

# // Aula 05

// Recapitulando



### // Delegate

### // Delegate

- 1. Definição do protocolo
- 2. Implementar protocolo em uma classe
- 3. adicionar propriedade delegate
- 4. chamar métodos do delegate



```
// delegate

import UIKit

class ViewController: UIViewController {
    @IBOutlet weak var colorTextField: UITextField!

@IBOutlet weak var colorBtn: UIButton!

@IBAction func changeColor(_ sender: Any) {
    var novaCor: UIColor

// ...
}
```

```
// delegate
extension ViewController: UITextFieldDelegate {
```

```
// delegate

class ViewController: UIViewController {
  @IBOutlet weak var colorTextField: UITextField!

  override func viewDidLoad() {
      super.viewDidLoad()

  }
}
```

```
// delegate

class ViewController: UIViewController {
    @IBOutlet weak var colorTextField: UITextField!

    override func viewDidLoad() {
        super.viewDidLoad()

        self.colorTextField.delegate = self
     }
    }
}
```

### // delegate

- 1. UITextFieldDelegate
- 2. ViewController: UITextFieldDelegate
- 3. self.colorTextField.delegate = self
- 4. chamar métodos do delegate (responsabilidade do Text Field



```
// delegate

public protocol UITextFieldDelegate: NSObjectProtocol {

@available(iOS 2.0, *)
    optional public func textFieldShouldBeginEditing(_textField: UITextField) -> Bool // return NO to disallow editing.

@available(iOS 2.0, *)
    optional public func textFieldDidBeginEditing(_textField: UITextField) // became first responder

@available(iOS 2.0, *)
    optional public func textFieldShouldEndEditing(_textField: UITextField) -> Bool // return YES to allow editing to stop and to resign first responder status. NO to disallow the editing session to end

@available(iOS 2.0, *)
    optional public func textFieldDidEndEditing(_textField: UITextField) // may be called if forced even if shouldEndEditing returns NO (e.g. view removed from window) or endEditing:YES called

@available(iOS 10.0, *)
    optional public func textFieldDidEndEditing(_textField: UITextField, reason: UITextFieldDidEndEditingReason) // if implemented, called in place of textFieldDidEndEditing:

// ... }
```

