



PROGRAMACIÓN

# Core Data para iOS

TIM ISTED  
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# Core Data Para Ios Programacion

**Tim Roadley**

## Core Data Para Ios Programacion:

*Core Data para iOS* Tim Isted,Tom Harrington,2012-01 La potencia de los dispositivos iPhone y iPad y su sistema operativo iOS hacen que estos productos de Apple se conviertan en las herramientas m s vers tiles de los campos del conocimiento disponibles medicina literatura matem ticas ocio etc Cualquier herramienta profesional necesita una forma de almacenar los datos que manipula iOS utiliza Core Data para almacenar devolver y manipular datos de una forma sencilla independientemente de si se utiliza una base de datos XML o un formato binario Esta abstracci n se ajusta al paradigma de programaci n data driven donde se describen los datos con un alto nivel de modelado expresados en t rminos de entidades y sus relaciones El c digo puede recuperar y manipular estos datos en un nivel puramente objeto sin tener que preocuparse de los detalles de almacenamiento y recuperaci n En este libro dos importantes programadores iOS ense an la estructura completa de Core Data introduciendo cada una de sus clases principales para proporcionar una funcionalidad optima con una configuraci n m nima Aprender a guardar recoger y validar datos y proporcionarles vistas eficientes

Curso de

Programaci n con iOS Ángel Arias,Enrique Flores Gonzalo,2016-11-09 Con la evoluci n de la tecnolog a cada vez m s personas tienen acceso a un ordenador ya sea en su casa en la escuela en el trabajo o en cualquier otro lugar Los usuarios m s curiosos pueden plantearse preguntas como c mo consiguen hacer esto como podr a hacerlo o aprenderlo yo c mo es un ordenador internamente El objetivo de este libro es servir como base a cualquiera que desee introducirse o simplemente unirse al maravilloso mundo de la programaci n incluso si usted tiene pocos o ning n conocimiento sobre la materia Este libro tambi n puede servir como una forma de enriquecimiento cultural sobre temas ya olvidados ya que aborda aspectos de la arquitectura de los procesadores y ordenadores los c lculos la l gica y las matem ticas hasta una breve historia de los lenguajes de programaci n y programaci n b sica de algoritmos Este libro va a mostrar con realizar aplicaciones para iPhone usando el IDE XCode y los lenguajes de programaci n Objective C y Swift

**Desarrollo de Aplicaciones IOS con SWIFT**

Enrique Blasco Blanquer,2016-05-03 Swift es el nuevo lenguaje de programaci n creado por Apple Mucho m s intuitivo que los anteriores permite dise ar apps para iOS Mac Apple TV y Apple Watch Se trata de un lenguaje pensado para los desarrolladores que nos proporciona m s libertad que nunca para plasmar nuestras ideas Con este manual aprender s todo lo necesario para desarrollar una aplicaci n con Swift conceptos b sicos de programaci n a crear proyectos para iOS que podr n ser ejecutados en un iPhone o iPad el protocolo de trabajo modelo vista controlador la creaci n de vistas utilizando listas SplitView TabBar Navigations constraints conexiones con bases de datos locales utilizando el Core Data y externas con el famoso lenguaje de programaci n PHP y servidores MAMP la utilizaci n de la c mara de los mapas del GPS de las localizaciones finalmente aprender s a subir la aplicaci n a la App Store El libro est pensado para aquellos que quieren dar el primer paso en el mundo de iOS y para quienes necesitan actualizarse al nuevo lenguaje Encontrar s ejemplos pr cticos completos para afianzar los conceptos te ricos paso a paso El objetivo del libro es que el lector encuentre una gu a completa

donde tendrás todo lo necesario para aprender de forma rápida y sencilla este fascinante mundo de iOS pensando que lo más importante es aprender a aprender ya que el mundo de la programación se encuentra en constante evolución y es de vital importancia comprender el funcionamiento y la tecnología a no memorizar mediante el famoso copiar y pegar. Con esfuerzo y dedicación podrás llegar a crear cosas alucinantes con Swift ya que es mucho más rápido y eficaz proporciona información en tiempo real y se integra perfectamente con el código escrito Objective C. Aprende a programar aplicaciones seguras ahorra tiempo y crea apps alucinantes

