

Special View Controllers

Lecture 12

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Specialized View Controllers

- UIKit provides a variety of specialized view controllers that can be used to build sophisticated user interfaces
- These view controllers provide a great deal of automatic behavior for you

UITabBarController

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UITabBarController

- `UITabBarController` implements a "radio" interface with several distinct modes
- Great for apps that need to do several *independent* tasks

UITabBarController

- Example: Clock



UITabBarController

- Example: Clock



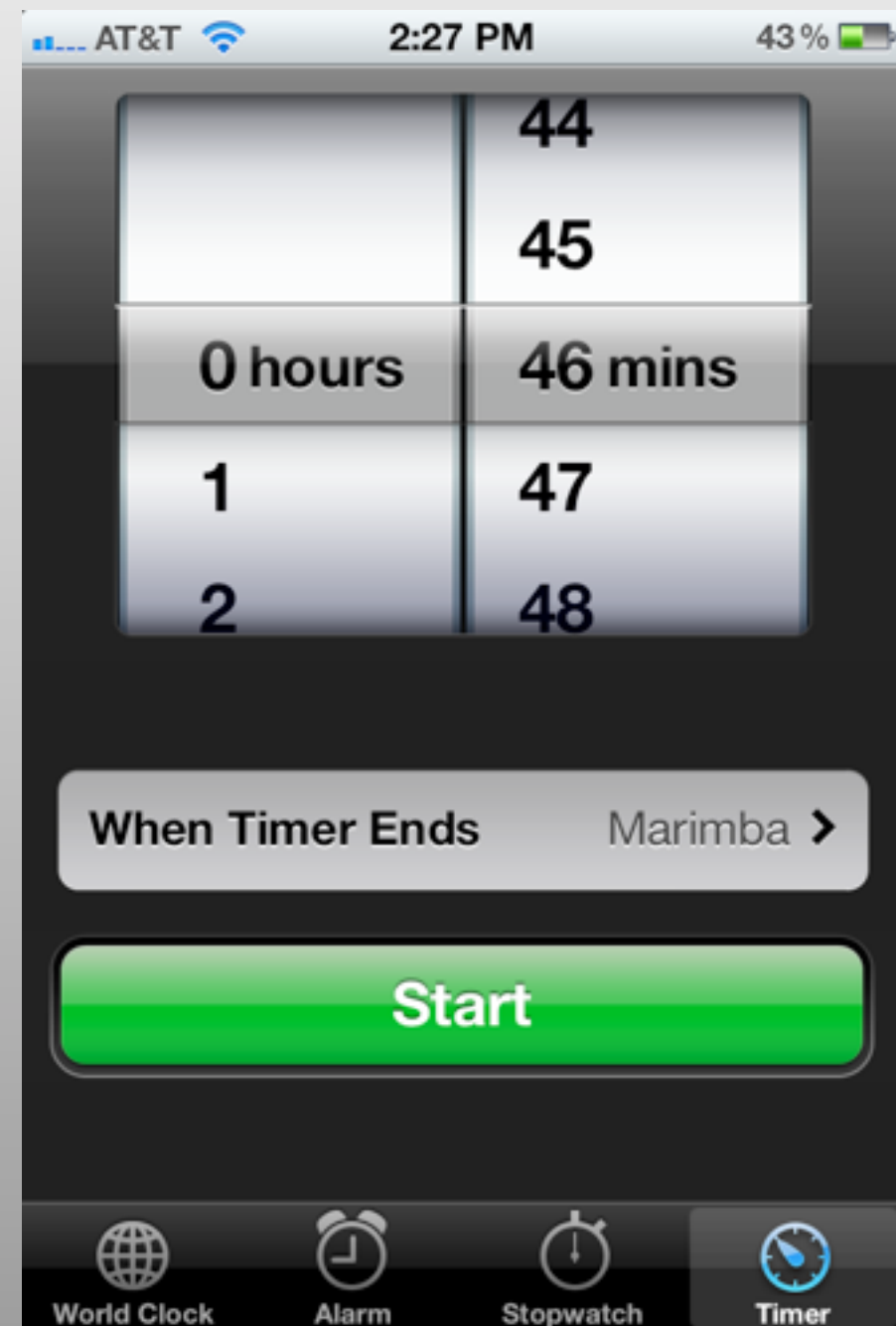
UITabBarController

- Example: Clock



UITabBarController

- Example: Clock



UITabBarController

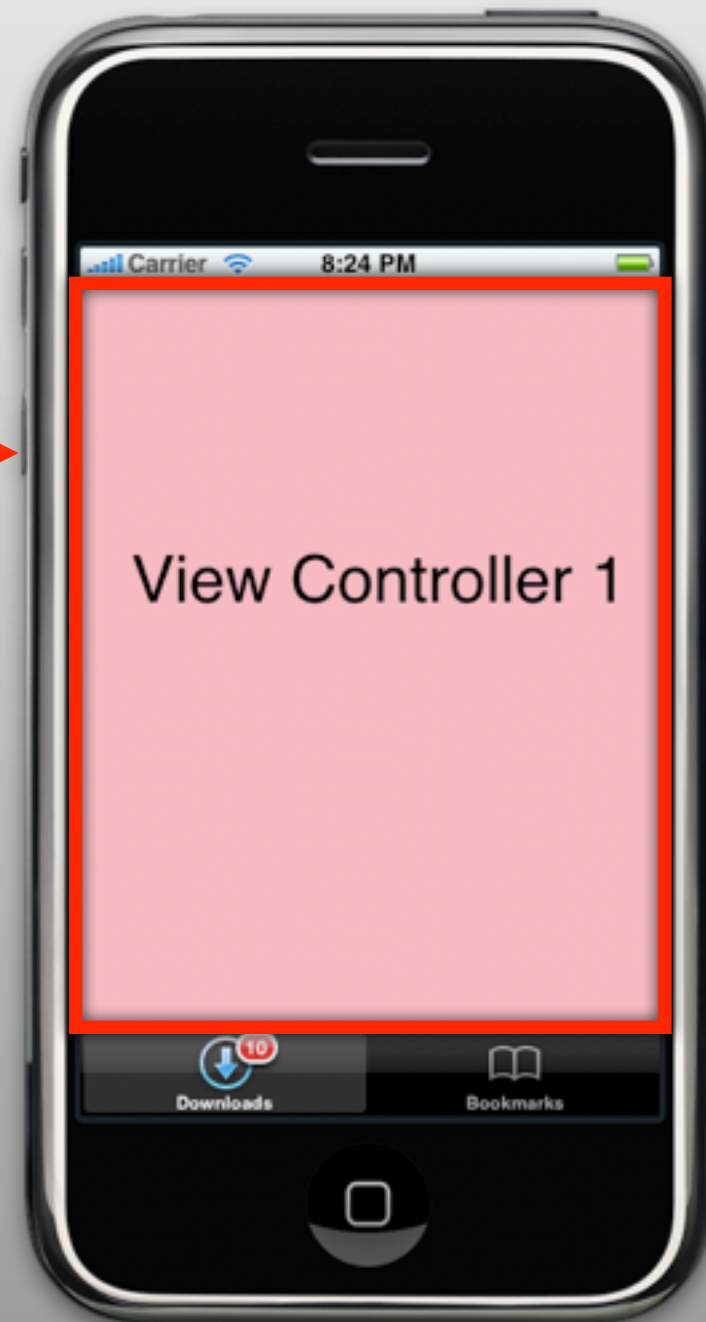


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UITabBarController

Switches contained view →



UITabBarController

Draws tab bar under views



UITabBarController

- `UITabBarController` has a property `viewControllers`, an `NSArray` of view controllers
- Setting this property sets the view controllers that will be managed by the tab bar controller

UITabBarController



UITabBarController

- Each view controller can access its tab bar item with `[self tabBarItem]` or `self.tabBarItem`
- Includes icon, title, and badge value (see `UITabBarItem` and `UIBarItem`)



UINavigationController

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UINavigationController

- UINavigationController provides a "drill-down" interface that allows "multi-level" application hierarchies
- Manages a stack of view controllers that you can push onto and pop off of

