Basic COLLECTION VIEW Creation

* Create a New application – choose tvOS and single view application
* Choose language Swift and name the project
* Go to main storyboard
* Delete the default VC and the corresponding swift file
* Create new collection view controller and add it. MAKE THIS THE INITIAL VC
* Zoom in and see the cell on top left corner
* Create 2 new classes of type UICollectionViewController and UICollectionViewCell and name them accordingly
* Assign the newly created classes to the Collection View Controller and CollectionViewCell in the storyboard
* Add new Image view to the cell and add the constraints to the image View. Select ADJUSTS IMAGE WHEN FOCUSED in the attribute inspector for the image view. This will enable the Focus properties for the image view
* Under collection view - change the cell size to 400 and 250
* Add an identifier to the collectionViewCell in the story board
* Open assistant editor and drag and drop imageView to CollectionViewCell to create and outlet
* Download the resources file - [goo.gl/F2fGVV](https://goo.gl/F2fGVV)
* Add all the images to the Assets.xcassets file
* Add the json file to the main folder
* In your collection View controller Swift file, add
  + var array = ["babyCheetah1.jpg","babyElephant1.jpg","babyGiraffe1.jpg","babyPanda1.jpg","babySeaOtter1.jpg","babyTiger1.jpg","kitten1.jpg","puppy1.jpg"]
  + Change the section count
  + Change the items count
* In the samer file, in the method cellForItemAtIndexPath add
  + let cell = collectionView.dequeueReusableCellWithReuseIdentifier("collectionViewCell", forIndexPath: indexPath) as! ImageCollectionViewCell
  + cell.imageView.image = UIImage(named: array[indexPath.row])
* Run

Optional:

To adjust the spacing between all the cells so the parallax and focus effect is clearly visible:

* Under collection View - attribute inspector,
  + Min spacing: 80(For Cells), 80(For Lines)
  + Section Insets: 40(Top) 60(Bottom) 40(Left) 40(Right)
* Run and see the difference

Detail View and segue creation:

* In the main Story board, create a new UIViewController
* Create a segue from the cell to the new VC (show) (Drag and drop the cell item to the newly created VC)
* Add an identifier to the segue you just created “segueToDetailView”
* Create a new detail class and attach it to the VC
* Drag and drop new Image View and then labels (heading and description labels) and buttons and then the counter label
* Set Image view aspect ratio: 850x550
* Change the heading label font size - 21
* Descr label size: 690x360
* Increase the number of lines in the description label to15
* Create a new Swift class file of type UIViewController
* Next connect the IBOutlets to the actual detailVC swift file
* Close the assistant editor
* Create a new
  + var counter=0
* Add new var and then talk about the communication b/w VCs using segues
  + var sentData: NSDictionary!
* Add the code to parse the json file and add send it to the detail view during the segue (COPY)

if segue.identifier == "segueToDetailView" {

           if let indexPath = self.collectionView?.indexPathForCell(sender as! UICollectionViewCell) {

               let detailView = segue.destinationViewController as! DetailViewController

               if let path = NSBundle.mainBundle().pathForResource("detailViewData", ofType: "json")

               {

                   if let jsonData = NSData(contentsOfFile: path)

                   {

                       var json: Array<NSDictionary>!

                       do {

                           json = try NSJSONSerialization.JSONObjectWithData(jsonData, options: NSJSONReadingOptions.MutableContainers) as? Array

                       } catch {

                           print(error)

                           return

                       }

                       if let item = json[indexPath.row] as? [String: AnyObject] {

                           if let animalDetails = item["animal"] as? NSDictionary {

//                                heading.text = animalDetails["heading"] as? String

                               detailView.sentData = animalDetails;

                           }

                       }

                   }

               }

           }

       }

* Add the following in the detail view’s view did load method

imageGallery.image = UIImage(named:sentData["image1"] as! String)

heading.text = sentData["heading"] as? String

animalDescription.text = sentData["details"] as? String

counter = 1;

imageCounter.text = String(counter) + "/4"

* Create IBAction outlets for the prevBtn and nextBtn PrimaryActionTriggered
* Add the following code to those methods
  + Next button action trigger method

counter += 1

       imageGallery.image = UIImage(named:sentData["image"+String(counter)] as! String)

       imageCounter.text = String(counter) + "/4"

       if counter == 4 {

           nextBtn.enabled = false

           nextBtn.alpha = 0.3

       }

       if !prevBtn.enabled {

           prevBtn.enabled = true;

           prevBtn.alpha = 1.0;

       }

* + Prev button action trigger method

counter -= 1

       imageGallery.image = UIImage(named:sentData["image"+String(counter)] as! String)

       imageCounter.text = String(counter) + "/4"

       if counter == 1 {

           prevBtn.enabled = false

           prevBtn.alpha = 0.3

       }

       if !nextBtn.enabled {

           nextBtn.enabled = true;

           nextBtn.alpha = 1.0;

       }