

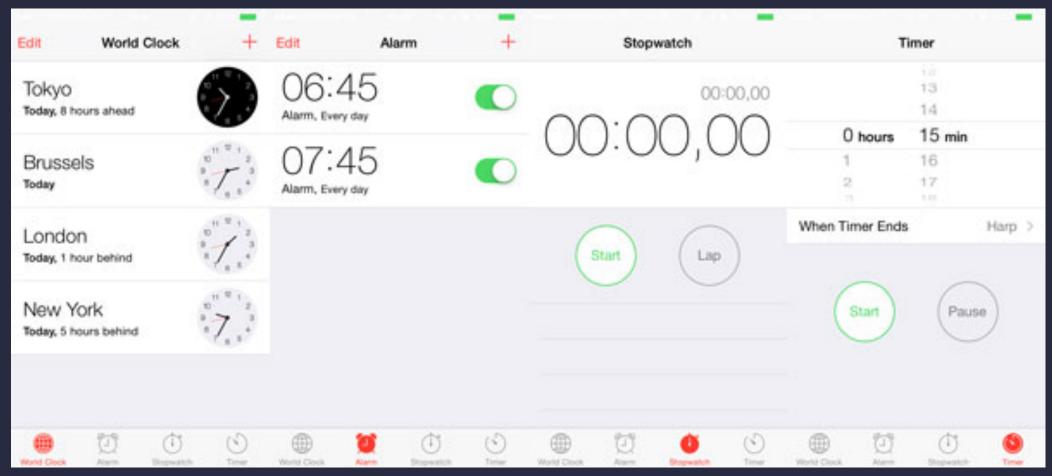


// Aula 06



// Tab Bar







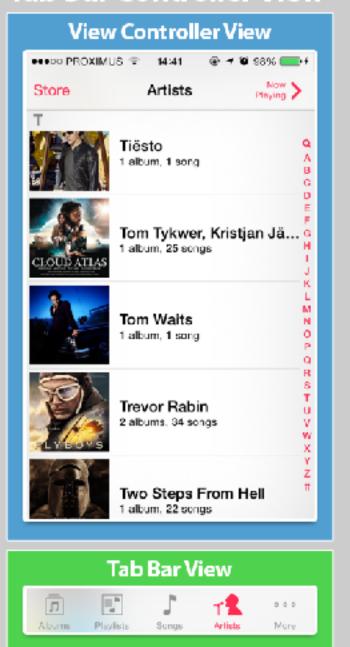
Gerencia navegação

View Controllers não relacionados

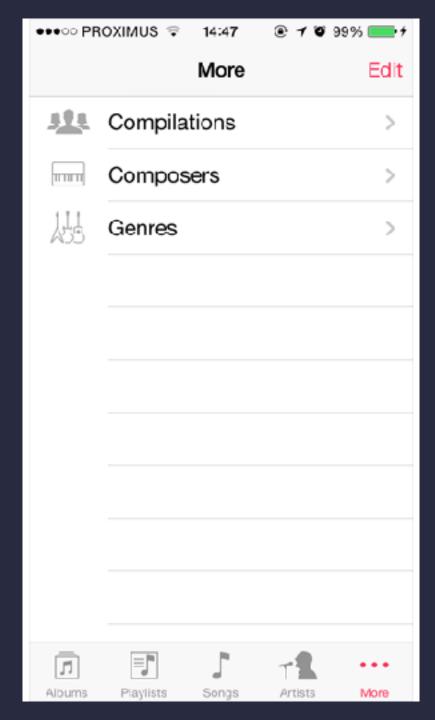
Tab bar vs Nav bar

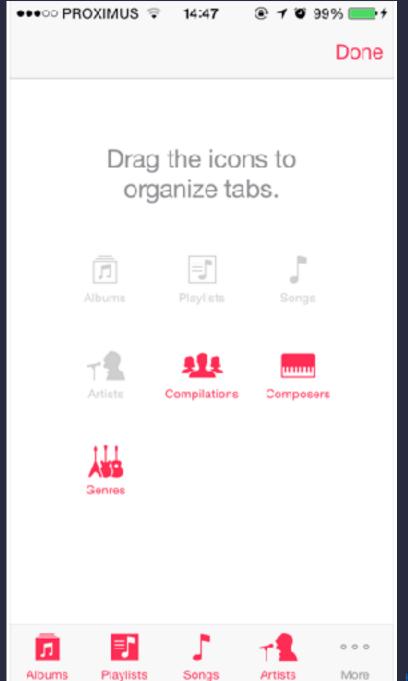


Tab Bar Controller View

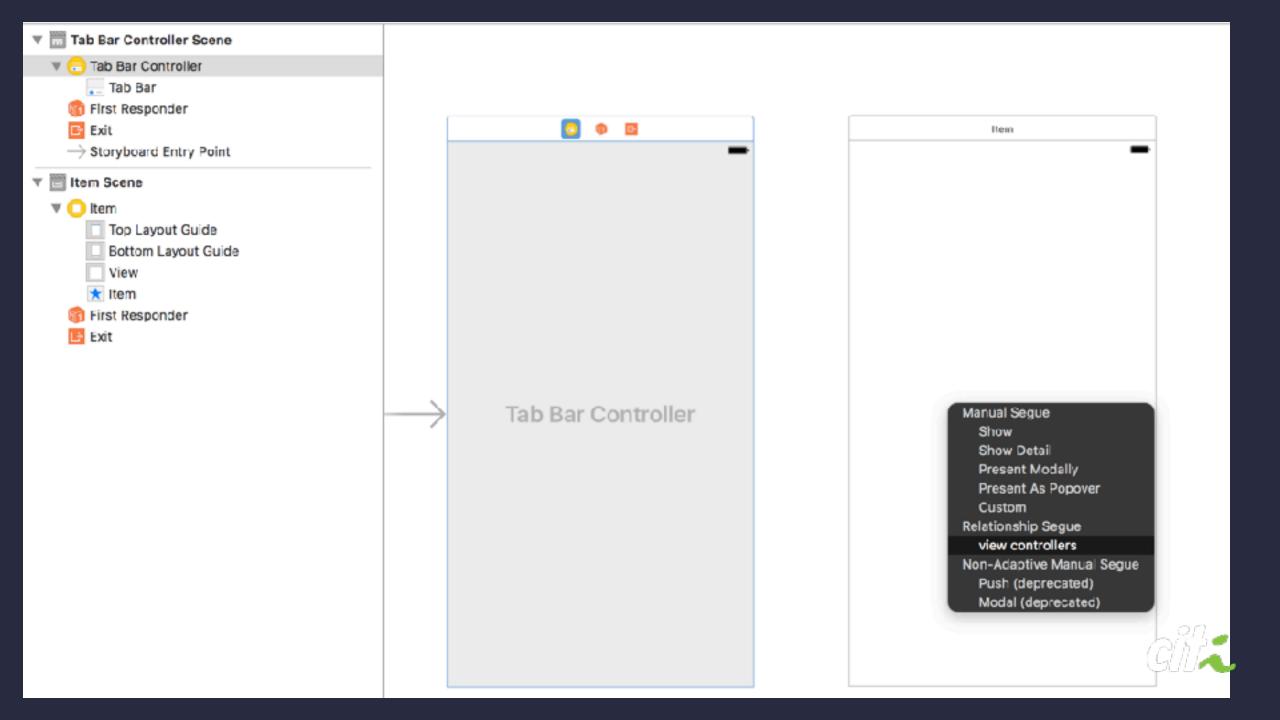


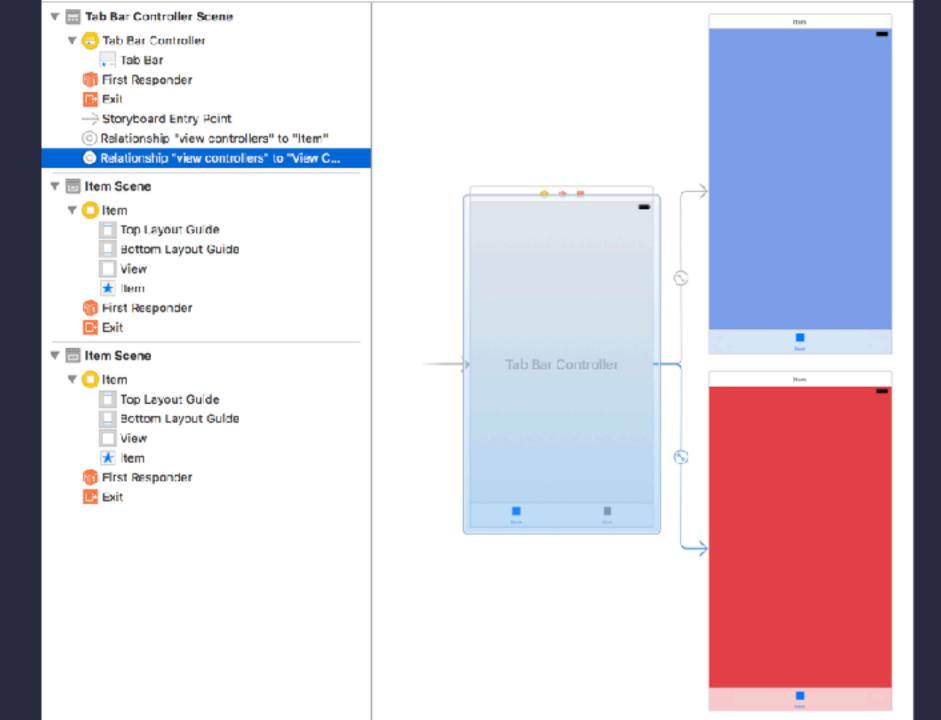














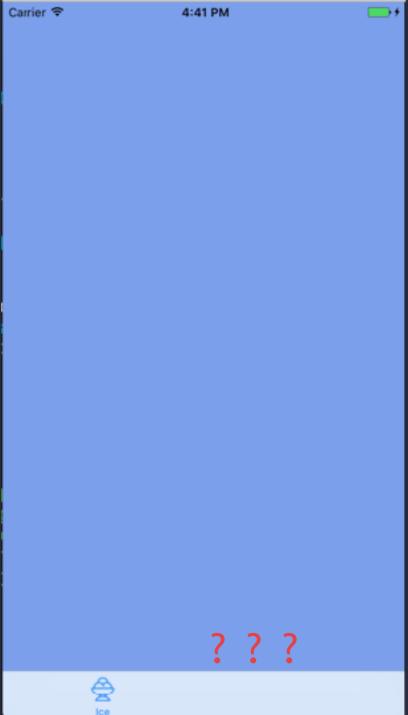
```
class RedViewController: UIViewController {