UINavigationController

- Example: Settings



UINavigationController

- Example: Settings



UINavigationController

- Example: Settings



UINavigationController

- Example: Settings



UINavigationController

- Example: Settings



UINavigationController

- Draws navigation bar with title



UINavigationController

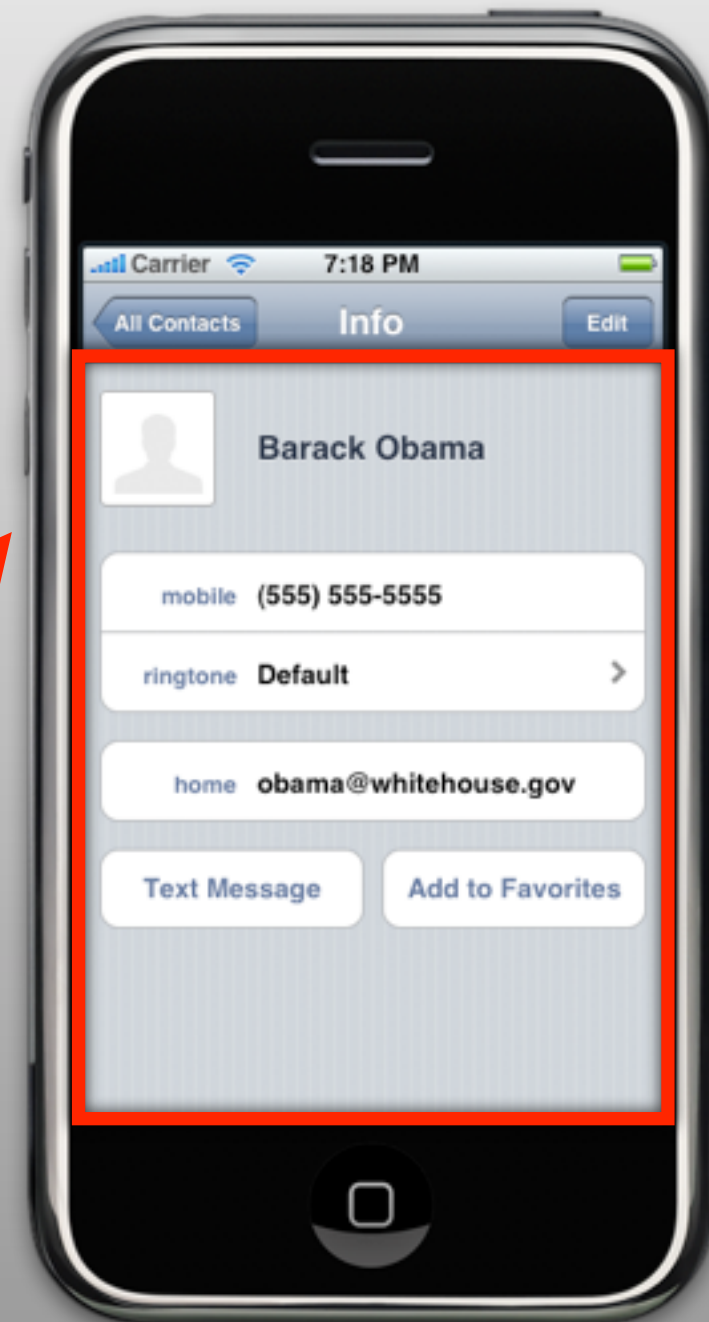


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UINavigationController

"Pushes" view controllers
onto the navigation "stack"



UINavigationController

Draws button to "pop" the view controller off again



UINavigationController

- Any view controller can access the navigation controller that contains it (if it exists) using the `navigationController` property

UINavigationController

- Two useful methods on UINavigationController:
 - (void) pushViewController: (UIViewController *) vc
animated: (BOOL) animated;
 - (UIViewController *) popViewControllerAnimated:
(BOOL) animated;

UINavigationController



```
[navController pushViewController:viewCtrlr  
animated:YES];
```

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UINavigationController



```
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```

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UINavigationController



```
[navController pushViewControllerAnimated:YES];
```

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UINavigationController



```
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UINavigationController



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UINavigationController

- Each view controller can access its navigation item with `[self navigationItem]` or `self.navigationItem`
- Includes title and buttons



