UI Scroll View - Panning an Image

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UIScrollView is mainly used to implement the scrolling and zooming functions in Objective C. It is a useful way to display objects that you want to show but are larger than the screen.

Simple way to pan around a large image:

To start, save your image in Resources/Supporting Files folder of your Xcode Project

Storyboarding

In the tool bar on the right scroll down the objects and you will see the ImageView icon. Drag it onto the view controller. Also, set the view mode in the Image View to the Top Left.

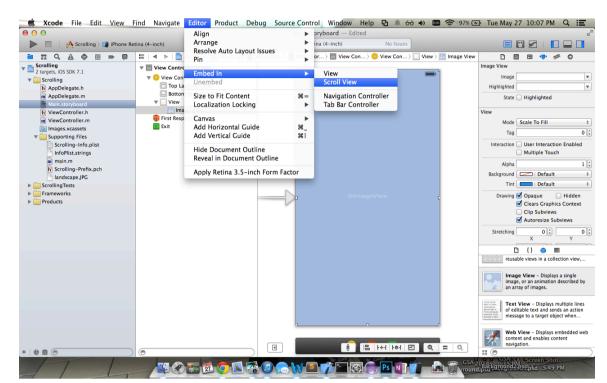
Scrolling | Alexandra's iPhone | Scrolling | Scrolling

Image View - Displays a single image, or an animation described by an array of images.

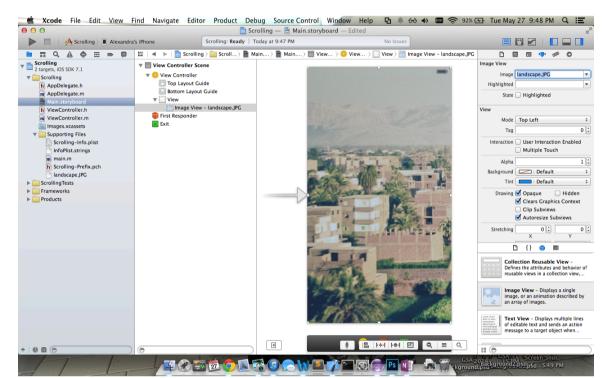
After adding the ImageView to your storyboard and embed the picture inside it by using Editor in the toolbar as seen in the screenshot.

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Web View - Displays embedded web



 $\label{eq:Add-the-image} Add\,the\,image\,\,in\,\,using\,\,the\,\,attributes\,\,inspector.$



Programming

 $\label{local-controller} \textbf{Call} \ \, \textbf{@property (nonatomic, strong) IBOutlet UIScrollView *scrollView; in your ViewController.h file and @property (nonatomic, strong) UIImageView *imageView; in your ViewController.m file.}$

To add in the ScrollView, you can create a frame using CGRect. You can frame it to be the size of an iPhone 4/4S (320 by 480) or iPhone 5 (320 by 568).

Declare the variables for the UIImage, UIImageView and the UIScrollView in the - (void)viewDidLoad method.

```
Ullmage *bigImage = [Ullmage imageNamed:@"landscape.jpg"];
UllmageView *imageView = [[UllmageView alloc]initWithImage:bigImage];
UlscrollView *scrollView = [[UlscrollView alloc] initWithFrame:scrollFrame];
```

Implement this code below in the - (void)viewDidLoad method located in the ViewController.m:

```
- (void)viewDidLoad

{
    //Implementing a single subview that scrolls/pans within the view
    //choose the size of the subview with CGRect: 320 by 480 is the size of iPhone 4
    CGRect scrollFrame = CGRectMake(0, 20, 320, 480);

//declaring the variables of the large image, the view to place it in and the scrollview (with respect to the set frame above)

Ullmage *bigImage = [Ullmage imageNamed:@"landscape.jpg"];

UllmageView *imageView = [[UllmageView alloc] initWithImage:bigImage];

UlScrollView *scrollView = [[UlScrollView alloc] initWithFrame:scrollFrame];

//adding a subview in order to pan around the image
[scrollView.contentSize = imageView.frame.size;
[self.view addSubview:scrollView];

//could set the background color to black if don't want the image behind the view
[scrollView setBackgroundColor:[UlColor blackColor]];

}
```

To zoom in and out, add this method:

```
- (UIView *)viewForZoomingInScrollView:(UIScrollView *)scrollView
{
   return self.imageView;
}
```