    override func viewDidLoad() {
        super.viewDidLoad()

        // Do any additional setup after loading the view.
        self.tabBarItem = UITabBarItem(title: "Fire", image: Afire, tag: 2)
}
```

```
class BlueViewController: UIViewController {
   override func viewDidLoad() {
       super.viewDidLoad()

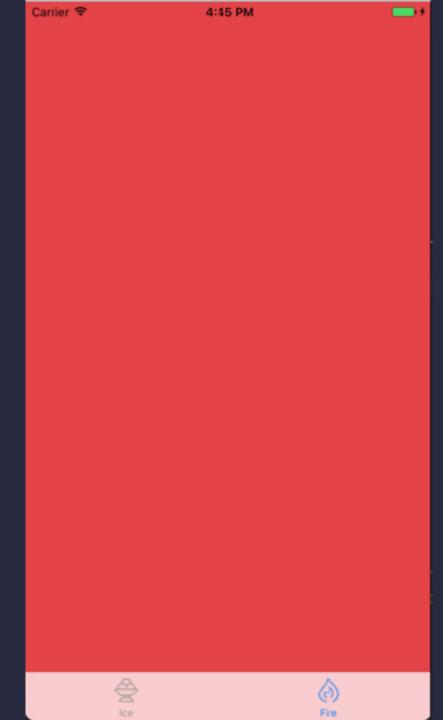
      // Do any additional setup after loading the view.
       self.tabBarItem.title = "Ice"
       self.tabBarItem.image = @ice
   }
```







