

Customizing Size and Spacing

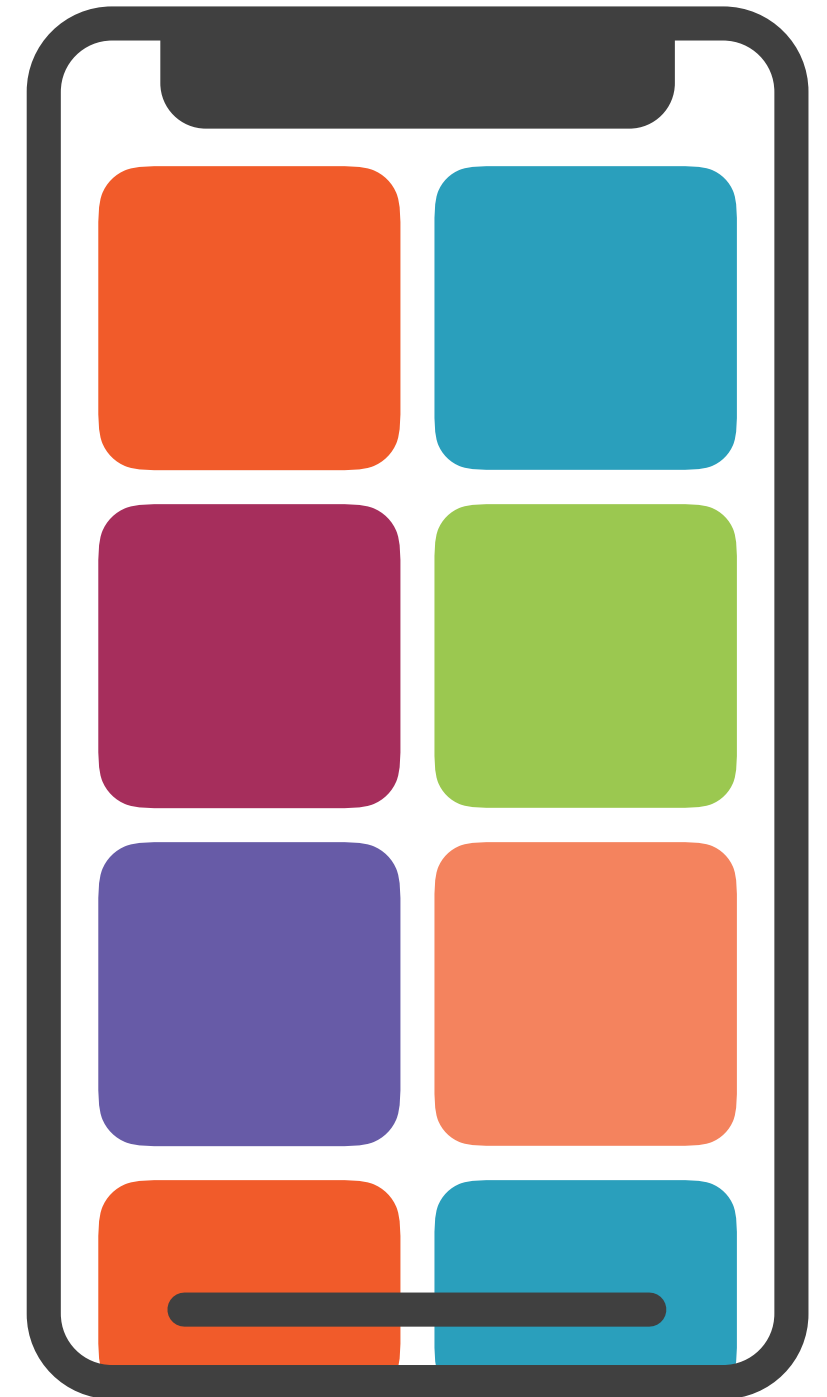
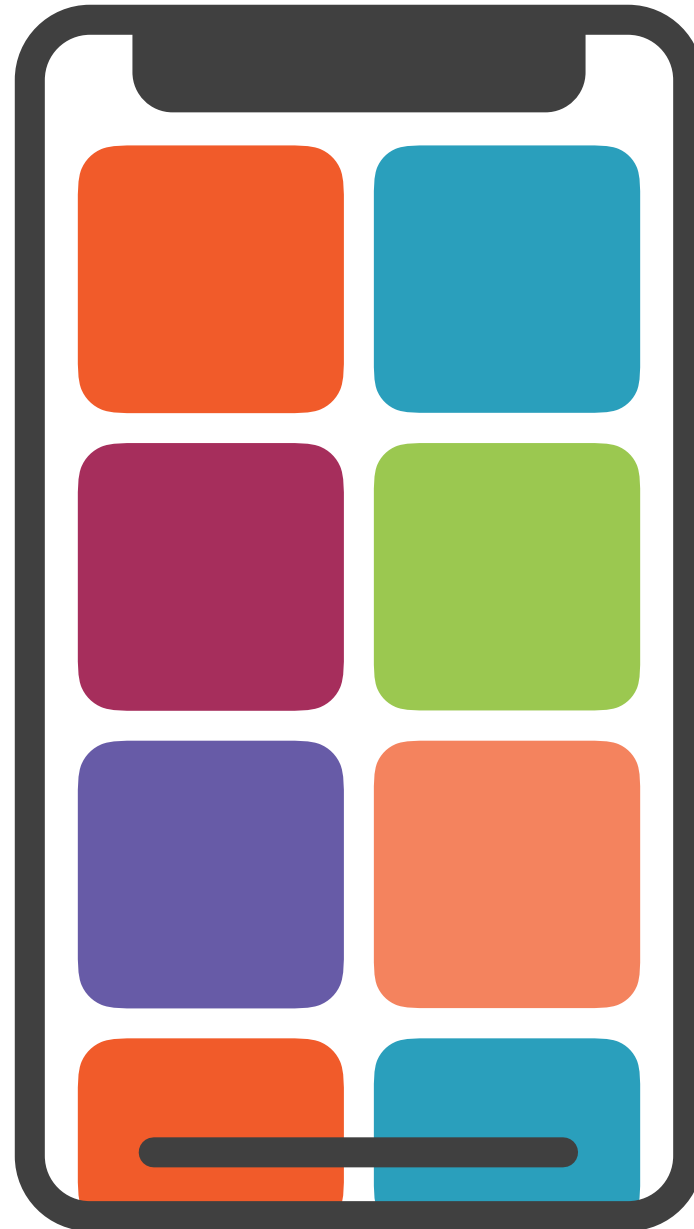
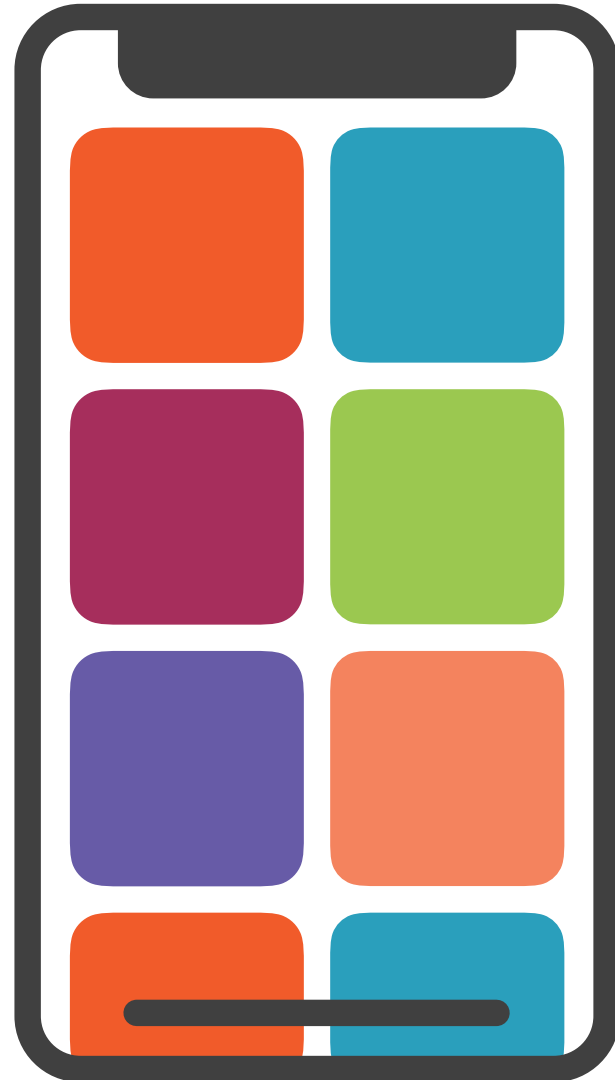