// Navegação





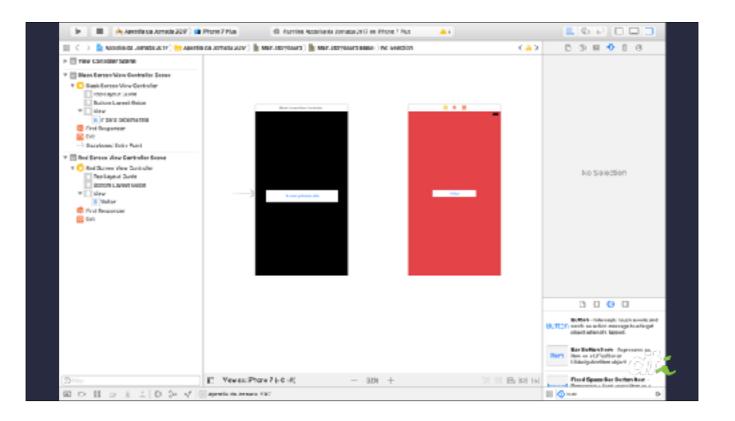


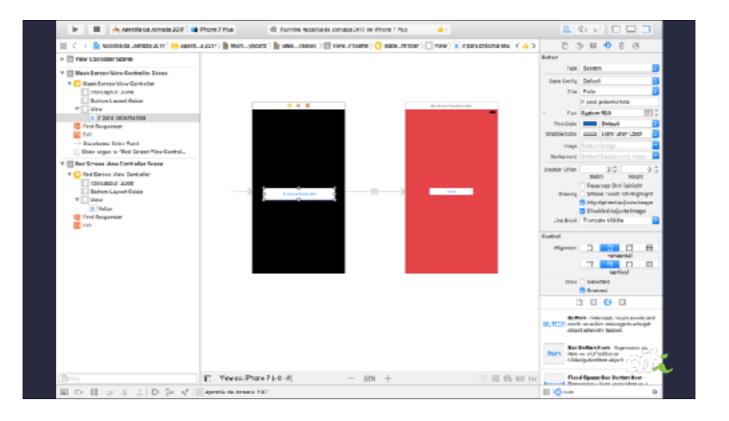
# // Segues

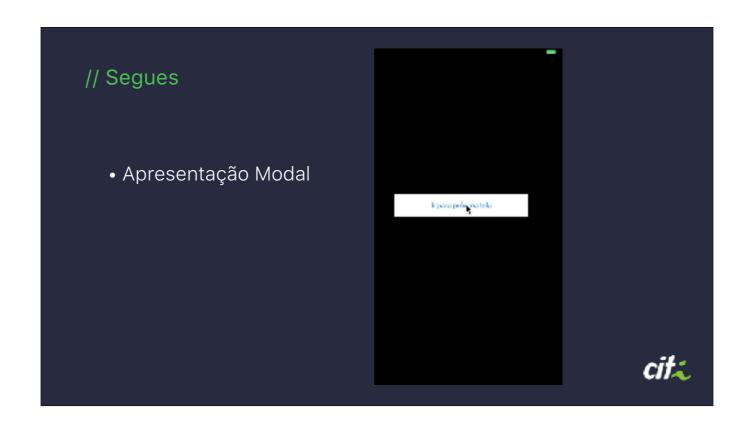
### // Segues

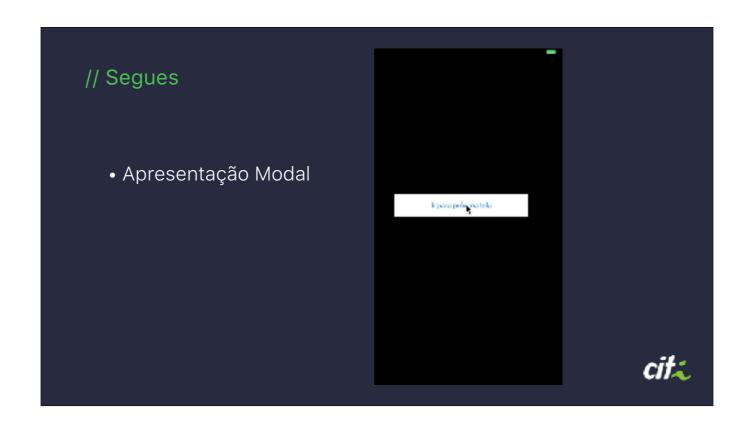
- Definem o fluxo de **navegação** do app
- Transição entre ViewControllers do StoryBoard
- Início: button, table row, or gesture recognizer
- **Destino**: ViewController a ser mostrado

