ViewController



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Hôm trước đã học UIView

- Hierarchy (bố, con, anh, chị, trên, dưới)
- Geometry (ở chỗ nào, to, bé ra làm sao)
- Rendering (hiển thị đậm nhạt, ẩn hiện...)
- Animation (hoạt hình cổ điển)
- Animation with Block (hoạt hình sử dụng block)

Bài tập UIView giao về nhà

Hoạt họa di chuyển quả bóng theo hình quả

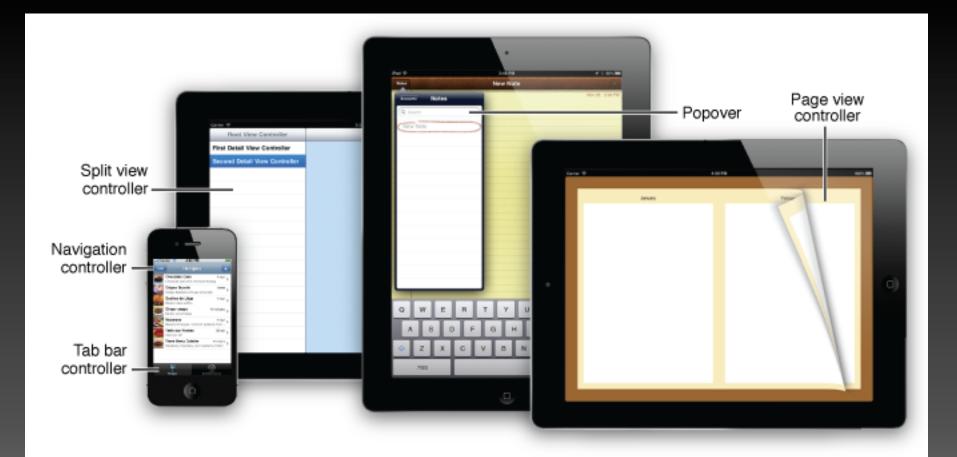
chám

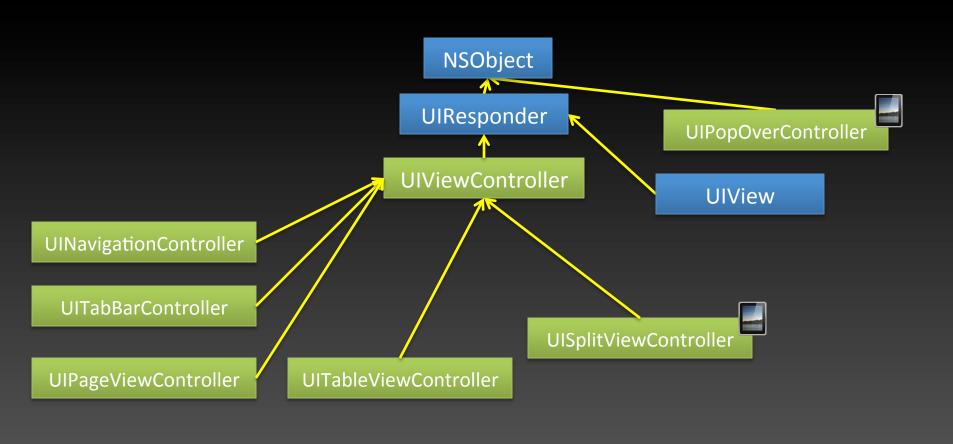
Games maching kiểm tra trí nhớ



Nội dung

- UIViewController
- UINavigationController
 - Customize navigation bar
 - Share data between ViewControllers
- UITabBarController

