Custom Table Views
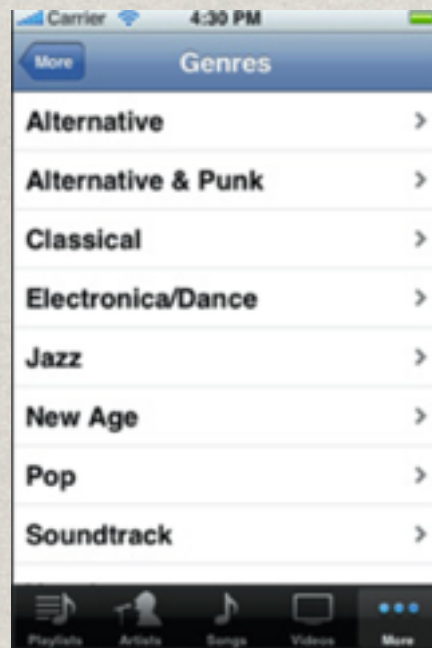
Sally Ransom
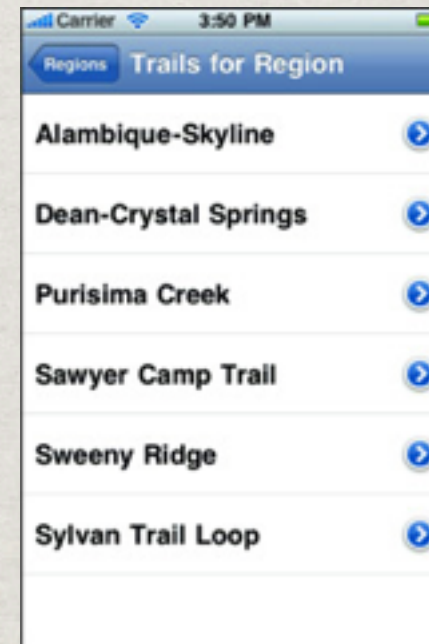sally.ransom@chaione.com
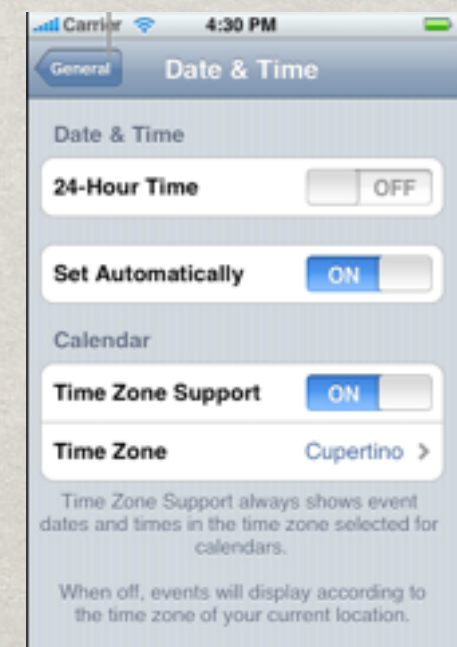
Uses For Table views

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
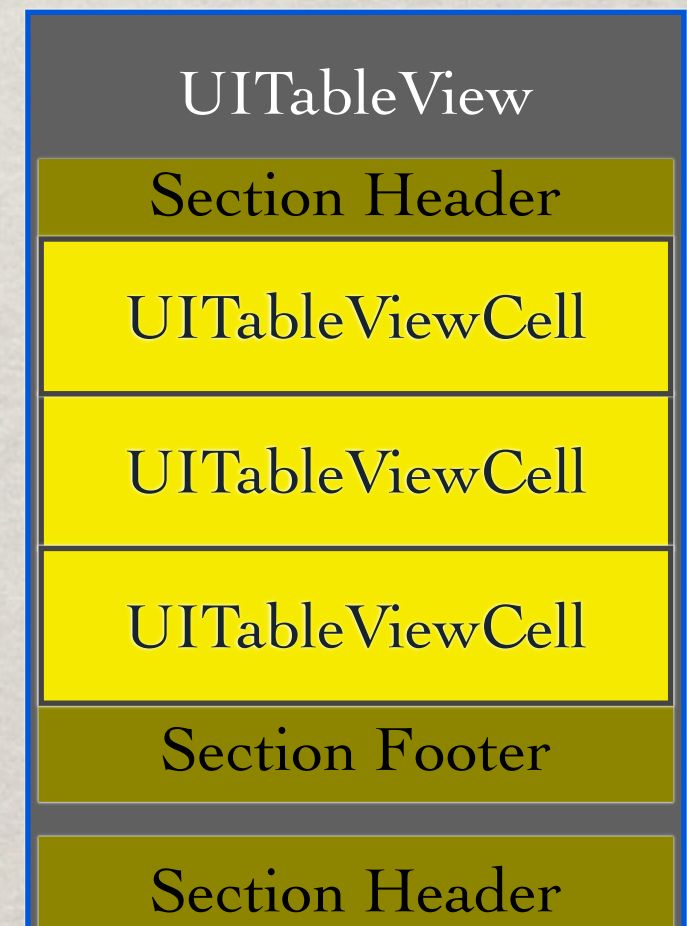 * textLabel
  * detailTextLabel
  * imageView
  * contentView