UISplitViewController

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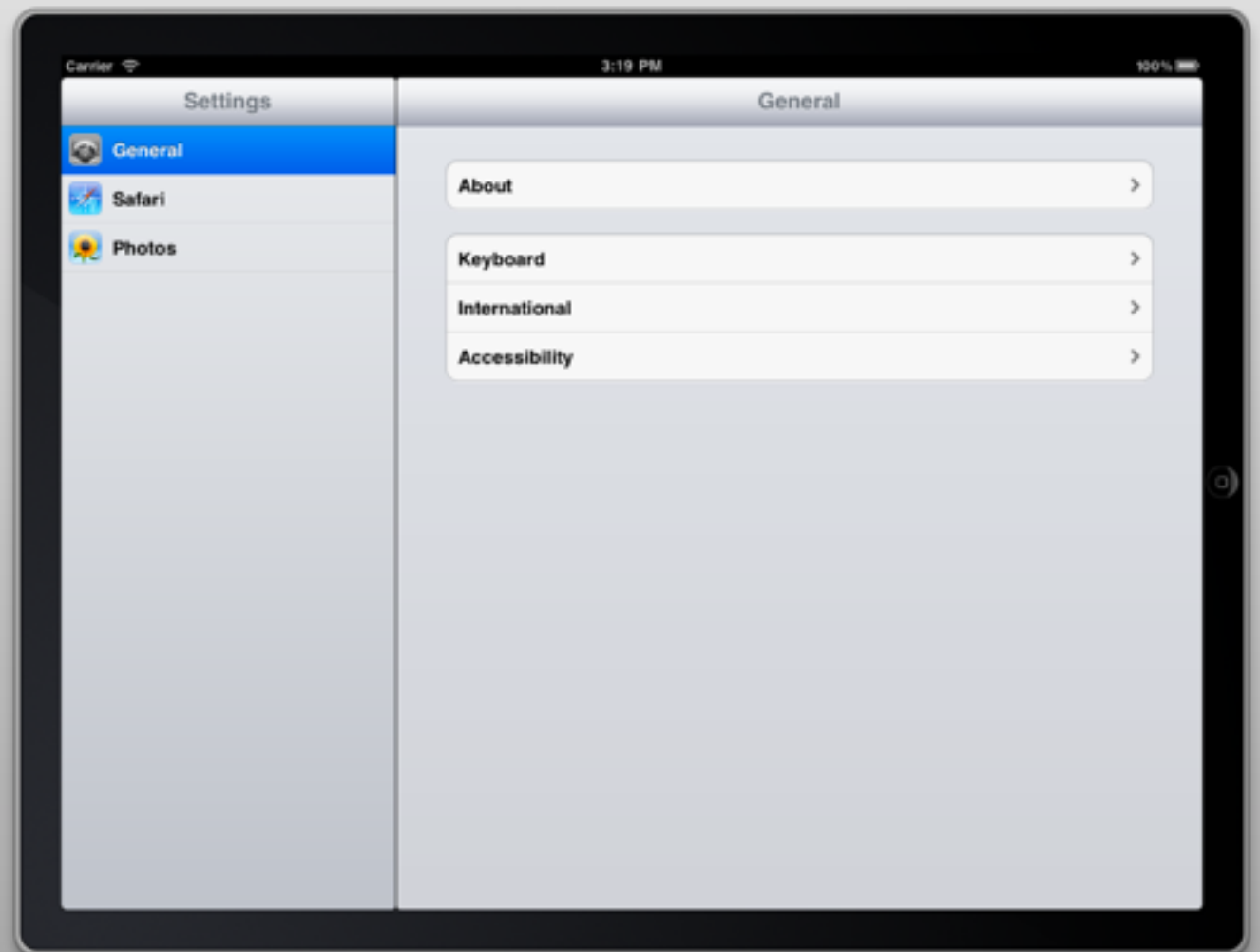
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UISplitViewController

- `UISplitViewController` manages two side-by-side view controllers
- Intended use: "master-detail" interface
- iPad-only (attempts to create one on other devices will raise an exception)

