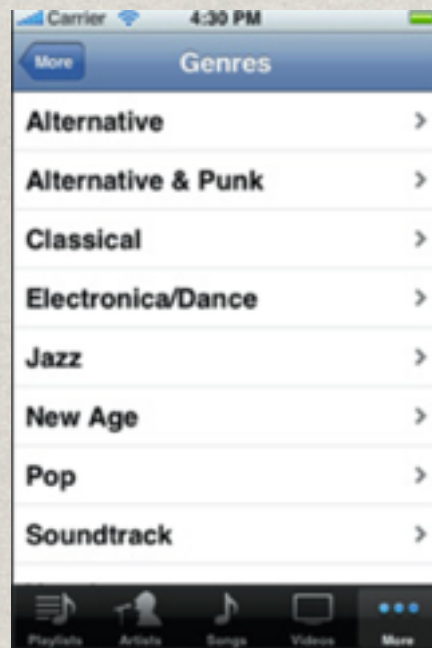


CUSTOM TABLE VIEWS

SALLY RANSOM
sally.ransom@chaione.com

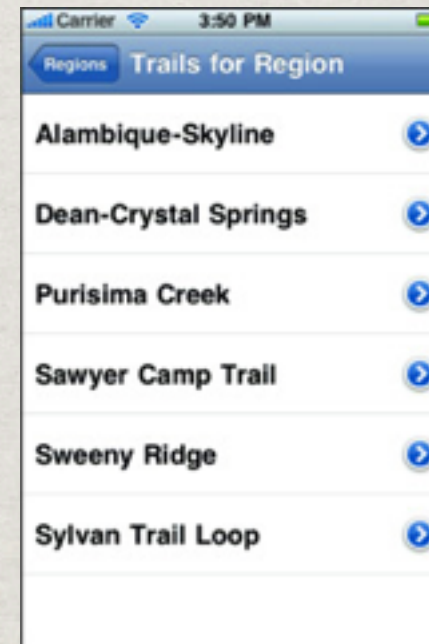
USES FOR TABLE VIEWS



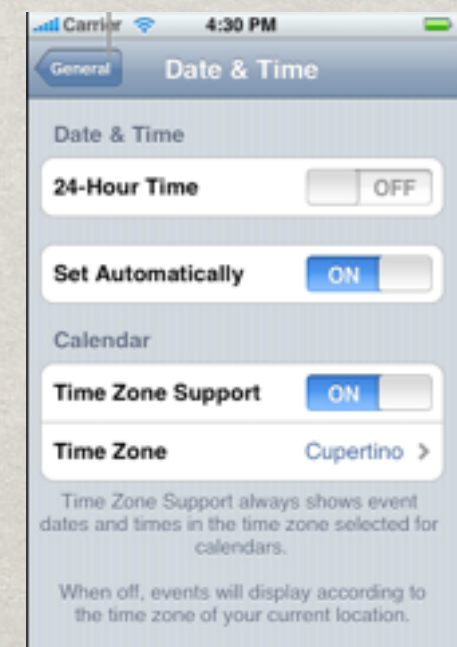
Lists



Groups of Items



Navigation
or
Data
Hierarchy



Information

WHAT IS A TABLE VIEW?

- ✱ Inherits from UIScrollView : UIView :
UIResponder : NSObject
- ✱ UITableViewDataSource &
UITableViewDelegate Protocols
- ✱ Contains UITableViewCells
 - ✱.textLabel
 - ✱.detailTextLabel
 - ✱.imageView
 - ✱.contentView