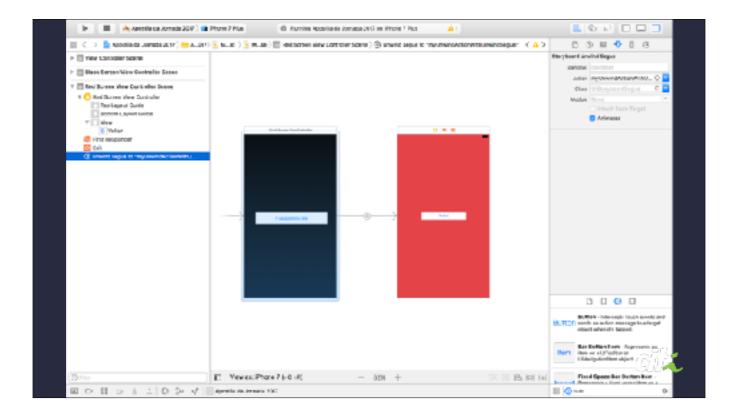






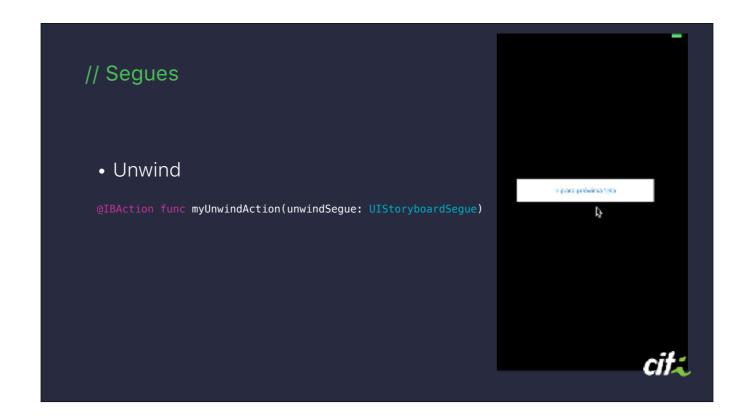






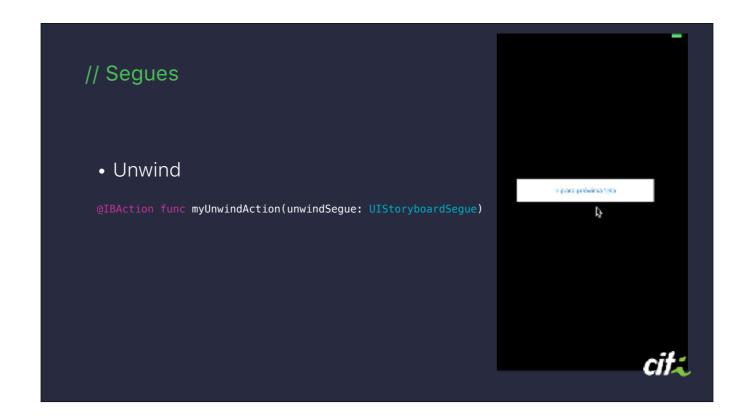
You must define an unwind action method in one of your view controllers before trying to create the corresponding unwind segue in Interface Builder. The presence of that method is required and tells Interface Builder that there is a valid target for the unwind segue.

Use the implementation of your unwind action method to perform any tasks that are specific to your app. You do not need to dismiss any view controllers involved in the segue yourself; UIKit does that for you. Instead, use the segue object to fetch the view controller being dismissed so that you can retrieve data from it. You can also use the unwind action to update the current view controller before the unwind segue finishes.



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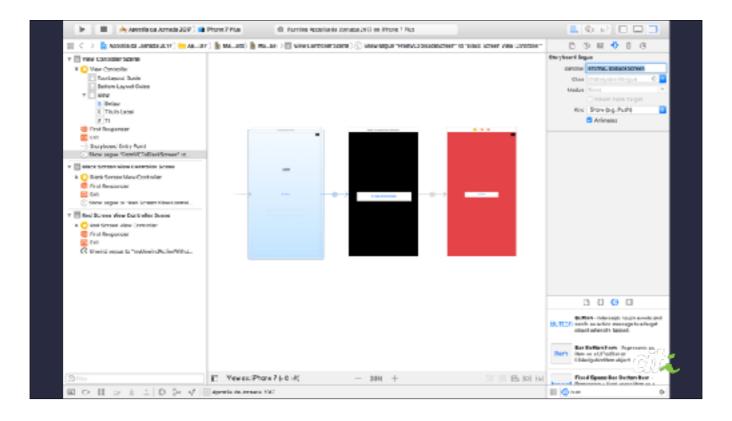
// Chamando por Código