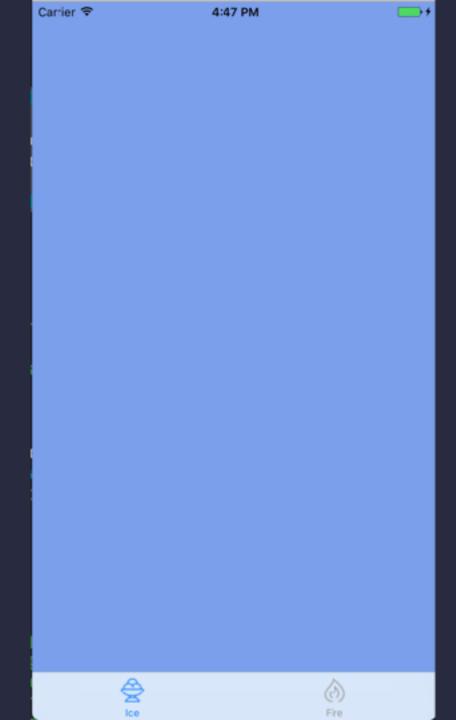






```
class RedViewController: UIViewController {
  required init?(coder aDecoder: NSCoder) {
     super.init(coder: aDecoder)
     self.tabBarItem = UITabBarItem(title: "Fire",
                      image: #imageLiteral(resourceName: "fire"),
                      tag: 2)
```







// tab bar badge

```
class RedViewController: UIViewController {
  required init?(coder aDecoder: NSCoder) {
     super.init(coder: aDecoder)
     self.tabBarItem = UITabBarItem(title: "Fire",
                     image: #imageLiteral(resourceName: "fire"),
                     tag: 2)
     self.tabBarltem.badgeValue = "@"
```



// tab bar badge

```
class RedViewController: UIViewController {
  required init?(coder aDecoder: NSCoder) {
    super.init(coder: aDecoder)
                   Ice
                     tag: 2)
     self.tabBarltem.badgeValue = """
```



// Exercício



// Exercício 12

Tab bar grande

Fazer uma aplicação com um TabBarController

Colocar os seguintes ViewControllers:

- 1. CarroViewController
- 2. MotoViewController
- 3. BarcoViewController
- 4. NavioViewController
- 5. TremViewController
- 6. OnibusViewController

Colocar um ícone e um título no construtor de cada VC

Colocar uma ImageView em cada ViewController com uma imagem correspondente



// Desafio 01

Tab e Nav

Junte os últimos dois exercícios, para que sua aplicação final contenha uma **Tab Bar**, e uma **Nav Bar** ao mesmo tempo.



// Scroll View



// quando usar

- Conteúdo maior que a tela
- Zoom



// UIKit

- UIScrollView
- Table Views e Collection Views



// características

- A scroll view itself has no appearance, but does display transient scrolling indicators as people interact with it.
- Don't place a scroll view inside of another scroll view. Doing so creates an unpredictable interface that's difficult to control.



// implementação

- 1. mudar tamanho do ViewController
- 2. adicionar Scroll View
 - 2.1. fazer com que cubra a tela toda
- 3. adicionar View de conteúdo
 - 3.1. fazer com que cubra a tela toda
 - 3.2. adicionar conteúdo



// Auto-Layout

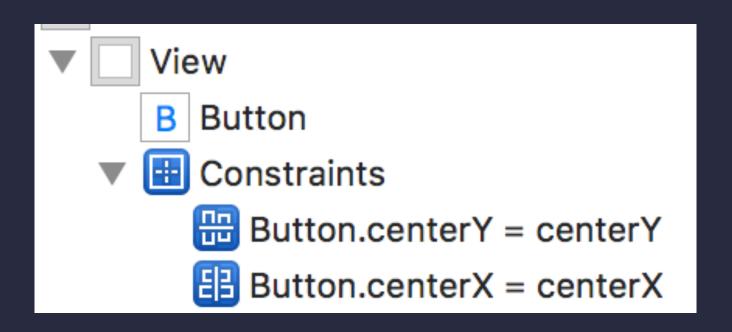


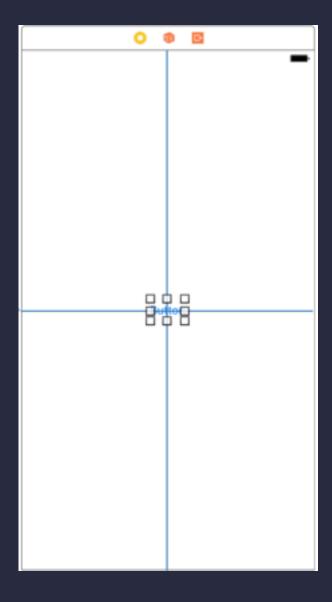
// auto-layout

Auto Layout **dynamically** calculates the **size** and **position** of all the views in your view hierarchy, based on **constraints** placed on those views