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What We Want



Collection Views Are Flexible!

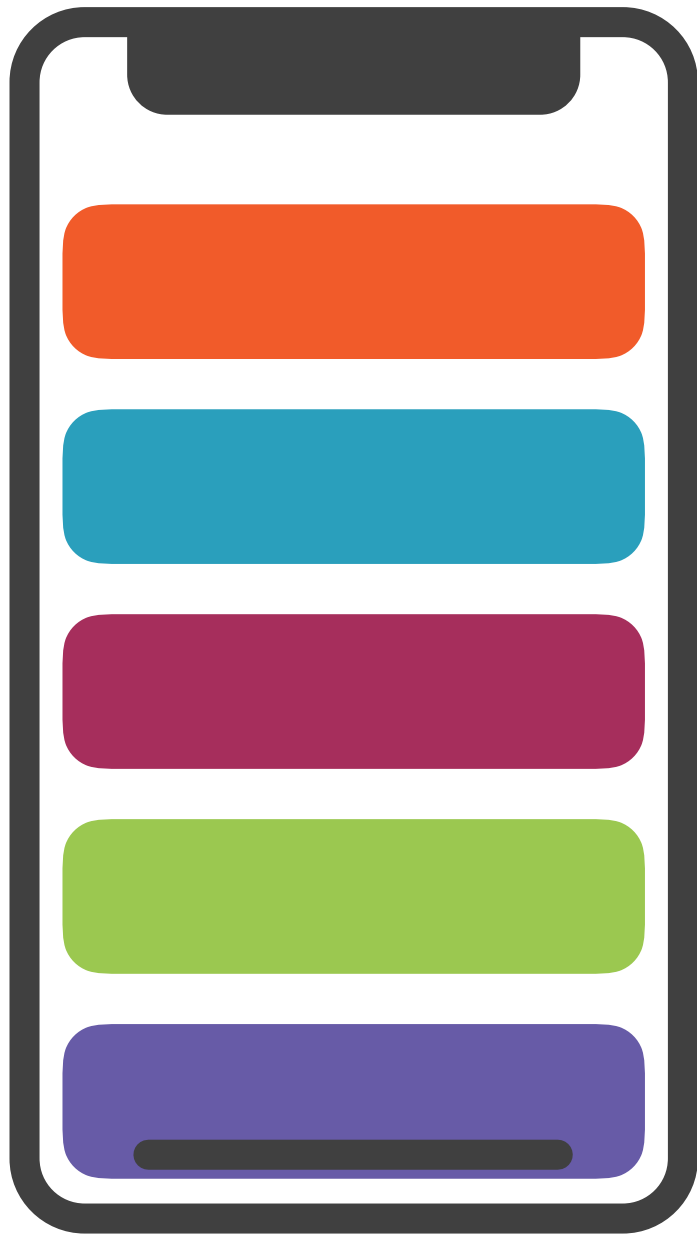
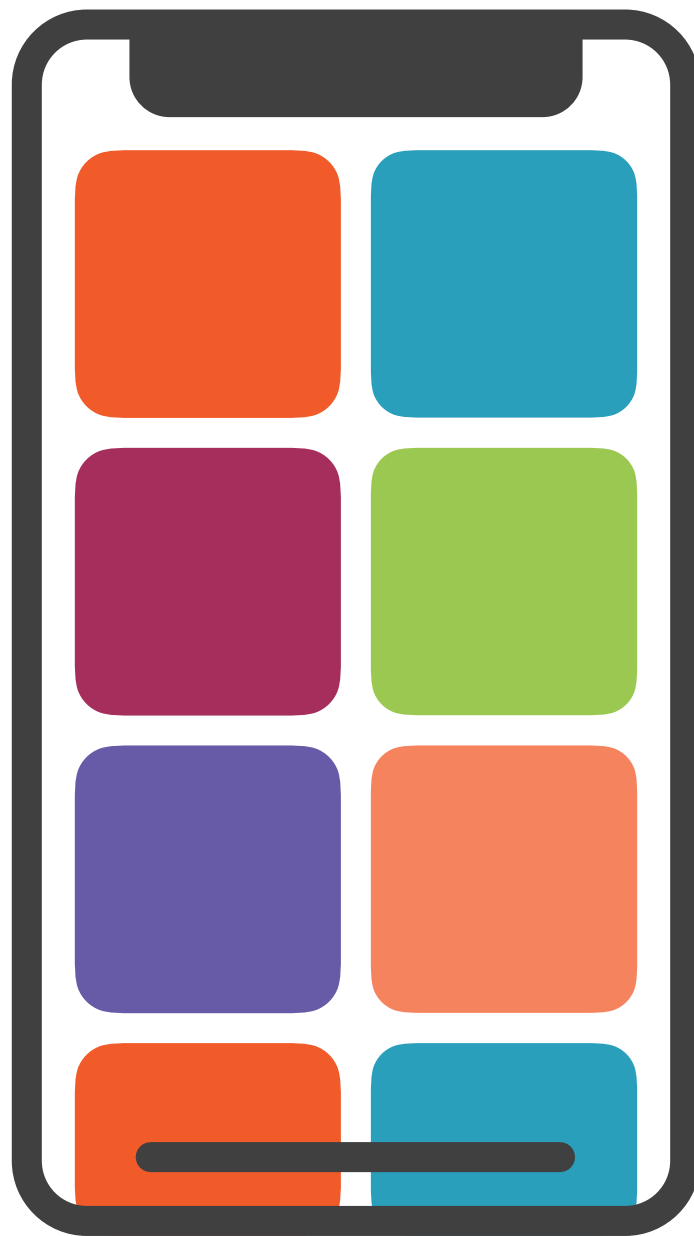
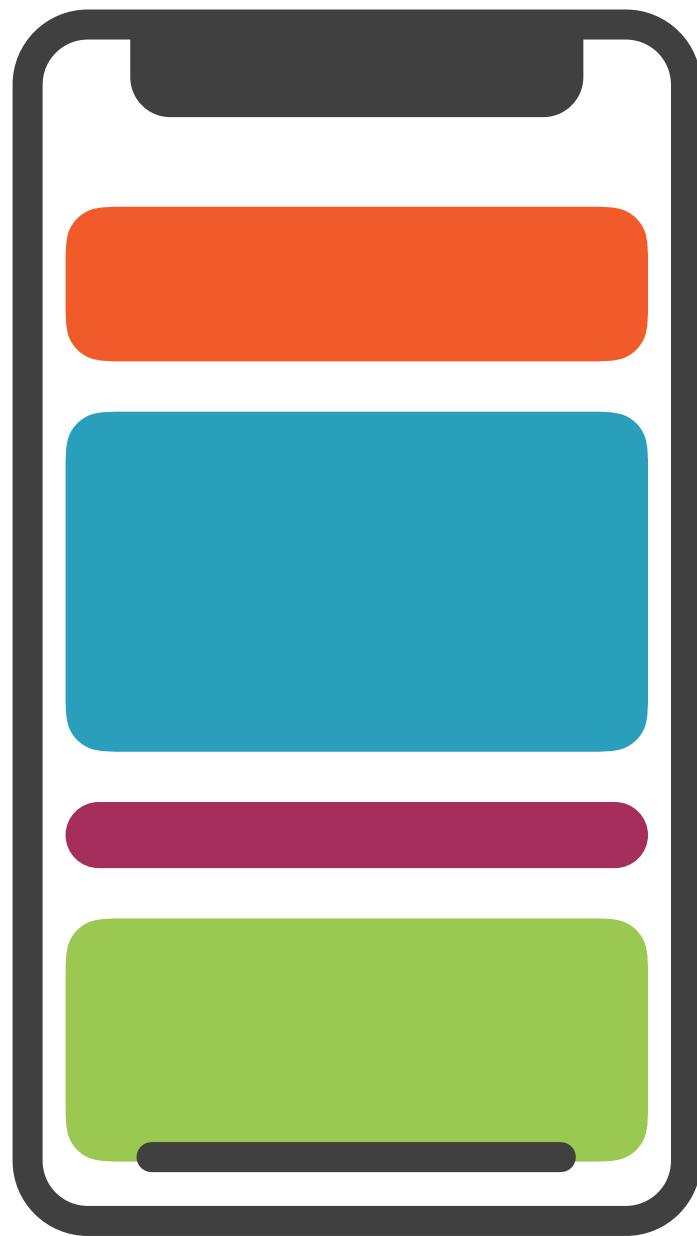


