

// Aula 08

// Dúvidas da Aula 07



```
/*
Como fazer unwind pelo
código?
*/
```

// algoritmo

- 1. Criar action no **VC de destino**
 - @IBAction func unwindToX(segue:)
- 2. Criar segue do VC de **origem** para o **Exit**
 - 2.1. dar um **identificador** para a segue
- з. **Chamar** a segue
 - performSegue(withIdentifier: sender:)





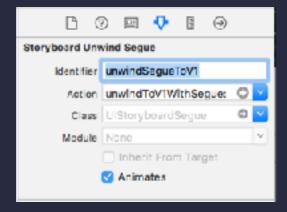
```
// 1. no VC1

@IBAction func unwindToVC1(sender: UIStoryboardSegue)
{ ... }
```





// 2. nomeando segue





```
// 3. chamar segue

@IBAction func voltarV1(_ sender: Any) {
    self.performSegue(withIdentifier: "unwindSegueToV1", sender: self)
}

cif~
```

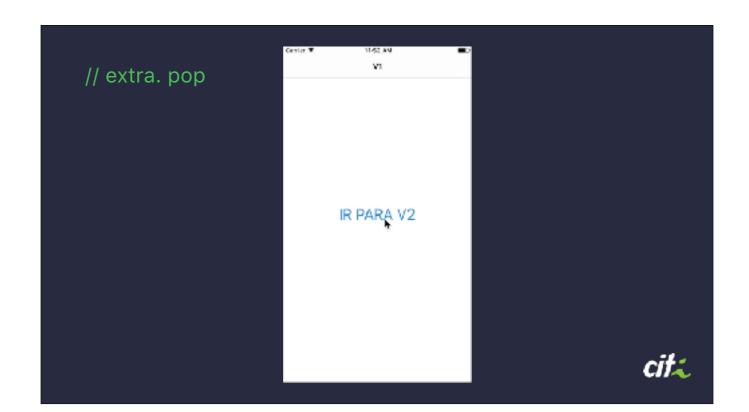


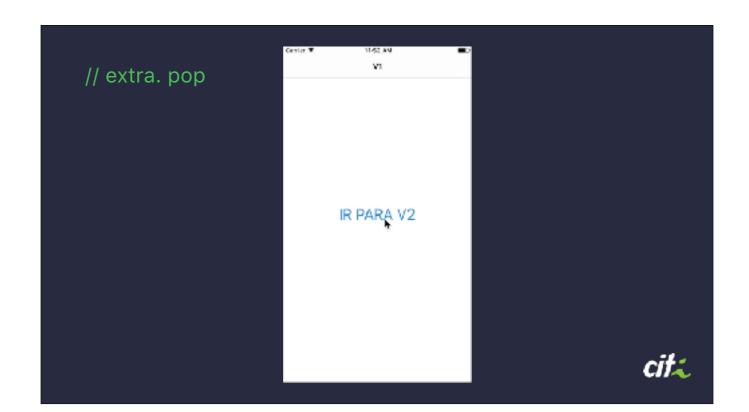


```
// extra. pop

@IBAction func popBtn(_ sender: Any) {
    /* se fosse modal:
    dismiss(animated: true, completion: nil)*/
    self.navigationController?.popViewController(animated: true)
}

cita
```





// Persistência



// Core Data

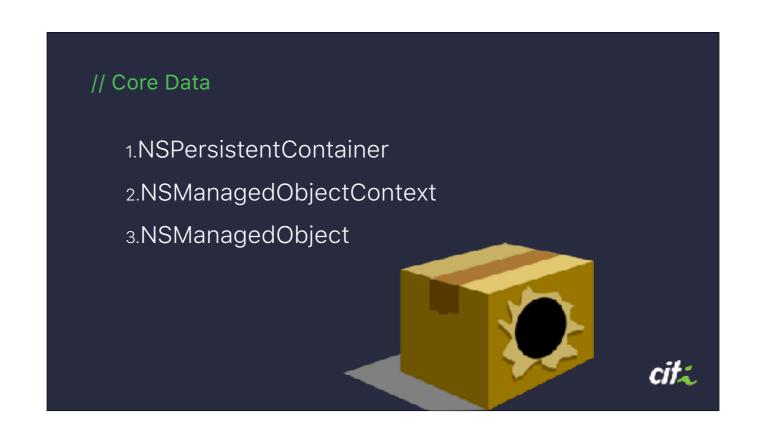
- 1.Framework de Persistência local
- 2.Usa a memória do iPhone
- з.Usa SQLite
- 4.Modelar os dados