// constraints







// mudanças externas

- Rotação do dispositivo
- Diferentes tamanhos de tela

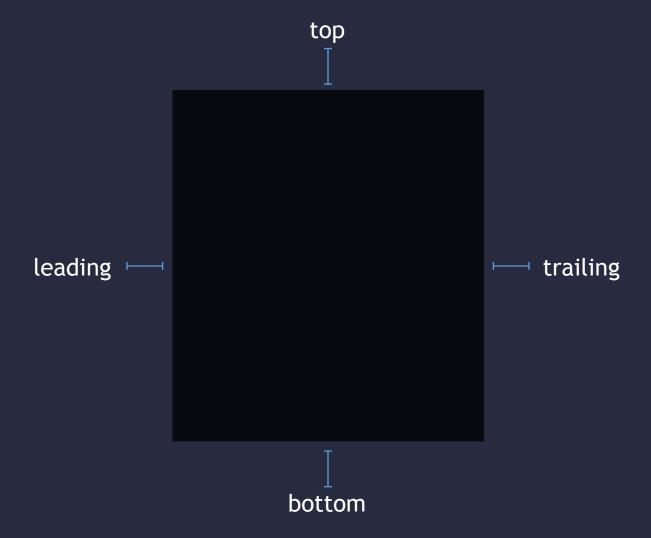
•



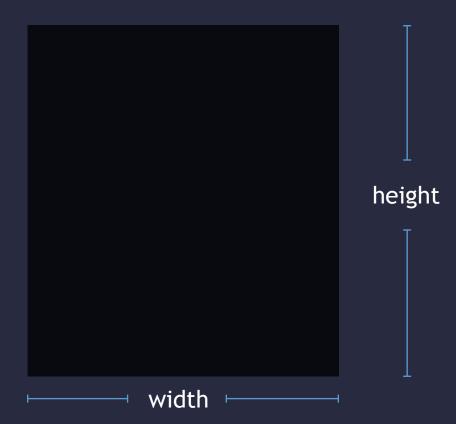
// mudanças internas

- Mudança no conteúdo do app
- Internacionalização
- Suporte a Dynamic Type





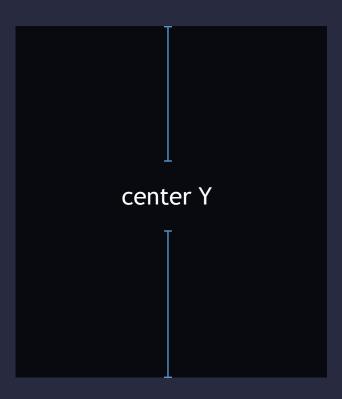






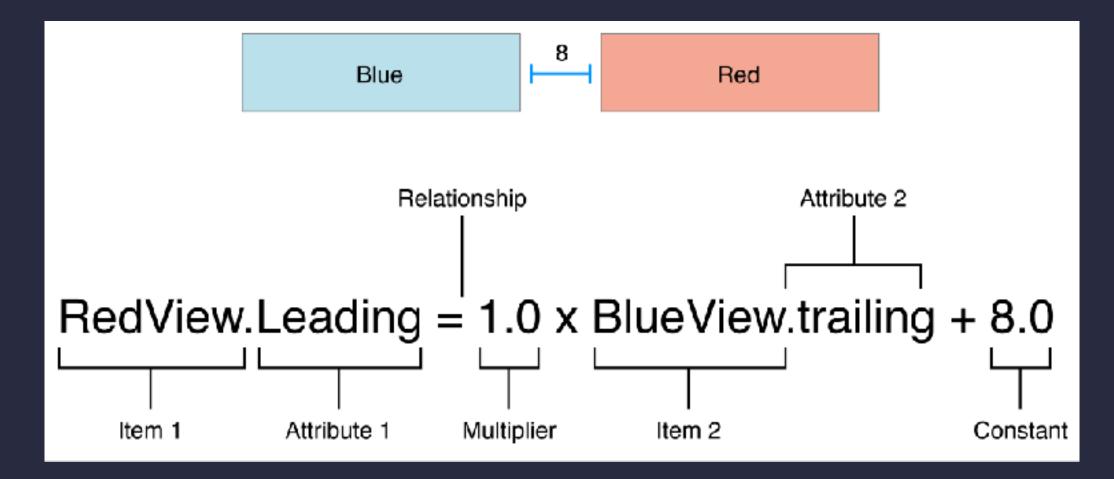








// constraint





// Scroll View no Xcode



// Zoom



// implementação

- 1. adicionar Scroll View
- 2. adicionar Image View
- 3. criar Outlets
- 4. colocar **valores** do **zoom**
- 5. implementar delegate





// implementação

- 1. adicionar Scroll View
- 2. adicionar Image View
- 3. criar Outlets
- 4. colocar **valores** do **zoom**
- 5. implementar delegate