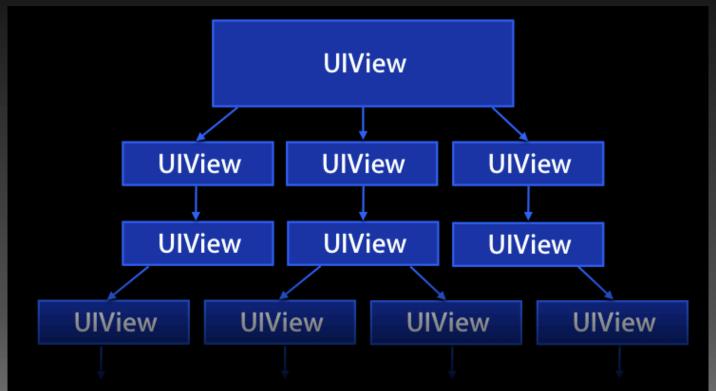




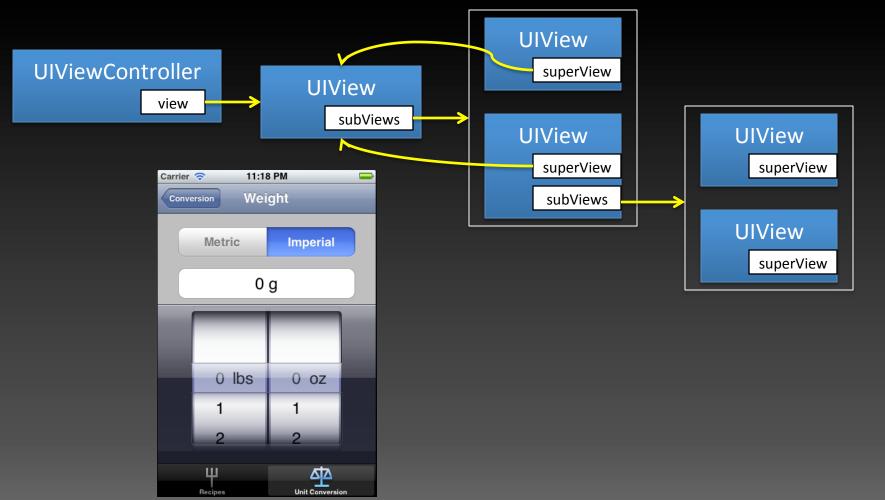
CustomViewController

UIViewController

Quản lý tập các UIView (manage a view hierarchy)



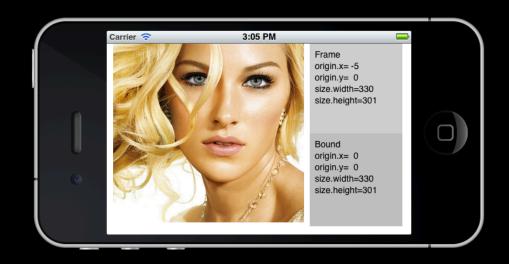
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Hiển thị View bằng cách nạp vào file Nib. Mở dự án "LoadMultipleViews" lần trước ra xem lại nhé.

Xử lý sự kiện xoay ngang –dọc (rotation)





- (void)willRotateToInterfaceOrientation:
 (UIInterfaceOrientation)toInterfaceOrientation duration:
 (NSTimeInterval)duration;
- -(void)willAnimateRotationToInterfaceOrientation:
 (UIInterfaceOrientation)toInterfaceOrientation duration:
 (NSTimeInterval)duration
- (void)didRotateFromInterfaceOrientation: (UIInterfaceOrientation)fromInterfaceOrientation

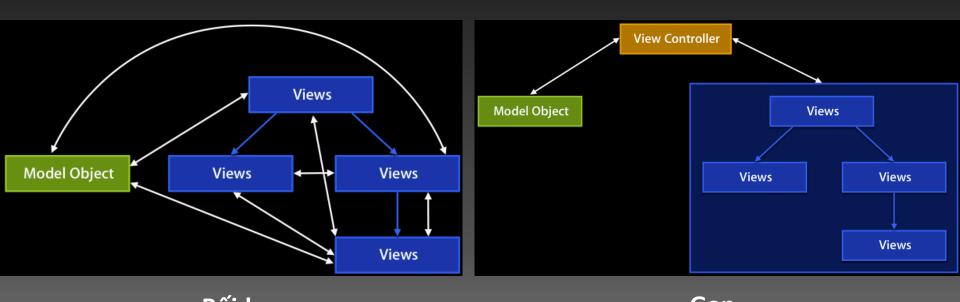
```
- (void)layoutSubviews {
    UIDeviceOrientation orientation = [[UIDevice currentDevice] orientation];
    if (orientation == UIDeviceOrientationLandscapeLeft || orientation ==
UIDeviceOrientationLandscapeRight)
        debugText.frame = CGRectMake(320, 20, 146, 146);
        debugText2 frame = CGRectMake(320, 161, 146, 146);
    }
       (orientation ==UIDeviceOrientationPortrait)
        debugText.frame = CGRectMake(12, 309, 146, 146);
        debugText2.frame = CGRectMake(166, 309, 146, 146);
                                                                         http://techmaster.vn
```

