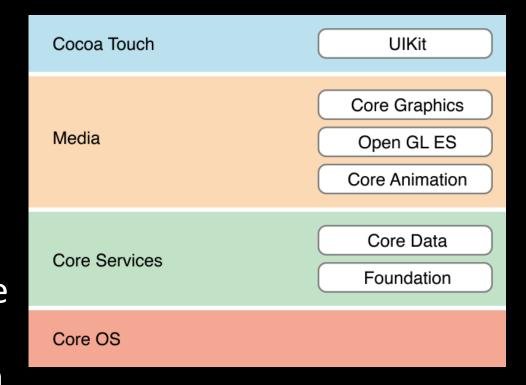
Mobile Application Development Aileen Pierce

FRAMEWORKS

iOS Frameworks

- iOS provides frameworks for incorporating technologies, services, and features into your apps.
- Frameworks provide the code and resources needed in your development



Foundation Framework

- The Foundation framework is the foundational toolkit for iOS programming
- Provides many object classes and data types

- The UIKit Framework provides the classes needed to construct and manage an application's user interface for iOS.
 - Creating common UI elements
 - Drawing to the screen
 - Event handling
 - Present text and web content
 - Handle touch and motion based events

User Interface Controls

- Apple developed a set of user interface controls that work well on the iPhone and iPad.
- You won't find a checkbox, radio button, or drop down menu in any native app.

- UIView class
 - A view is the rectangular area on the screen
 - Views display content
 - Views handle touch events
 - Hierarchical
 - One superview
 - May have many (or none) subviews
 - Hierarchy is usually constructed in Interface Builder
 - Subviews are displayed on top of its parent view

- UIWindow class
 - Subclass of UIView
 - Apps only have a single window
 - It's created automatically at run time
- UllmageView
- UILabel
- UIControl
 - Base class for all UI controls

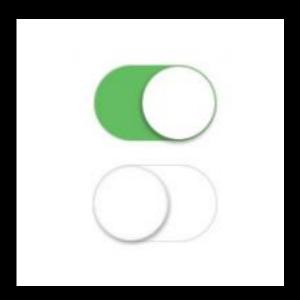
- Controls:
 - UlButton
 - UISwitch
 - UISlider
 - UISegmentedControl
 - UITextField
- And others that we'll be exploring this semester

UI Controls

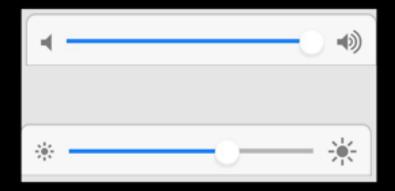
- Interface controls are used in three modes
 - Passive
 - Text field
 - Active
 - buttons
 - Static
 - Image view, labels
- Most UI controls can act in all three modes

Switch

- A switch is used to turn on and off a setting or feature.
- It toggles between Boolean values true and false
- UISwitch class
 - on property is of type Bool that is true when it's on otherwise it's false.



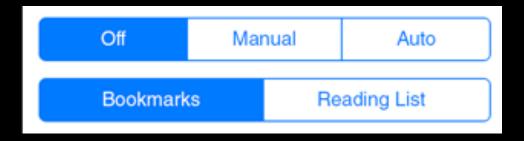
Slider



- A slider is used to specify a numeric value within a range of values.
- UISlider class
 - value property is a Float that stores the value.

Segmented Control

- A segmented control is a multiple choice control that allows users to select a single value.
- Behaves similarly to a radio button.
- UISegmentedControl class
 - selectedSegmentIndex is an Int that stores
 the selected index. Starts at 0.



There are many other frameworks to explore!