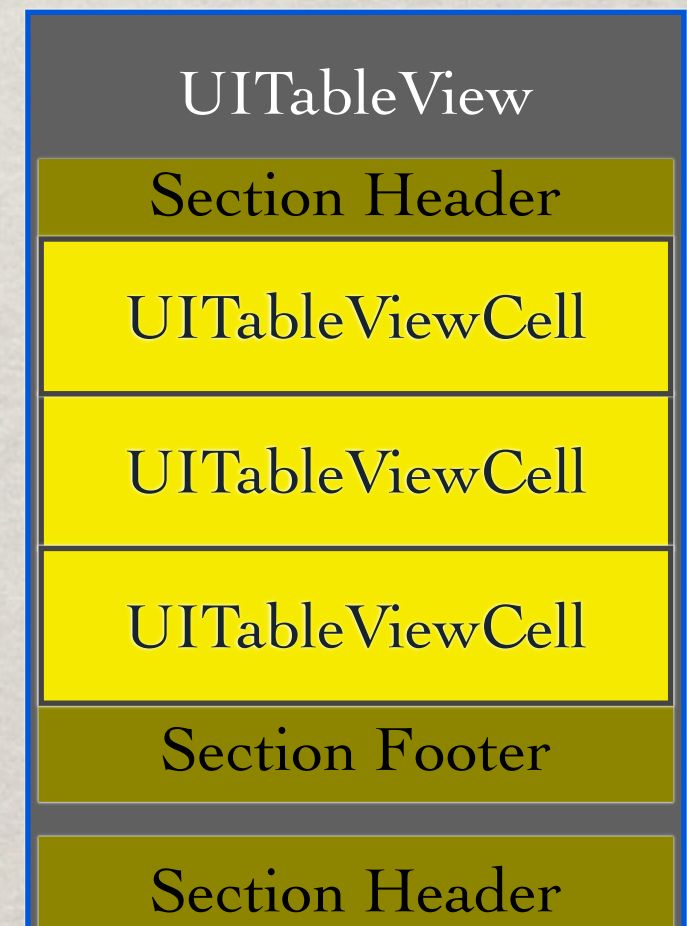


TABLE VIEW OPTIONS

✿ Style (Plain/Grouped)

✿ Separator Line

✿ Background Color

✿ Row Height

✿ Text Colors

✿ Cell Styles

The screenshot shows a settings panel for 'Table View' and 'Scroll View'. The 'Table View' section includes options for Style (Grouped), Separator (Single Line Etched), Selection (Single Selection), Editing (No Selection During Editing), and a checked 'Show Selection on Touch' option. The 'Index Row Limit' is set to 0. The 'Scroll View' section includes options for Style (Default), Scrollers (all checked), Bounce (all checked), Zoom (Min and Max both set to 1), Touch (all checked), and View (Mode: Scale To Fill, Tag: 0, Interaction: User Interaction Enabled).

Table View	
Style	Grouped
Separator	Single Line Etched
	Default
Selection	Single Selection
Editing	No Selection During Editing
	<input checked="" type="checkbox"/> Show Selection on Touch
Index Row Limit	0

Scroll View	
Style	Default
Scrollers	<input checked="" type="checkbox"/> Shows Horizontal Scrollers <input checked="" type="checkbox"/> Shows Vertical Scrollers <input checked="" type="checkbox"/> Scrolling Enabled <input type="checkbox"/> Paging Enabled <input type="checkbox"/> Direction Lock Enabled
Bounce	<input checked="" type="checkbox"/> Bounces <input type="checkbox"/> Bounce Horizontally <input checked="" type="checkbox"/> Bounce Vertically
Zoom	Min: 1 Max: 1
Touch	<input checked="" type="checkbox"/> Bounces Zoom <input checked="" type="checkbox"/> Delays Content Touches <input checked="" type="checkbox"/> Cancellable Content Touches

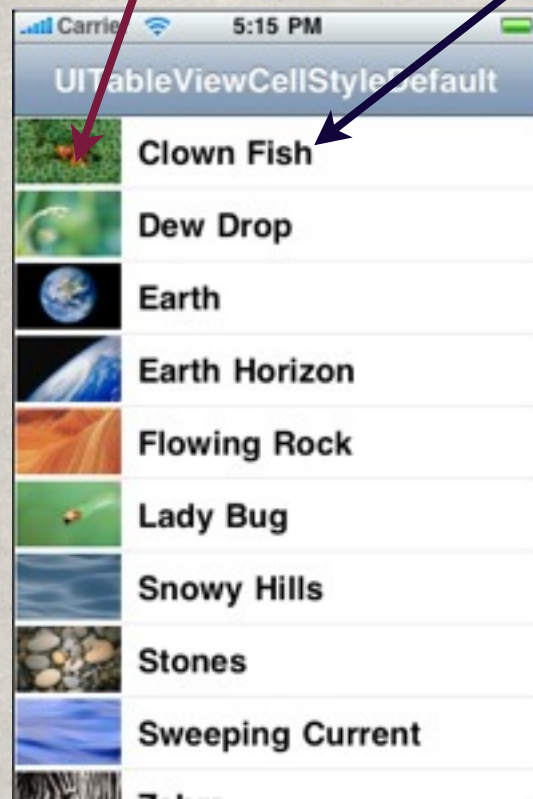
View	
Mode	Scale To Fill
Tag	0
Interaction	<input checked="" type="checkbox"/> User Interaction Enabled <input type="checkbox"/> Multiple Touch