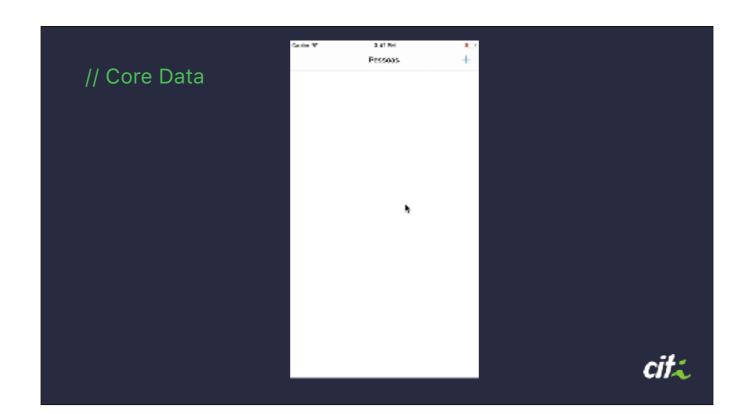


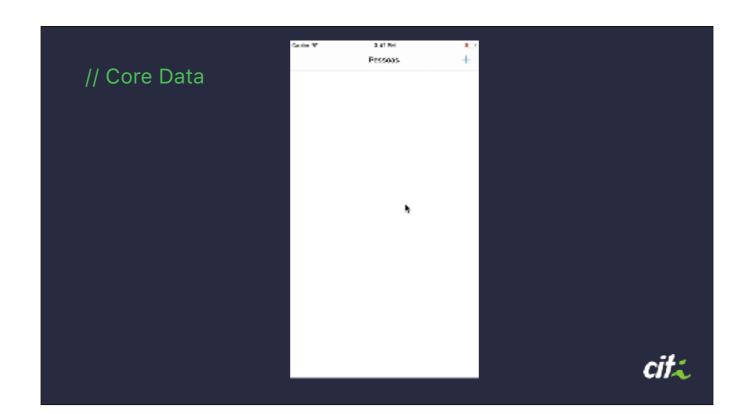
// Core Data

- 1.NSPersistentContainer
- ${\tt 2.NSManagedObjectContext}$
- з.NSManagedObject









// algoritmo geral

- 1.Criar projeto com **Core Data**
- 2.Criar **Entity** e dar **Attributes**
- 3.Instanciar **App Delegate** para pegar o NSManagedContext
- 4.Realizar **fetch** dos dados salvos
- 5. Quando adicionar novos dados, **save**
- 6.Quando remover dados, **delete**

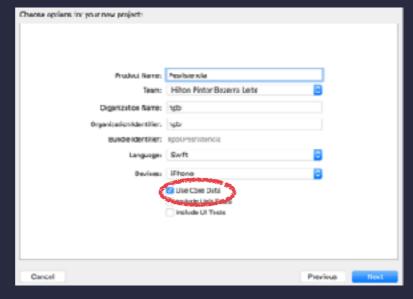


```
/*
1. Criar projeto com Core

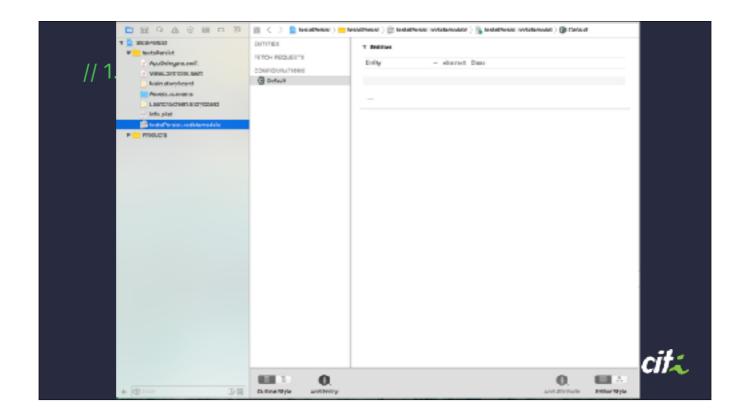
Data

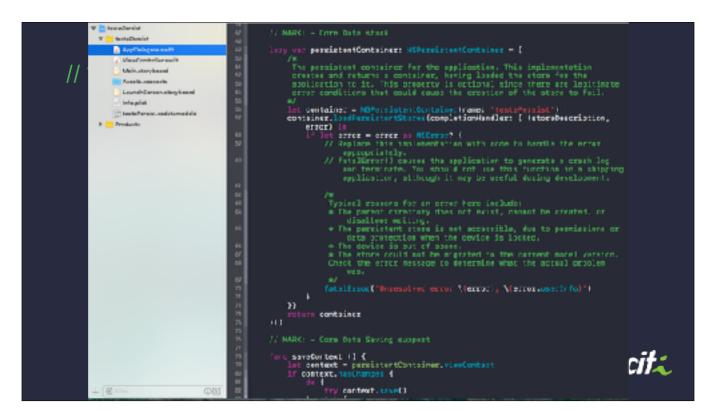
*/
```