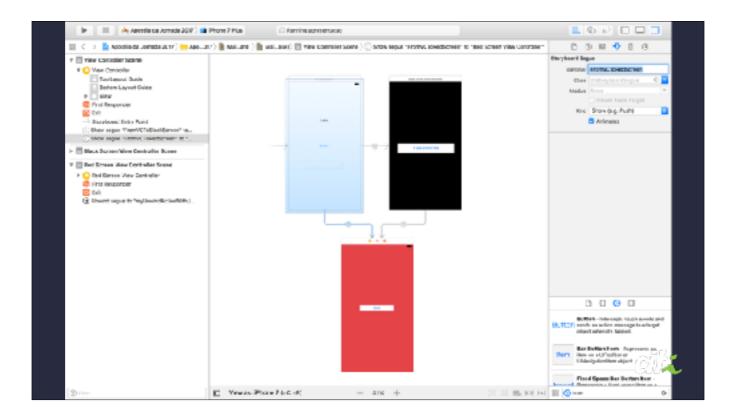


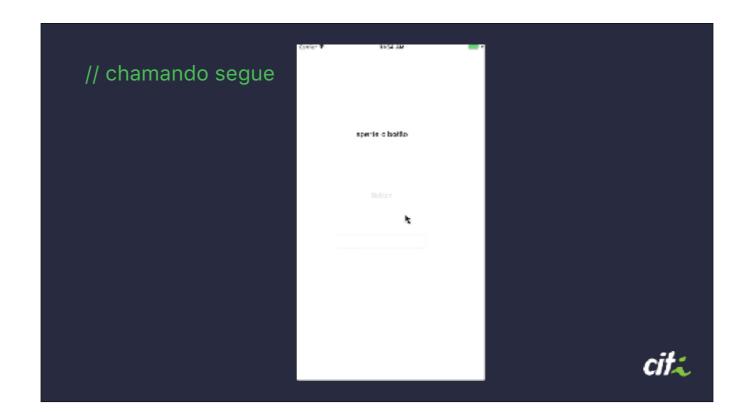
// Segues programáticas

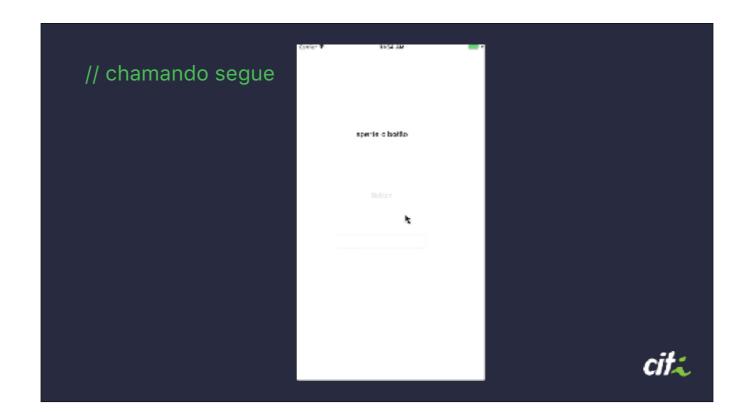
Às vezes é necessário **chamar** uma segue pelo código











```
// chamando segue

if tituloLabel.text == "Black" {
    self.performSegue(withIdentifier: "FromVCToBlackScreen", sender: self)
} else if tituloLabel.text == "Red" {
    self.performSegue(withIdentifier: "FromVCToRedScreen", sender: self)
}
```

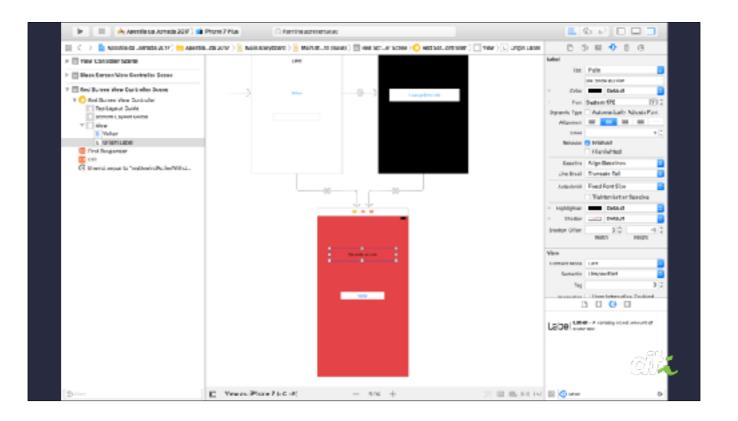
### // Passando Dados



### // passando dados

- Se precisarmos passar informações entre view controllers
- Podemos passá-las pela segue









```
// passando dados

class RedScreenViewController: UIViewController {
    var recievedData: String?
    @IBOutlet weak var originLabel: UILabel!

    override func viewDidLoad() {
        super.viewDidLoad()

        self.originLabel.text = self.recievedData
    }
}
```

