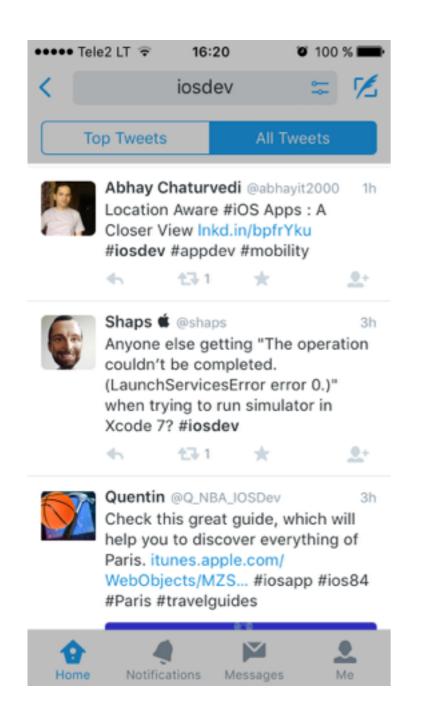
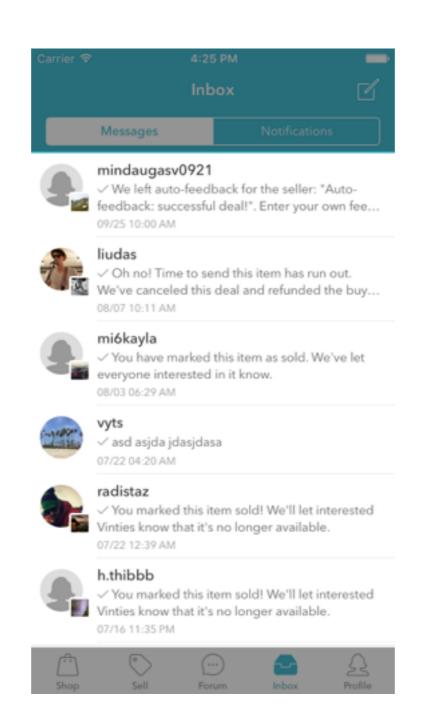
- Navigate through hierarchically structured data
- View an indexed list of items
- See detail information and controls in visually distinct groupings
- Interact with a selectable list of options



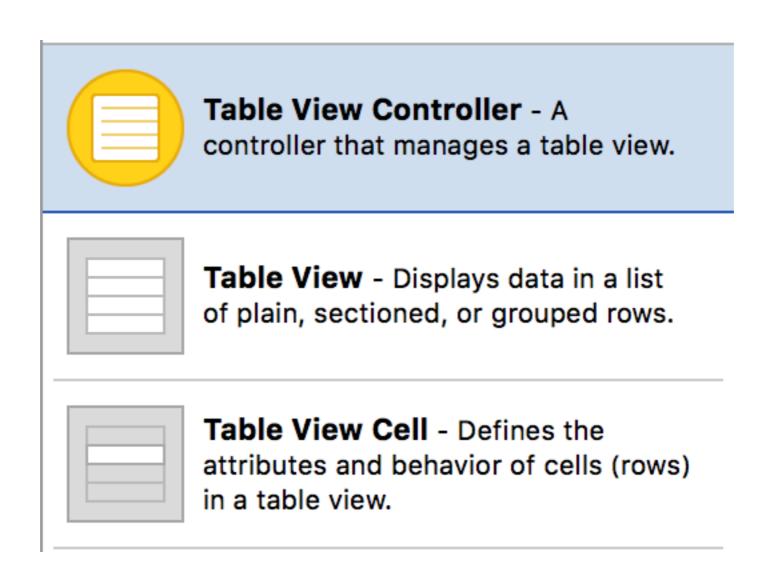




In Code

```
let tableView = UITableView(frame: view.bounds);
view.addSubview(tableView);
```