CELL STYLES

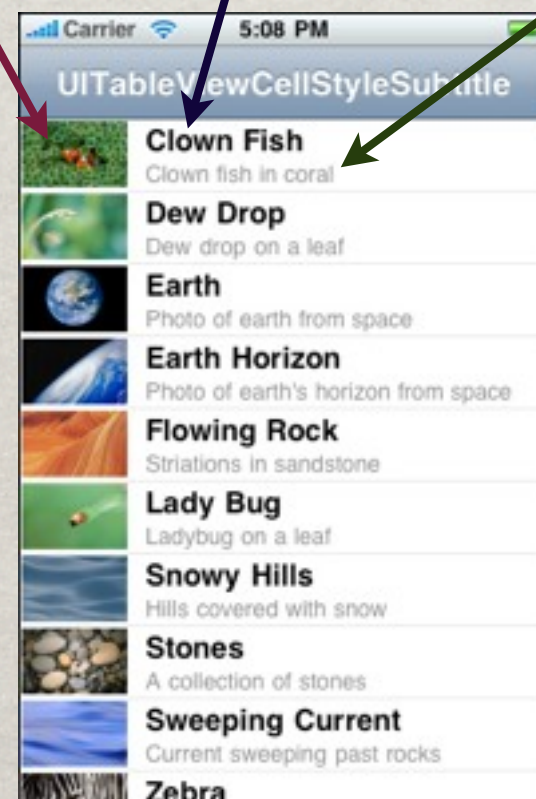
cell.imageView

cell.detailTextLabel

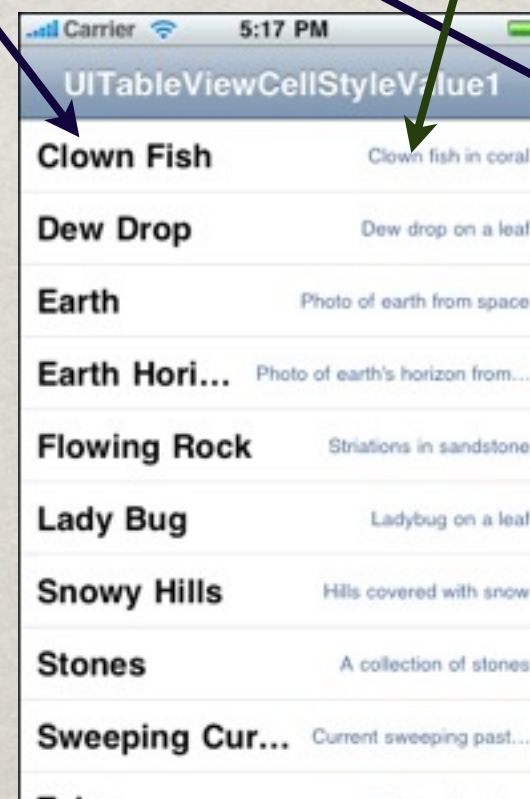
cell.textLabel



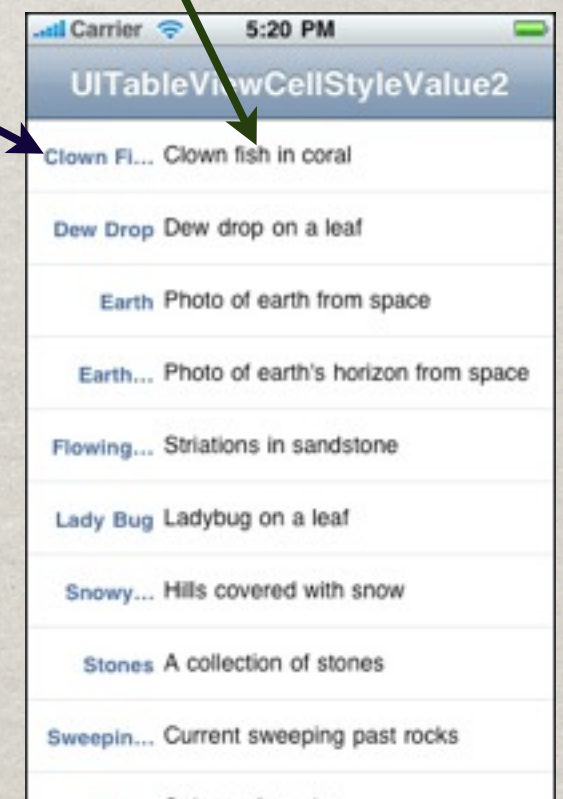
UITableViewCellStyleDefault



UITableViewCellStyleSubtitle



UITableViewCellStyleValue1



UITableViewCellStyleValue2

THE H.I.G.

