

MOBILE DEVELOPMENT LESSON 09 PROTOCOLS AND DELEGATION

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LEARNING OBJECTIVES

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- Recap: Arrays and Dictionaries
- Recap: Table View Controllers
- Code-Along: Table View Controllers
 - In Interface Builder
 - In Pure Code
- Protocols
- Homework 3: Start In-Class

TABLES

WHAT IS A UITABLEVIEWCONTROLLER?

- → Table views are a 1-Dimensional, scrollable list.
- Vocabulary:
 - Section: All table views contain multiple sections
 - Row: Every section has a number of rows, which are entries in that section
 - Index path: The combination of a section and row that is a unique entry in a table view
 - Cell: The view that is displayed for an index path

CONROLERS

PROTOCOLS

PROTOCOLS

PROTOCOL STATEMENT

• protocol statements are a grouping of methods and properties that can be shared across classes that don't have any relationship to each other of any sort.

They're very cool and very complicated, so let's go to Playgrounds!

DELEGATION

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THE DELEGATE

- ▶ The delegate is a relationship between two classes instances. One instance has a delegate variable which refers to an instance that has certain methods (meets a protocol). The is the original class's trusted friend
 - E.g. UITableView has var delegate: UITableViewDelegate?
- Instances tell their delegates information about when things happen to them
 - Or they get critical information from them
 - Many of Apple's classes do, e.g. UITableView, UITextField, UINavigationController
- A class has a delegate when it wants to delegate some behavior to another class
 - E.g. UITextField's delegate gets called when a text field text changes, the user presses return, etc
- Classes may have one delegate

HOMEWORK

- Review UITableViewController using free tutorials on Ray Wenderlich's website:
 - http://www.raywenderlich.com/tag/uitableview
- Review Classes, Structs, Enums, and Protocols
 - Complete the BlackJack game: due Wednesday, Oct. 28. Remember to partner up!