### **Programación en Objective-C con Xcode y GCC**

Miguel Ángel G. Arias, 2015-07-07

Objective C también llamado habitualmente como ObjC o menos frecuentemente Obj C es un lenguaje de programación reflexivo orientado a objetos que sigue la transmisión de mensajes en el estilo SmallTalk para C. Hoy día es utilizado principalmente en el Mac OS X que es un entorno basado en el OpenStep y es el principal lenguaje utilizado en las aplicaciones estructuradas NeXTSTEP OPENSTEP y Cocoa. Los programas genéricos en Objective C que no hacen uso de estas bibliotecas también pueden ser compilados por cualquier sistema soportado por gcc que incluye un compilador Objective C. La sintaxis de Objective C es una capa muy fina construida sobre el lenguaje de programación C y que constituye un superconjunto estricto de C. O sea es posible compilar cualquier programa desarrollado en C con un compilador Objective C. Objective C deriva su lenguaje tanto del C como del SmallTalk. La mayor parte de la sintaxis fue heredada del lenguaje de programación C mientras que la sintaxis para los aspectos orientados a objetos fueron creados para habilitar el paso de mensajes en el estilo SmallTalk. Toda la programación se realiza en el SDK de Objective C. Objective C también es un superconjunto de C lo que le permite escribir código en el lenguaje C tradicional. Objective C incorpora poderosas capacidades de orientación a objetos. Debido a su origen fuera de la norma de C, Objective C puede parecer un poco extraño a primera vista pero una vez que haya trabajado con él verá que es elegante y fácil de leer proporcionando numerosas mejoras al tradicional código ANSI C.

### *Core Data by Tutorials (Sixth Edition): Persisting iOS App Data with Core Data in Swift*

Aaron Douglas, Matthew Morey, Pietro Rea, 2019-11-25

Learn Core Data with Swift. Take control of your data in iOS apps using Core Data through a series of high quality hands on tutorials. Start with the basics like setting up your own Core Data Stack all the way to advanced topics like syncing with iCloud, migration, performance, multithreading and more. By the end of this book you'll have hands on experience with Core Data and will be ready to use it in your own apps. Who This Book Is For This book is for intermediate iOS developers who already know the basics of iOS and Swift development but want to learn how to use Core Data to save data in their apps. Topics Covered in Core Data by Tutorials Your First Core Data App You'll click File New Project and write a Core Data app from scratch. NSManagedObject Subclasses Learn how to create your own subclasses of NSManagedObject, the base data storage class in Core Data. The Core Data Stack Learn how the main objects in Core Data work together so you can move from the starter Xcode template to your own system. Intermediate Fetching This chapter covers how to fetch data with Core Data fetch requests, predicates, sorting and asynchronous fetching.

NSFetchedResultsController Learn how to make Core Data play nicely with table views using NSFetchedResultsController Versioning and Migration In this chapter you'll learn how to migrate your user's data as they upgrade through different versions of your data model Synchronize with iCloud Learn how to make your app's synchronize across devices using the power of iCloud Unit Tests In this chapter you'll learn how to set up a test environment for Core Data and see examples of how to test your models Measuring and Boosting Performance Learn how to measure your app's performance with various Xcode tools and deal with slow spots in your code Multiple Managed Object Contexts Learn how multiple managed object contexts can improve performance and make for cleaner code The iOS Tutorial Team takes pride in making sure each tutorial we write holds to the highest standards of quality We want our tutorials to be well written, easy to follow and fun And we don't want to just skim the surface of a subject we want to really dig into it so you can truly understand how it works and apply the knowledge directly in your own apps *Curso de Programación de Apps. Android y iPhone* Ángel Arias, 2016-04-15

El curso de Programación de Apps Android y iPhone es un curso en el que aprender a desarrollar aplicaciones para dispositivos móviles ya sean con el sistema operativo Android como dispositivos MAC El curso está estructurado en Fundamentos de Programación Fundamentos de Bases de Datos Programación para dispositivos Android Programación para dispositivos MAC Para enseñarle a programar en Android en este curso se ha empleado el IDE Eclipse Para enseñarle a programar para iPhone en este curso se ha empleado el IDE XCode Este curso tiene el objetivo de acercarle al mundo de la programación y dentro de este al mundo del desarrollo de aplicaciones para dispositivos móviles ya que aparentemente son el principal mercado de software a medio y largo plazo **Learning Core Data for iOS with Swift** Tim Roadley, 2016 *Core Data by Tutorials (Eighth Edition)* raywenderlich Tutorial Team, Aaron Douglas, Matthew Morey, Saul Morrow, Pietro Rea, 2020-11-20