- (void) didRotateFromInterfaceOrientation:

[self layoutSubviews];

(UIInterfaceOrientation) from InterfaceOrientation

Quản lý, xử lý tập trung các sự kiện thay vì phải phân phối xuống từng View trong View Hierarchy. Tuy nhiên trong vài trường hợp, viết code trong UIView để vẽ đồ họa, xử lý tương tác đa chạm sẽ gọn gàng hơn.



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Viết một lần để sử dụng lại nhiều lần:

- UINavigationController
- UITabBarController
- UISplitViewController
- UIPopOverController
- UIPageViewController
- CustomViewController có thể tìm trên GitHub rất nhiều!

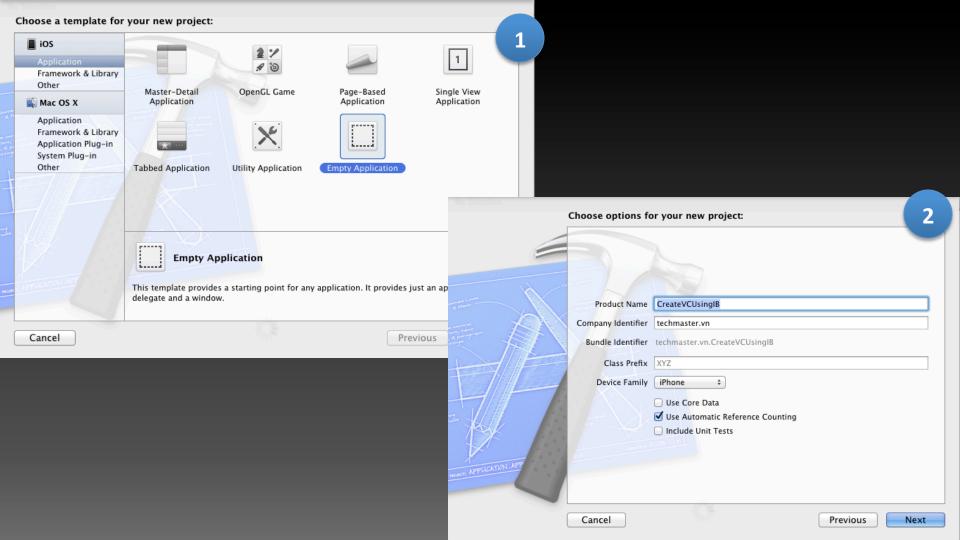
Tổng kết lại – đừng quên !

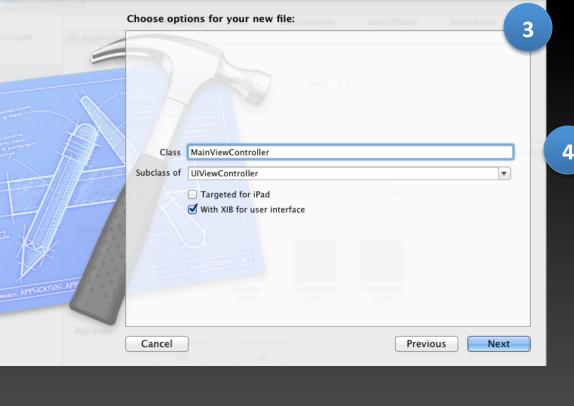
- Quản lý tập các UIView
- Hiển thị View bằng cách nạp vào file Nib
- Xử lý thiết bị xoay ngang dọc (rotation)
- Quản lý, xử lý tập trung các sự kiện thay vì phải phân phối xuống từng View trong View Hierarchy
- Tính đóng gói và sử dụng lại