Table View



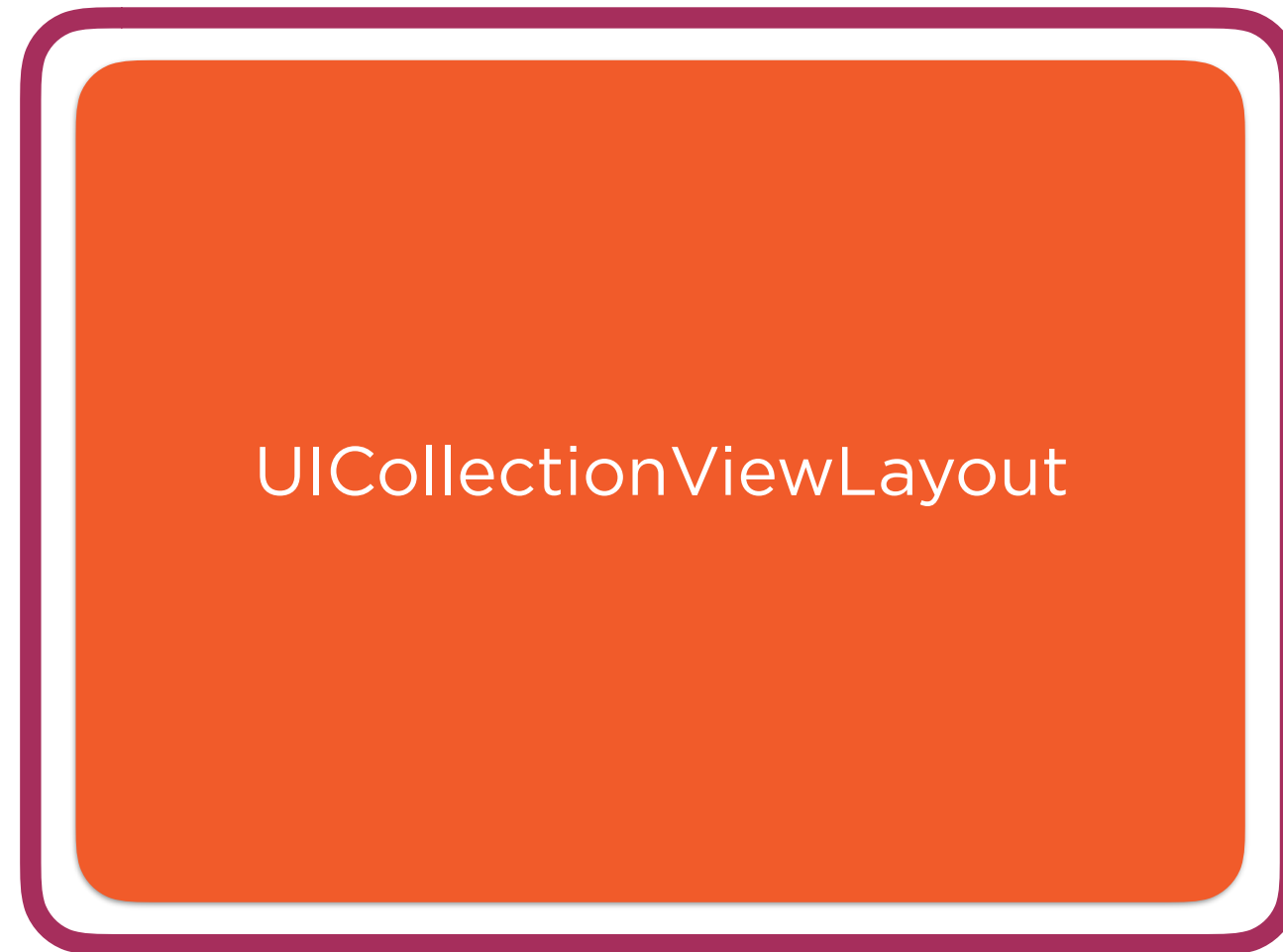
Collection View

Collection View Layout Flexible!

