

Your First Collection View



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Demo

Your first collection view

- Add a collection view
- How to tell the collection view what to do
- Implement 2 required functions to show data

Delegate

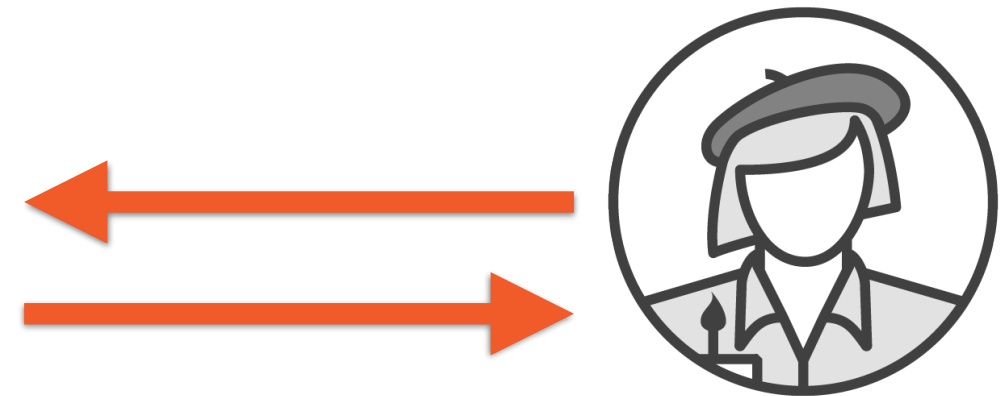
Something that passes along instructions to something else



Programmer



Delegate



Collection View

Dequeuing and Reusing Concepts

Queue

A “queue” is a line or sequence of items.



Deque

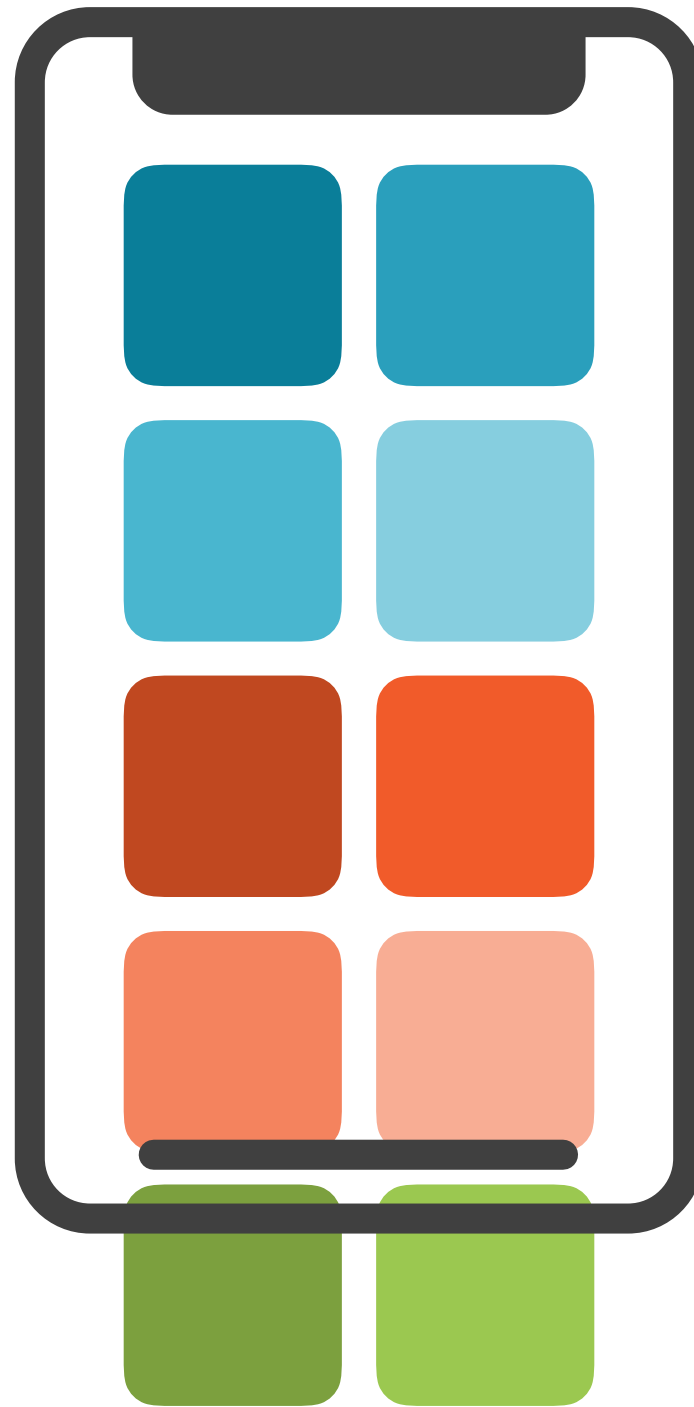
To remove from a line or sequence of items. Can be from the front or the back of the queue.