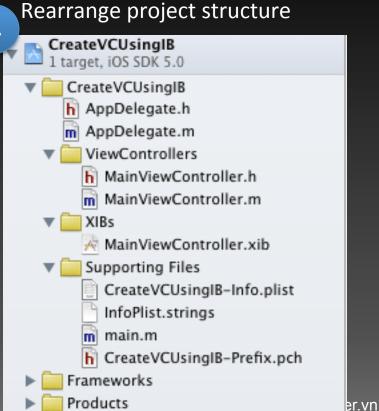
Create a UIViewController

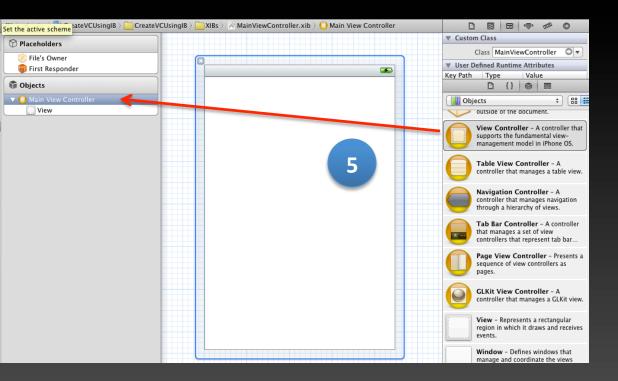
1. Create new project based on EmptyWindow template





Create UIViewController with XIB





- 6 Adjust custom class of MainViewController and File's Owner correctly
 - In AppDelegate.h add #import "MainViewController.h"

```
@synthesize window = window;
- (BOOL)application:(UIApplication *)application
didFinishLaunchingWithOptions:(NSDictionary *)launchOptions
    self.window = [[UIWindow alloc] initWithFrame:[[UIScreen mainScreen]]
bounds]];
    MainViewController *mainViewController = [[MainViewController alloc]
       initWithNibName:@"MainViewController" bundle:nil];
    self.window.rootViewController = mainViewController;
    [self.window makeKeyAndVisible];
    return YES;
```

#import "AppDelegate.h"

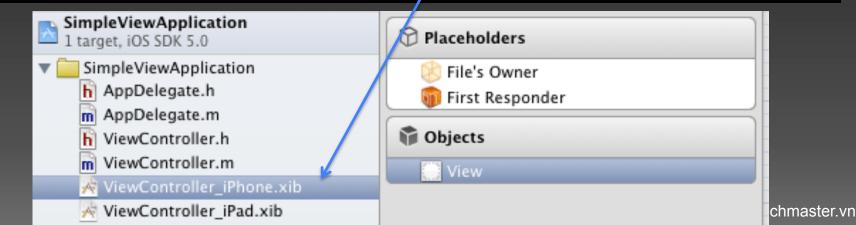
#import "MainViewController.h"

@implementation AppDelegate

initWithNibName

- (id)initWithNibName:(NSString *)nibName
bundle:(NSBundle *)nibBundle

self.viewController = [[ViewController alloc]
initWithNibName:@"ViewController_iPhone"
bundle:nil]; /



— viewDidLoad called after the view controller has loaded its view hierarchy into memory. Should overwrite it!

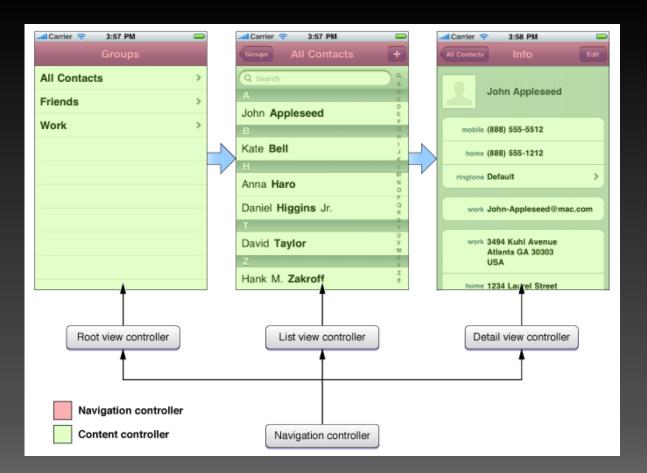
viewWillUnload called just before releasing the controller's view from memory