Learn Core Data With Swift Take control of your data in iOS apps using Core Data through a series of high quality hands on tutorials Start with the basics like setting up your own Core Data Stack all the way to advanced topics like migration, performance, multithreading and more By the end of this book you'll have hands on experience with Core Data and will be ready to use it in your own apps Who This Book Is For This book is for intermediate iOS developers who already know the basics of iOS and Swift development but want to learn how to use Core Data to save data in their apps Topics Covered in Core Data by Tutorials Your First Core Data App You'll click File New Project and write a Core Data app from scratch NSManagedObject Subclasses Learn how to create your own subclasses of NSManagedObject the base data storage class in Core Data The Core Data Stack Learn how the main objects in Core Data work together so you can move from the starter Xcode template to your own system Intermediate Fetching This chapter covers how to fetch data with Core Data fetch requests, predicates, sorting and asynchronous fetching NSFetchedResultsController Learn how to make Core Data play nicely with table views using NSFetchedResultsController Versioning and Migration In this chapter you'll learn how to migrate your user's data as they upgrade through different versions of your data model Unit Tests In this chapter you'll learn how to set up a test environment

for Core Data and see examples of how to test your models Measuring and Boosting Performance Learn how to measure your app's performance with various Xcode tools and deal with slow spots in your code Multiple Managed Object Contexts Learn how multiple managed object contexts can improve performance and make for cleaner code Core Data and CloudKit Learn how to synchronize Core Data across all of a user's devices **Core Data in iOS 12** J.D Gauchat,2018-08-18 Learn how to use Core Data to create and manage a database for your iOS applications After reading this guide you will know how to create a database how to store search and retrieve information and how to migrate data from an old database to a new one Table of Contents CORE DATA Custom Object Graph Data Model Core Data Stack Managed Object Managing Objects Images Counting Objects Predicates Sort Descriptors Delete Objects Fetched Results Controller Sections Search Migration This guide assumes that you have a basic knowledge of app development Xcode and the Swift language You should also know how to create and display Table Views For a complete course on app development for iOS read our book iOS Apps for Masterminds This guide is a collection of excerpts from the book iOS Apps for Masterminds The information included in this guide will help you understand a particular aspect of app development in iOS but it will not teach you everything you need to know to develop an app for Apple devices If you need a complete course on app development for iOS read our book iOS Apps for Masterminds For more information visit our website at [www.formasterminds.com](http://www.formasterminds.com) **Core Data by Tutorials Fourth Edition** Aaron Douglas, Raywenderlich Com Team, Saul Mora, 2017-11-16 Learn Core Data with Swift Take control of your data in iOS apps using Core Data through a series of high quality hands on tutorials Start with the basics like setting up your own Core Data Stack all the way to advanced topics like syncing with iCloud migration performance multithreading and more By the end of this book you'll have hands on experience with Core Data and will be ready to use it in your own apps Who This Book Is For This book is for intermediate iOS developers who already know the basics of iOS and Swift development but want to learn how to use Core Data to save data in their apps Topics Covered in Core Data by Tutorials Your First Core Data App You'll click File New Project and write a Core Data app from scratch NSManagedObject Subclasses Learn how to create your own subclasses of NSManagedObject the base data storage class in Core Data The Core Data Stack Learn how the main objects in Core Data work together so you can move from the starter Xcode template to your own system Intermediate Fetching This chapter covers how to fetch data with Core Data fetch requests predicates sorting and asynchronous fetching NSFetchedResultsController Learn how to make Core Data play nicely with table views using NSFetchedResultsController Versioning and Migration In this chapter you'll learn how to migrate your user's data as they upgrade through different versions of your data model Unit Tests In this chapter you'll learn how to set up a test environment for Core Data and see examples of how to test your models Measuring and Boosting Performance Learn how to measure your app's performance with various Xcode tools and deal with slow spots in your code Multiple Managed Object Contexts Learn how multiple managed object contexts can improve performance and make for cleaner code **Core Data in Swift** Marcus S.