Reusing Collection View Cells

Data

Color 1,
Color 2,
Color 3,
Color 4,
Color 5,
Color 6,
Color 7,
...,
Color 998,
Color 999,
Color 1000



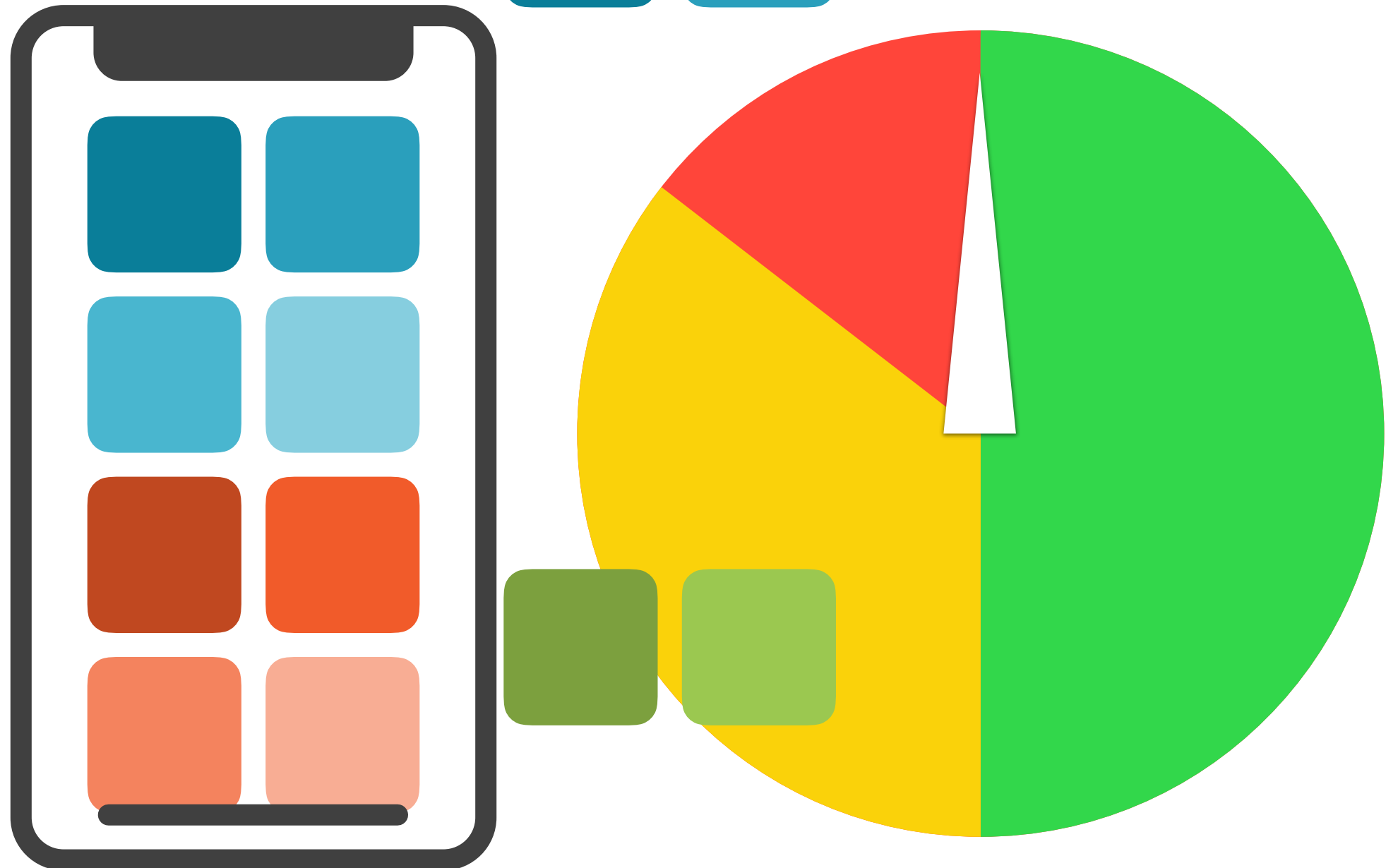
Memory



Reusing Collection View Cells

Data

Color 1,
Color 2,
Color 3,
Color 4,
Color 5,
Color 6,
Color 7,
...,
Color 998,
Color 999,
Color 1000