UITableView
Section Header
UITableViewCell
UITableViewCell
UITableViewCell
Section Footer
Section Header

Table View Options

- Style (Plain/Grouped)

- Separator Line

- Background Color

- Row Height

- Text Colors

- Cell Styles

Cell Styles

cell.imageView

cell.textLabel

cell.detailTextLabel
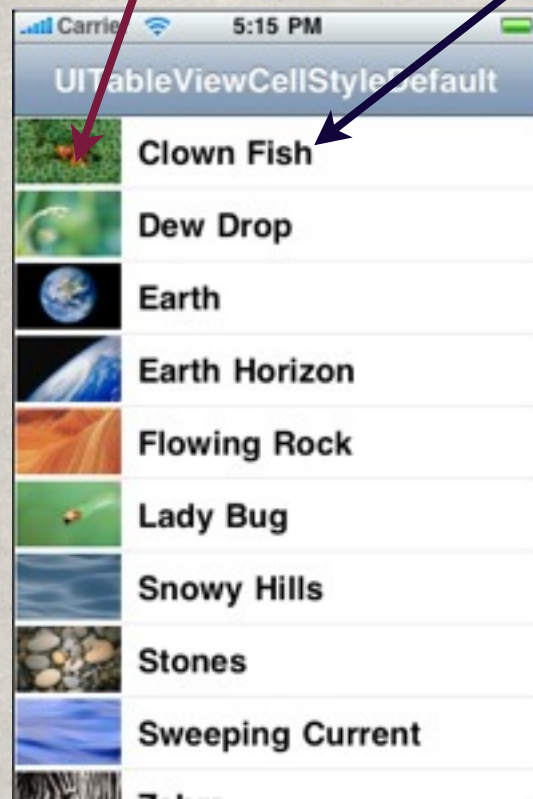
UITableViewCellStyleDefault   UITableViewCellStyleSubtitle   UITableViewCellStyleValue1   UITableViewCellStyleValue2
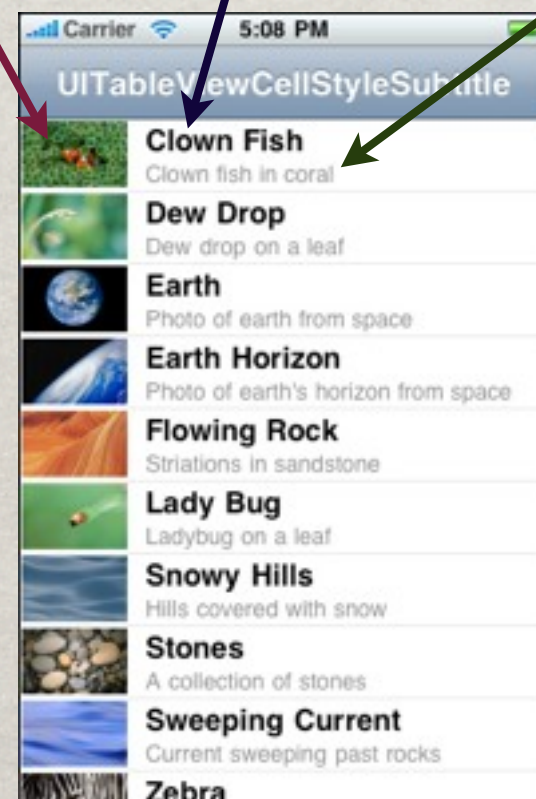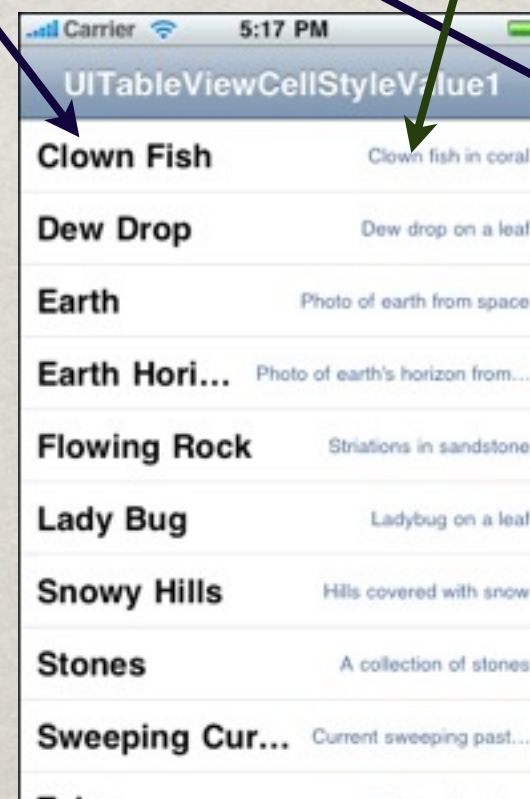
The H.I.G.