// 1. Criar Projeto



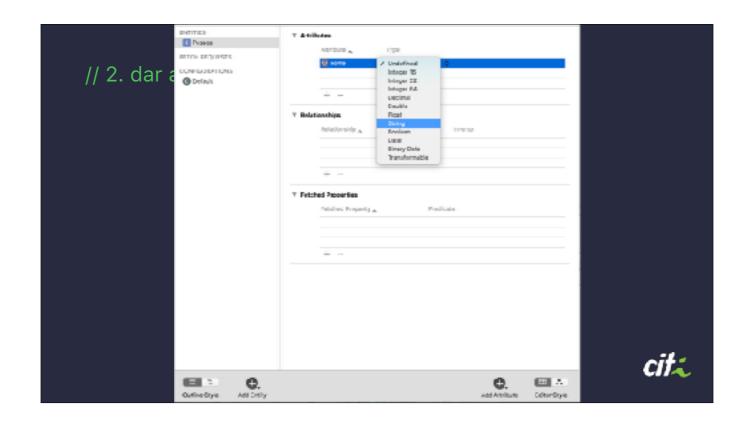






```
/*
2. Criar Entity e dar
Attributes
*/
```

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/*
3. Instanciar **App Delegate** para pegar o
NSManagedContext
*/

```
// 3. instanciar app delegate e context

class ViewController: UIViewController {
   var appDelegate: AppDelegate?
   var managedContext: NSManagedObjectContext?
}
```

// 3. instanciar app delegate e context

```
class ViewController: UIViewController {
   var appDelegate: AppDelegate?
   var managedContext: NSManagedObjectContext?

  override func viewDidLoad() {
      super.viewDidLoad()
      // ...

      self.appDelegate = UIApplication.shared.delegate as? AppDelegate

      self.managedContext = appDelegate?.persistentContainer.viewContext
   }
}
```



```
/*
4. Realizar fetch dos dados salvos
*/
```

```
// 4. fetch

class ViewController: UIViewController {
    var appDelegate: AppDelegate?
    var managedContext: NSManagedObjectContext?
    var pessoas: [NSManagedObject] = []
    override func viewWillAppear(_ animated: Bool) {
        super.viewWillAppear(animated)

        let fetchRequest = NSFetchRequest<NSManagedObject>(entityName: "Pessoa")

        do {
            try self.pessoas = (self.managedContext?.fetch(fetchRequest))!
        } catch let error as NSError {
            print("erro na hora de pedir. \( (error), \( (error.userInfo)") \)
        }
    }
}
```

```
/*
5. Quando adicionar novos dados, save
*/
```

```
// 5. save
class ViewController: UIViewController {
    var appDelegate: AppDelegate?
    var pessoas: [NSManagedObject] = []

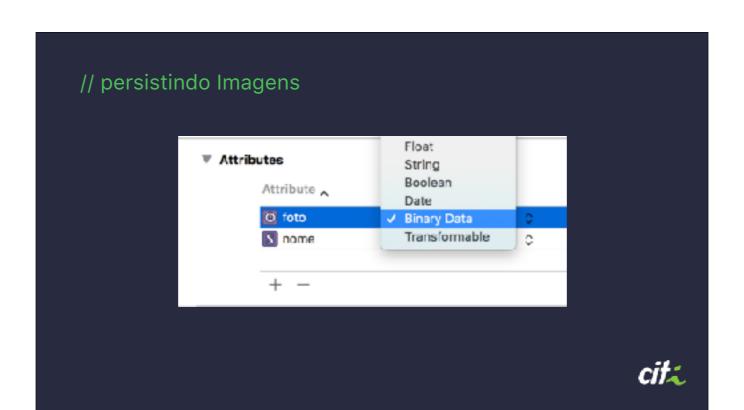
func save(novoNome: String) {
    let entity = NSEntityDescription.entity(forEntityName: "Pessoa", in: managedContext!)

    let pessoa = NSManagedObject(entity: entity!, insertInto: managedContext!)

    pessoa.setValue(novoNome, forKey: "nome")

    do {
        try managedContext?.save()
        self.pessoas.append(pessoa)
    } catch let error as NSError {
        print("erro na hora de salvar. \('error), \('error.userInfo)")
    }
}
```

```
/*
5. Quando remover dados, delete
*/
```