(HUMAN INTERFACE GUIDELINES)

<http://developer.apple.com/library/ios/#DOCUMENTATION/UserExperience/Conceptual/MobileHIG/Introduction/Introduction.html>

- ☼ App Considerations

- ☼ Principles

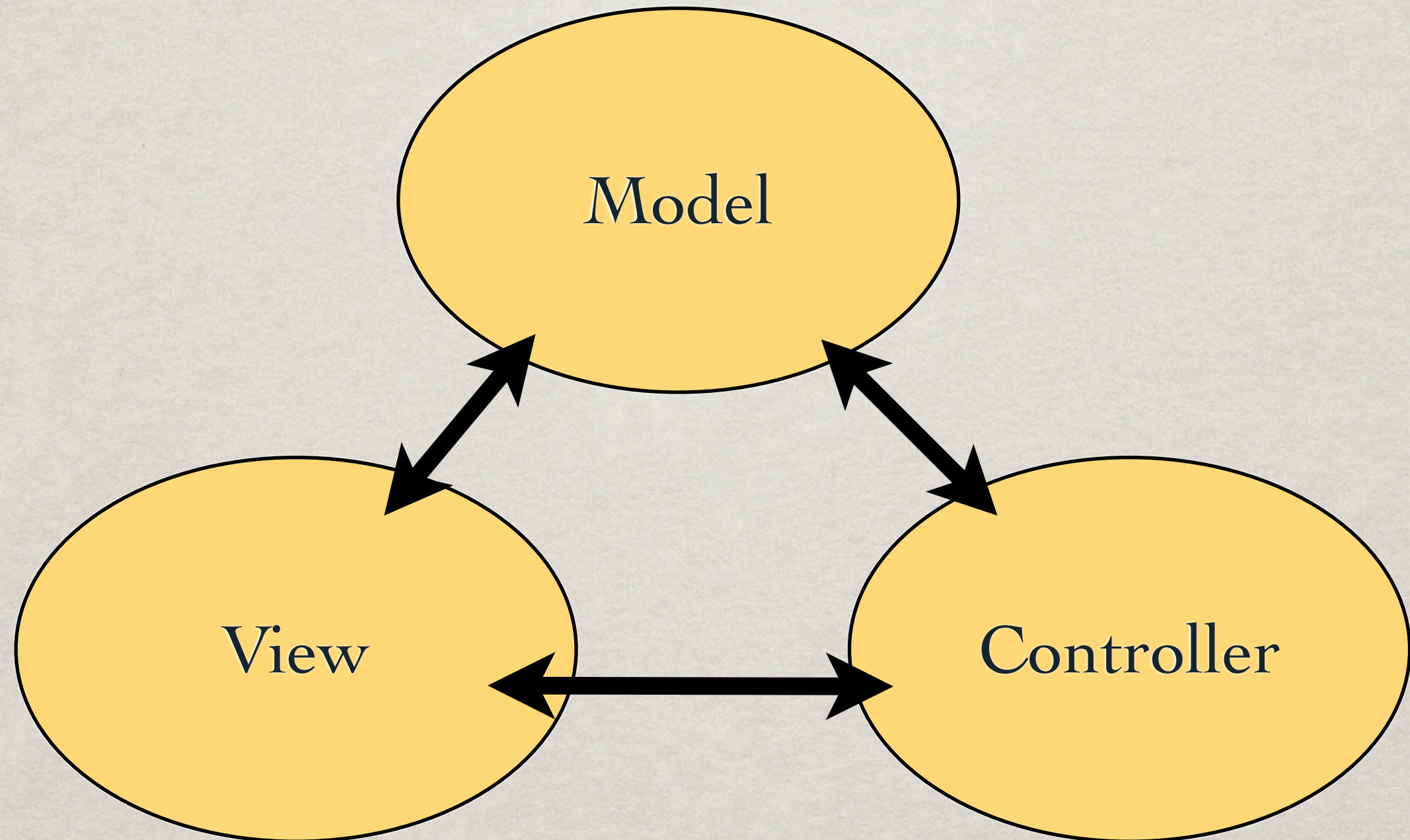
- ☼ Strategies

- ☼ Case Studies

- ☼ Guidelines

YOUR APP SHOULD BE *BEAUTIFUL*

MODEL VIEW CONTROLLER



CONFIGURING A TABLE

#pragma mark – Table View Data Source Methods

```
- (NSInteger)numberOfSectionsInTableView:(UITableView *)tableView {  
    return 3;  
}  
  
- (NSInteger)tableView:(UITableView *)tableView numberOfRowsInSectionSection:(NSInteger)section {  
    return 5;  
}  
  
- (NSString *)tableView:(UITableView *)tableView titleForHeaderInSection:(NSInteger)section {  
    return @"Title";  
}  
  
- (UITableViewCell *)tableView:(UITableView *)tableView cellForRowAtIndexPath:(NSIndexPath *)indexPath {  
    return // configured cell;  
}
```

#pragma mark – Table View Delegate Methods

```
- (CGFloat)tableView:(UITableView *)tableView heightForRowAtIndexPath:(NSIndexPath *)indexPath {  
    return 44.0;  
}  
  
- (UIView *)tableView:(UITableView *)tableView viewForFooterInSection:(NSInteger)section {  
