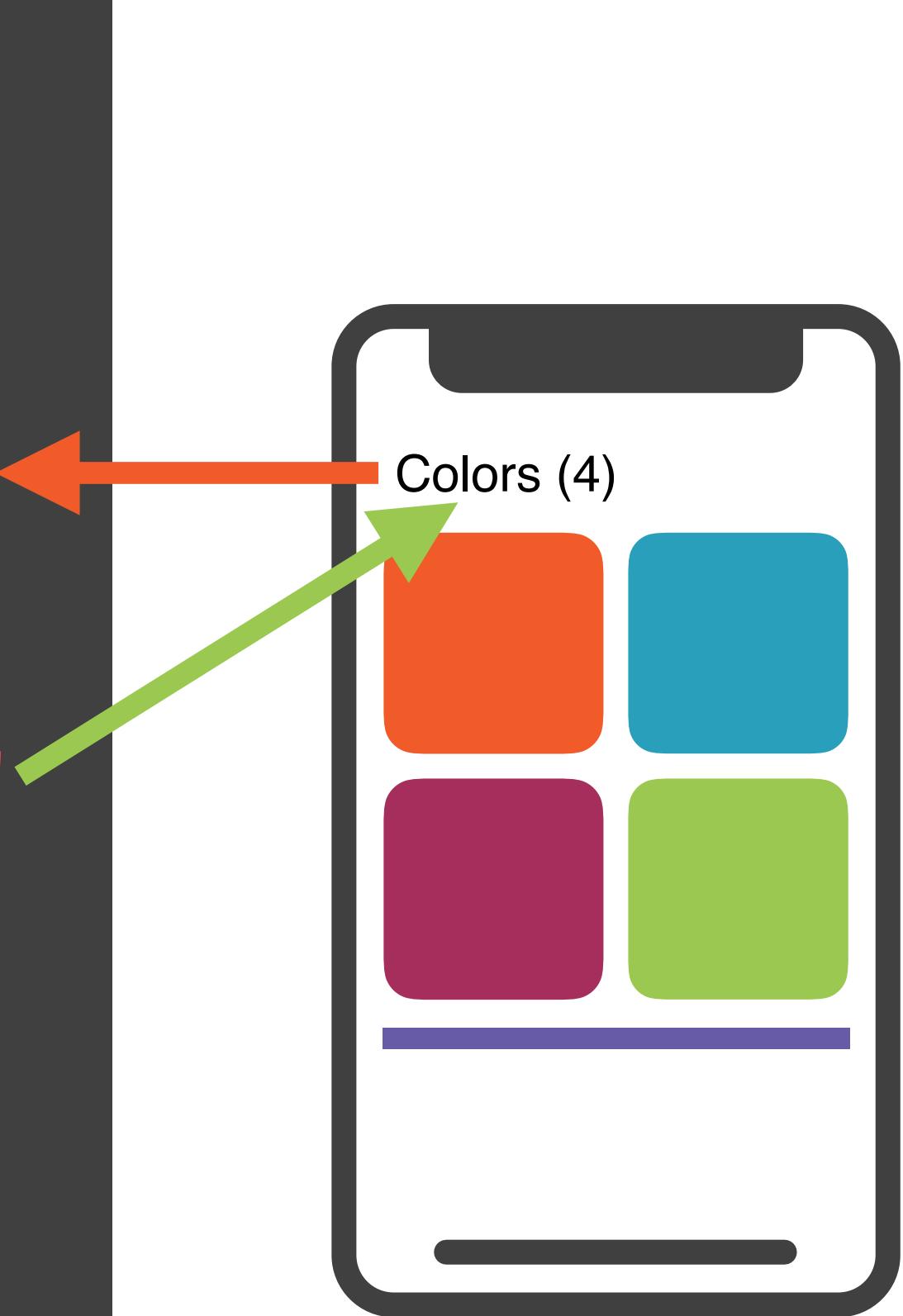
## Supplementary Views in Collection Views