#### In Storyboard



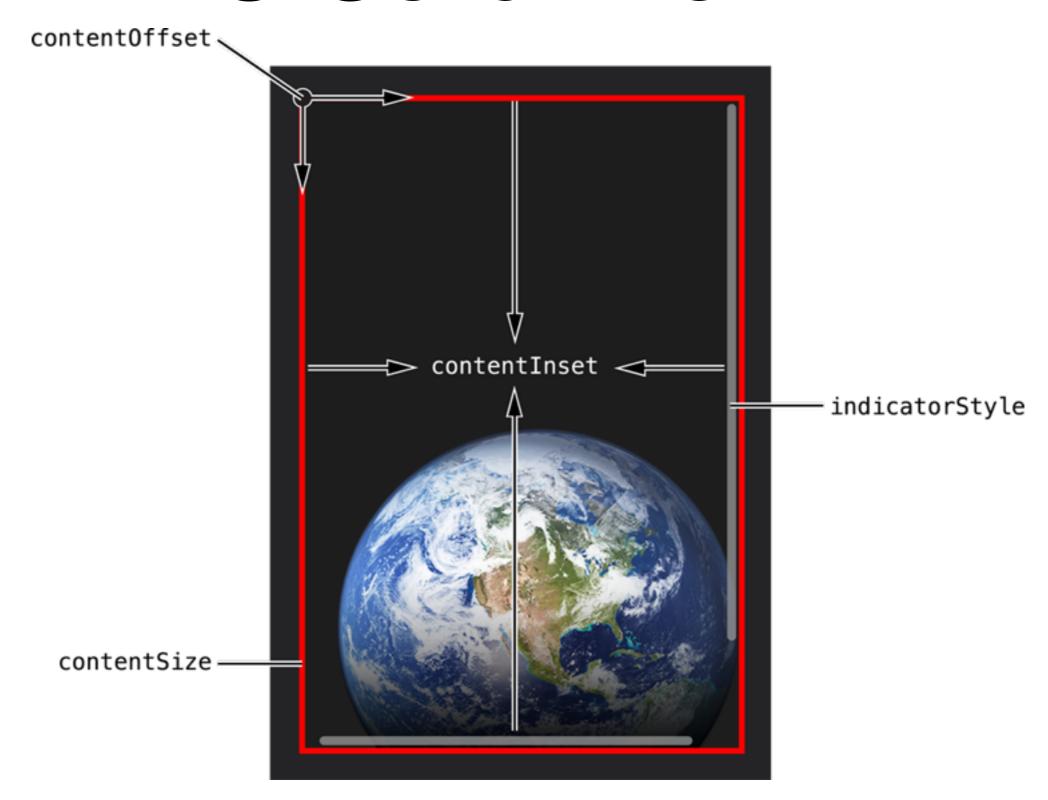
In Storyboard

@IBOutlet weak var tableView: UITableView!

# UIScrollView

- Used to represent more content than fits to the screen.
- Table View content can be bigger than screen size.

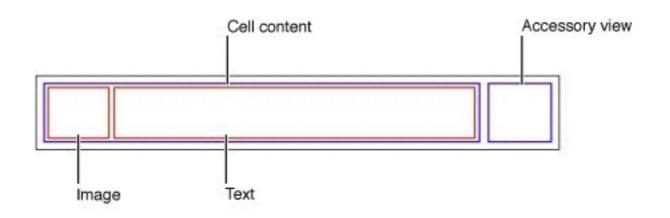
# UIScrollView



### ContentView in UITableView

- You provide all the info needed to calculate the contents of *UITableView*
- UITableViewCell, UITableViewHeaderFooterView are the main contents of UITableView
- UITableView also has headerView and footerView properties

