iPhone Programming View Controllers

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Model-View-Controller

- Controller provides an interface between the model (program logic) and the view (user interactions)
- Simple View Controller
 - UIViewController
 - UIView

Model-View-Controller ...

- App Delegate
 - CONTAINS an instance of ulwindow and ulviewController application:didFinishLaunchingWithOptions:

```
    UIViewController:
        var view: UIView!
        init(nibName nibName: String?,
             bundle nibBundle: NSBundle?)
        func loadView()
        func viewDidLoad()
    UIView:
        init(frame aRect: CGRect)
```

Screen Orientation

• A view controller can override the shouldAutorotate and supportedInterfaceOrientations Variables to limit the list of supported orientations:

```
override var shouldAutorotate : Bool {
          return true
}

override var supportedInterfaceOrientations :
UIInterfaceOrientationMask {
          return UIInterfaceOrientationMask.all
}
```

Screen Orientation ...

Processing a screen orientation change:

```
override func viewWillTransition(to size: CGSize,
with coordinator:
UIViewControllerTransitionCoordinator) {
    // code to process screen orientation change
}
```

Demo:

SimpleViewController

Modal View Controller

- Overlay another view controller on top of an existing one
- Every view controller can present at most one modal view controller at a time
- A view controller that is presented as a modal view controller by another view controller has a reference to its parent view controller

```
var presentingController: UIViewController? { get }
```

 The view controller that is presented by this view controller var presentedViewController: UIViewController? { get }

Modal View Controller ...

Presenting a modal view controller:

Dismissing a modal view controller:

Demo:

ModalViewController