**Topic: Tab View Controller**  
(Previous topic: Multi-view apps)

Intro

* Look at due dates
* Reminder about code reviews

Review

* Switching between views can be done with a NavigationController (multiple types) or by your own code.
  + Textbook (Maskrey et al) did it with code
  + Xamarin Phoneword app used a Navigation Controller (UINavigationController) with both code and Segues.
  + Your lab assignment had you use a NavigationController and code

Tabbed Applications

* Overview
  + The UITabBarController is another kind of navigation controller, but it inherits from UIViewController). <https://developer.apple.com/library/ios/documentation/UIKit/Reference/UITabBarController_Class/index.html>
  + UITabBarController has a TabBar with TabBarItems. Clicking a tab (TabBarItem) launches a view (via it’s ViewController).
  + Switching ViewControllers can be done in code, or with Segues.
    - Maskrey et al shows a TabBarController with segues
    - The Xamarin Guide shows a TabBarController with code that does the switching
  + Storyboard arrangement
    - Source-less segue goes to TabBarController. It is the root controller
    - ctrl-dragging from the TabBarController to a ViewController adds a Segue and a TabBarItem. Change the title and add an icon.
  + Look at the example from the Xamarin Guide, [Creating Tabbed Applications](https://developer.xamarin.com/guides/ios/user_interface/creating_tabbed_applications).
    - Note that in the textbook and the Xamarin Guide, they start “from scratch”— they don’t use the Tabbed Application Template.
    - First section, a TabController as the root controller
      * The child ViewControllers are created programmatically in the UITabController’s constructor.
      * There are no Segues, they aren’t needed since the ViewController instances aren’t coming from the storyboard.
* Demo:
  + Create a solution using the ~~Tabbed Application Template~~ – It’s broken, don’t use it
    - Add a TabBarController to the storyboard
    - Add three ViewControllers
    - Add a TabBarItem each VeiwController
    - Add a title and icon to each TabBarItem
    - Add a Segue for each tab. Add them in the order you want them to appear. (You can’t reorder them without deleting all the Segues and then adding them back in the order you want.)