# UITableViewCell

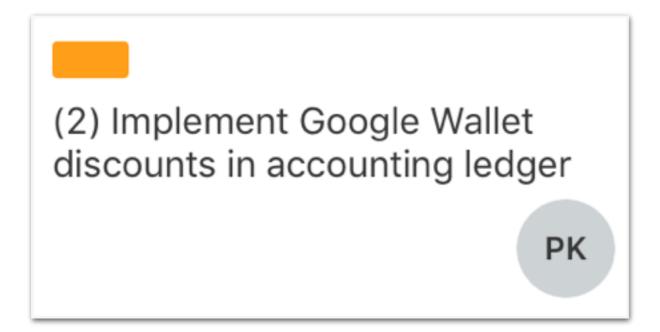


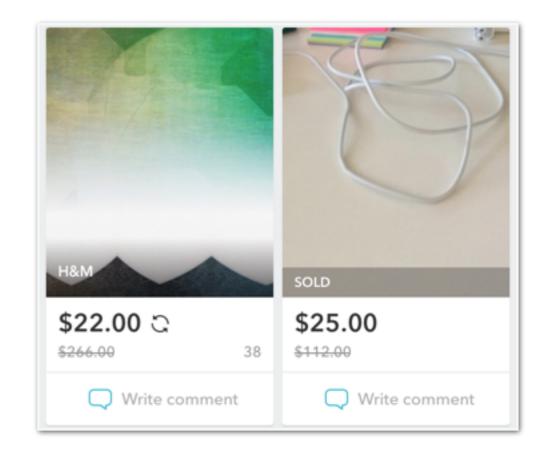
## Default UITableViewCells

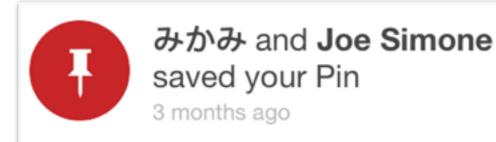
public enum UITableViewCellStyle : Int {

```
case Default // Simple cell with text label and optional
image view (behavior of UITableViewCell in iPhoneOS 2.x)
   case Value1 // Left aligned label on left and right
aligned label on right with blue text (Used in Settings)
   case Value2 // Right aligned label on left with blue
text and left aligned label on right (Used in Phone/
Contacts)
   case Subtitle // Left aligned label on top and left
aligned label on bottom with gray text (Used in iPod).
```

# Custom TableViewCells









# Filling UITableView with data

- You have to set UITableView instance dataSource property with object implement UITableViewDataSource protocol
- That object provides all the needed data for table view

# UITableViewDataSource

```
public protocol UITableViewDataSource : NSObjectProtocol {
    public func tableView(tableView: UITableView,
numberOfRowsInSection section: Int) -> Int
    public func tableView(tableView: UITableView,
cellForRowAtIndexPath indexPath: NSIndexPath) -> UITableViewCell
    optional public func numberOfSectionsInTableView(tableView:
UITableView) -> Int
```

# Sections

#### numberOfSectionsInTableView(\_:)

```
func numberOfSectionsInTableView(tableView: UITableView) -> Int {
  return 2;
}
```

#### tableView(\_:numberOfRowsInSection:)

#### tableView(\_:cellForRowAtIndexPath:)

```
func tableView(tableView: UITableView, cellForRowAtIndexPath
indexPath: NSIndexPath) -> UITableViewCell {
        let cell =
tableView.dequeueReusableCellWithIdentifier("NamesCellIdentifier",
forIndexPath: indexPath)
        switch indexPath.section {
        case 0:
            let name = allTitles[indexPath.row]
            cell.textLabel?.text = name as? String
        case 1:
            let name = allNames[indexPath.row]
            cell.textLabel?.text = name as? String
        default:
            break
        return cell
```