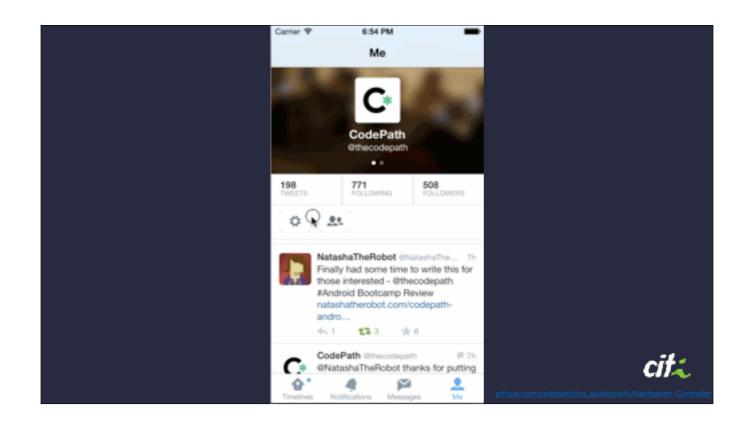
```
// passando dados

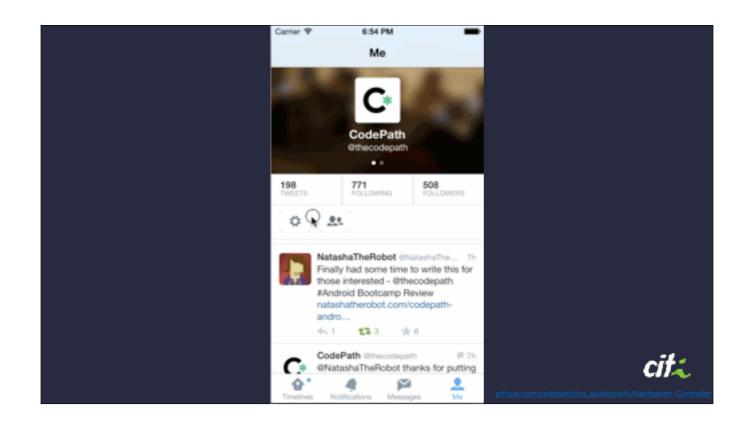
No ViewController:
    override func prepare(for segue: UIStoryboardSegue, sender: Any?) {
        if let redVC = segue.destination as? RedScreenViewController {
            redVC.recievedData = "Vim do VC"
        }
    }

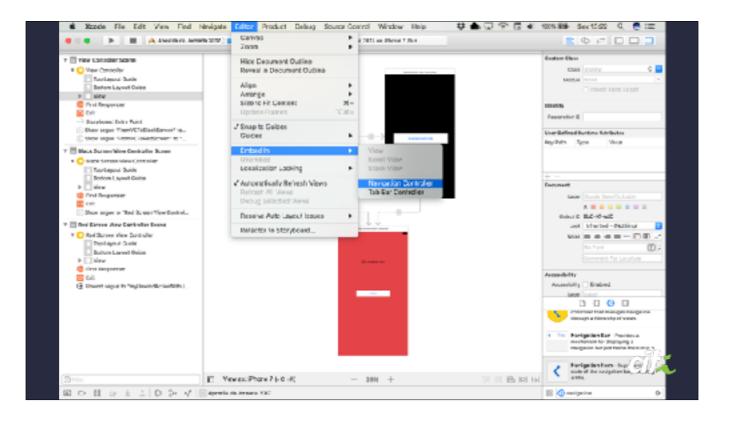
No BlackScreenViewController:
    override func prepare(for segue: UIStoryboardSegue, sender: Any?) {
        if let redVC = segue.destination as? RedScreenViewController {
            redVC.recievedData = "Vim do BlackVC"
        }
    }
}
```

