TabbarController

Tabbar 는 customizing of 处型

计时间对处例任证经验实现处于发生不能证明不是



TabBarController

- UITabBarContoller Class
- TabBarController manage multiple distinct interfaces,

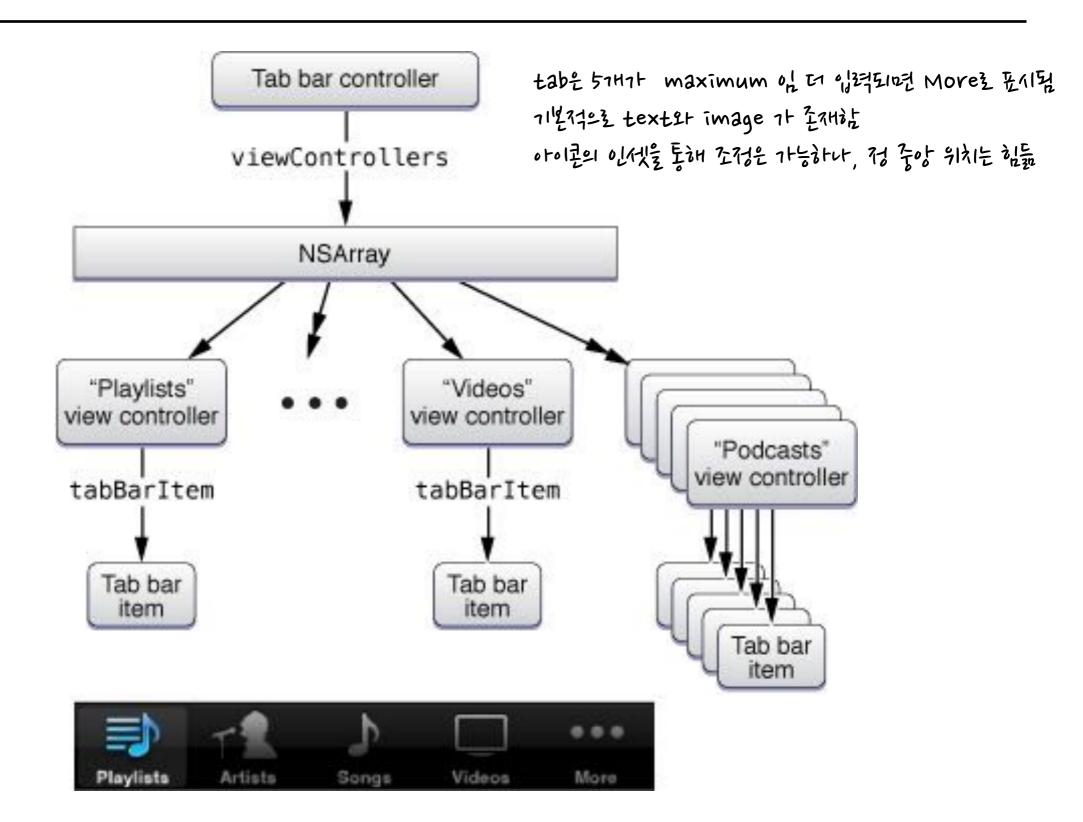






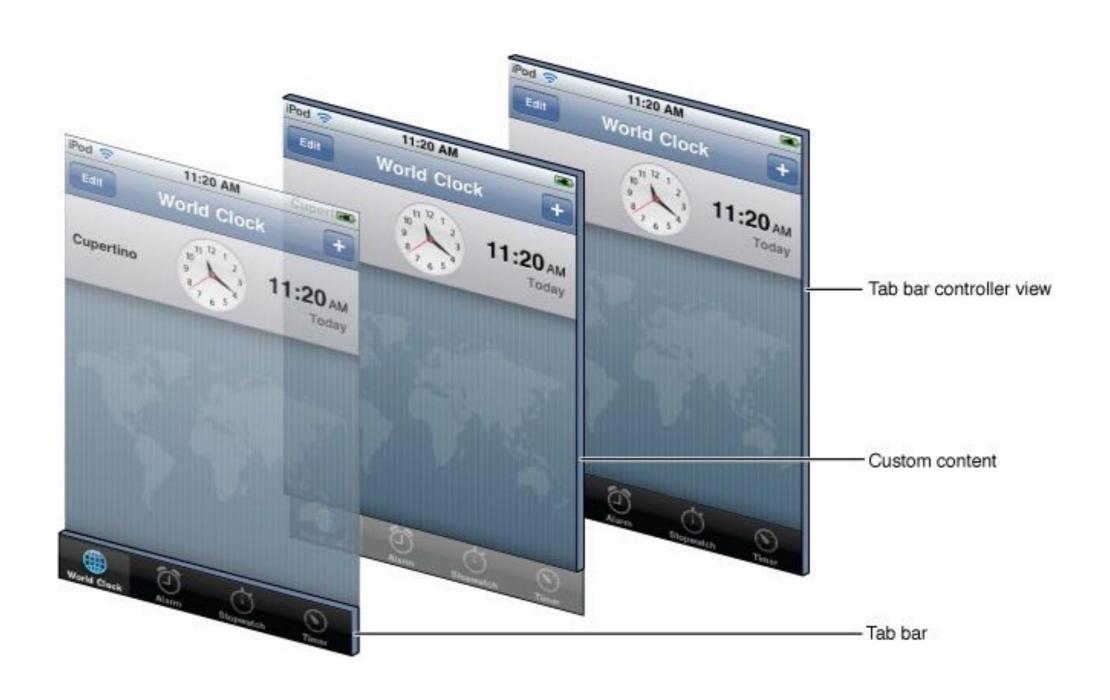


TabBarController - 구조





TabBarController Interface





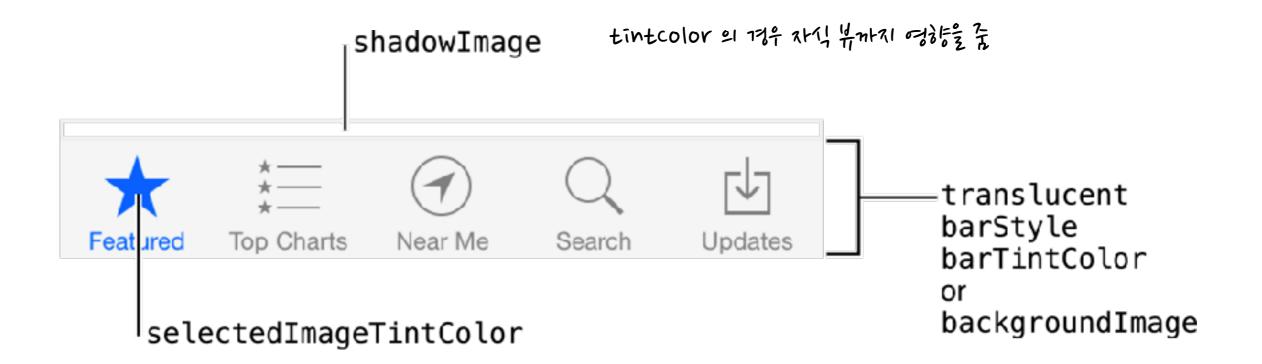
TabBarController 예제 - 스토리 보드

- ViewController OR NavigationController 선택
- Editor -> Embad in -> TabBarController
- TabBarController inital 지정



Tab Bar Item

- 각각의 ViewController를 각 TabBar Item에 매칭 되어 있다.
- TabBarltem은 이미지와 텍스트를 넣을수 있다.
- 각 TabBar Item은 해당 ViewController의 tabBarItem 프로퍼티로 접근 가능하다.





TabBarController 실습

- TabBarController 프로젝트 만들기
- TabBarController 화면 전환
- View Life Cycle 알아보기
- Tabbar Item 꾸미기