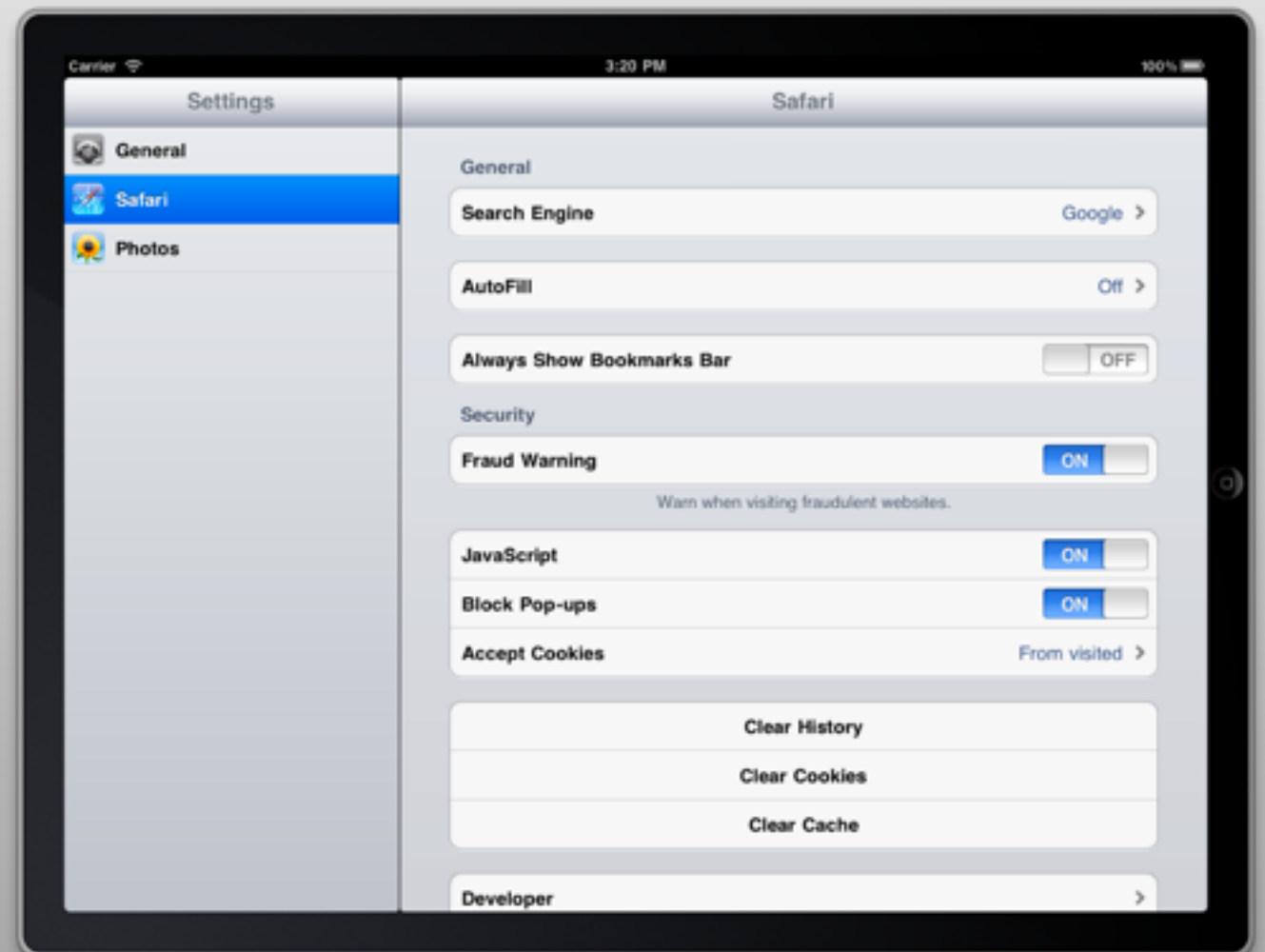
UISplitViewController

- Example: Settings



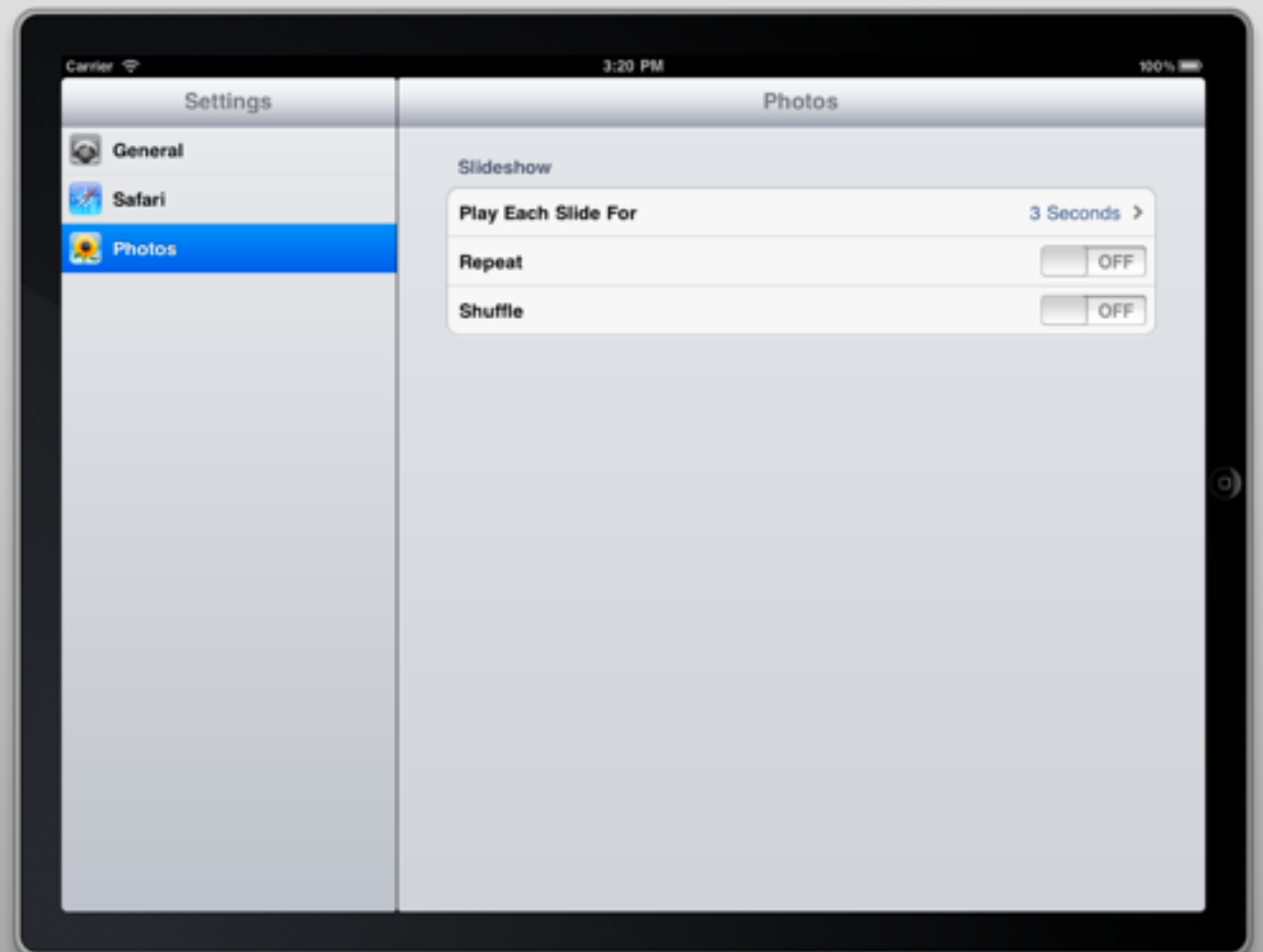
UISplitViewController

- Example: Settings



UISplitViewController

- Example: Settings



UISplitViewController

- Like UITabBarControllers, UISplitViewControllers have a viewControllers property (which must have length 2)
 - Element 0 is the left view
- Specifies a delegate protocol UISplitViewController delegate