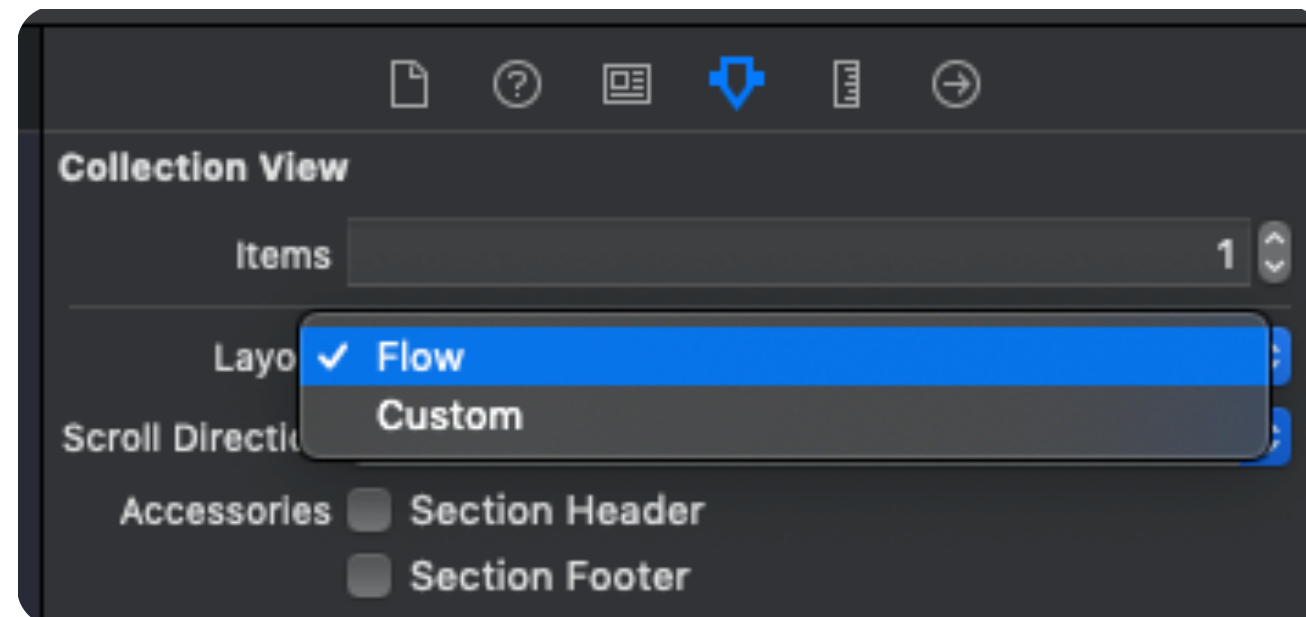


UICollectionViewLayout

MyCollectionViewLayout

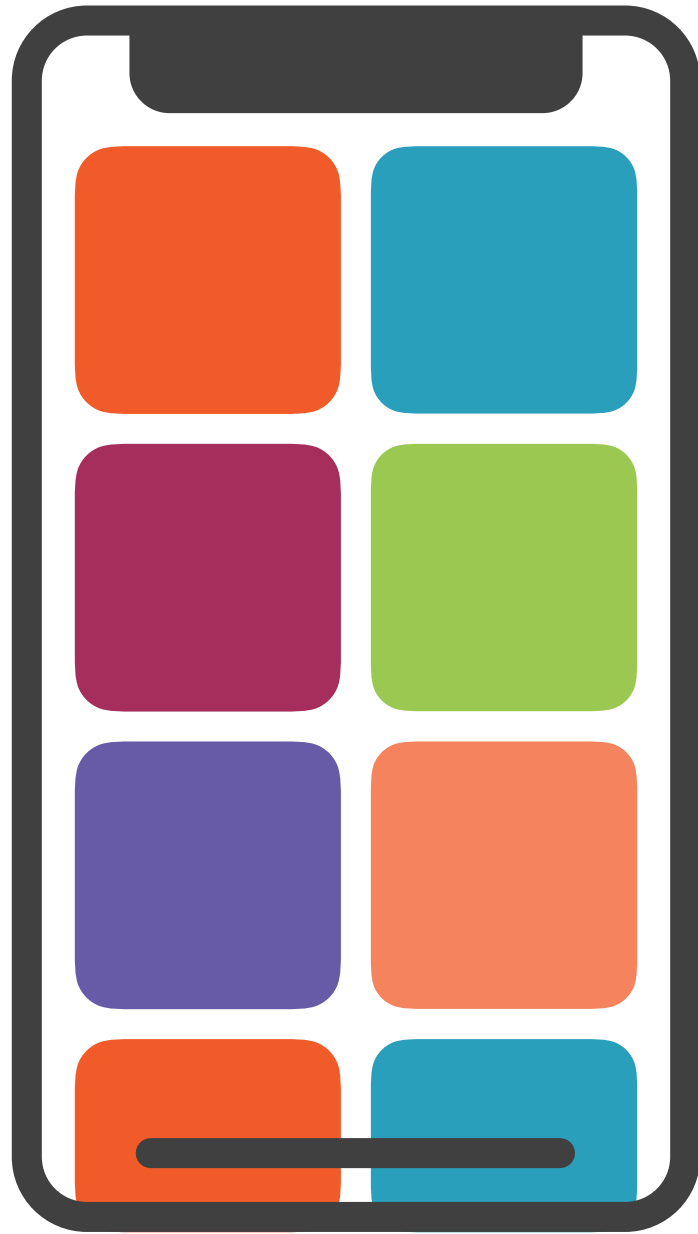


UICollectionViewFlowLayout



The UICollectionViewFlowLayout is what is used by default for collection views

UICollectionView**Flow**Layout



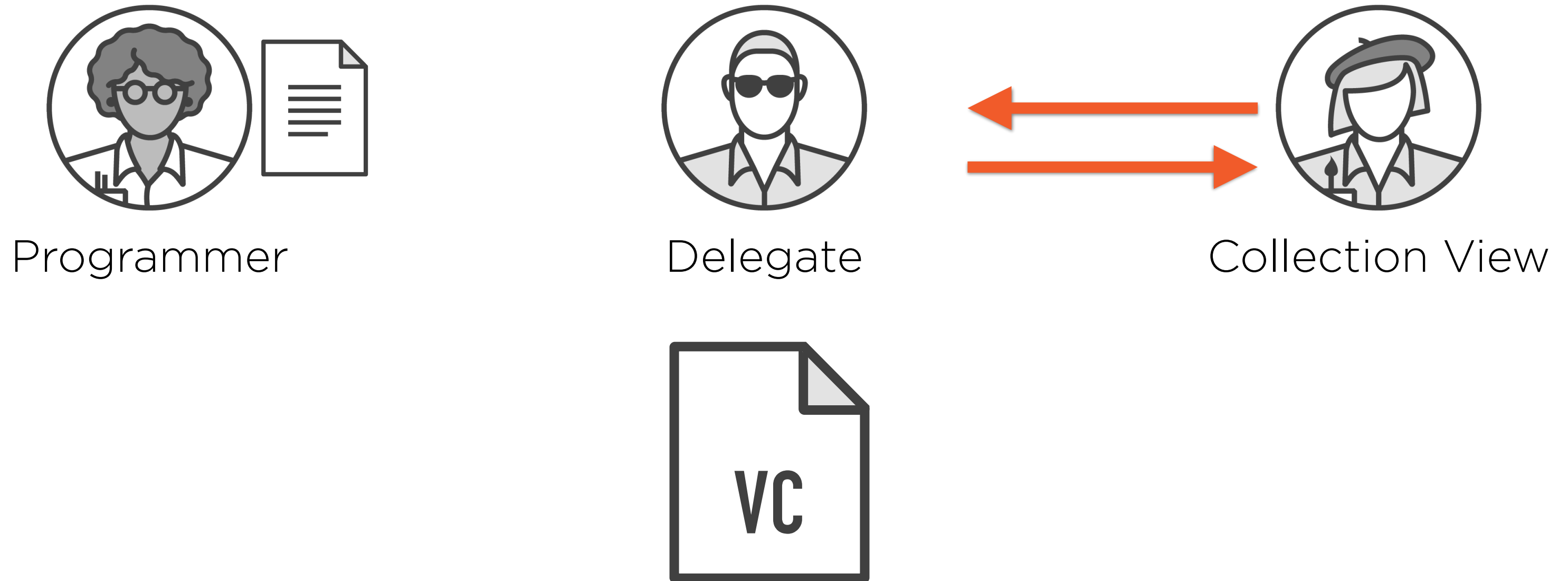
Demo

Using UICollectionViewFlowLayout

- Explore properties
- How to implement Flow Layout functions
- Set size of our collection view cells

UICollectionViewDelegateFlowLayout

A delegate is something that passes along instructions to something else