(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

```objc
#pragma mark — Table View Data Source Methods

- (NSInteger)numberOfSectionsInTableView:(UITableView *)tableView {
    return 3;
}

- (NSInteger)tableView:(UITableView *)tableView numberOfRowsInSection:(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
}
```
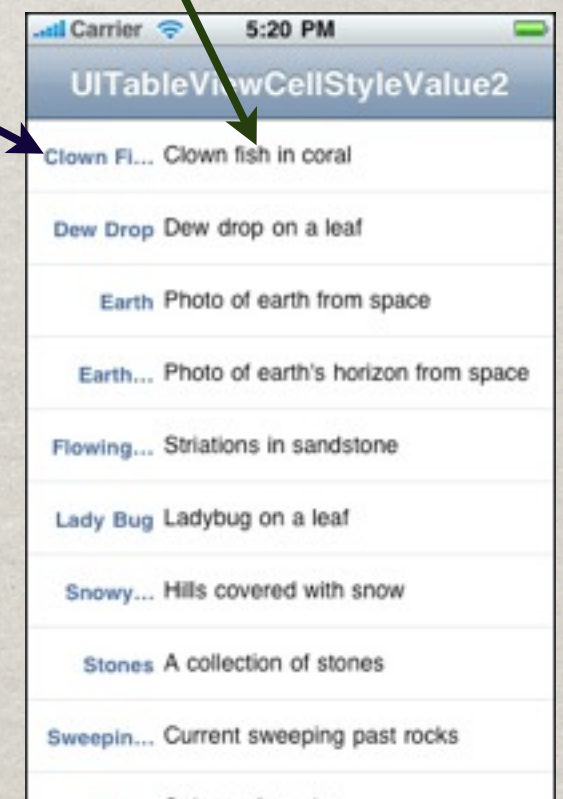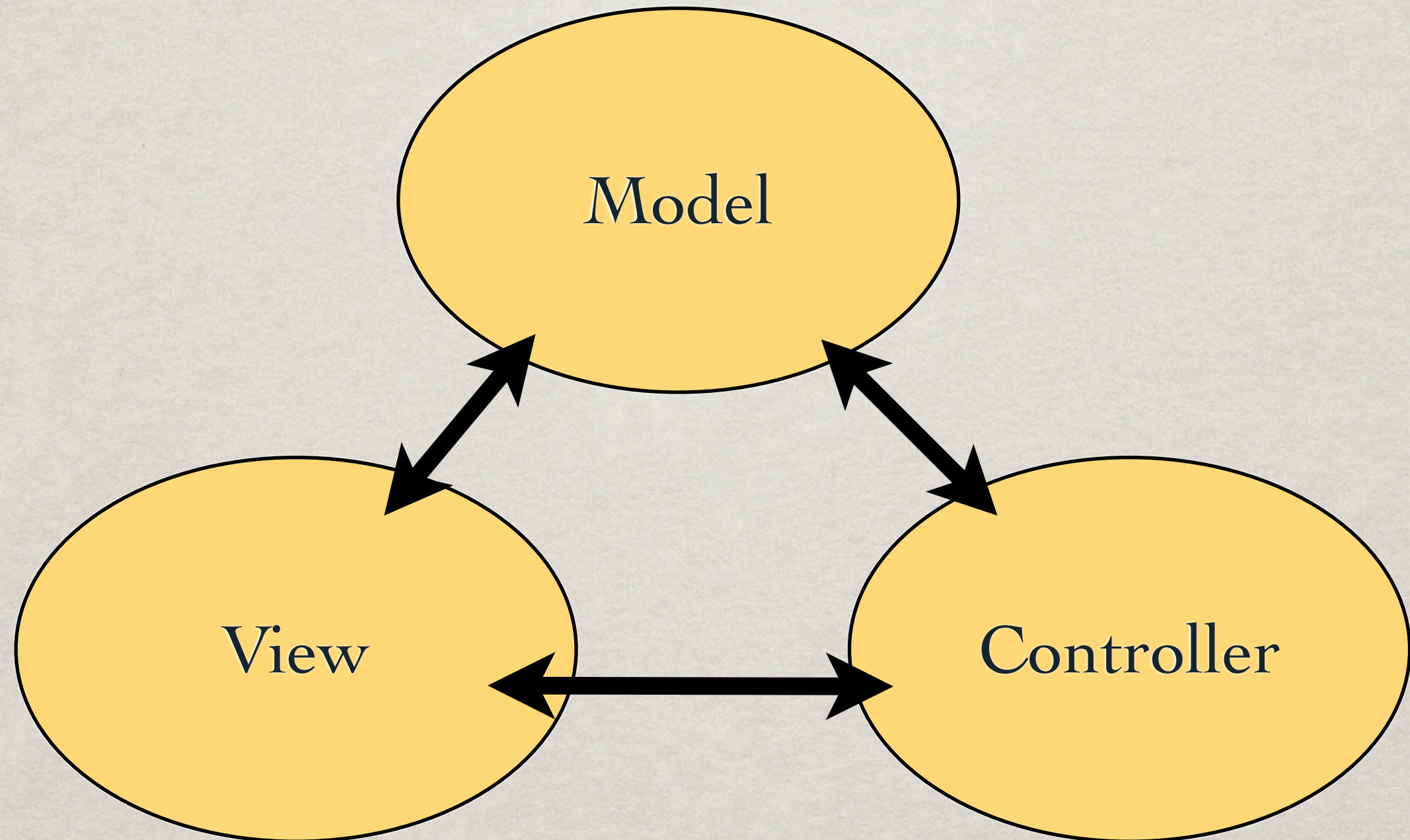
Configuring a Cell

