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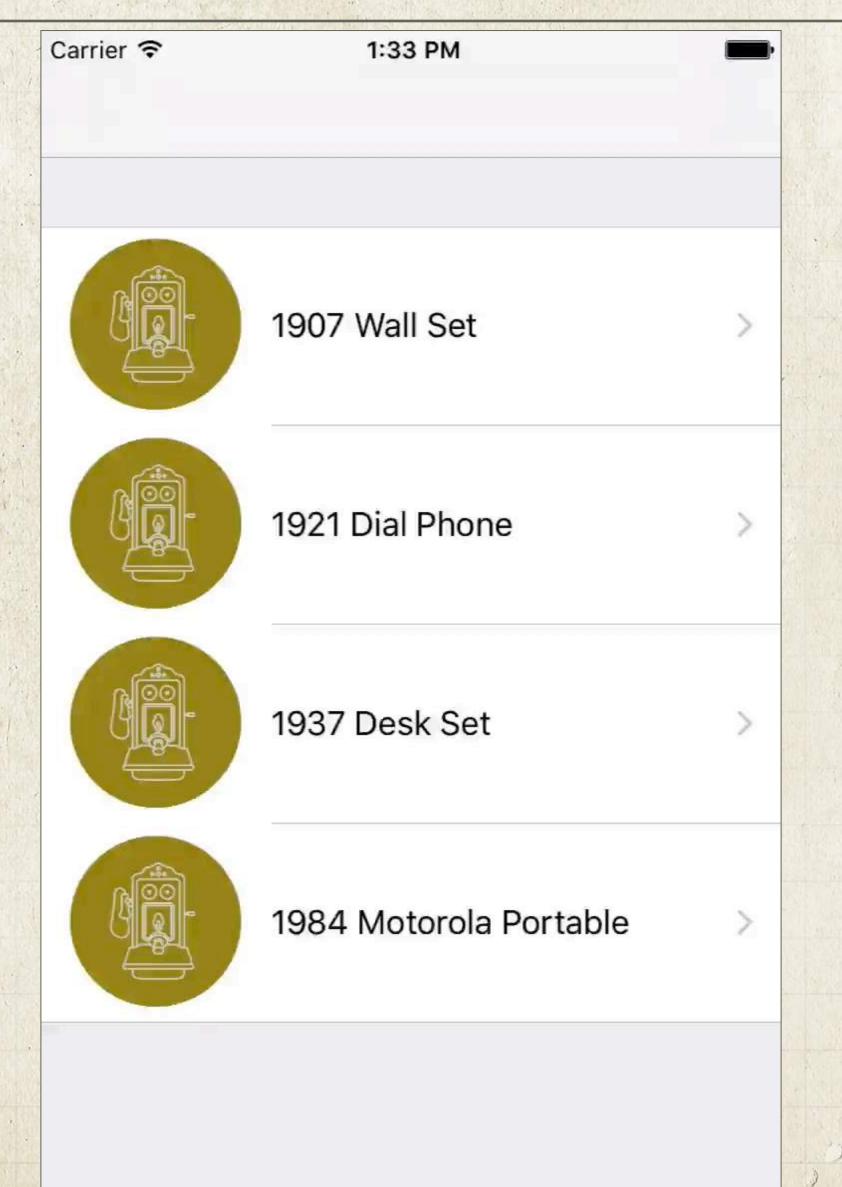
)

Level 5 Navigation

Section 3 - Passing Dynamic Data During a Transition



Problem: We Want the Product Detail to Update Too





The Plan for Updating prepareForSegue

```
class ProductsTableViewController: UITableViewController {
 override func prepareForSegue(segue: UIStoryboardSegue, sender: AnyObject?) {
    if segue.identifier == "ShowProduct" {
      let productVC = segue.destinationViewController as? ProductViewController
     productVC?.productName = "Really old phone"
                                                      Stop hard-coding the
     // get the cell that was tapped
                                                       product name
      // get the index path for that cell
     // use the index path to get the productName from the array
     // send the product name to the product view controller
```

Getting a Copy of the Cell That Was Tapped

```
"Sender" Here is the cell that caused the segue to happen

override func prepareForSegue(segue: UIStoryboardSegue, sender: AnyObject?) {
  if segue.identifier == "ShowProduct" {
    let productVC = segue.destinationViewController as? ProductViewController

    let cell = sender as? UITableViewCell
  }
  Let the compiler know the
  sender is a UITableViewCell
}
```

Using the Cell to Get an indexPath

ProductsTableViewController.swift

```
override func prepareForSegue(segue: UIStoryboardSegue, sender: AnyObject?) {
  if segue.identifier == "ShowProduct" {
    let productVC = segue.destinationViewController as? ProductViewController
    let cell = sender as? UITableViewCell
    if let c = cell {
      let indexPath = tableView.indexPathForCell(c)
                                            This function returns an index
                                            path if you give it a cell
```

