

iOS TableView

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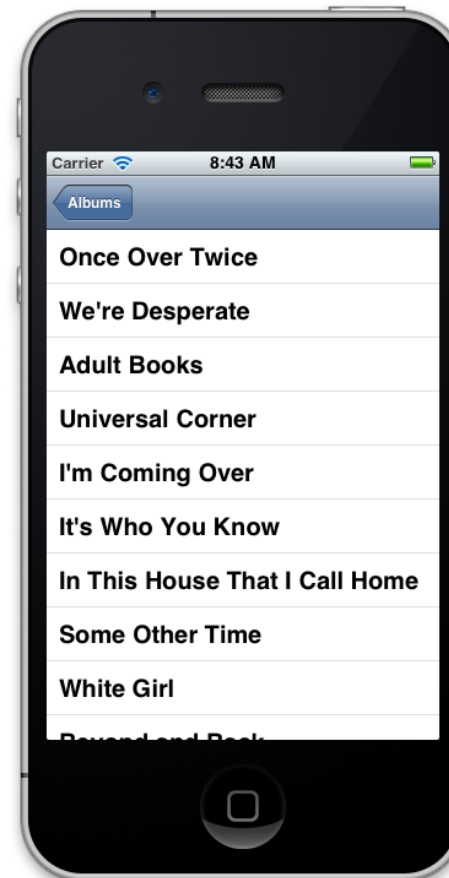
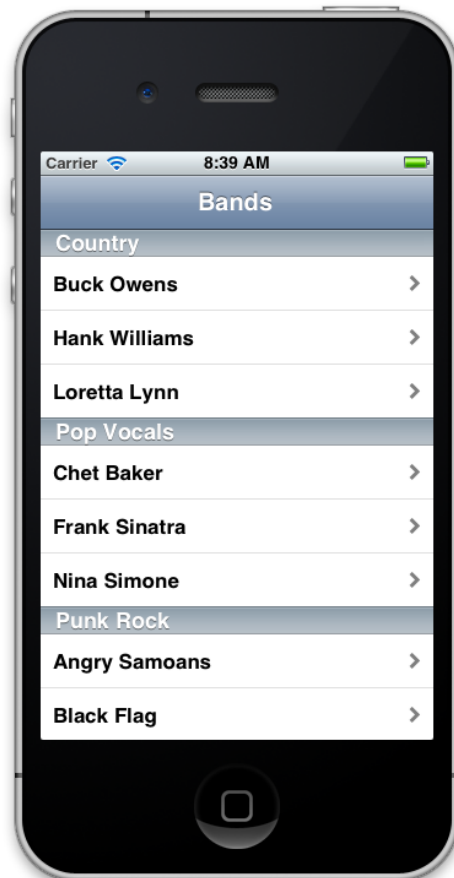
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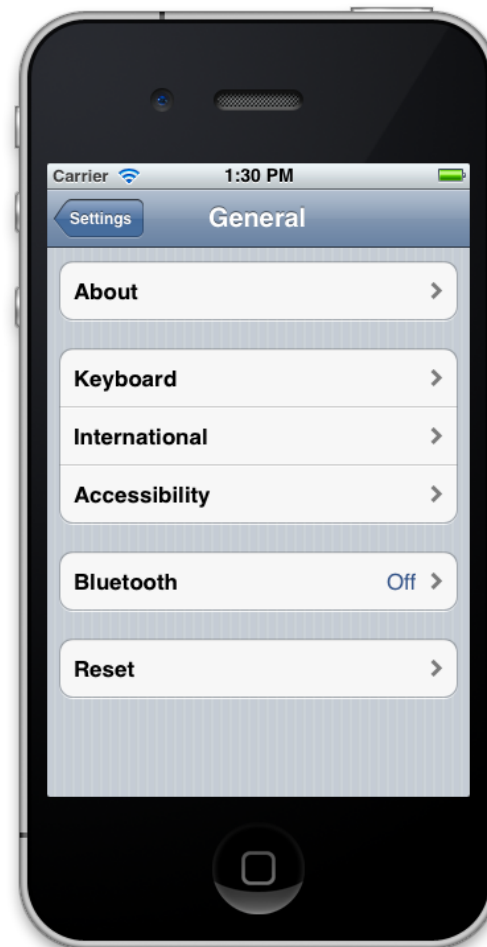
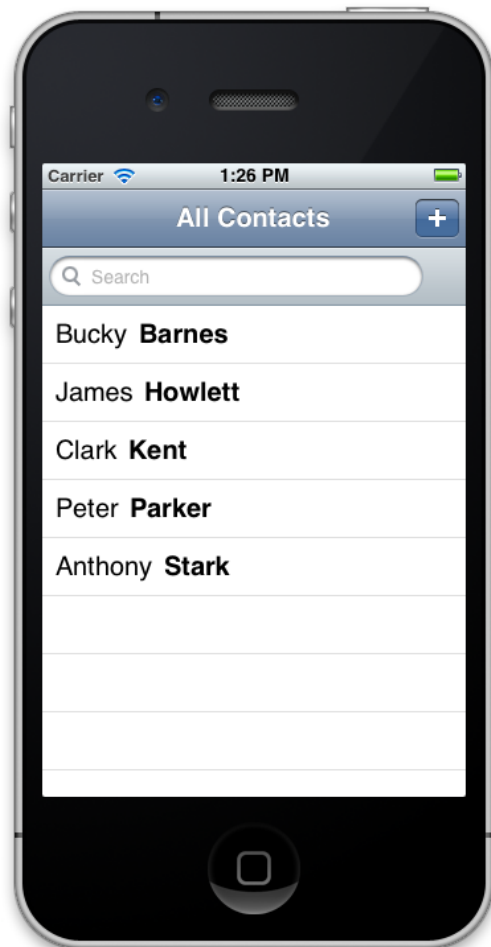
UITableView