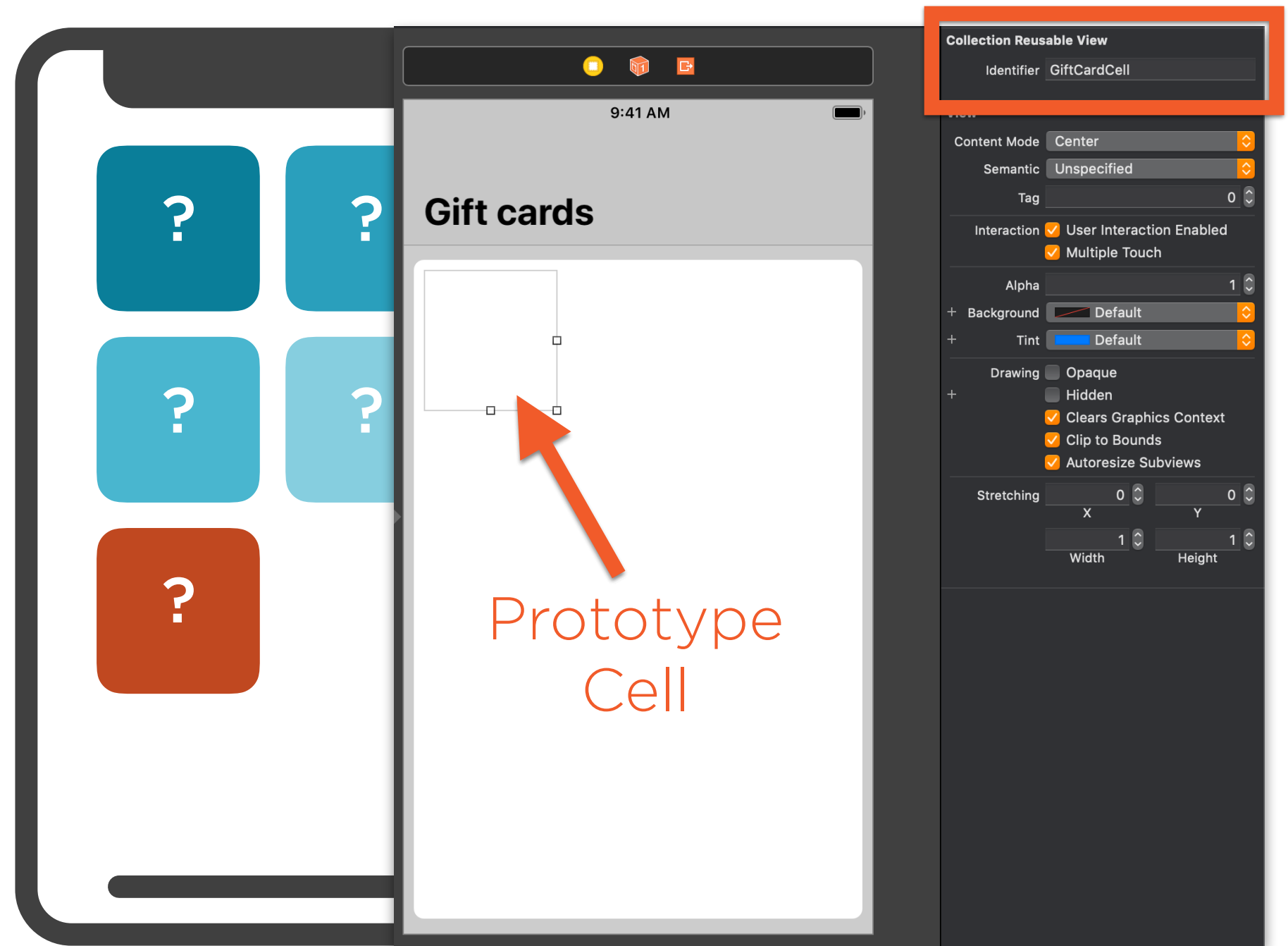


UICollectionView.dequeueReusableCell

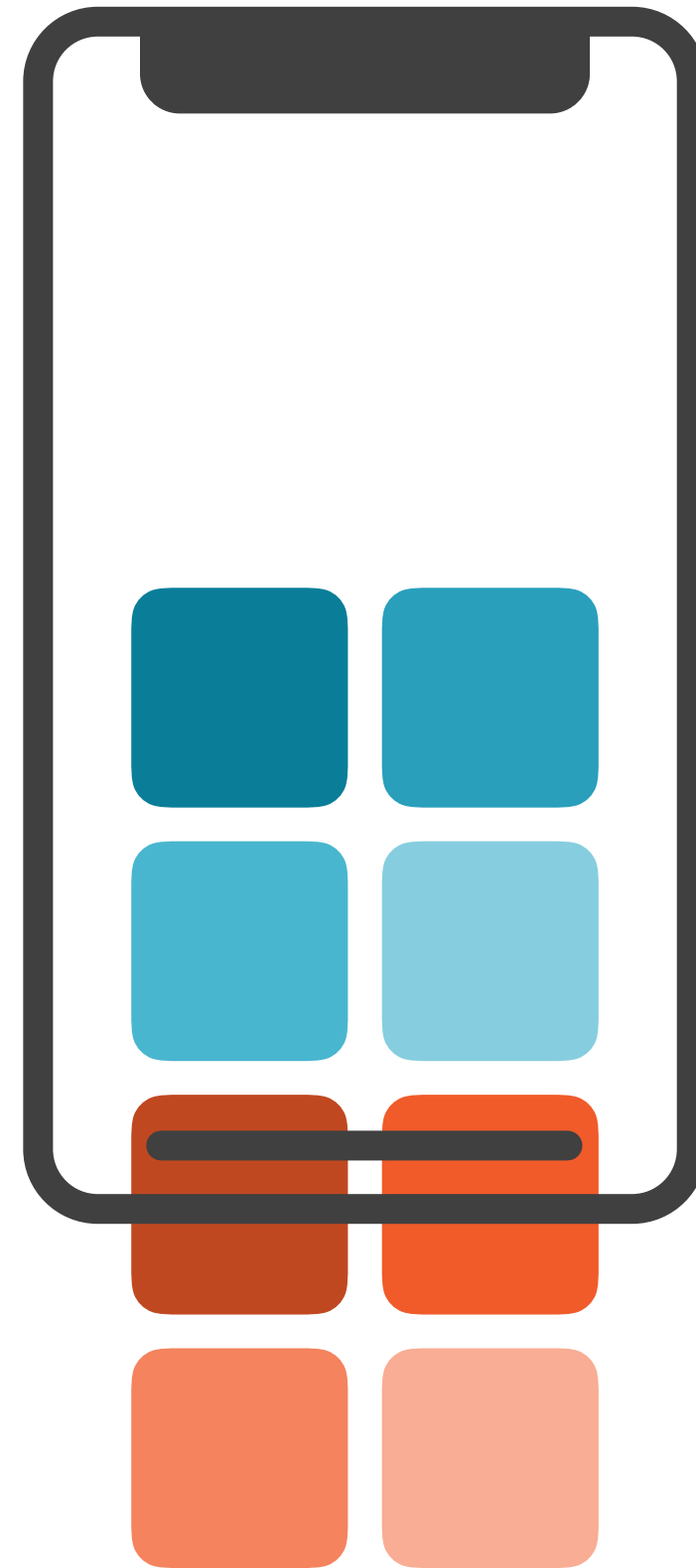
```
let cell = collectionView.dequeueReusableCell  
    (withReuseIdentifier: "GiftCardCell",  
     for: indexPath)
```