Modal UITableViewController

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Modal UIViewController

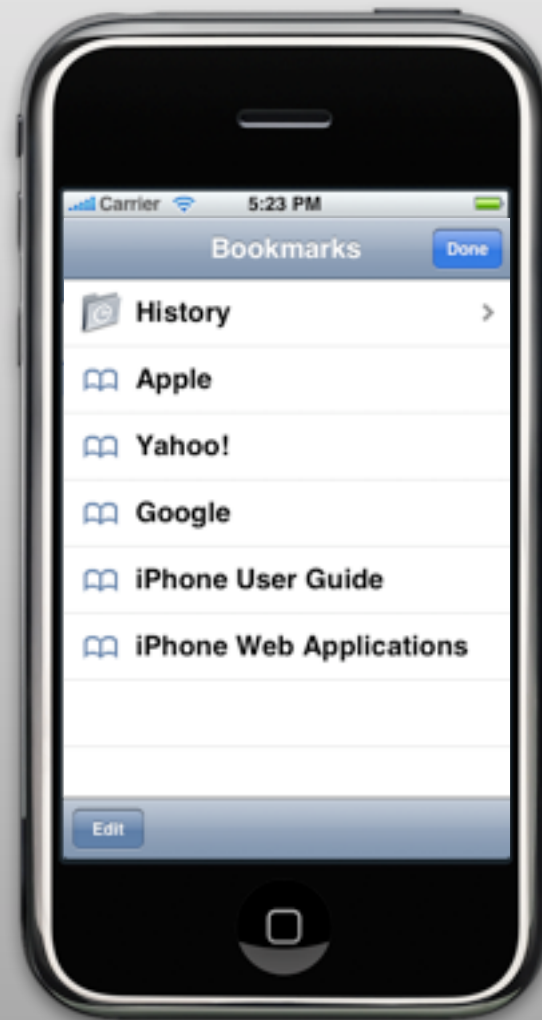


```
[self presentViewController:ctrlr  
    animated:YES];
```

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Modal UITableViewController

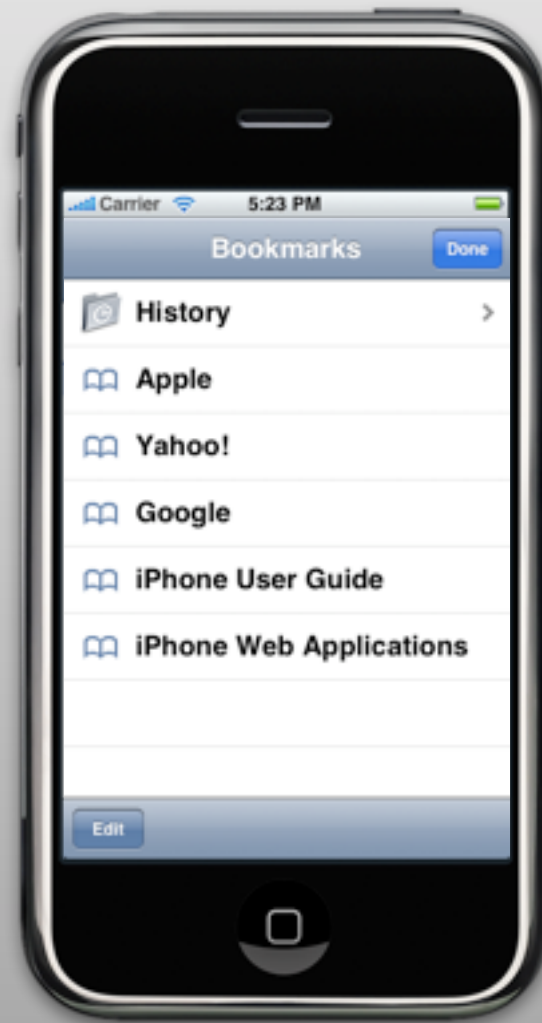


```
[self presentViewController:ctrlr  
    animated:YES];
```

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Modal UITableViewController



```
[self dismissModalViewControllerAnimated:YES];
```

Modal UIViewController



```
[self dismissModalViewControllerAnimated:YES];
```

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UITableViewController

- Manages lists of information in tables
- Works with **UITableView**
- More about this later