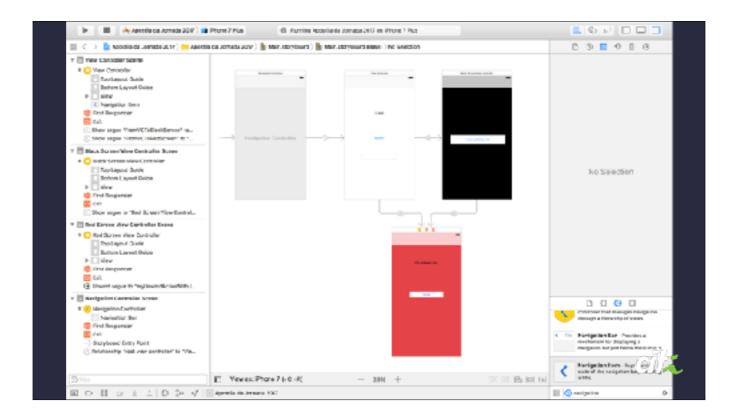
// Navigation Controller

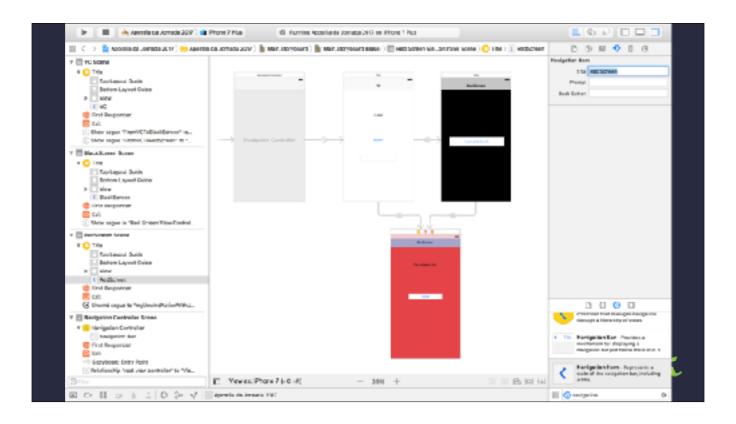






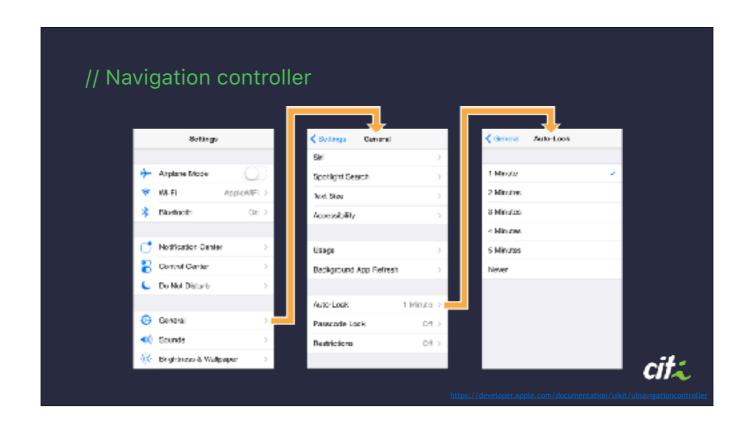




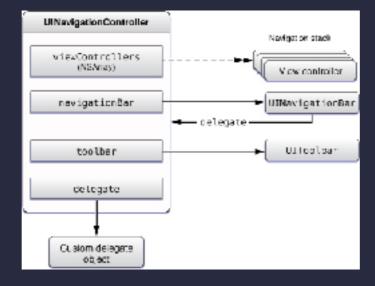








### // Navigation controller





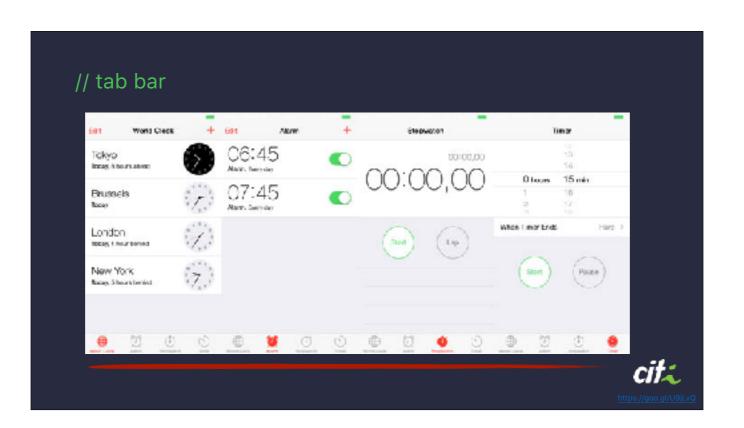
https://developer.apple.com/documentation/uikit/uinavigationcontroller