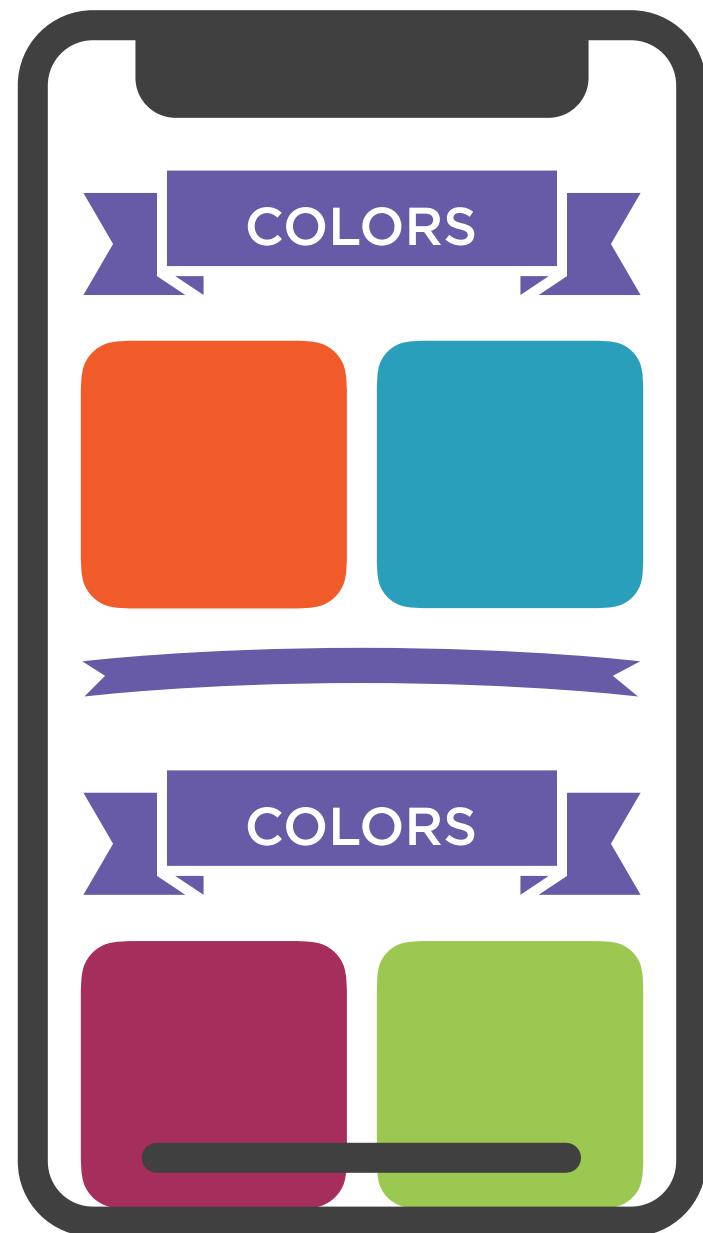
# Supplementary Views



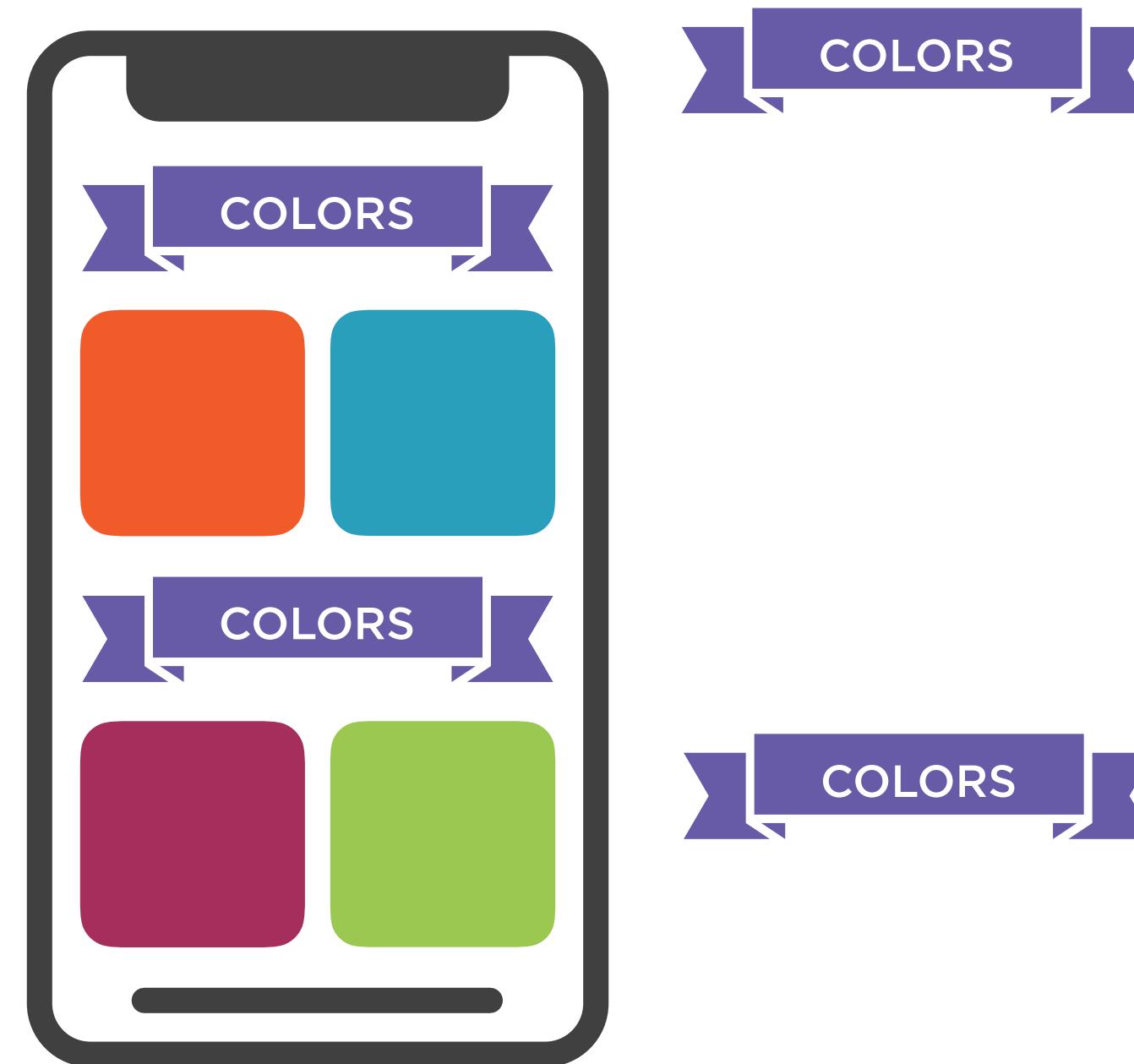
```
class HeaderCollectionReusableView:  
UICollectionViewReusableView {  
    @IBOutlet weak var headerLabel: UILabel!  
  
    func setup(count: Int) {  
        headerLabel.text = "Colors: \(count)"  
    }  
}
```



# Multiple Sections



# viewForSupplementaryElementOfKind UICollectionViewDataSource



# Customizing Collection View Cells