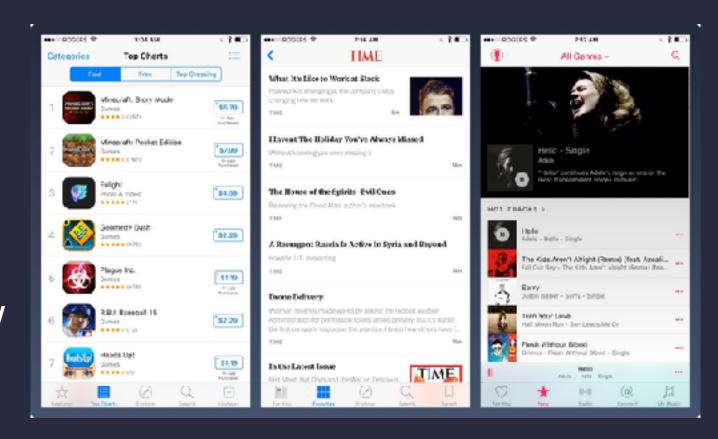


// Table View



// table view

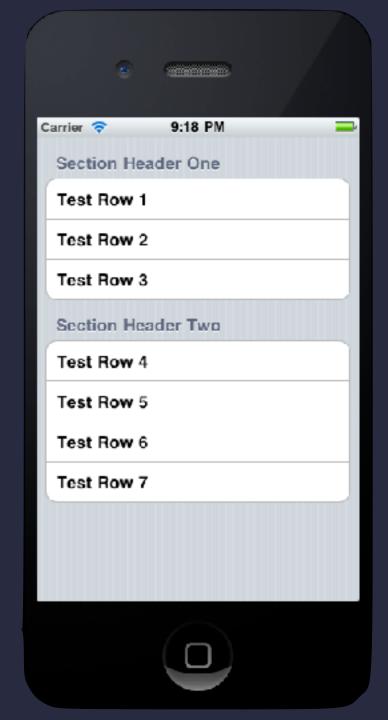
- Conteúdo em lista
- Customizável
- Subclasse de UIScrollView





// anatomia

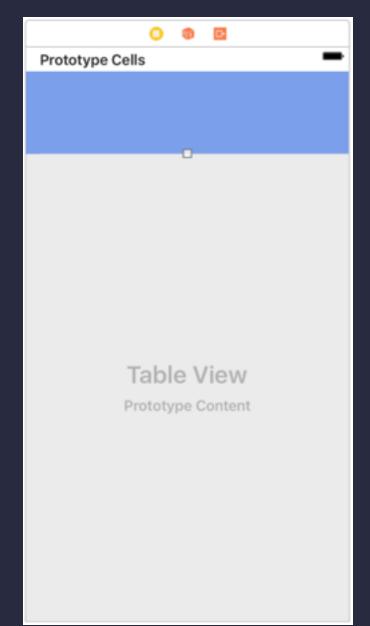
- Seções
- Linhas
- Células





// storyBoard







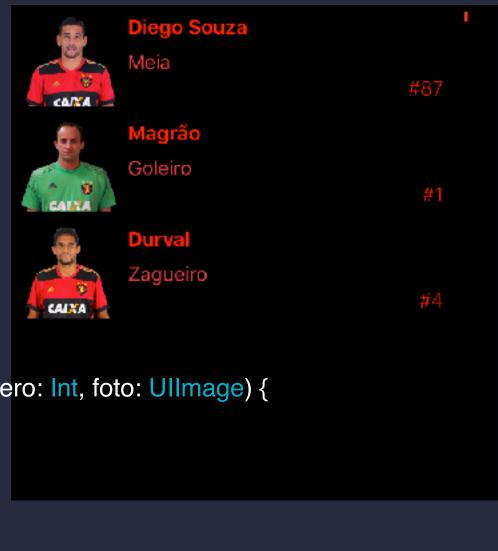


// Implementação



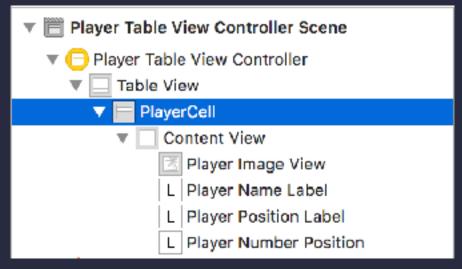
// tipo dos dados

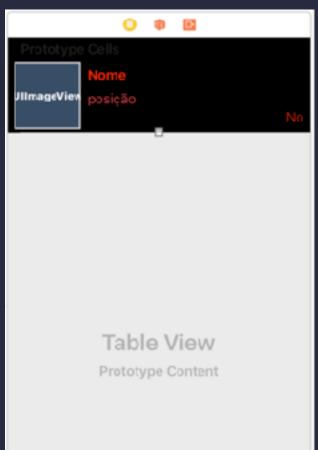
```
class Player {
  var nome: String
  var posicao: String
  var numero: Int
  var foto: Ullmage
  init(nome: String, posicao: String, numero: Int, foto: Ullmage) {
     self.nome = nome
     self.posicao = posicao
     self.numero = numero
     self.foto = foto
```

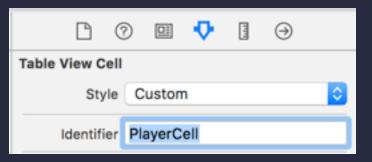




// células

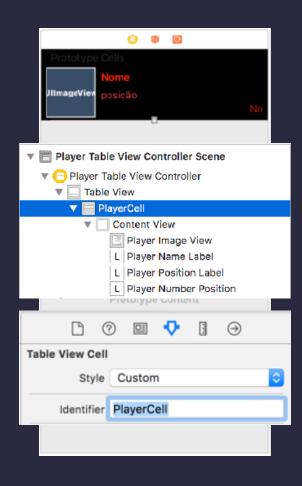








// células



```
class PlayerTableViewCell: UITableViewCell {
    @IBOutlet weak var playerImageView: UIImageView!
    @IBOutlet weak var playerNameLabel: UILabel!
    @IBOutlet weak var playerPositionLabel: UILabel!
    @IBOutlet weak var playerNumberPosition: UILabel!
    // ...
}
```



// controlador

```
class PlayerTableViewController: UITableViewController {
   var players: [Player] = []
```



// dados a serem mostrados

```
class PlayerTableViewController: UITableViewController {
   var players: [Player] = []
```



// criando/carregando dados

```
// MARK: - Cell Setup
private func loadPlayers() {
    // create player objects
    let diegoSouza = Player(nome: "Diego Souza", posicao: "Meia", numero: 87, foto: &diego)
    let magrao = Player(nome: "Magrão", posicao: "Goleiro", numero: 1, foto: &magrao)
    let durval = Player(nome: "Durval", posicao: "Zagueiro", numero: 4, foto: &durval)

// add them to players property
    players.append(contentsOf: [diegoSouza, magrao, durval])
}
```