- Display either dynamic or static data
- Subclass of UIScrollView
- One-dimensional table
 - For multi-dimensional data – embed the UITableView into a UINavigationController

Sections or Not



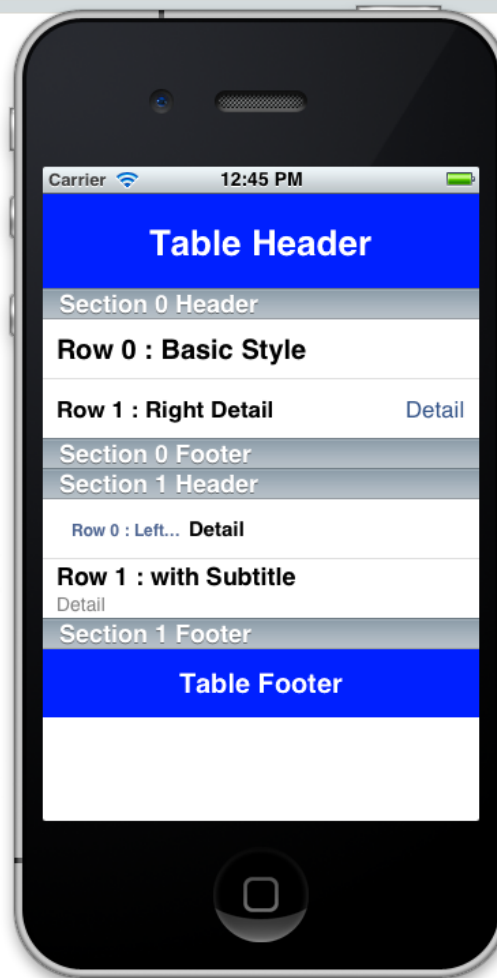
Plain vs. Grouped



Anatomy of UITableView

Each section can have a header and footer as well as the UITableView itself.

Everything seen here (cells, headers, and footers) are UIViews that are completely customizable (if you want to create your own view).



Different **standard** cell types can display details or subtitles on one side or the other.

Delegate & Datasource

- UITableViewController is both
 - <UITableViewDelegate>
 - Configure rows for display / set row height etc...
 - Manage selection of rows
 - <UITableViewDatasource>
 - How many sections/rows to display
 - What to display in a row
 - Insert/Delete/Reorder rows

UITableViewDataSource

- Required Methods
 - (UITableViewCell *) tableView: (UITableView *) tableView
cellForRowAtIndexPath: (NSIndexPath *) indexPath
 - (NSInteger) tableView: (UITableView *) tableView
numberOfRowsInSection: (NSInteger) section
 - (NSInteger) numberOfSectionsInTableView:(UITableView *) tV
 - *(actually this last one is NOT required, and defaults to 1 if not implemented)*
- Lots of Other useful methods
 - For a full list, check out Xcode's Organizer Documentation

Displaying a cell's content

```
(UITableViewCell *) tableView: (UITableView *) sender  
    cellForRowAtIndexPath: (NSIndexPath *) indexPath  
{  
    //get a cell  
    UITableViewCell *cell =  
        [self.tableView dequeueReusableCellWithIdentifier:@"My Cell"];  
  
    //configure the cell  
    cell.textLabel.text = [[NSString alloc] initWithFormat:@"Row %d ",  
        indexPath.row];  
  
    return cell;  
}
```

Demo Time!

- Again a Record Collection :o)
- Check out the completed source code at:
 - <https://www.cs76.net/Sections>