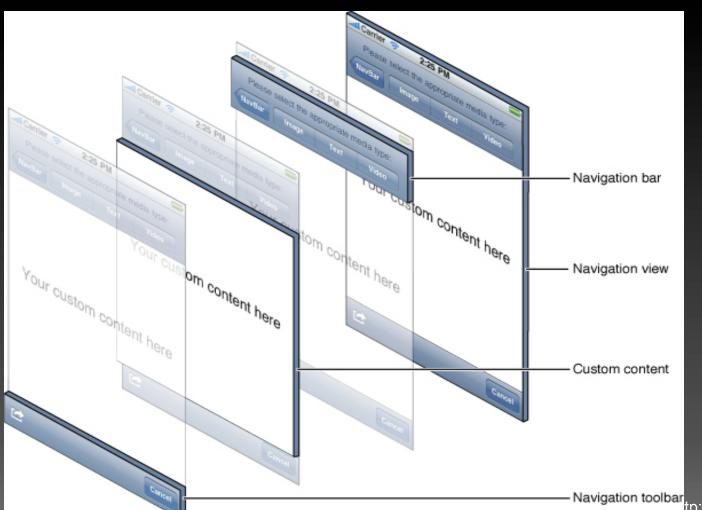
viewDidUnload called after the view controller's view has been released. Overwrite to perform final cleanup

Responding to View Events

- -(void)viewWillAppear:(B00L)animated
- (void)viewWillDisappear:
 (BOOL)animatedviewWillDisappear:
- (void)viewDidDisappear: (BOOL)animated
- (void) viewWillLayoutSubviews
- (void) viewDidLayoutSubviews

UINavigationController





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Demo CreateNavigationUsingIB

1. Create Empty project

Relationship between UIViewControllers

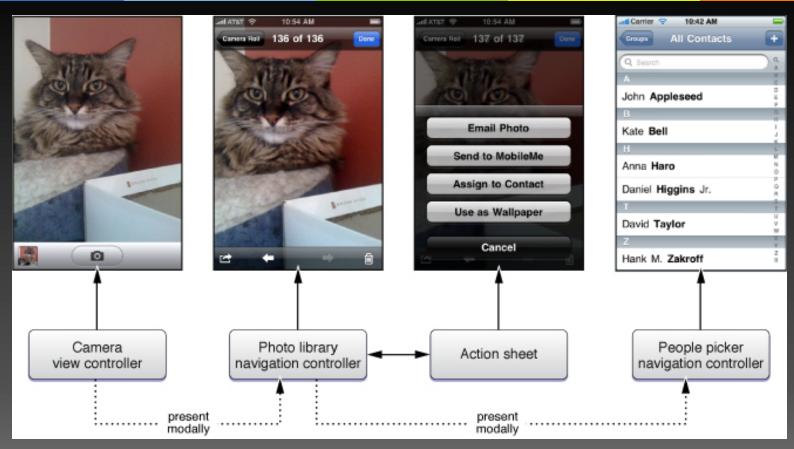


Property that points to related ViewController

- navigationController
- splitViewController
- tabBarController
- searchDisplayController
- modalViewController



Chained of modal view controllers

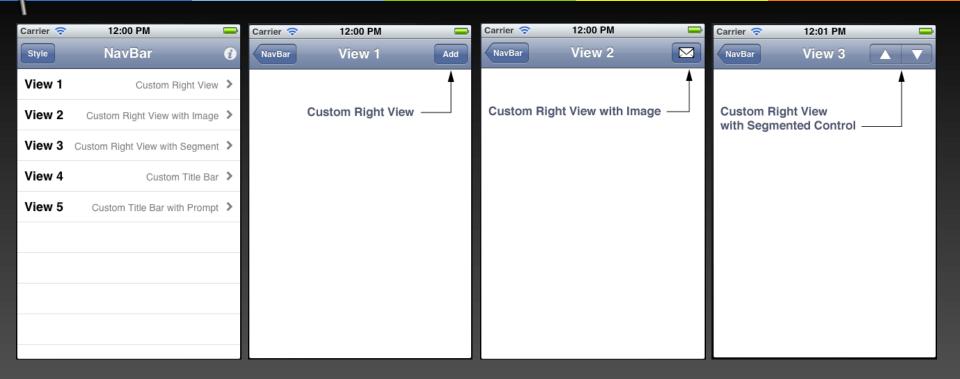


Many ways to create GUI

Using project template (traditional IB or StoryBoard)



Demo



Demo Apple\NavBar

What we learnt from this example

UINavigationController with UITableView