New Reusable Cells

`dequeueReusableCell` creates new cells if none can be reused



Summary



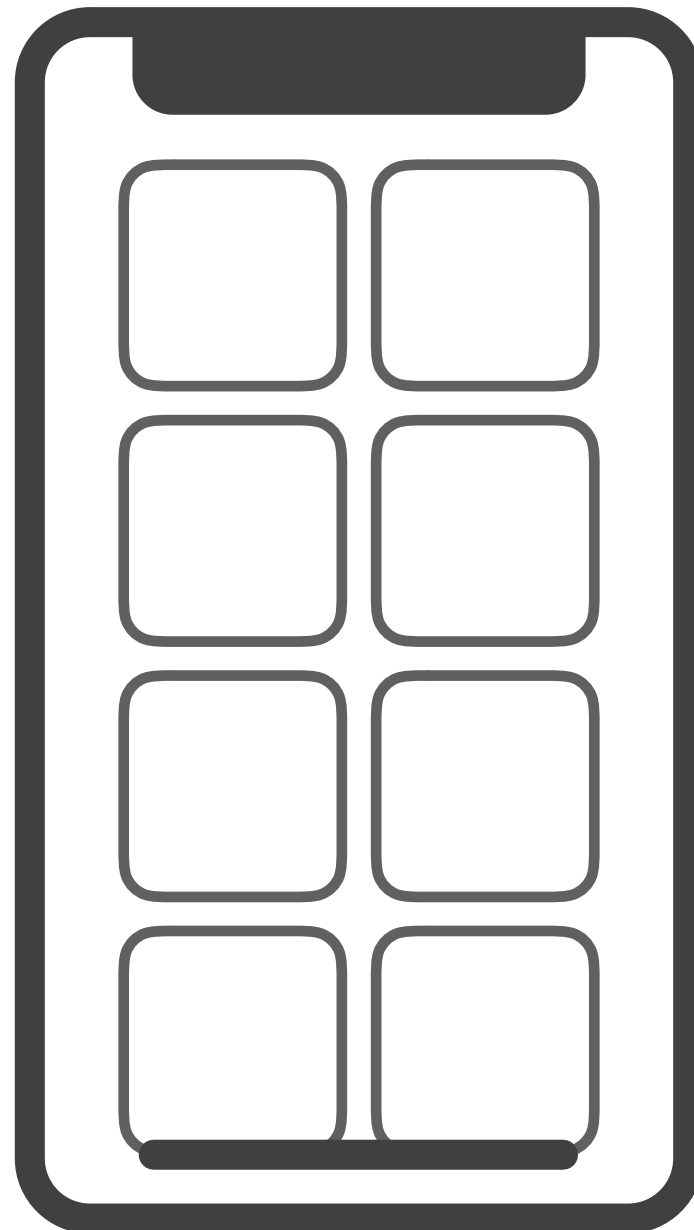
Collection View Delegation

How many cells?

`numberOfItemsInSection:`

What's in each cell?

`cellForItemAt:`



Delegate

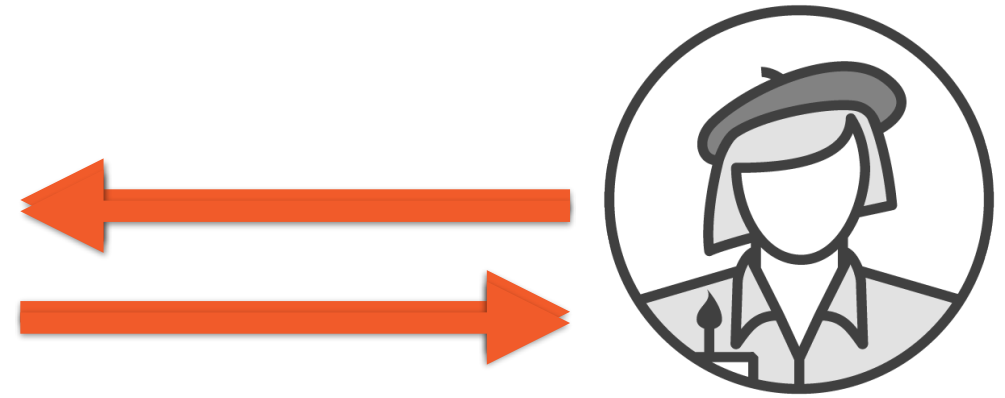
Something that passes along instructions to something else



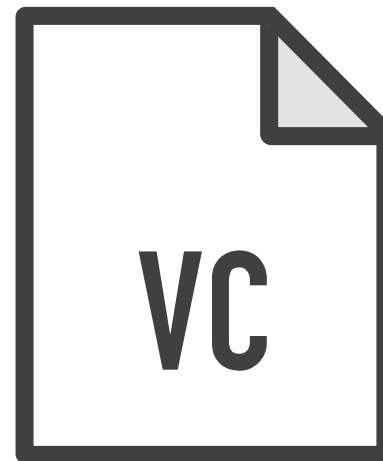
Programmer



Delegate



Collection View



Reusing Collection View Cells



How to Handle Spacing?