UICollectionViewDelegateFlowLayout

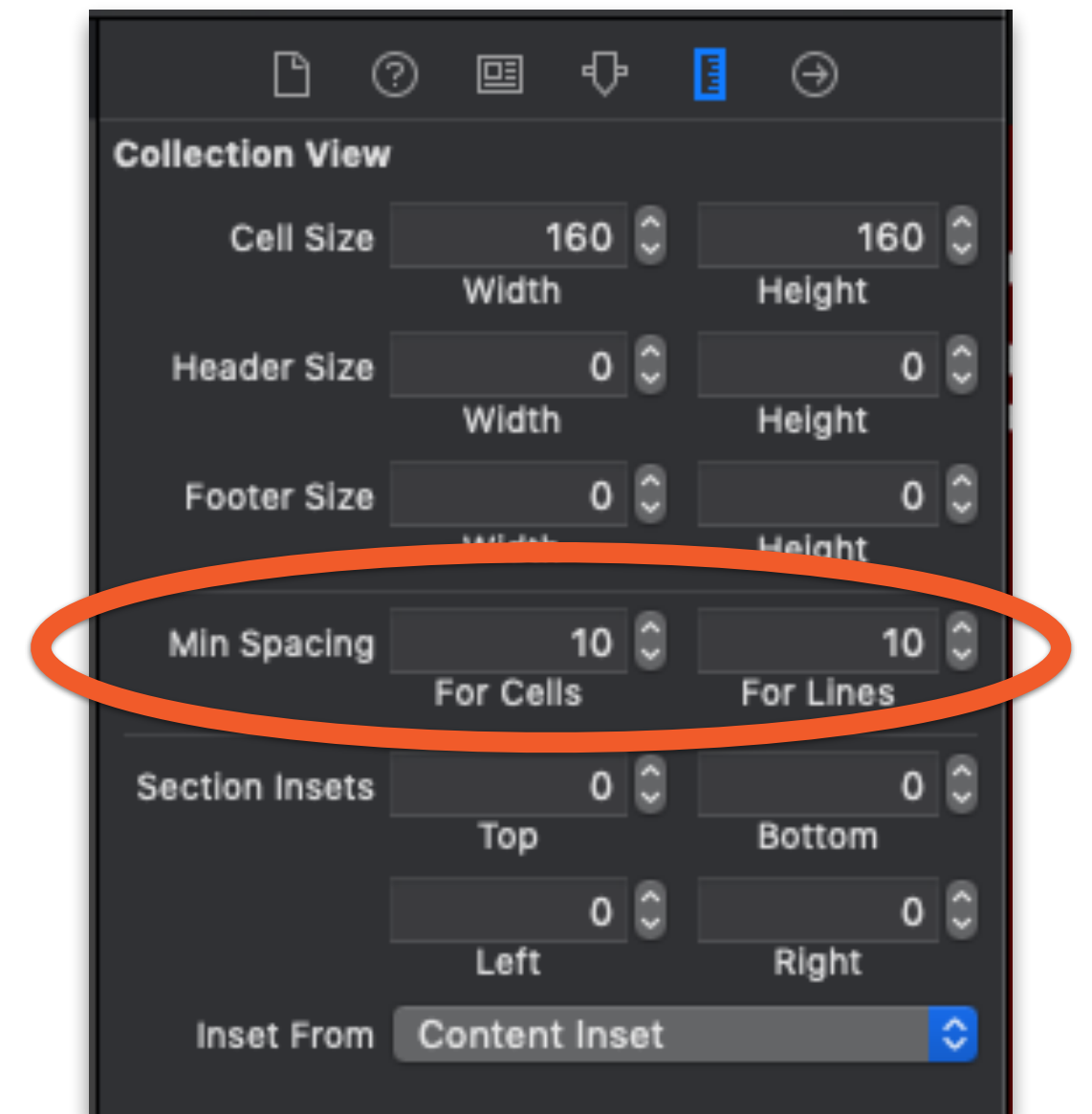
collectionView(_:layout:sizeForItemAt:)

```
class MyViewController: UICollectionViewDelegateFlowLayout {  
  
    collectionView.delegate = self  
  
    func collectionView(_ collectionView: UICollectionView,  
                        layout collectionViewLayout: UICollectionViewLayout,  
                        sizeForItemAt indexPath: IndexPath) -> CGSize {  
  
        // Return the size you want your cell to be  
        return CGSize(width: 100, height: 100)  
  
    }  
}
```