Zarra,2016-06-13 Core Data is intricate powerful and necessary Discover the powerful capabilities integrated into Core Data and how to use Core Data in your iOS and OS X projects All examples are current for OS X El Capitan iOS 9 and the latest release of Core Data All the code is written in Swift including numerous examples of how best to integrate Core Data with Apple s newest programming language Core Data expert Marcus Zarra walks you through a fully developed application based around the Core Data APIs You ll build on this application throughout the book learning key Core Data elements such as NSPredicate NSFetchedRequest thread management and memory management Start with the basics of Core Data and learn how to use it to develop your application Then delve deep into the API details Explore how to get Core Data integrated into your application properly and work with this flexible API to create convenience methods to improve your application s maintainability Reduce your migration difficulties integrate your Core Data app with iCloud and Watch Kit and use Core Data in a queue based environment By the end of the book you ll have built a full featured application gained a complete understanding of Core Data and learned how to integrate your application into the iPhone iPad platform This book is based on Core Data in Objective C Third Edition It focuses on Swift and adds an additional chapter on how to integrate Core Data with an efficient network implementation with best practices on how to load and pre load data into your Swift application

What You Need Mac OS X El Capitan and iOS 9 and a basic working knowledge of Swift **Core Data by Tutorials** Aaron Douglas,Saul Mora,Matthew Morey,2014-12-12 *Core Data for iOS* Tim Isted,Tom Harrington,2011-05-24 Today virtually every non trivial iPhone and iPad app must manage data quickly smoothly reliably and with minimal impact on the CPU to conserve battery life Core Data Apple s ready made data persistence layer can help you achieve all these goals In Core Data for iOS two leading iOS developers teach you the entire Core Data framework from the ground up Writing for intermediate to advanced iOS developers Tim Isted and Tom Harrington thoroughly explain how Core Data is used on iOS devices introduce each of its primary classes and show how they interact to provide amazing functionality with minimal configuration You ll learn how to store fetch and validate data provide it efficiently to views and much more Isted and Harrington first give you a firm grounding in the technology and then present real world examples They present multiple sample projects as well as a start to finish chapter length case study Coverage includes Understanding Core Data s features classes and interactions Using Core Data in MVC based iOS app development Mapping relational data to object models and building them with Xcode 4 s Data Modeler Working with managed objects and using UITableView to display them Creating predicates to match numbers data and objects Maintaining compatibility across versions of an app s data model Tracking managed object contexts across view controllers Using Core Data s automatic Undo functionality Integrating abstract entities entity inheritance and multiple view controllers into a complete app Optimizing for iOS devices tight memory limits Diagnosing and fixing common Core Data problems Introducing Addison Wesley s new Core Frameworks Series written for experienced iOS developers by world class Mac and iOS developers these are the first comprehensive code rich reference guides to Apple s