without MVC

```objc
- (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;
}
```


Tyrannosaurus Rex
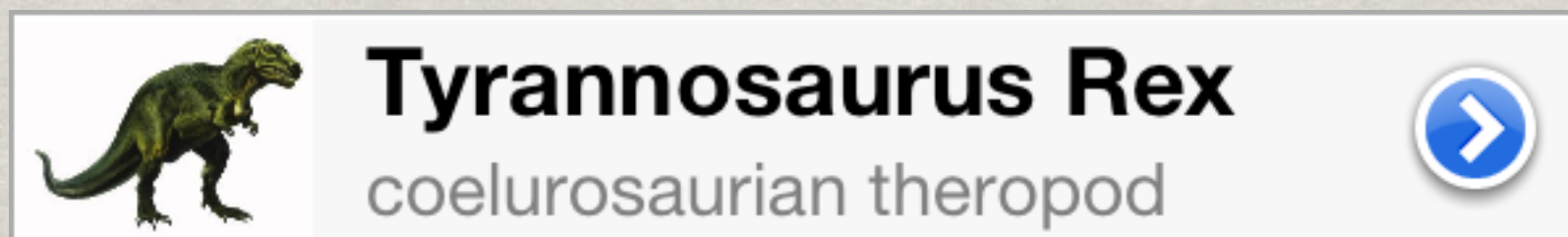coelurosaurian theropod