UICollection



CollectionView

- Cell
- Decoration view background
- · Supplementary view Header/footer



UICollectionView

 데이터 항목의 정렬 된 컬렉션을 관리하고 사용자 정의 레이아 웃을 사용하여 데이터 항목을 제공하는 객체입니다





UICollectionView

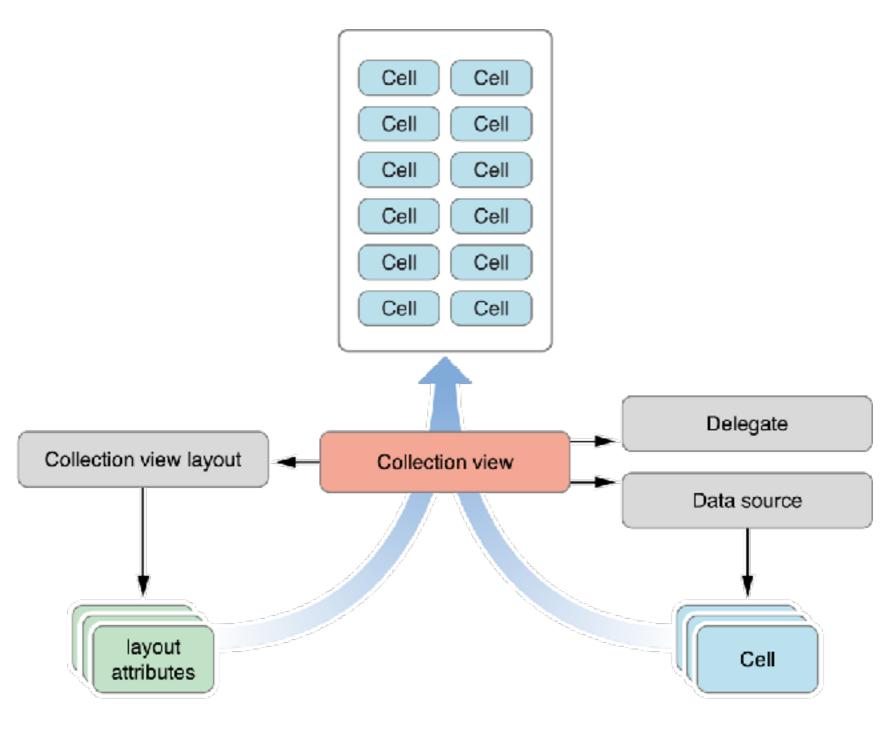
- The classes and protocols for implementing collection views
 - Manager
 - UICollectionView
 - UICollectionViewController
 - Protocol
 - UICollectionViewDataSource
 - UICollectionViewDelegate
 - Presentation
 - UICollectionReusableView
 - UICollectionViewCell

flow Layout 보다 더욱 구체적인개념-> custom

- Layout
 - UICollectionViewLayout
 - UICollectionViewLayoutAttributes
 - UICollectionViewUpdateItem
- Flow Layout basic it
 - UICollectionViewFlowLayout
 - UICollectionViewDelegateFlowLayout