    return [[MyView alloc] init];  
}  
  
- (CGFloat)tableView:(UITableView *)tableView heightForFooterInSection:(NSInteger)section {  
    return 50.0;  
}  
  
- (void)tableView:(UITableView *)tableView didSelectRowAtIndexPath:(NSIndexPath *)indexPath {  
    // do something  
}
```


CONFIGURING A CELL

WITHOUT MVC

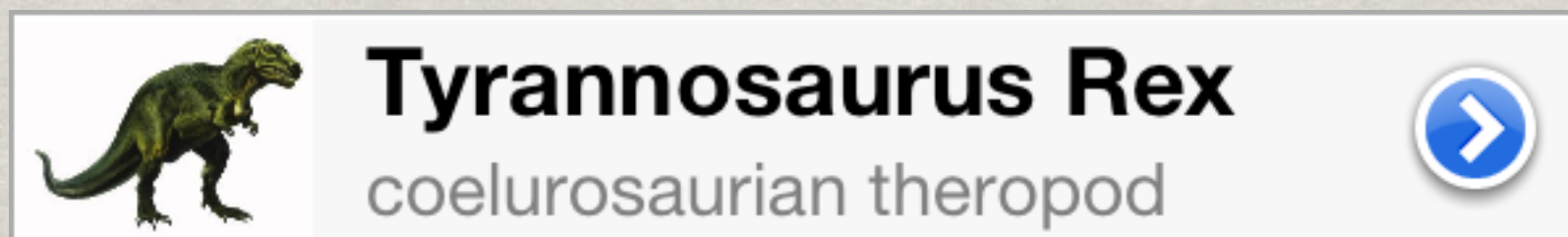
```
- (UITableViewCell *)tableView:(UITableView *)tableView cellForRowAtIndexPath:(NSIndexPath *)indexPath {
    static NSString *CellIdentifier = @"CellIdentifier";
    Dinosaur *dinosaur = [self dinosaurForIndexPath:indexPath];

    UITableViewCell *cell = [tableView dequeueReusableCellWithIdentifier:CellIdentifier];

    if (!cell) {
        cell = [[UITableViewCell alloc] initWithStyle:UITableViewCellStyleSubtitle reuseIdentifier:CellIdentifier];
    }

    cell.textLabel.text = dinosaur.name;
    cell.detailTextLabel.text = dinosaur.group;
    cell.imageView.image = dinosaur.thumbnail;
    cell.accessoryType = UITableViewCellAccessoryDetailDisclosureButton;
    cell.selectionStyle = UITableViewCellSelectionStyleNone;

    return cell;
}
```