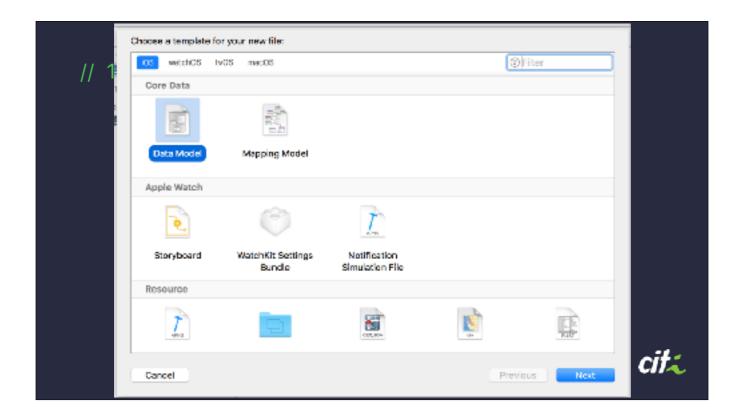
// save Imagens func save(novoNome: String) { let entity = NSEntityDescription.entity(forEntityName: "Pessoa", in: managedContext!) let pessoa = NSManagedObject(entity: entity!, insertInto: managedContext) let img = #imageLiteral(resourceName: "diego") let imgData = UllmageJPEGRepresentation(img, 1) pessoa.setValue(imgData, forKey: "foto") pessoa.setValue(novoNome, forKey: "nome") do { try managedContext?.save() self.pessoas.append(pessoa) } catch let error as NSError { print("erro na hora de salvar. \((error), \((error.userInfo)") \) } }

```
/*
Como adicionar Core
Data a um projeto
existente?
*/
```

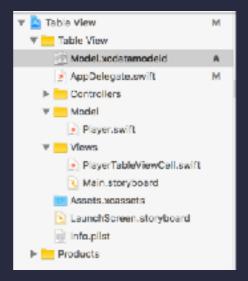
// algoritmo

- 1. Adicionar arquivo **Data Model** (.xcdatamodeld)
- 2. Adicionar código ao **App Delegate**
 - 2.1. Mudar let container = NSPersistentContainer(name: "nomeDoArquivo")
- 3. Adaptar o código para usar Core Data

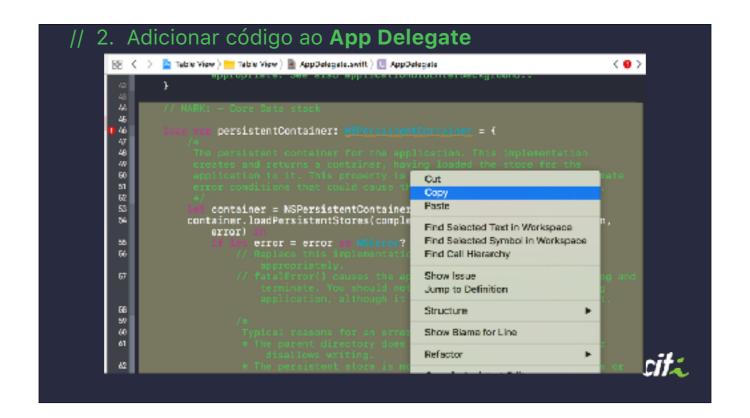




// 1. Adicionar arquivo .xcdatamodeld



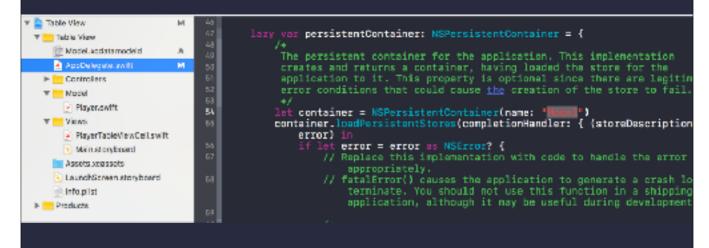




// 2. Importar Core Data



// 3. Mudar nome do container





// Exercício

// Exercício 14

Lista de coisas III

- 1. Adicione persistência local usando **Core Data** ao seu app
- 2. Dados **adicionados** devem ser mantidos
- 3. **Remoções** devem ser mantidas

// Extra

4. **Edições** devem ser mantidas



