Collection View

UICollectionView is similar to UITableView except the fact that it's more customisable. The main difference between a UICollectionView and a UITableView is that a UICollectionView can display more than one column and it supports horizontal scrolling. The below article shows how to develop a basic collection view.

1. Open Xcode and create a new Single View App.

	OS macOS Cross-pla	tform	۲	Filter
Application				
1			•••	* •••
Single View Application	Game	Master-Detail Application	Page-Based Application	Tabbed
	\bigcirc			
Sticker Pack Application	iMessage Application			
Framework & Libr	ary			
	Touch	E E		
		Metal Library		

2. For product name, use "CollectionViewTutoria" and fill out the then Organization Name and Organization Identifier with your customary values. Enter Swift Language as and choose Next.

Product Name:			
Team:	Add account		
Organization Name:	iOS-Blog		
Organization Identifier:	com.ios-blog		
Bundle Identifier:	com.ios-blog.ProductName		
Language:	Swift	٢	
Devices:	iPhone	٢	
	Use Core Data		
	Include Unit Tests		
	Include UI Tests		

🕨 🔳 🛛 🐴 BlankDemo 🤉 🎲 iPhone	e Retina (3.5-inch)	Running Bl	ankDemo.app on	iPhone Retina	(3.5-inch)	No Issues		
	🔛 🔺 🕨 🔛 Blank	Demo						
BlankDemo	🗈 🔥 Blank Demo 🕏	General	Capabilities	Info	Build Settings	Build Phases	Build Rules	Identity and Type
BlankDemo	▼ Identity							Name BlankDemo
h AppDelegate.h	iOS Simulator - iPhone Retina (3.5-ir		5-inch) / iOS					Location Absolute \$
m AppDelegate.m Main.storyboard ViewController.h ViewController.m	Carrier 🗢	10:25 AM	-	Jewithchris	.BlankDemo			BlankDemo.xcodeproj Full Path /Users/cwching/ Desktop/BlankDemo/ BlankDemo.xcodeproj ©
images.xcassets ▶ Supporting Files								Project Document
BlankDemoTests								Project Format Xcode 3.2-compatible
Products								Class Prefix
								Text Settings
					•			Indent Using Spaces : Widths 4 € 14 Tab Indent ✓ Wrap lines
				le Down				Source Control
				scape Left				Repository <mark>O</mark>
				cape Right				D {} 📦 🖩
				during appl	¢) ication launch			Push Button - Intercepts mouse-down events and sends an action message to a target
								Gradient Button - Intercepts mouse-down events and sends an action message to a target
	▼ Launch Images	-		л				Rounded Rect Button - Intercepts mouse-down events and sends an action message to

3. Move to Main Storyboard, which present in Project Navigator

4. Drag and Drop collection view from Utility Area[Library Pane] to View Controller which present in right bottom area.



5. Create a new class file for collection view cell, just right click on project [CollectionViewTutorial] and select new file in Project Navigator. In this tutorial we are not using this class. Just of understanding we are creating this class. It is used when you need to customize inside a cell (eg: adding label, image, etc&helliphellip;)

DS					
Source	C			A.A.	
User Interface					E
Core Data	Cocoa Touch Class	UI Test Case Class	Unit Test Case Class	Playground	E
Apple Watch					
Resource			1		
Other		m	Π	C	
vatchOS	Swift File	Objective-C File	Header File	C File	
Source					
User Interface					
Core Data	C++	N			
Resource					
Other	C++ File	Metal File			
vOS					
Source	Cocoa Touch Cl	ass			
User Interface	A Cocoa Touch cla	ISS.			
Core Data					
Pocourco					
Cancel			Pr	evious Next	



7. Now need to select the option for the new file, provide as below details.Class:CollectionViewCellCustom[UserDefinedName]SubClass:Indropdownselect``UICollectionViewCell''Language:Swift

Choose options for your new file:		
Class:	CollectionViewController	
Subclass of:	UICollectionViewController	
	Also create XIB file	
	iPhone	٥
Language:	Swift	0
Cancel		Previous

8. Now click Finish button, it will generate class for UICollectectionViewCell

Class	MyTableVC
Module	None
Storyboard ID	showPlan
Restoration ID	

9. Goto MainstoryBoard, select CollectionView cell and in Utility area[Inspector] select custom class, from drop down list choose our new class file[CollectionViewCellCustom]





connect view, drag and drop delegate and datasource to controller



12.In Project Navigator click, now move on to viewcontroller.swift file to code. Please provide the below code into your file. Two protocols are mandatory when UICollectionViewDelegate UICollectionViewDataSource. we call and The Two protocols are NumberofSections(Return type should be int, which tells how many cells is required for this view controller) and CellForItemAt(In these we need to establish what need to present in the each cell, in this tutorial we just added background а colour for the cell).



13. Now run the project and the result will be shown as below.