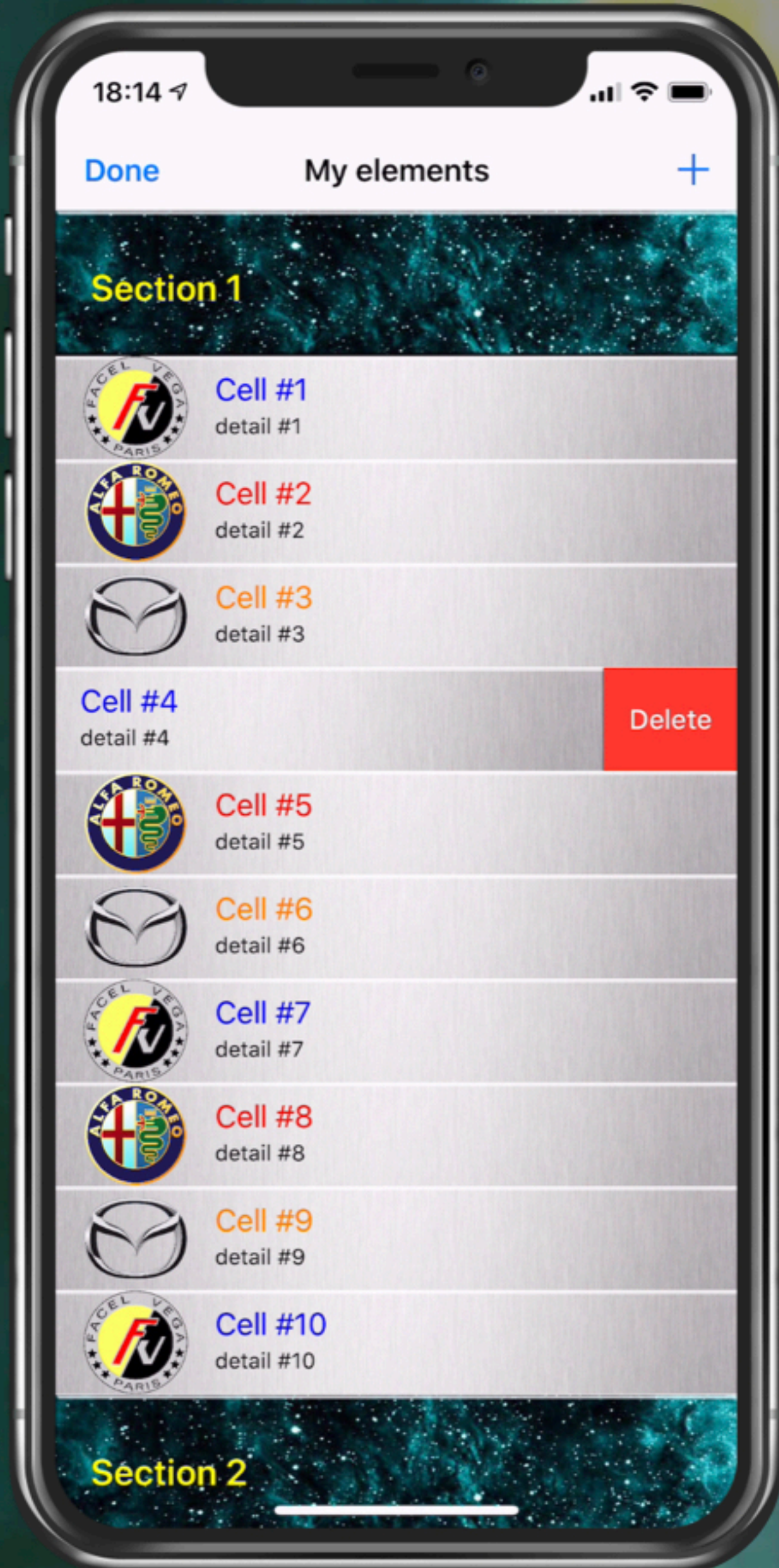


Modifying a UITableView

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As an introduction...



UITableViewController?

- All is included

Handled by delegation

- comes with UITableView
- Deletion of cell
 - ▶ Edit mode
 - ▶ Swipe to left
- Reordering of cells
- Adding cells

Condition

- editing property set to true
 - ▶ Programatically or via the edit button

As an introduction...



UITableViewController?

- All is included

Handled by delegation

Mostly in one protocol

UITableViewDataSource

- Reordering of cells
- Adding cells

Condition

- editing property set to true
 - ▶ Programatically or via the edit button

Suppressing cells

Almost for free

- 👤 Use the `editButtonItem` property
 - ▶ Comes from `UIViewController`
 - ▶ Activate dedicated services in a `UITableViewController`
- 👤 You must deal with some delegation methods

```
func tableView(_ tableView: UITableView,
               canEditRowAt indexPath: IndexPath) -> Bool
```

```
func tableView(_ tableView: UITableView,
               commit editingStyle: UITableViewCell.EditingStyle,
               forRowAt indexPath: IndexPath)
```

- ▶ Edition styles : `none`, **delete**, `insert`

What to be done?

- 👤 Suppress the element in your data structure
 - ▶ Possibly invoke `reloadData()`
- 👤 You may delete cells programmatically too

```
func deleteRows(at indexPaths: [IndexPath],
               with animation: UITableView.RowAnimation)
```

Reordering cells

Even simpler

- The table view must be in editing mode

- ▶ To get the handles

- Methods to catch

```
func tableView(_ tableView: UITableView,  
               canMoveRowAt indexPath: IndexPath) -> Bool
```

```
func tableView(_ tableView: UITableView,  
               moveRowAt sourceIndexPath: IndexPath,  
               to destinationIndexPath: IndexPath)
```

What to do?



- Update your data structures
 - ▶ Move from the source position to the target one
- Let the UITableView redisplay it
 - ▶ Possibly invoke reloadData()

As a conclusion...

UITableViewController

-  A way to display and edit structured data
-  Some Apps are resumed to a UITableViewController

All is included...

-  Powerful framework
-  Handled by delegation

You must use it!

As a conclusion...

UITableViewController

- A way to display and edit structured data
- Some Apps are resumed to a UITableViewController



Important

UITableViewController often associated to a UINavigationController

All is included

- Powerful framework
- Handled by a UINavigationController

You must use it!