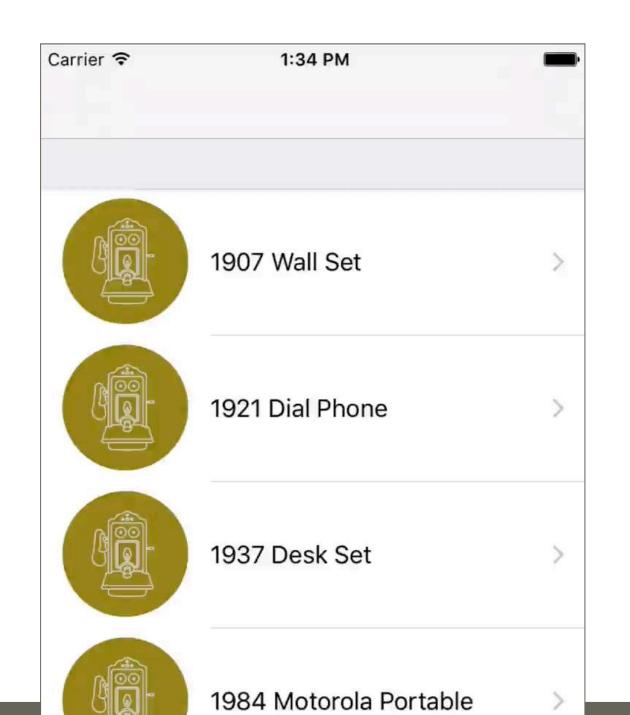
we have to unwrap first because cell is optional

Using the indexPath to Get a Product Name

```
override func prepareForSegue(segue: UIStoryboardSegue, sender: AnyObject?) {
  if segue.identifier == "ShowProduct" {
    let productVC = segue.destinationViewController as? ProductViewController
    let cell = sender as? UITableViewCell
    if let c = cell {
      let indexPath = tableView.indexPathForCell(c)
      if let ip = indexPath {
        let productName = productNames?[ip.row]
                                          use the index path to get the
   The index path that's returned is
                                          correct item from the array
   also an optional
```

Send the Name to the ProductViewController

```
override func prepareForSegue(segue: UIStoryboardSegue, sender: AnyObject?) {
  if segue.identifier == "ShowProduct" {
    let productVC = segue.destinationViewController as? ProductViewController
    let cell = sender as? UITableViewCell
    if let c = cell {
      let indexPath = tableView.indexPathForCell(c)
      if let ip = indexPath {
        let productName = productNames?[ip.row]
        productVC?.productName = productName
                   Set the productName for the
                   product view controller
```



Problem: This Is a Lot of Messy Nested Code

```
let cell = sender as? UITableViewCell
if let c = cell {
  let indexPath = tableView.indexPathForCell(c)
  if let ip = indexPath {
   let productName = productNames?[ip.row]  Ambiguous variable names
   productVC?.productName = productName
Lots of code block nesting
```

Problem: This Is a Lot of Messy Nested Code

```
let cell = sender as? UITableViewCell
if let c = cell {
  let indexPath = tableView.indexPathForCell(c)
  if let ip = indexPath {
   let productName = productNames?[ip.row]  Ambiguous variable names
   productVC?.productName = productName
Lots of code block nesting
```

Solution 1: Reuse Variable Names in if let

It's fine to use the same name to unwrap the optional variable.

```
These are the old optionals
let cell = sender as? UITable ViewCell
if let cell = cell {
  let indexPath = tableView indexPathForCell(cell)
 if let indexPath = indexPath {
    let productName = productNames?[indexPath.row]
    productVC?.productName = productName
       unwrapped values
```

Solution 2: Unwrap and Set on the Same Line

```
override func prepareForSegue(segue: UIStoryboardSegue, sender: AnyObject?) {
  if segue.identifier == "ShowProduct" {
    let productVC = segue.destinationViewController as? ProductViewController
    if let cell = sender as? UITableViewCell {
      let indexPath = tableView.indexPathForCell(cell)
      if let indexPath = indexPath {
                                                                    Before
        let productName = productNames?[indexPath.row]
        productVC?.productName = productName
                                           let cell = sender as? UITableViewCell
     Get a copy of the cell and
                                           if let cell = cell {
      unwrap it in the same line
```

Refactor the indexPath Unwrapping to 1 Line

```
override func prepareForSegue(segue: UIStoryboardSegue, sender: AnyObject?) {
  if segue.identifier == "ShowProduct" {
    let productVC = segue.destinationViewController as? ProductViewController
    if let cell = sender as? UITableViewCell {
      if let indexPath = tableView.indexPathForCell(cell) {
                                                                    Before
        let productName = productNames?[indexPath.row]
        productVC?.productName = productName
                                let indexPath = tableView.indexPathForCell(cell)
                                if let indexPath = indexPath {
     indexPath and unwrap
     it in the same line
```

Refactor Setting the Product Name to 1 Line

```
override func prepareForSegue(segue: UIStoryboardSegue, sender: AnyObject?) {
  if segue.identifier == "ShowProduct" {
    let productVC = segue.destinationViewController as? ProductViewController
    if let cell = sender as? UITableViewCell {
      if let indexPath = tableView.indexPathForCell(cell) {
                                                                       Before
        productVC?.productName = productNames?[indexPath.row]
      Look up the right's product name and
                                   let productName = productNames?[indexPath.row]
                                   productVC?.productName = productName
       assign it in one line
```

Using Guard to Clean Up if let Nesting

ProductsTableViewController.swift

indexPath variables



```
override func prepareForSegue(segue: UIStoryboardSegue, sender: AnyObject?) {
  if segue.identifier == "ShowProduct" {
    let productVC = segue.destinationViewController as? ProductViewController
   guard let cell = sender as? UITableViewCell,
          let indexPath = tableView.indexPathForCell(cell) else {
     return stops running the function
   productVC?.productName = productNames?[indexPath.row]
     This first checks if these values exist, and
                                                  Now safely use indexPath
    if they do it sets them to the cell and
```

Demo: Segue Passing Over Product Data

