

- A Collection View manages an ordered collection of data items and presents them using customizable layouts.
- They provide the same general function as Table Views, except that a collection view is able to support more than just single-column layouts.
 - multi-column grids
 - tiled layouts
 - circular layouts
 - etc.

- Like table views, a collection view:
 - Is a subclass of UIScrollView
 - Has a controller class UICollectionViewController
 - Has a delegate UICollectionViewDelegate
 - Has a data source UICollectionViewDataSource
 - Has reusable cells UICollectionViewCell
 - Has headers and footers called Supplementary Views
- Unlike table views, a collection view offers a way to lay out its cells
 - This is done by an optional UICollectionViewLayout object

- UICollectionViewLayout
 - is responsible for the size, position and other attributes of the content
 - can position its elements wherever it likes
- Two pre-defined types:
 - -UICollectionViewFlowLayout: organizes cells
 into a grid
 - -UICollectionViewTransitionLayout: lets you implement behaviors when changing from one layout to another in your collection view

Key methods:

- numberOfSectionsInCollectionView
- numberOfItemsInSection
- cellForItemAtIndexPath
 - Where you create a cell and set its data
- sizeForItemAtIndexPath

You can set the scroll direction as vertical (the default) or horizontal, either in IB or programmatically:

