Collection View TIPS & TRICKS

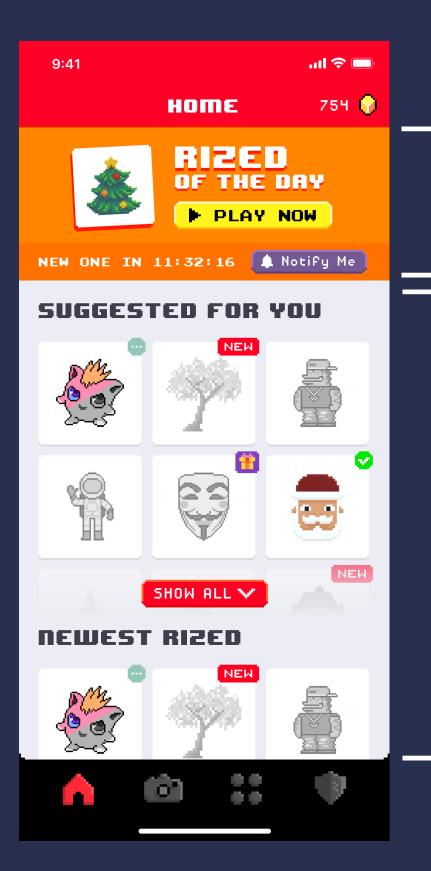




Collection Views, the basics

An object that manages an ordered collection of data items and presents them using customizable layouts.

Apple Documentation



Header

Cells

Collection View

Collection View

Delegate

Collection View

Delegate

Data Source

Collection View

Delegate

Data Source

Layout



The job of a layout object is to determine the placement of cells, supplementary views, and decoration views inside the collection view's bounds and to report that information to the collection view when asked. The collection view then applies the provided layout information to the corresponding views so that they can be presented onscreen.

Apple Documentation

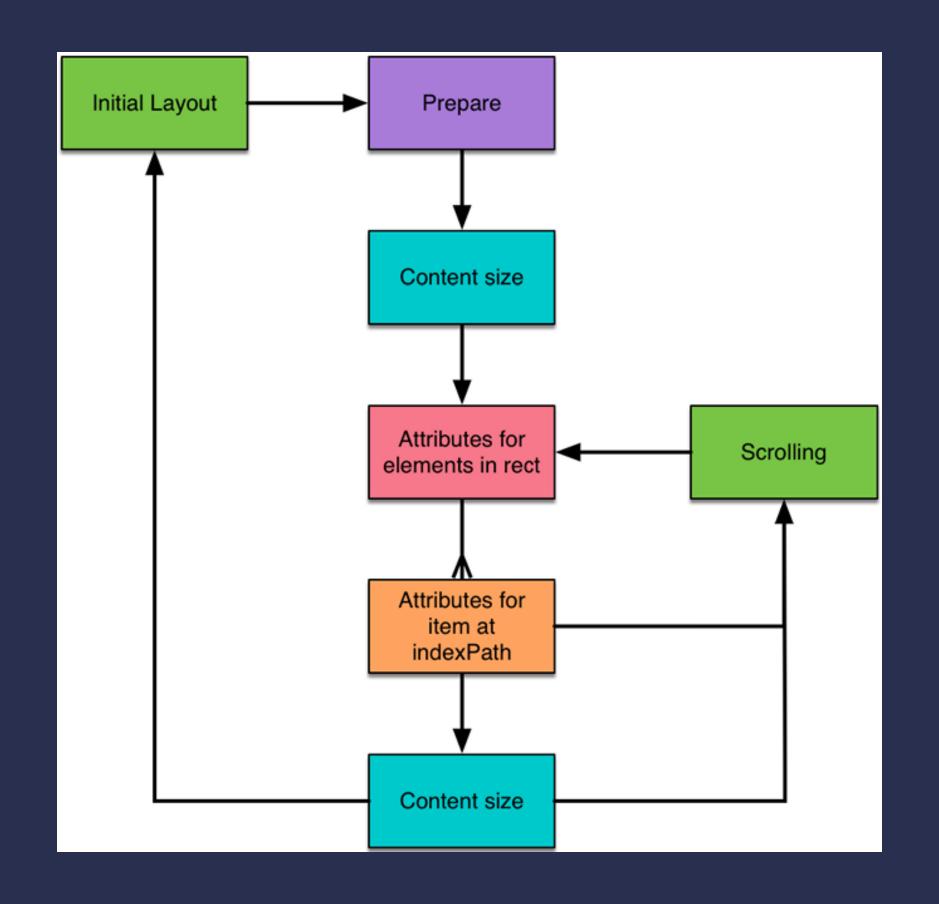
```
func prepare() {
    // nothing by default
}
```

var collectionViewContentSize: CGSize { get }

```
func layoutAttributesForElements(in rect: CGRect) -> [UICollectionViewLayoutAttributes]? {
   // a very complex implementation here
   return nil
}
```

```
func layoutAttributesForItem(at indexPath: IndexPath) -> UICollectionViewLayoutAttributes? {
   // a very complex implementation here
   return nil
}
```

```
func shouldInvalidateLayout(forBoundsChange newBounds: CGRect) -> Bool
  return false
}
```



UICollectionViewFlowLayout L

You must subclass UlCollectionViewLayout in order to use it. Before you consider subclassing, though, you should look at the UlCollectionViewFlowLayout class to see if it can be adapted to your layout needs.

Apple Documentation



- https://developer.apple.com/documentation/uikit/ uicollectionviewlayout
- https://developer.apple.com/library/content/documentation/ WindowsViews/Conceptual/CollectionViewPGforIOS/ CreatingCustomLayouts/CreatingCustomLayouts.html
 - https://www.objc.io/issues/5-ios7/collection-views-and-uidynamics/