I'm trying to create a custom table view cell from a nib. I'm referring to this article here. I'm facing two issues.

I created a .xib file with a UITableViewCell object dragged on to it. I created a subclass of UITableViewCell and set it as the cell's class and Cell as the reusable identifier.

```
import UIKit
 class CustomOneCell: UITableViewCell {
    @IBOutlet weak var middleLabel: UILabel!
    @IBOutlet weak var leftLabel: UILabel!
    @IBOutlet weak var rightLabel: UILabel!
    required init(coder aDecoder: NSCoder!) {
         super.init(coder: aDecoder)
    override init(style: UITableViewCellStyle, reuseIdentifier: String!) {
         super.init(style: style, reuseIdentifier: reuseIdentifier)
    override func awakeFromNib() {
         super.awakeFromNib()
         // Initialization code
    override func setSelected(selected: Bool, animated: Bool) {
         super.setSelected(selected, animated: animated)
         // Configure the view for the selected state
}
In the UITableViewController I have this code,
import UIKit
 class ViewController: UITableViewController, UITableViewDataSource,
UITableViewDelegate {
     var items = ["Item 1", "Item2", "Item3", "Item4"]
    override func viewDidLoad() {
         super.viewDidLoad()
     // MARK: - UITableViewDataSource
     override func tableView(tableView: UITableView!, numberOfRowsInSection section:
     -> Int {
         return items.count
    override func tableView(tableView: UITableView!, cellForRowAtIndexPath
 indexPath: NSIndexPath!) -> UITableViewCell! {
         let identifier = "Cell"
        var cell: CustomOneCell! =
 tableView.dequeueReusableCellWithIdentifier(identifier) as? CustomOneCell
        if cell == nil {
             tableView.registerNib(UINib(nibName: "CustomCellOne", bundle: nil),
 forCellReuseIdentifier: identifier)
             cell = tableView.dequeueReusableCellWithIdentifier(identifier) as?
 CustomOneCell
         return cell
}
```

This code complies with no errors but when I run it in the simulator, it looks like this.



In the UITableViewController in the storyboard I haven't done anything to the cell. Blank identifier and no subclass. I tried adding the *Cell* identifier to the prototype cell and ran it again but I get the same result.

Another error I faced is, when I tried to implement the following method in the UITableViewController.

```
override func tableView(tableView: UITableView!, willDisplayCell cell:
CustomOneCell!, forRowAtIndexPath indexPath: NSIndexPath!) {
    cell.middleLabel.text = items[indexPath.row]
    cell.leftLabel.text = items[indexPath.row]
    cell.rightLabel.text = items[indexPath.row]
}
```

As shown in the article I mentioned I changed the cell parameter's type form UITableViewCell to CustomOneCell which is my subclass of UITableViewCell. But I get the following error,

Overriding method with selector 'tableView:willDisplayCell:forRowAtIndexPath:' has incompatible type '(UITableView!, CustomOneCell!, NSIndexPath!) -> ()'

Anyone have any idea how to resolve these errors? These seemed to work fine in Objective-C.

Thank you.

EDIT: I just noticed if I change the simulator's orientation to landscape and turn it back to portrait, the cells appear! I still couldn't figure out what's going on. I uploaded an Xcode project here demonstrating the problem if you have time for a quick look.

```
ios uitableview swift ios8 edited Aug 28 '14 at 11:08
```



4 Answers

You should try the following code for your project (updated for Swift 2):

CustomOneCell.swift

```
import UIKit

class CustomOneCell: UITableViewCell {
    // Link those IBOutlets with the UILabels in your .XIB file
    @IBOutlet weak var middleLabel: UILabel!
    @IBOutlet weak var leftLabel: UILabel!
    @IBOutlet weak var rightLabel: UILabel!
}

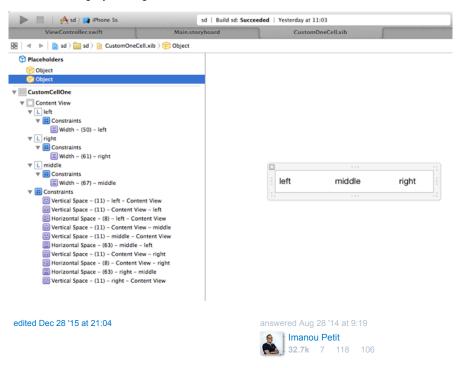
TableViewController.swift

import UIKit

class TableViewController: UITableViewController {
    let items = ["Item 1", "Item2", "Item3", "Item4"]
    override func viewDidLoad() {
```

```
super.viewDidLoad()
tableView.registerNib(UINib(nibName: "CustomOneCell", bundle: nil),
forCellReuseIdentifier: "CustomCellOne")
    // MARK: - UITableViewDataSource
    override func tableView(tableView: UITableView, numberOfRowsInSection section:
Int)
     -> Int {
         return items.count
    \textbf{override func} \ \ \texttt{tableView}(\texttt{tableView}; \ \ \textbf{UITableView}, \ \ \texttt{cellForRowAtIndexPath}
indexPath: NSIndexPath) -> UITableViewCell {
         let cell = tableView.dequeueReusableCellWithIdentifier("CustomCellOne",
forIndexPath: indexPath) as! CustomOneCell
         cell.middleLabel.text = items[indexPath.row]
         cell.leftLabel.text = items[indexPath.row]
         cell.rightLabel.text = items[indexPath.row]
         return cell
}
```

The image below shows a set of constraints that work with the provided code without any constraints ambiguity message from Xcode.