// chamando função

```
class PlayerTableViewController: UlTableViewController {
   var players: [Player] = []

   override func viewDidLoad() {
      super.viewDidLoad()

      self.loadPlayers()
   }
}
```



- protocolo UITableViewDataSource
- provedor de dados
- implementado por UITableViewController



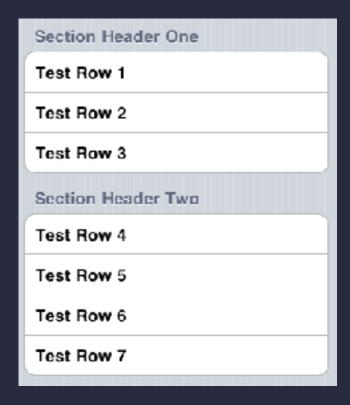
class PlayerTableViewController: UITableViewController {

override func numberOfSections(in tableView: UITableView) -> Int {

// return the number of sections return 1

}

}





class PlayerTableViewController: UITableViewController {

override func numberOfSections(in tableView: UITableView) -> Int {

// return the number of sections return 1

}

}





```
class PlayerTableViewController: UITableViewController {
 var players: [Player] = []
 override func tableView(_ tableView: UITableView,
                           numberOfRowsInSection section: Int) -> Int {
     // return the number of rows
     return self.players.count
```



```
class PlayerTableViewController: UITableViewController {
  var players: [Player] = []
```

```
// return the number of rows return self.players.count
```

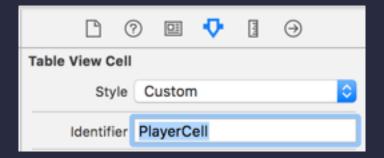








let cellIdentifier = "PlayerCell"













```
override func tableView(_ tableView: UITableView,
                     cellForRowAt indexPath: IndexPath) -> UITableViewCell {
  let cellIdentifier = "PlayerCell"
  guard let cell = tableView.dequeueReusableCell(withIdentifier: cellIdentifier,
                                       for: indexPath) as? PlayerTableViewCell
    else {
     fatalError("Tipo de célula não é PlayerTableViewCell")
  // Configure the cell...
  let currentPlayer = self.players[indexPath.row]
```



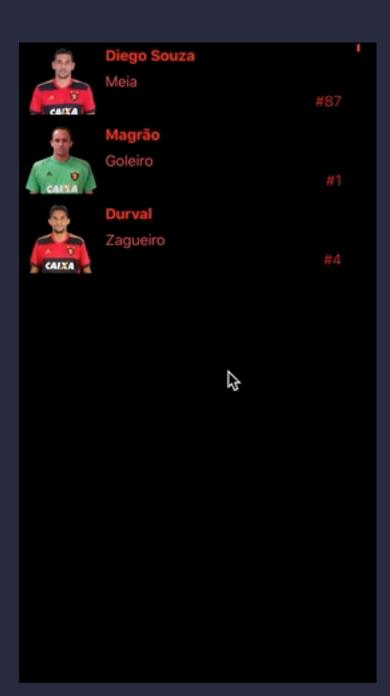
```
override func tableView(_ tableView: UITableView,
                     cellForRowAt indexPath: IndexPath) -> UITableViewCell {
  let cellIdentifier = "PlayerCell"
  guard let cell = tableView.dequeueReusableCell(withIdentifier: cellIdentifier,
                                      for: indexPath) as? PlayerTableViewCell
    else {
     fatalError("Tipo de célula não é PlayerTableViewCell")
  // Configure the cell...
  let currentPlayer = self.players[indexPath.row]
  cell.playerImageView.image = currentPlayer.foto
  cell.playerNameLabel.text = currentPlayer.nome
  cell.playerPositionLabel.text = currentPlayer.posicao
  cell.playerNumberPosition.text = "#" + String(currentPlayer.numero)
```



```
override func tableView(_ tableView: UITableView,
                     cellForRowAt indexPath: IndexPath) -> UITableViewCell {
  let cellIdentifier = "PlayerCell"
  guard let cell = tableView.dequeueReusableCell(withIdentifier: cellIdentifier,
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    else {
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  cell.playerImageView.image = currentPlayer.foto
  cell.playerNameLabel.text = currentPlayer.nome
  cell.playerPositionLabel.text = currentPlayer.posicao
  cell.playerNumberPosition.text = "#" + String(currentPlayer.numero)
  return cell
```

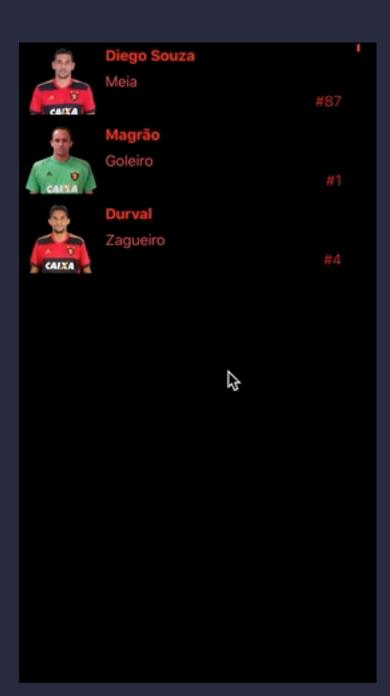


// resultado final





// resultado final





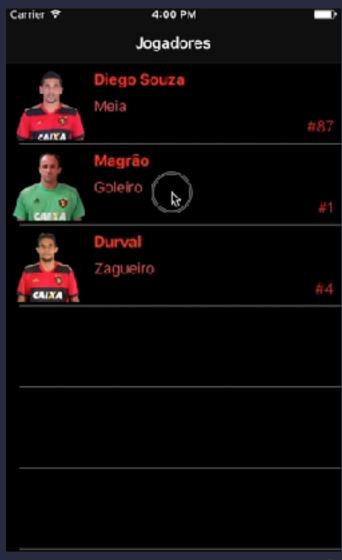
// Exercício



// Exercício 13

Lista de coisas

- Faça uma Table View que mostre pelo menos 3
 itens de uma lista (contendo pelo menos foto e
 nome)
- 2. ao tocar num item, **direcione o usuário** para uma tela com os detalhes do item selecionado
 - 2.1. Permita que o usuário possa dar **zoom** na foto mostrada