# Dequeuing

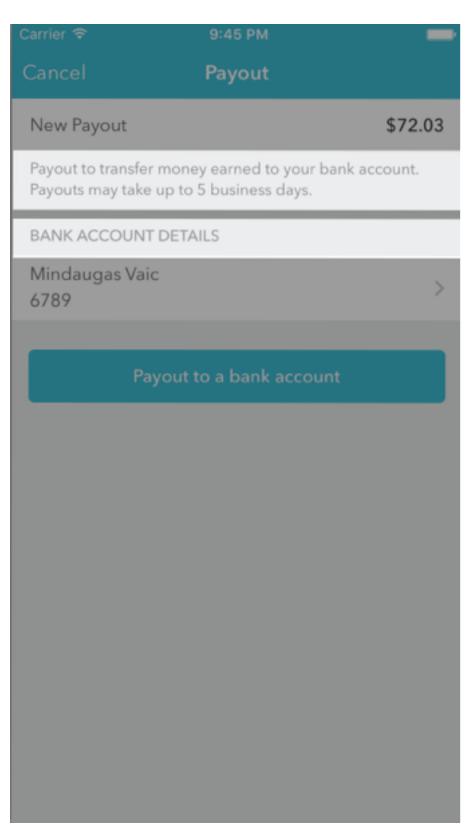
- UITableView tries to not create more cells than it is needed
- Each created cell can be reused for another data to represent
- prapareForReuse() is called when cell will be reused
- reuseldentifier is used to identify cells for reuse

# Register Cells

```
public func registerNib(nib: UINib?, forCellReuseIdentifier
identifier: String)
```

```
public func registerClass(cellClass: AnyClass?,
forCellReuseIdentifier identifier: String)
```

# Section Footer and Header



#### VIEWS

- Same as UlTableViewCell
- Dequeued with reuse identifiers
- Can be created custom or just passed titles for them
- Each section can have different one or none

# Register Section Footer and Header Views

```
public func registerNib(nib: UINib?,
forHeaderFooterViewReuseIdentifier identifier: String)

public func registerClass(aClass: AnyClass?,
forHeaderFooterViewReuseIdentifier identifier: String)
```

# Table Footer and Header views

- UITableView's can have footer and header views
- They are shown above or below table content
- Any UIView can be assigned to tableHeaderView and tableFooterView

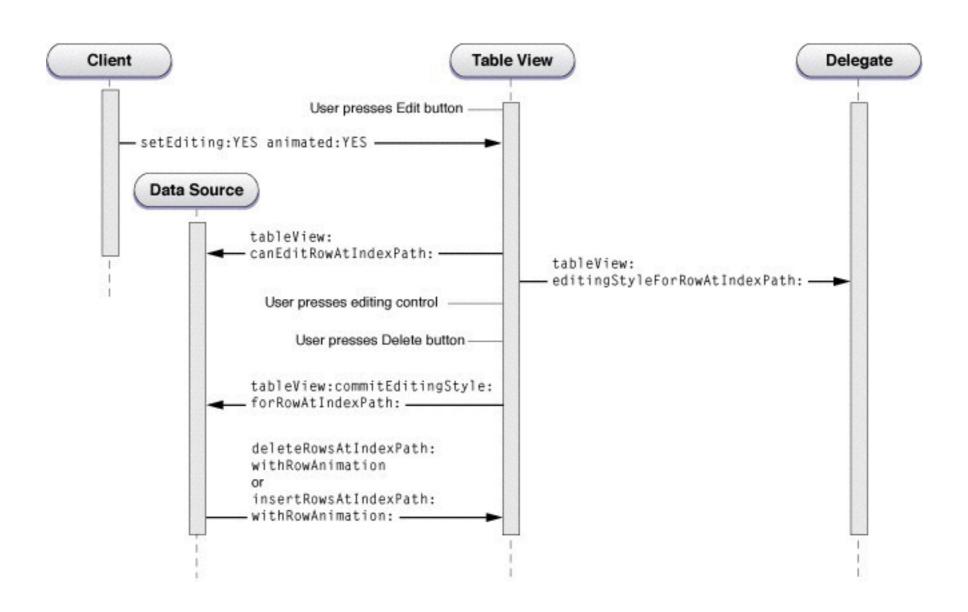
# Static table view content

- Everything is configured in Interface builder
- You can link outlets directly from cells

# Reacting to events in UITabelView

- All actions to which we can respond are sent to *UITableViewDelegate*
- Mainly we handle didSelect action

# Edit mode



# UITableViewController

- UITableView can be created in UIViewController or in UITableViewController.
- In UITableViewController view is UITableView.
- UITableViewController allows more possibilities in Interface builder and gives less setup out of the box.