

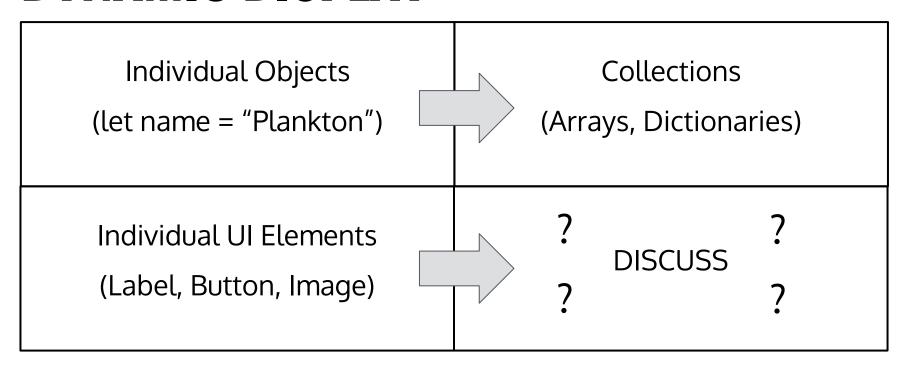
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# **LEARNING OBJECTIVES**

- + Override table view methods
- + Deploy prototype cells to show data dynamically
- + Connect table views to view controllers via the delegate pattern

# **DYNAMIC DISPLAY**



# **TABLE VIEW CONTROLLER**

Like view controllers and UIViewController, unique table view controllers are made by subclassing UITableViewController.

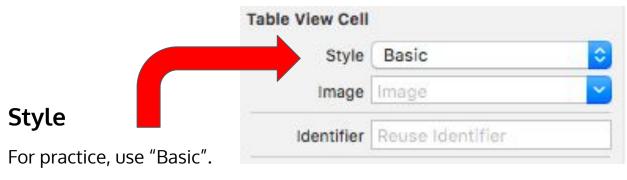
```
class TableViewController: UITableViewController { }
```

To define the behavior of your table view controller's table view, you will override table view methods.

In real apps, you'll almost

always use "Custom".

# **TABLE VIEW CELL**



#### **Reuse Identifier**

This string identifies the cell prototype. It can be anything.



# **TABLE VIEW CONTROLLER**

#### Practice:

- Create a new table view controller.
- 2) Make it display 4 cells that each show the word "Prototype".
- 3) Make it display 2 sections: the first with 3 cells that show the word "Prototype", the second with 2 cells that show the word "Other".

# **TABLE VIEWS**

#### Exercise:

- 1) Create a new view controller.
- 2) Add a table view to that view controller.
- 3) Connect the table view to code with an outlet.

# **TABLE VIEWS**

#### Exercise:

- Create a new view controller.
- Add a table view to that view controller.
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#### Question:

How will you make the table view display what you want it to?

# **TABLE VIEWS**

To let a view controller handle logic for a table view, you must make that view controller conform to the UITableViewDelegate and UITableViewDataSource **protocols**.

You also have to set the table view's **delegate** and data source to be the view controller.

#### Vocab

Protocol - a set of specifications that describe what a class can do

Delegate - an object that's been designated to handle some part of another object's functionality

# **TABLE VIEWS**

The viewDidLoad method is a typical place to set delegates and data sources. This is because viewDidLoad gets called at the beginning of a view controller's life cycle.

```
class ViewController: UIViewController, UITableViewDelegate, UITableViewDataSource {
    @IBOutlet weak var tableView: UITableView!
    Override func viewDidLoad() {
        super.viewDidLoad()
        tableView.delegate = self
        tableView.dataSource = self
    }
}
```

# **TABLE VIEWS**

#### Practice:

- Create a new view controller.
- 2) Add a table view to it.
- Make your view controller the delegate and data source for its table view.
- 4) Make the table view display 3 cells that show the word "Orange".