UICollectionViewFlowLayout

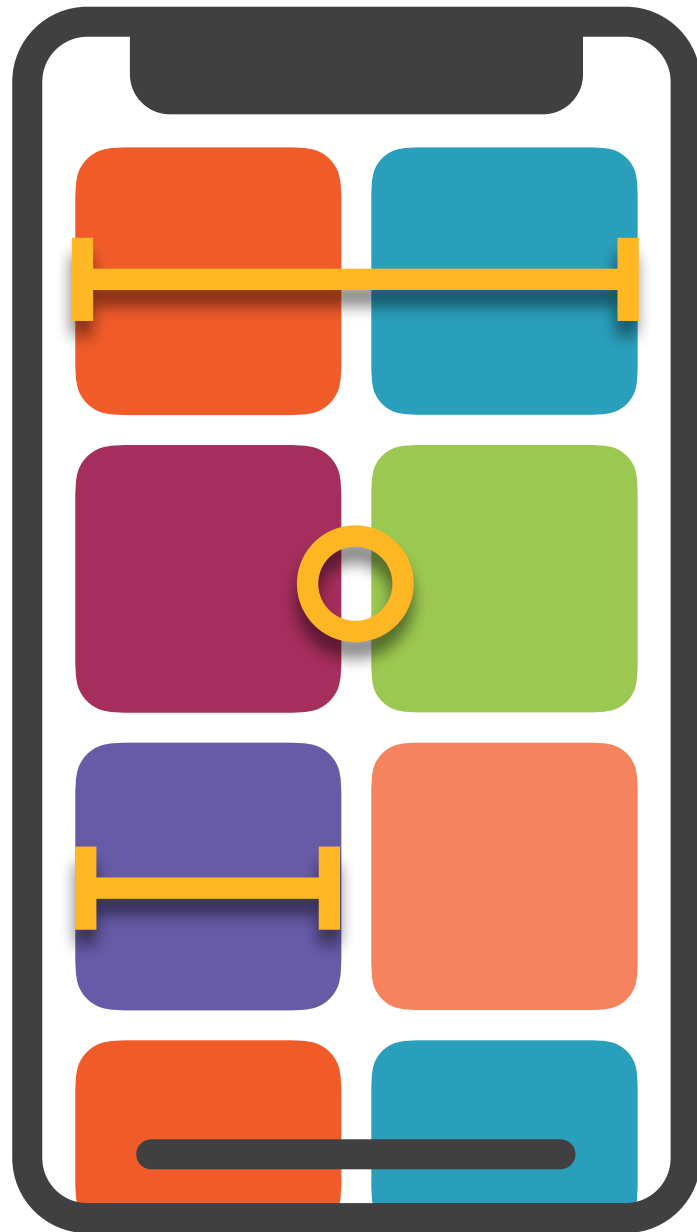
Spacing

Vertical Scrolling



UICollectionViewFlowLayout

Calculating Width



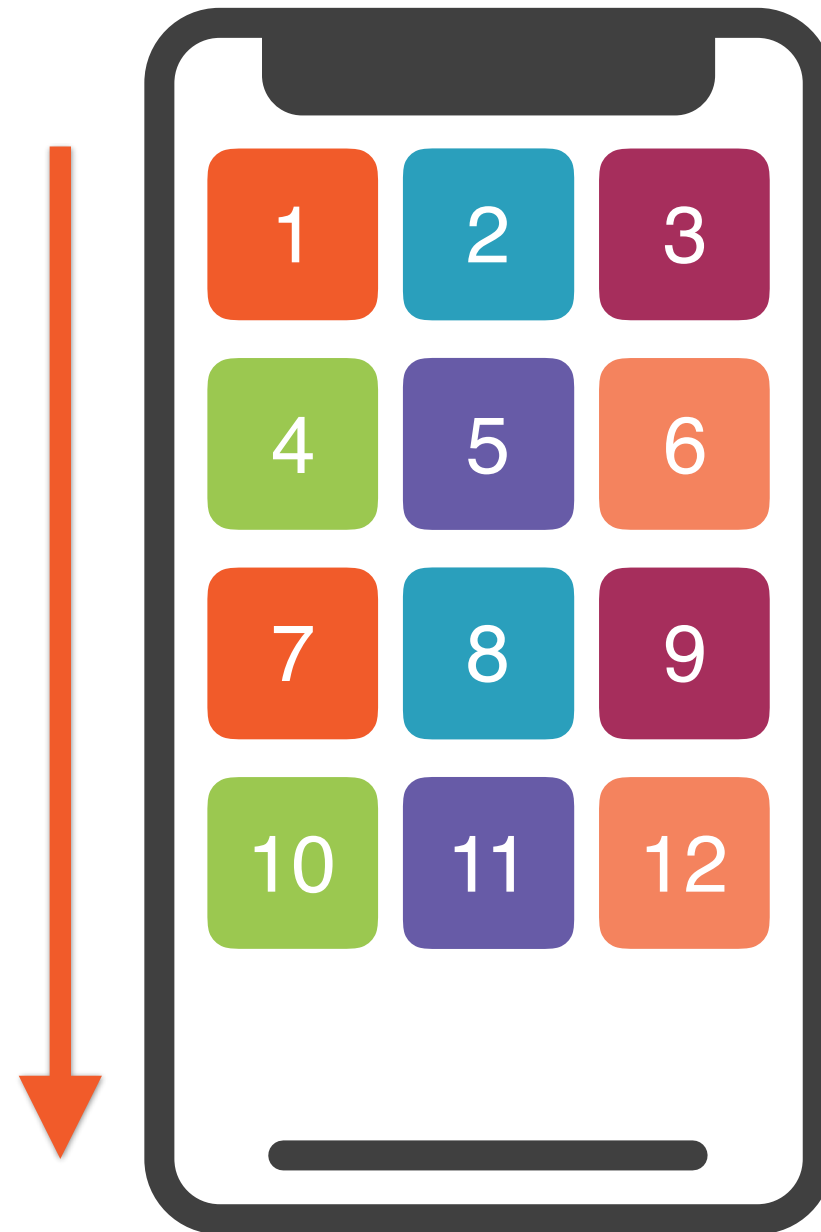
1. Get the width of the collection view
2. Get the value for the space between the cells
3. Subtract the cell spacing from the collection view's width
4. Divide the adjusted width by 2 (2 columns)