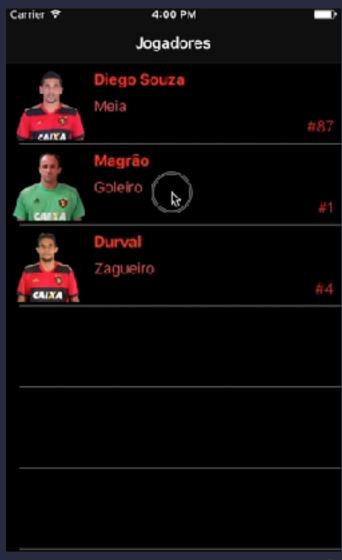




// Exercício 13

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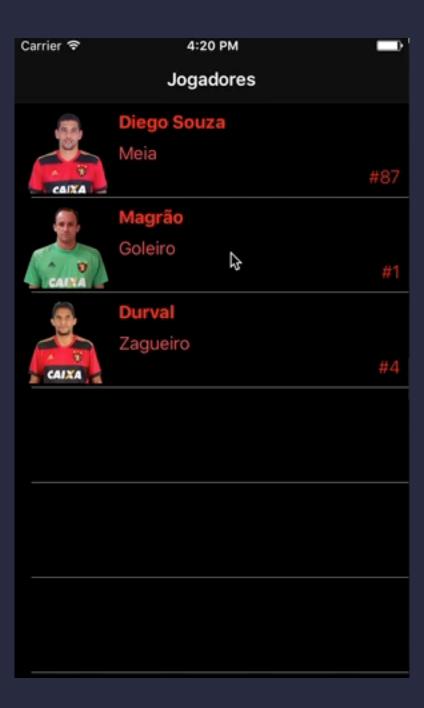




// Edições

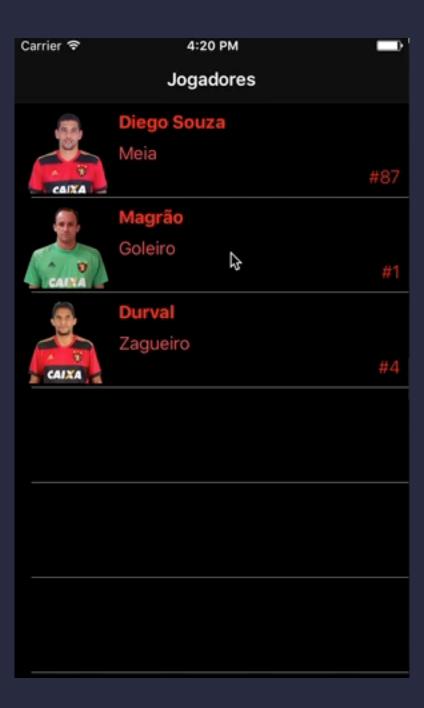


// remoção





// remoção

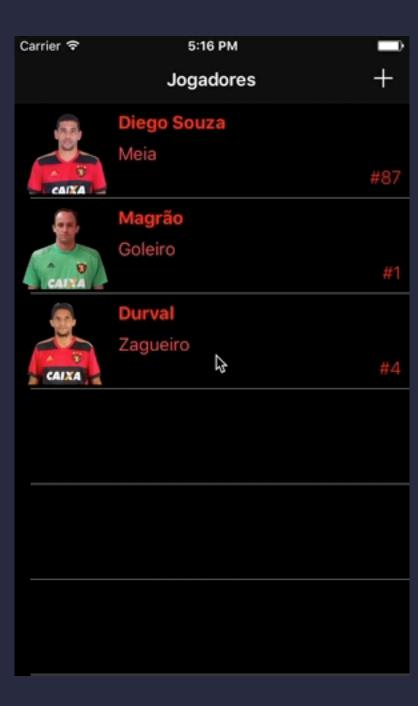




// remoção

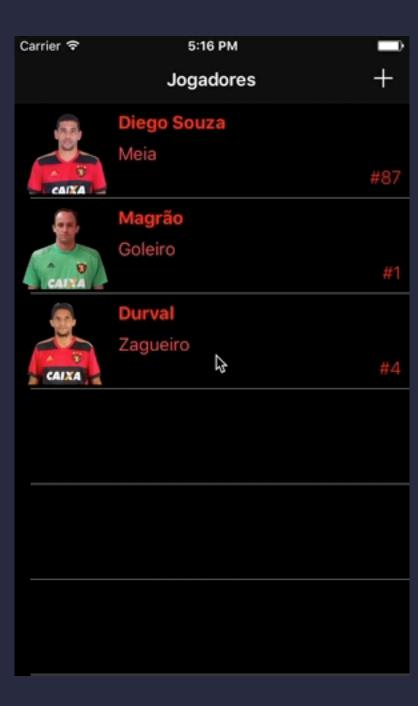
```
override func tableView(_ tableView: UITableView,
              commit editingStyle: UITableViewCellEditingStyle,
              forRowAt indexPath: IndexPath) {
  if editingStyle == .delete {
     // Delete the row from the data source
     self.players.remove(at: indexPath.row)
     tableView.deleteRows(at: [indexPath], with: .fade)
```