UICollectionView



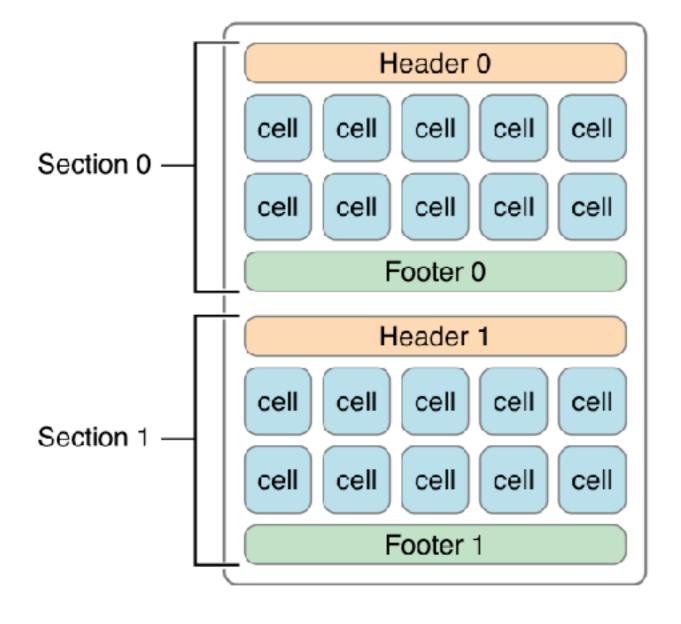
Layout-Related Data Objects

Content-Related Objects

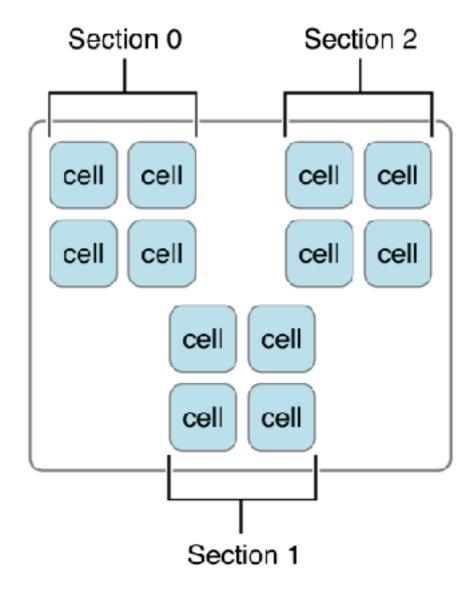


Layout

Flow Layout

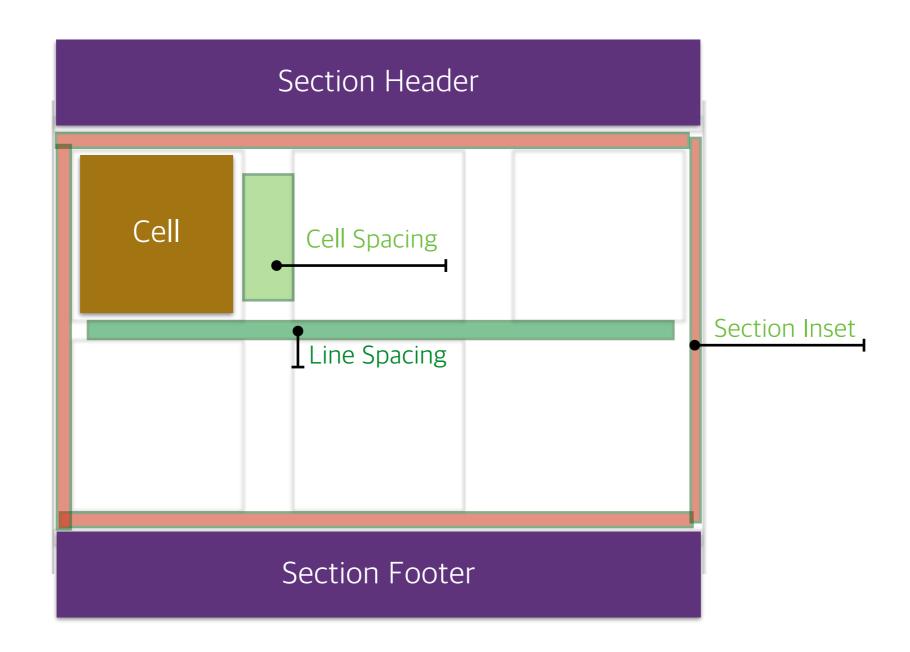


Custom Layout





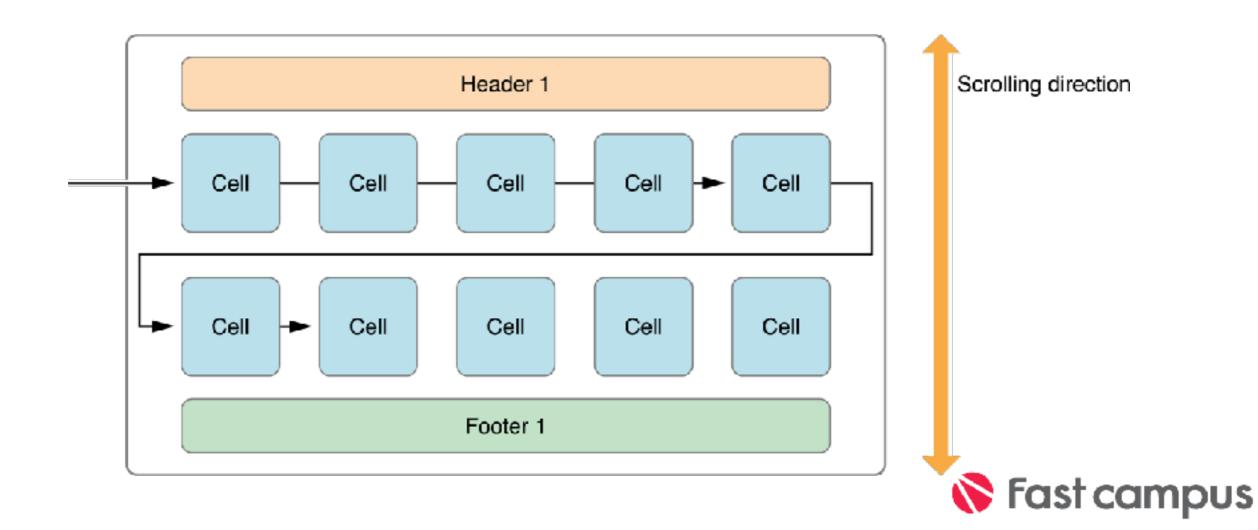
Section Layout





FlowLayout

- UICollectionViewFlowLayout Class에 정의
- Scroll Direction
 - 1. Vertical
 - 2. Horizontal