Further Practice with Spacing

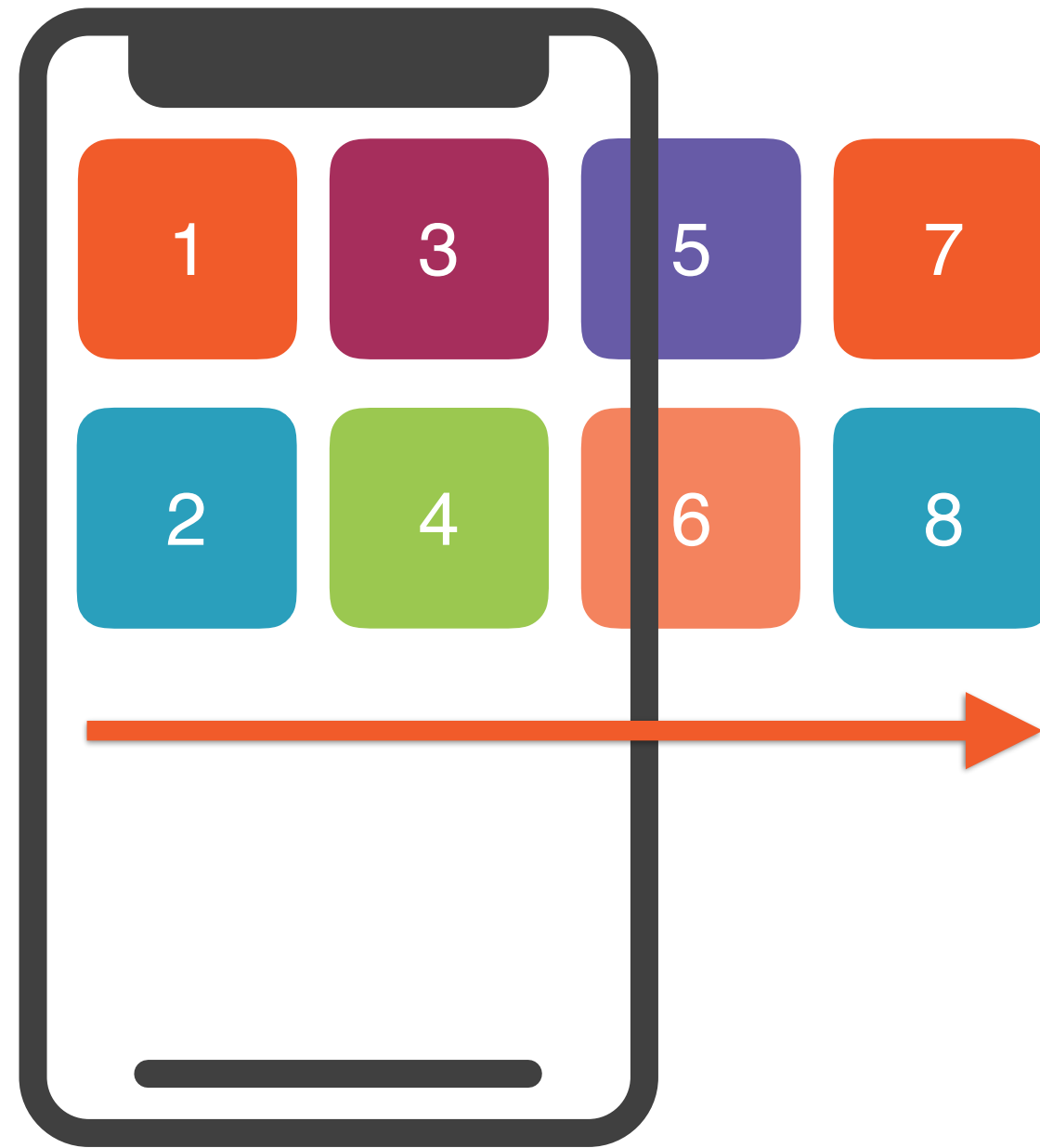
Cell Sizing Options



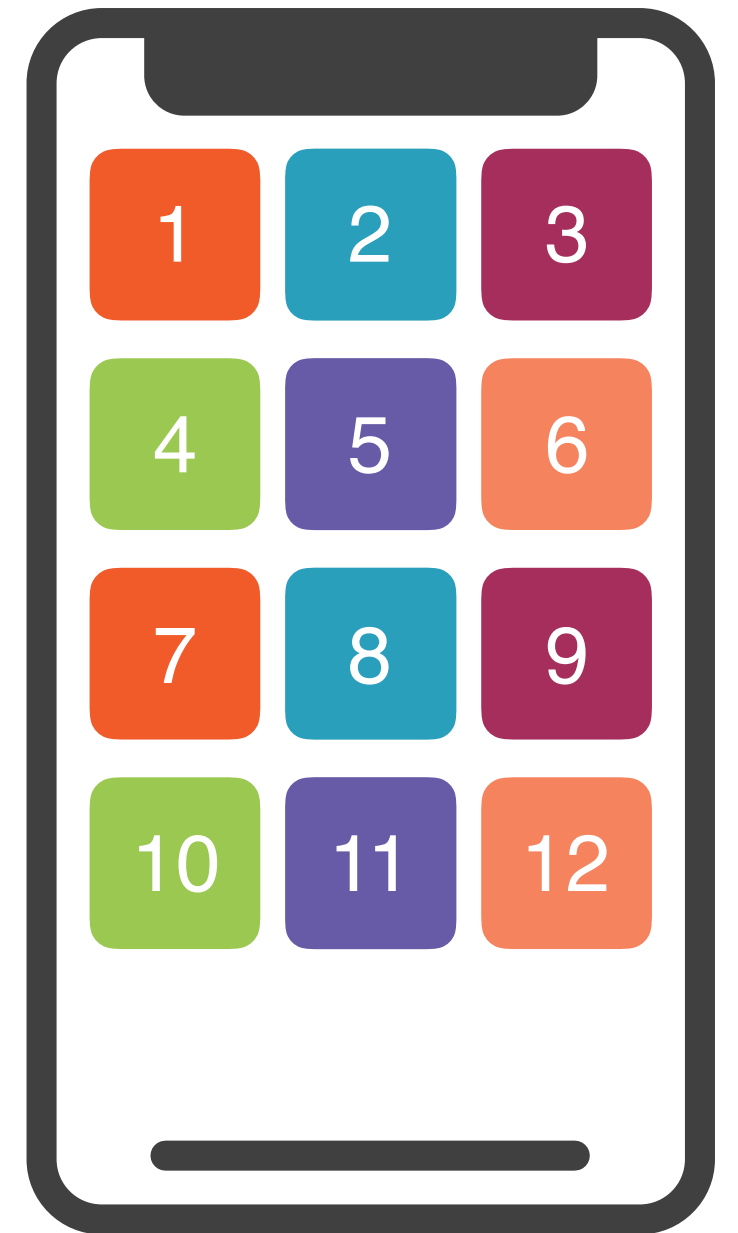
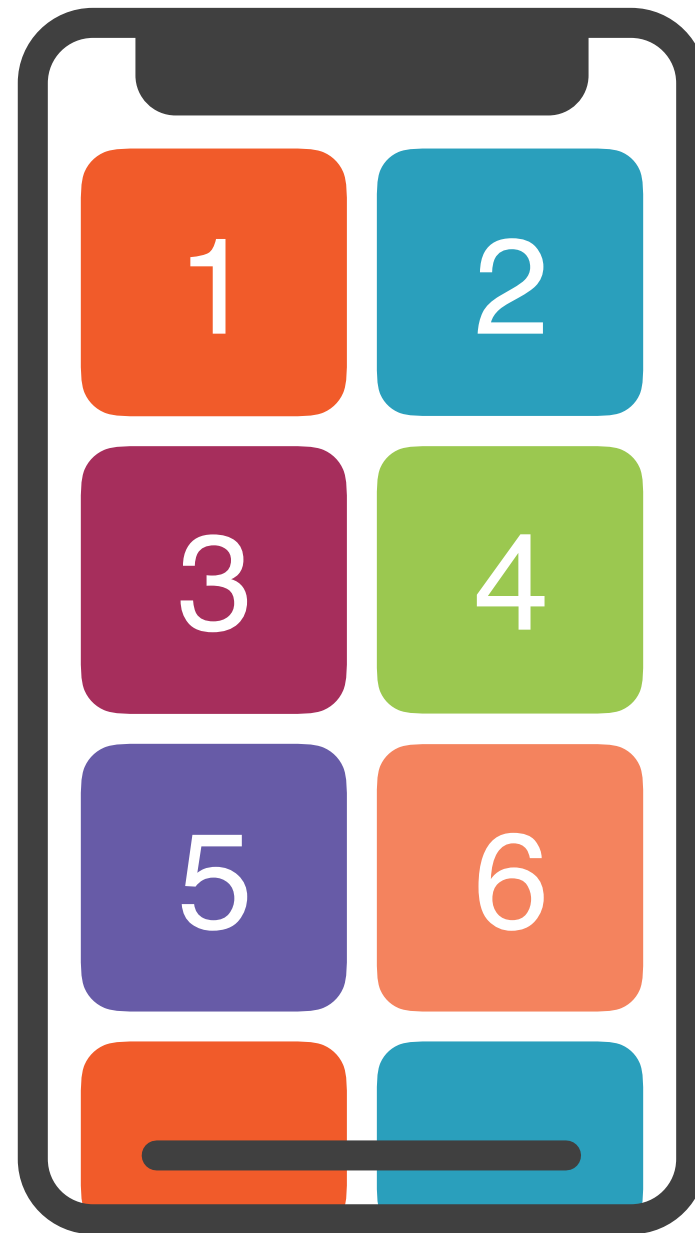
Three Columns



