# Lecture 1 reading assignments

Topic

- Purpose
  - Students aware of basic design principle for mobile user interfaces and iOS
  - Students know and can use the landing point for picking up existing technology in the iOS
- WWDC 2013 videos
  *https://developer.apple.com/videos/wwdc/2013/*
  - What's New in iOS User Interface Design by Greg Christie and Mike Stern (Session 208)
  - Best Practices for Great iOS UI Design by Mike Stern (Session 225)
- Documentation: Design with the User in Mind
  *https://developer.apple.com/library/ios/referencelibrary/GettingStarted/RoadMapiOS/chapters/RM_iHIG_Station/Fundamentals/Fundamentals.html*
- Documentation: iOS Human Interface Guidelines
  *https://developer.apple.com/library/ios/documentation/userexperience/conceptual/mobilehig/*
  - Designing for iOS 7
  - iOS App Anatomy
  - Layout
  - Interactivity and Feedback
  - Animation
  - Integrating with iOS
  - Design Principles
  - Case Study: From Desktop to iOS
  - Multitasking
- Documentation: iOS Technology overview
  *https://developer.apple.com/library/ios/documentation/miscellaneous/conceptual/iphoneostechoverview/Introduction/Introduction.html*
  - Read the first page
  - Skim the table of content
- Self-assessment
  - Pick a desktop application and try to redesign it for iOS. Use the design process and principles that you have leaned. Then, search in iPhone App Store to compare your design with the existing apps.
    *Suggested applications for redesigning:*
    *• Financial planning*
    *• Password manager*
    *• News reader*
  - Could you name frameworks that do the following tasks?
    *The name should be XXX.framework.*
    - Compose and send a Twitter message
    - Compose and send an email message
    - Find the metadata about a photo such as shutter speed, exposure value
      Render a photo on the screen

| Topic |
|---|
| ● Render a photo on the screen |
| ● Apply a filter to make a photo looks antique |
| ● Perform a custom-made image processing filter that uses a lot of parallelizable linear algebra operations |
| ● Storing user's login information of your application |
| ● Generate public and private key |
| ● Display a standard text box |
| ● Format detailed typography such as ligature |