Thanks for the response. But that didn't work either. Do I need to change anything in the table view controller? Because Its still set to prototype cells. – Isuru Aug 28 '14 at 10:23

Keep using prototype cells. But make sure that you have set the good Auto layout constraints (if you use Auto layout). – Imanou Petit Aug 28 '14 at 10:59

I uploaded a test project here demonstrating the issue I'm having. Can you please have a look at it if you have time? — Isuru Aug 28 '14 at 11:09

Your test project confirms it: I was able to make your app work fine after I set some auto layout constraints to your custom cell in your .xib file. Have a look at this video if you need to know more about Auto layout. – Imanou Petit Aug 28 '14 at 12:29

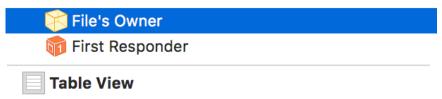
I'm aware of Auto Layout but I just can't figure out what kinda constraints I should use? Can you please tell me what constraints I should add to the custom cell. Or attach the Xcode project you got working? – Isuru Aug 28 '14 at 17:34

Here's my approach using Swift 2 and Xcode 7.3. This example will use a single ViewController to load two .xib files -- one for a UITableView and one for the UITableCellView.



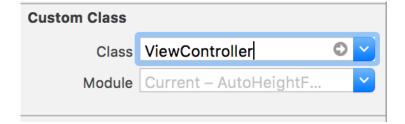
For this example you can drop a UITableView right into an empty **TableNib**.xib file. Inside, set the **file's owner** to your ViewController class and use an outlet to reference the tableView.





and

. . .

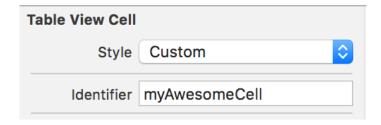


Now, in your view controller, you can delegate the tableView as you normally would, like so

```
class ViewController: UIViewController, UITableViewDelegate, UITableViewDataSource
{
    @IBOutlet weak var tableView: UITableView!
    ...
    override func viewDidLoad() {
        super.viewDidLoad()
        // Do any additional setup after loading the view, typically from a nib.
        // Table view delegate
        self.tableView.delegate = self
        self.tableView.dataSource = self
```

To create your Custom cell, again, drop a Table View Cell object into an empty **TableCellNib**.xib file. This time, in the cell .xib file you don't have to specify an "owner" but you do need to specify a **Custom Class** and an **identifier** like "TableCellId"





Create your subclass with whatever outlets you need like so

```
class TableCell: UITableViewCell {
     @TROutlet weak var namelabel: UTLabel!
}
Finally... back in your View Controller, you can load and display the entire thing like so
 override func viewDidLoad() {
     super.viewDidLoad()
     // Do any additional setup after loading the view, typically from a nib.
     // First load table nib
     let bundle = NSBundle(forClass: self.dynamicType)
     let tableNib = UINib(nibName: "TableNib", bundle: bundle)
     let tableNibView = tableNib.instantiateWithOwner(self, options: nil)[0] as!
UIView
     // Then delegate the TableView
     self.tableView.delegate = self
     self.tableView.dataSource = self
     // Set resizable table bounds
     self.tableView.frame = self.view.bounds
     self.tableView.autoresizingMask = [.FlexibleWidth, .FlexibleHeight]
    // Register table cell class from nib let cellNib = UINib(nibName: "TableCellNib", bundle: bundle)
     self.tableView.registerNib(cellNib, forCellReuseIdentifier: self.tableCellId)
     // Display table with custom cells
     self.view.addSubview(tableNibView)
```

The code shows how you can simply load and display a nib file (the table), and second how to register a nib for cell use.

Hope this helps!!!

}

edited Oct 3 '16 at 21:57



1 can you explain what's the "tableCellId" in this line.... self.tableView.registerNib(cellNib, forCellReuseldentifier: self.tableCellId).... because you have not defined whats that. and you cant manually define the identifier in xib .. no option is there to define it – Pradip Kumar Jul 27 '16 at 9:13

In the interface builder, when you create the tableCell, In the "attributes inspector" you define an identifier. The same identifier is what you use in your controller to reference the object. let tableCellId = "myAwesomeCell" . I added another image to help you. - internet-nico Oct 3 '16 at 21:56

Another method that may work for you (it's how I do it) is registering a class.

Assume you create a custom tableView like the following:

```
class UICustomTableViewCell: UITableViewCell {...}
```

You can then register this cell in whatever UITableViewController you will be displaying it in with "registerClass":

```
override func viewDidLoad() {
    super.viewDidLoad()
    tableView.registerClass(UICustomTableViewCell.self, forCellReuseIdentifier:
"UICustomTableViewCellIdentifier")
}
```

And you can call it as you would expect in the cell for row method:

```
override func tableView(tableView: UITableView, cellForRowAtIndexPath indexPath:
NSIndexPath) -> UITableViewCell {
    let cell =
    tableView.dequeueReusableCellWithIdentifier("UICustomTableViewCellIdentifier",
    forIndexPath: indexPath) as! UICustomTableViewCell
    return cell
}
answered Jun 17'16 at 17:20
Ethan Kay
175 1 12
```

For fix the "Overriding method... has incompatible type..." error I've changed the function declaration to

this solved my problem with similar situation. Thanks!! - lusketeer Sep 25 '14 at 4:53