Horizontal Scrolling with Two Rows



Summary



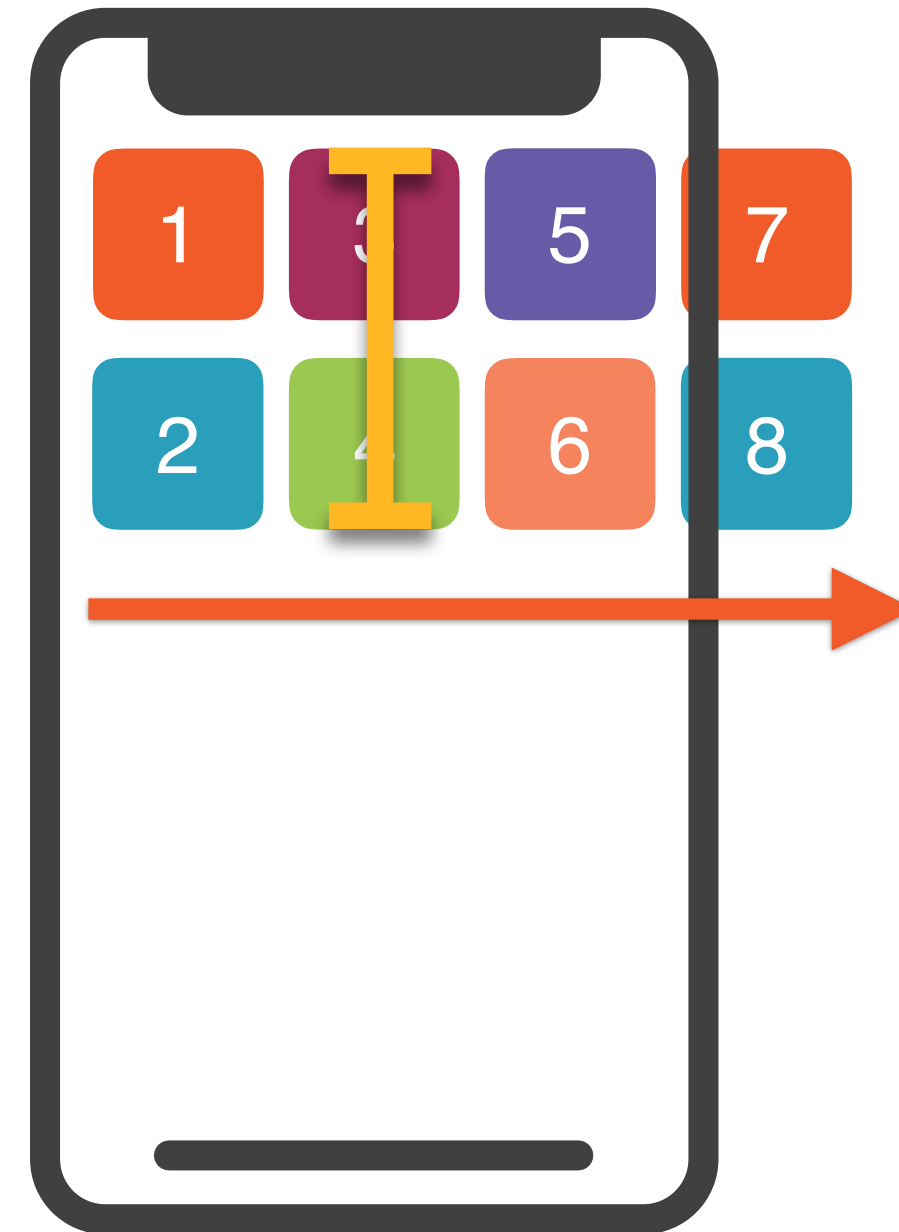
```
func collectionView(_ collectionView: UICollectionView,  
    layout collectionViewLayout: UICollectionViewLayout,  
    sizeForItemAt indexPath: IndexPath) -> CGSize {  
  
    // Return the size you want your cell to be  
    return CGSize(width: 100, height: 100)  
}
```

UICollectionViewDelegateFlowLayout

collectionView(_:layout:sizeForItemAt:)

Asks the delegate for the size of the specified item's cell

Cell Sizing Options



Collection View Titles

Title