Flow Layout Attributes 정의

- UICollectionViewDelegateFlowLayout protocol 이용
- UICollectionViewDelegate가 정의된 인스턴스에서 작성.

```
func collectionView(_ collectionView: UICollectionView, layout
  collectionViewLayout: UICollectionViewLayout, sizeForItemAt indexPath:
  IndexPath) -> CGSize

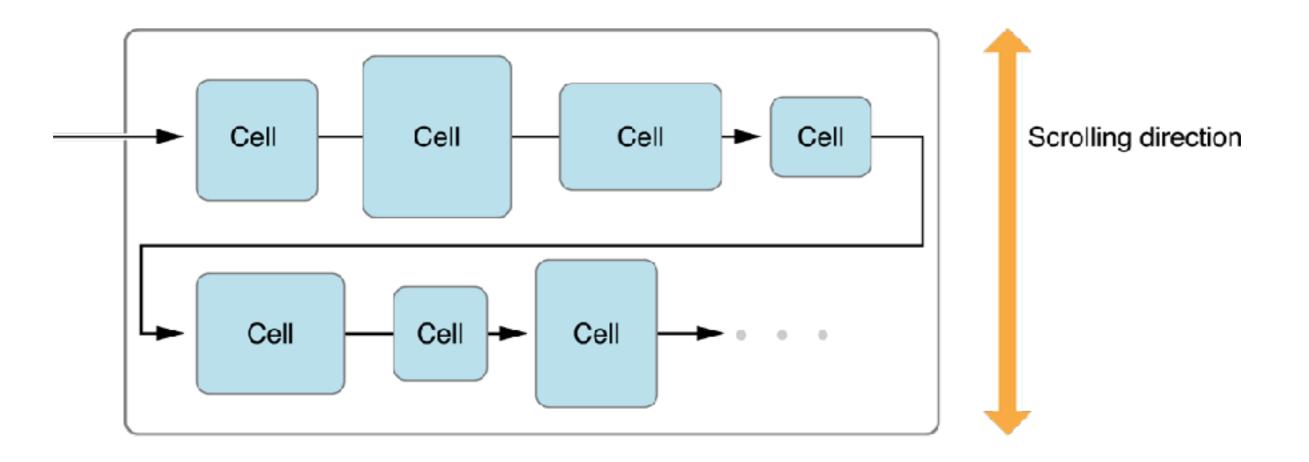
func collectionView(_ collectionView: UICollectionView, layout
  collectionViewLayout: UICollectionViewLayout,
  minimumInteritemSpacingForSectionAt section: Int) -> CGFloat

func collectionView(_ collectionView: UICollectionView, layout
  collectionViewLayout: UICollectionViewLayout,
  minimumLineSpacingForSectionAt section: Int) -> CGFloat

func collectionView(_ collectionView: UICollectionView, layout
  collectionViewLayout: UICollectionView: UICollectionView, layout
  collectionViewLayout: UICollectionViewLayout, insetForSectionAt
  section: Int) -> UIEdgeInsets
```



Item Size



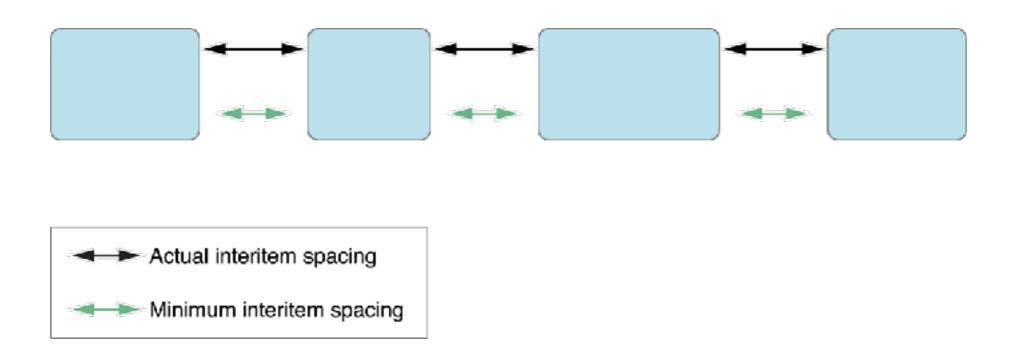
func collectionView(_ collectionView: UICollectionView,