# // Exercício





# // Tab Bar



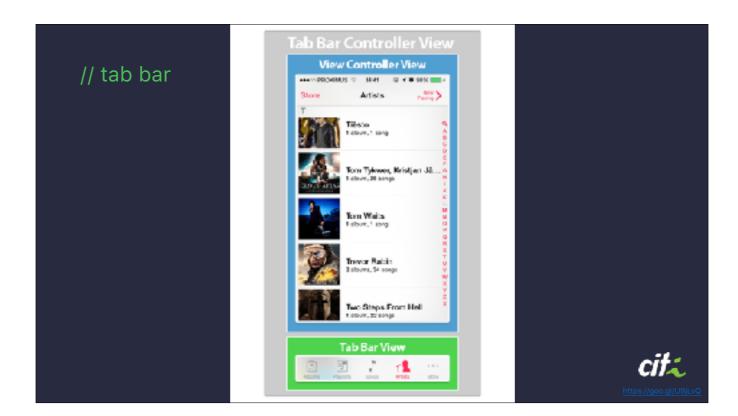
// tab bar

Gerencia navegação

View Controllers não relacionados

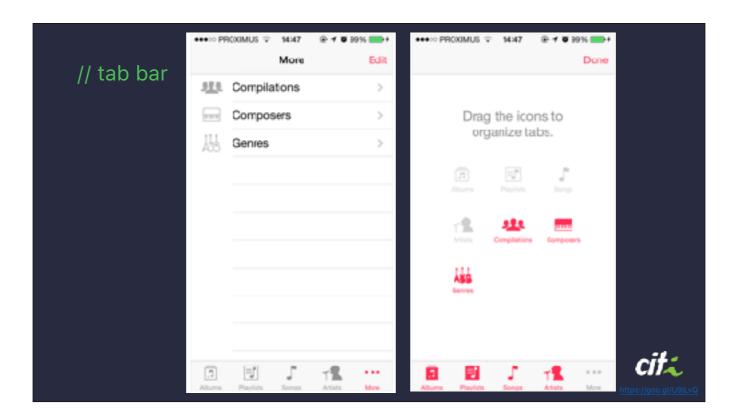
Tab bar vs Nav bar

UITabBarController is another UIViewController subclass.
While navigation controllers manage a stack of related view controllers,
tab bar controllers manage an array of view controllers that have no explicit relation to one another.



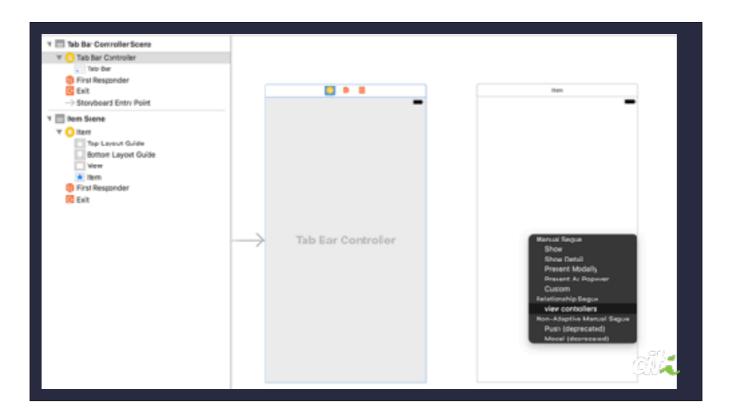
toda subclasse de UIViewController gerencia views Tab bar controller gerencia duas:

- A da própria tab bara view do viewController atual

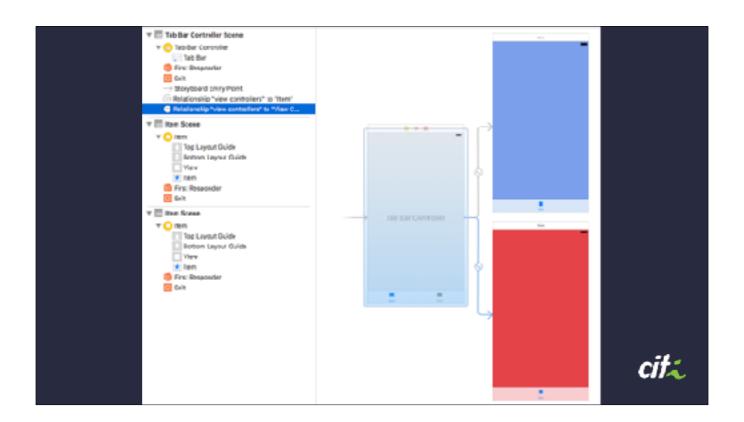


### tab bar view:

- só mostra até 5 itens
- pode gerenciar mais de 5 VCs



relationship segue



adicionando segundo VC

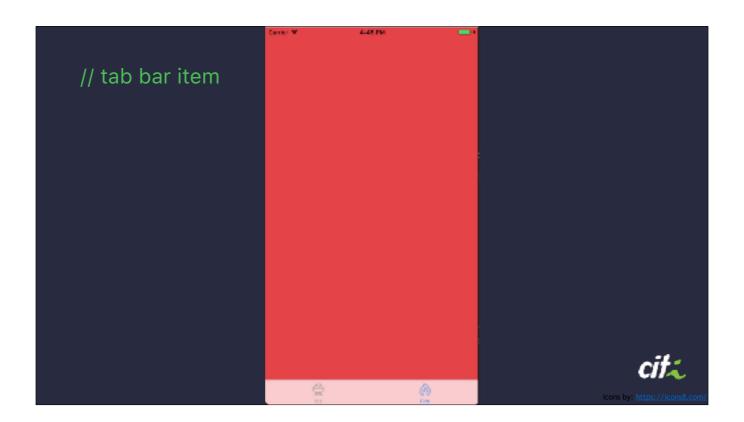
```
// tab bar item

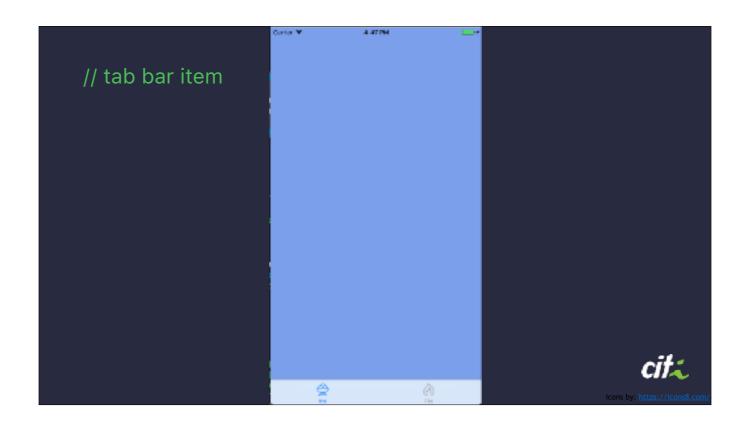
class RedViewController: UIViewController {
    override func viewDidLoad() {
        super.viewDidLoad()
        // Do any additional setup after loading the view.
        self.tabBarItem = UITabBarItem(title: "Fire", image: % fire, tag: 2)
}

class BlueViewController: UIViewController {
    override func viewDidLoad() {
        super.viewDidLoad()
        // Do any additional setup after loading the view.
        self.tabBarItem.title = "Ice"
        salf.tabBarItem.image = ©ice
}

core by: https://cons.com/
```







```
// tab bar badge

class RedViewController: UIViewController {

required init?(coder aDecoder: NSCoder) {
    super.init(coder: aDecoder)

s

fire"),
    tag: 2)

self.tabBarItem.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

Tentar **reajustar** os itens mostrados na tab bar



// 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.



# // Ementa

EMENTA PRELIMINAR DO CURSO:	
SWIFT	STORYBOARD
Variáveis, constantes e operadores	Views
Tipos de variáveis (números, strings, entre outras)	InputView
Coleções (array, dicionário)	ScrollView
Controle de fluxo (condicionais e loops)	TableView
Funções e closures	Navigation Controller
Enums	Tab Bar
Classes e structs	Labels
Protocols	Botões
Casting de tipos	Trocando de telas
Optionals	Integrando o storyboard com o código (outlets, buttons, entre outros)
Persistência	Webviews



COMPLEMENTO: XCODE, MONETIZAÇÃO E DESIGN DE INTERFACE.

EMENTA PRELIMINAR DO CURSO:	
SWIFT	STORYBOARD
Variáveis, constantes e operaciones:	<del>Views</del>
Tipos de variáveis (números, strings, entre outras)	Input/lew TextFleid
Gologã <del>os (array, eleionário)</del> -	ScraMew
Controle de fluxo (condicionais e loops)	Table/New
Funções e closures	Navigation-Controller
Erums	Teb Ber-
Classes e structs	Labels
Protocute	Boliser
Casting deripos	Trecando de toles
Optionsis	Integrando o aterybecant com a addigo
- Balogation-	(outlets, buttons, entire outros)
Persidência	Webviews

COMPLEMENTO: MODEL MONETIZAÇÃO E DESIGN DE INTERFACE.





