



**Computing & Information Sciences**  
FLORIDA INTERNATIONAL UNIVERSITY

# Mobile Application Development

## lecture16

Fall 2011 - COP 4655 U1

M/W 6:25pm – ECS 138

Steve Luis

# Agenda

- Property Lists
- TableViews



# Property Lists (plist)

- Store simple hierarchical data to file
- Stores in XML format
- Edit raw/in Xcode.
- Simple types like strings also collections like arrays.
- Bundle used to store file/directory information.
- Use for small storage amounts of persistent data
- Less than a megabyte
- Demo-> Pickers: Dependent

# Table Views

- Display lists of data
- The lists can be customized and display more than just text: Display icons, images, different layouts, and subviews
- Each item is a row. Unlimited number of rows. Only one column.
- Only stores what is needed for display
- UITableView, UITableViewCell
- <UITableViewDataSource, UITableViewDelegate>

# Table Views Con't

- Grouped: Set of rows embedded in a round table.
- Plain: Default. Does not include groups

# Readings

- Apple Developers Library:
  - UITableView
  - UITableViewCell
  - Table View Programming Guide for IOS
  - Property List Programming Guide
  - View Controller Programming Guide
- Conway, Chapters 10 and 11
- Complete by Monday, April 2<sup>nd</sup> for Quiz

# Team Project

- Application: Business
- BizApp must implement a workflow engine:
  - Acquire data, process, store, analyze, report
  - SQLite
- GameApp must implement a game engine controlling:
  - Multiple characters, scenes and levels
  - Cocos2d
- Must use camera and accelerometer
- Can incorporate any libraries to simplify your work.
- Provide project description w/ 3-5 use cases which describe how a user will interact with the application. Be very specific to show how your workflow/game engine is used.
- Extra credit if you R/W to a Cloud Service API, eg.: Twitter/Facebook. (Programming grade points)
- Project Description and use cases due: April 2<sup>nd</sup> at 11pm.

# Teams

- Team 1: Hernandez, Elias, Zanini
- Team 2: Gomez, Letterman, Malek
- Team 3: Long, Miguel Martinez, Walker
- Team 4: Johnson, Zabala, Garcia
- Team 5: Cohen, Marcos Martinez, Vassiliouk
- Team 6: Molina, Elliot
- Team 7: Sierra, Boza