layout collectionViewLayout: UICollectionViewLayout,

sizeForItemAt indexPath: IndexPath) -> CGSize

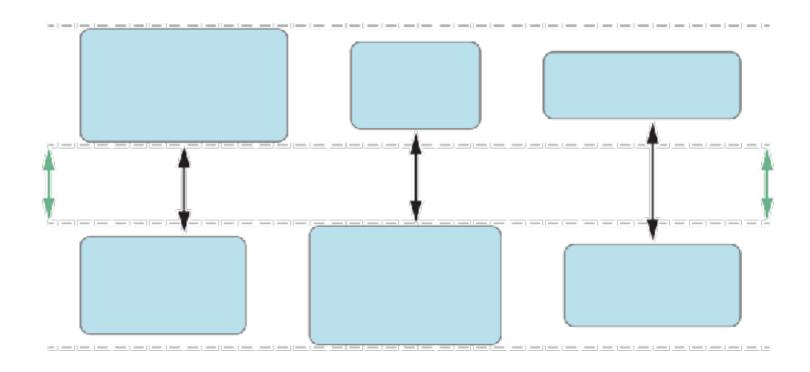


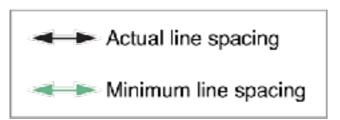
Item Spacing





Line Spacing

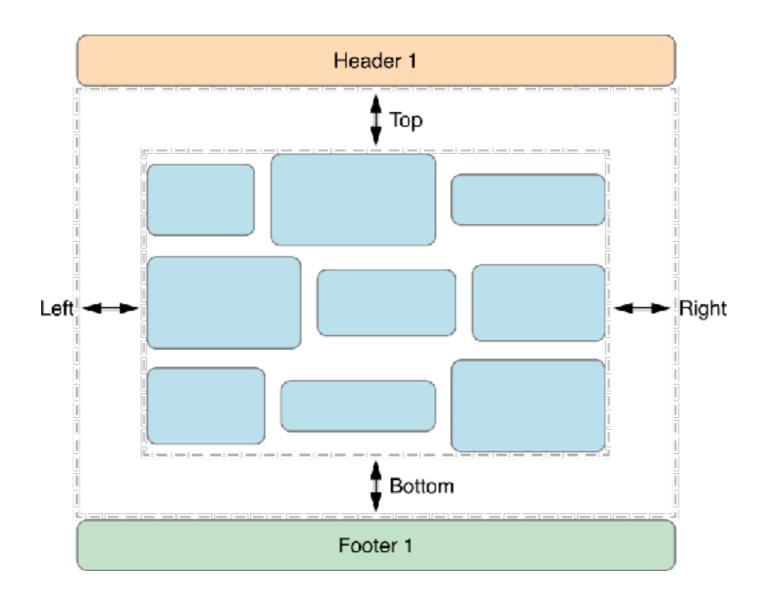






Section Inset

inset = UIEdgeInsetsMake(top, left, bottom, right)





Protocol

- UICollectionViewDataSource
- UICollectionViewDelegate
- UICollectionViewDataSourcePrefetching



UICollectionViewDataSource

```
public func collectionView(_ collectionView: UICollectionView,
numberOfItemsInSection section: Int) -> Int

public func collectionView(_ collectionView: UICollectionView,
cellForItemAt indexPath: IndexPath) -> UICollectionViewCell

optional public func numberOfSections(in collectionView: UICollectionView)
-> Int
```



UICollectionViewDelegate

```
optional public func collectionView(_ collectionView: UICollectionView,
shouldHighlightItemAt indexPath: IndexPath) -> Bool
optional public func collectionView(_ collectionView: UICollectionView,
didHighlightItemAt indexPath: IndexPath)
optional public func collectionView(_ collectionView: UICollectionView,
didUnhighlightItemAt indexPath: IndexPath)
optional public func collectionView(_ collectionView: UICollectionView,
shouldSelectItemAt indexPath: IndexPath) -> Bool
optional public func collectionView(_ collectionView: UICollectionView,
shouldDeselectItemAt indexPath: IndexPath) -> Bool // called when the user
taps on an already-selected item in multi-select mode
optional public func collectionView( collectionView: UICollectionView,
didSelectItemAt indexPath: IndexPath)
optional public func collectionView(_ collectionView: UICollectionView,
didDeselectItemAt indexPath: IndexPath)
```

Fast campus

컬렉션 뷰 만들기

• 같이 해봐요

