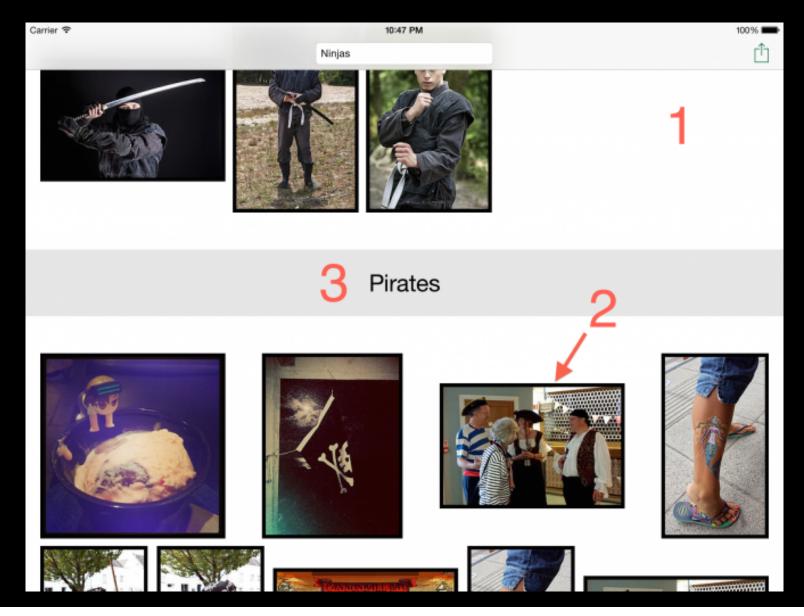
Mobile Application Development Aileen Pierce

COLLECTION VIEWS

- Collection views makes it easy to display data in rows and columns to form grids
- Similar approach as the table view data source and delegate pattern
- Collection views are very customizable
- You can create your own custom layout and transitions
- Can scroll horizontally or vertically



- The collection view is the main view that the content is displayed in (1)
 - UICollectionView class
 - UICollectionViewDataSource protocol
- Cells hold the content in the view (2)
 - UICollectionViewCell class
- Supplementary views hold extra information that you want but not in the cells (3)
 - Headers or footers
 - UICollectionReusableView class

- Sections, items, and cells are handled similar to table views
- collectionView(_, viewForSupplementaryElementOfKind, atIndexPath)
 - Displays supplementary views
 - Use their own reuse identifier
 - Header
 - UICollectionElementKindSectionHeader
 - Footer
 - UICollectionElementKindSectionFooter

Layout

- The UICollectionViewLayout class lets you create custom layouts
- The UICollectionViewFlowLayout class provides a basic flow-based layout
 - scrollDirection property determines direction the view scrolls
- The UICollectionViewDelegateFlowLayout protocol methods let you define the size and spacing of items

Layout

- UICollectionViewDelegateFlowLayout protocol methods let you define the size and spacing of items
 - collectionView(_, layout, sizeForItemAtIndexPath) is responsible for telling the layout the size of a given cell
 - collectionView(_, layout,
 insetForSectionAtIndex) returns the spacing
 between the cells, headers, and footers

Layout