// inserção





// inserção





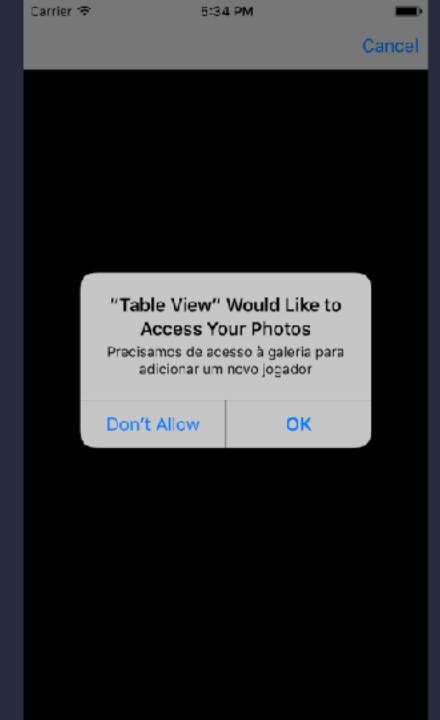
// inserção

```
@IBAction func addPlayer(_ sender: Any) {
  let newIndexPath = IndexPath(row: players.count, section: 0)
  let andre = Player(nome: "André",
                     posicao: "Atacante",
                     numero: 90,
                     foto: #imageLiteral(resourceName: "andre"))
  players.append(andre)
  self.tableView.insertRows(at: [newIndexPath], with: .automatic)
```

// Acesso à galeria



// permissão



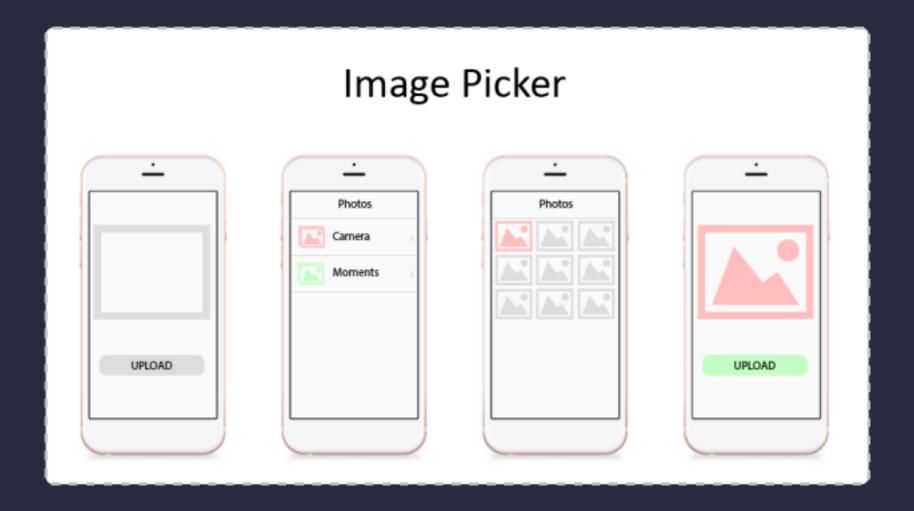


// info.plist

Key		Туре	Value	
▼ Information Property List		Dictionary	(15 items)	
Localization native development region	\$	String	en	\$
Executable file	\$	String	\$(EXECUTABLE_NAME)	
Bundle identifier	\$	String	\$(PRODUCT_BUNDLE_IDENTIFIER)	
InfoDictionary version	\$	String	6.0	
Bundle name	\$	String	\$(PRODUCT_NAME)	
Bundle OS Type code	\$	String	APPL	
Bundle versions string, short	\$	String	1.0	
Bundle version	\$	String	1	
Application requires iPhone environment	\$	Boolean	YES	\$
Launch screen interface file base name	\$	String	LaunchScreen	
Main storyboard file base name	\$	String	Main	
Required device capabilities	÷	Array	(1 item)	
Status bar is initially hidden	٥	Boolean	NO	0
Privacy - Photo Library Usage Description	000	String (Precisamos de acesso à galeria para adicionar um novo jogador	
▶ Supported interface orientations	\$	Array	(3 items)	



// image picker





// abrindo galeria

```
if UllmagePickerController.isSourceTypeAvailable(.photoLibrary) {
    let imagePicker = UllmagePickerController()

    imagePicker.delegate = self

    imagePicker.sourceType = .photoLibrary

    imagePicker.allowsEditing = true

    self.present(imagePicker, animated: true, completion: nil)
}
```



// capturando imagem selecionada

```
extension PlayerTableViewController: UllmagePickerControllerDelegate,
                                    UINavigationControllerDelegate {
 func imagePickerController(_ picker: UllmagePickerController,
                           didFinishPickingMediaWithInfo info: [String: Any]) {
      if let pickedImage = info[UIImagePickerControllerOriginalImage] as? UIImage {
          let imagemSelecionada = pickedImage
          // adicionar na tabela
      picker.dismiss(animated: true, completion: nil)
```



// Exercício



// Exercício 14

Lista de coisas II

- 1. ponha um botão de adicionar, que leva o usuário para uma tela onde ele escreverá um nome, e uma foto para um novo item a ser inserido na tabela tabela.
- 2. permita que o usuário possa deletar um item da tabela

// Extra

3. permita que o usuário possa editar um item da tabela



// Ementa



Swift:

- Por que desenvolver em swift?
- Variavéis, constantes e operadores
- Tipos, optionals
- Coleções (arrays, dicionários)
- Fluxo de controle
- Condicionais e loops
- Funções e closures
- Enums
- Classes e structs

Storyboard:

- Model
- View
- Controler
- Delegação
- UIKit
 - Labels
 - Botões
 - Textfields
 - Tableview
- Storyboard
- Navegação
- Persistência local



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// Proposta semana 02

SegundaTerçaQuartaQuintaSextaWebViewProjetoProjetoProjetoProjetoPersistênciaExtraExtraExtra