CONFIGURING A CELL

WITH MVC

```
- (UITableViewCell *)tableView:(UITableView *)tableView cellForRowAtIndexPath:(NSIndexPath *)indexPath {
    static NSString *CellIdentifier = @"CellIdentifier";
    Dinosaur *dinosaur = [self dinosaurForIndexPath:indexPath];

    UITableViewCell *cell = [tableView dequeueReusableCellWithIdentifier:CellIdentifier];
    cell = [[DinosaurCell alloc] initWithDinosaur:dinosaur reuseIdentifier:CellIdentifier];

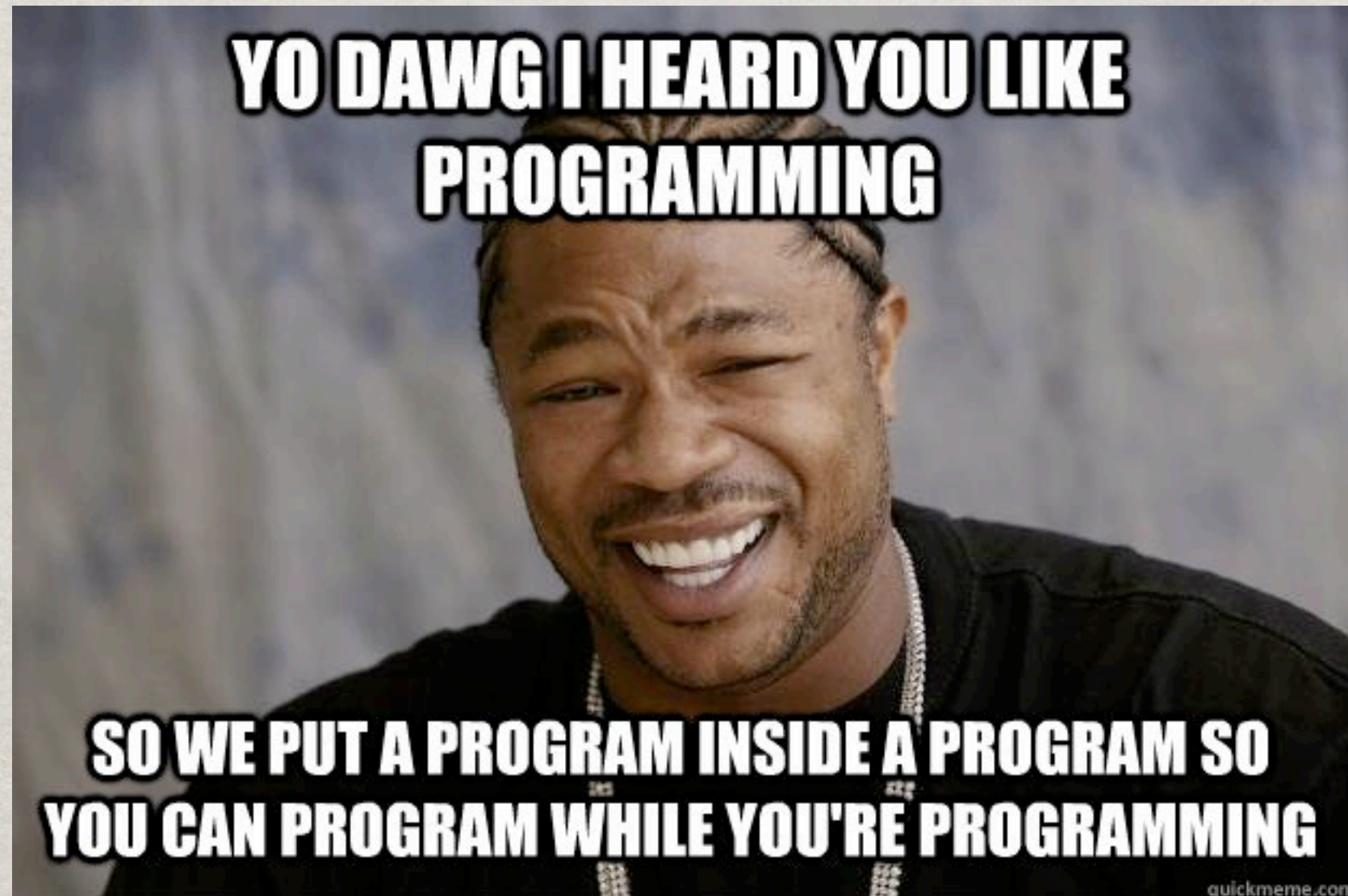
    return cell;
}
```



Tyrannosaurus Rex
coelurosaurian theropod



LET'S PROGRAM IT!



DESIGN A LAYOUT



CHECK IT OUT & PRACTICE

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☼ email: sally.ransom@chaione.com