

# Lecture 3

Beginning iOS

# Multiple View Controllers

- Nearly every app has more than one view controller
- UINavigationController - a controller that manages multiple view controllers
- UINavigationController - comes with a UINavigationController visual element as well
- UINavigationController - will display the ViewController's title property in the nav bar if set.

# Ditching Storyboards & Adding a Navigation Controller

Adding Buttons  
Connecting up actions  
Pushing new View Controller

# Orientation

- Orientation “cascades” down  
(project -> window -> navigation controller -> view controller -> child view controllers)
- Parent can decide whether or not to forward rotation events down to children
- frame and center properties are now different because of rotation

# Sizing Subviews

More Advanced Way

# A word on layout

- There is no “correct” way to lay things out
- Case-by-case basis
- `viewWillLayoutSubviews` will trigger whenever view’s frame changes
- Lots of great `CGRect` “helper” methods for traditional layout