Configuring a Cell
with MVC

```objc
- (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;
}
```
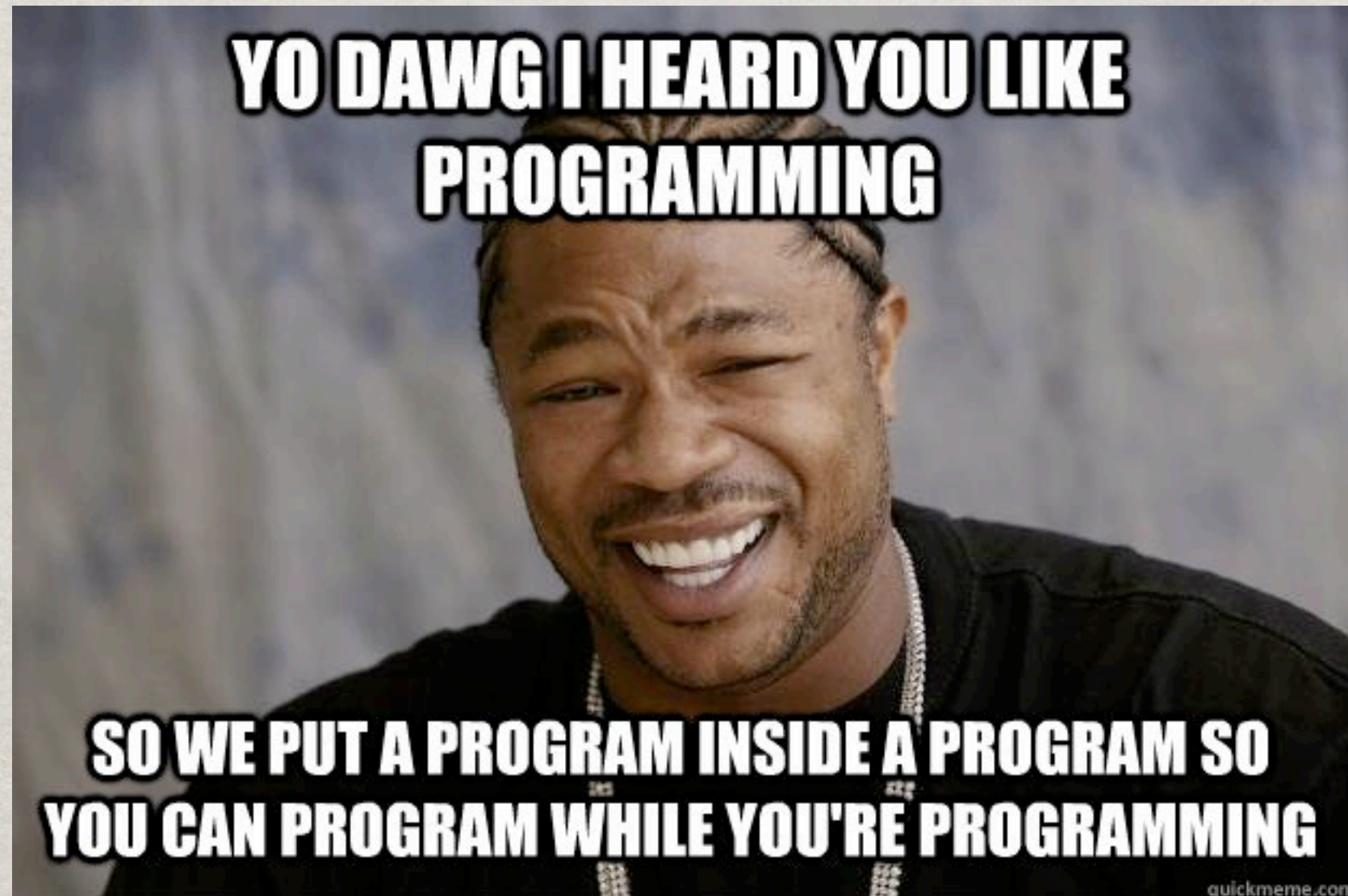

Tyrannosaurus Rex
coelurosaurian theropod

Let's Program It!

DESIGN A LAYOUT

Check it Out & practice

Github: sallyransom

email: sally.ransom@chaione.com