Core Frameworks    **Core Data by Tutorials Second Edition** Raywenderlich Com Team,Aaron Douglas,Saul Mora,2016-04-12 Updated for Xcode 7 3 and Swift 2 2 Learn Core Data with Swift Take control of your data in iOS apps using Core Data through a series of high quality hands on tutorials Start with with the basics like setting up your own Core Data Stack all the way to advanced topics like syncing with iCloud migration performance multithreading and more By the end of this book you ll have hands on experience with Core Data and will be ready to use it in your own apps Who This Book Is For This book is for intermediate iOS developers who already know the basics of iOS and Swift development but want to learn how to use Core Data to save data in their apps Topics Covered in Core Data by Tutorials Your First Core Data App You ll click File New Project and write a Core Data app from scratch NSManagedObject Subclasses Learn how to create your own subclasses of NSManagedObject the base data storage class in Core Data The Core Data Stack Learn how the main objects in Core Data work together so you can move from the starter Xcode template to your own system Intermediate Fetching This chapter covers how to fetch data with Core Data fetch requests predicates sorting and asynchronous fetching NSFetchedResultsController Learn how to make Core Data play nicely with table views using NSFetchedResultsController Versioning and Migration In this chapter you ll learn how to migrate your user s data as they upgrade through different versions of your data model Synchronize with iCloud Learn how to make your apps synchronize across devices using the power of iCloud Unit Tests In this chapter you ll learn how to set up a test environment for Core Data and see examples of how to test your models Measuring and Boosting Performance Learn how to measure your app s performance with various Xcode tools and deal with slow spots in your code Multiple Managed Object Contexts Learn how multiple managed object contexts can improve performance and make for cleaner code The iOS Tutorial Team takes pride in making sure each tutorial we write holds to the highest standards of quality We want our tutorials to be well written easy to follow and fun And we don t want to just skim the surface of a subject we want to really dig into it so you can truly understand how it works and apply the knowledge directly in your own apps    *Core Data in iOS 11* JD Gauchat,2018-01-02 Learn how to use Core Data to create an manage a database for your iOS applications After reading this guide you will know how to create a database how to store search and retrieve information and how to migrate data from an old database to a new one Table of Contents CORE DATA Object Graph Data Model Core Data Stack Managed Object Managing Objects Counting Objects Predicates Sort Descriptors Delete Objects Fetched Results Controller Sections Search Migration QUICK REFERENCE NSPersistentContainer NSManagedObject NSManagedObjectContext NSManagedObject NSFetchedRequest NSPredicate NSSortDescriptor NSFetchedResultsController NSFetchedResultsControllerDelegate NSFetchedResultsSectionInfo This guide assumes that you have a basic knowledge of app development Xcode and the Swift language You should also know how to create and display Table Views If you don t know how to program in Swift how to work with Table Views or how to create an application with Xcode download our guides Introduction to Swift Table Views and Collection Views and Interface Builder For a complete

course on app development for iOS read our book iOS Apps for Masterminds This guide is a collection of excerpts from the book iOS Apps for Masterminds The information included in this guide will help you understand a particular aspect of app development in iOS but it will not teach you everything you need to know to develop an app for Apple devices If you need a complete course on app development for iOS read our book iOS Apps for Masterminds For more information visit our website at [www.formasterminds.com](http://www.formasterminds.com) [Core Data by Tutorials](#) Aaron Douglas,Saul Mora,Matthew Morey,2015-05-11 Updated for Swift 1.2 Learn Core Data with Swift Take control of your data in iOS apps using Core Data through a series of high quality hands on tutorials Start with the basics like setting up your own Core Data Stack all the way to advanced topics like syncing with iCloud migration performance multithreading and more By the end of this book you'll have hands on experience with Core Data and will be ready to use it in your own apps Who This Book Is For This book is for intermediate iOS developers who already know the basics of iOS and Swift development but want to learn how to use Core Data to save data in their apps Topics Covered in Core Data by Tutorials Your First Core Data App You'll click File New Project and write a Core Data app from scratch NSManagedObject Subclasses Learn how to create your own subclasses of NSManagedObject the base data storage class in Core Data The Core Data Stack Learn how the main objects in Core Data work together so you can move from the starter Xcode template to your own system Intermediate Fetching This chapter covers how to fetch data with Core Data fetch requests predicates sorting and asynchronous fetching NSFetchedResultsController Learn how to make Core Data play nicely with table views using NSFetchedResultsController Versioning and Migration In this chapter you'll learn how to migrate your user's data as they upgrade through different versions of your data model with iCloud Learn how to make your apps synchronize across devices using the power of iCloud Unit Tests In this chapter you'll learn how to set up a test environment for Core Data and see examples of how to test your models Measuring and Boosting Performance Learn how to measure your app's performance with various Xcode tools and deal with slow spots in your code Multiple Managed Object Contexts Learn how multiple managed object contexts can improve performance and make for cleaner code The iOS Tutorial Team takes pride in making sure each tutorial we write holds to the highest standards of quality We want our tutorials to be well written easy to follow and fun And we don't want to just skim the surface of a subject we want to really dig into it so you can truly understand how it works and apply the knowledge directly in your own apps [Learning Core Data for iOS](#) Tim Roadley,2013-11-01 Get Started Fast with iOS 7 Core Data App Development Covers iOS 7 and Xcode 5 This is the first Core Data book to fully reflect Apple's latest platform innovations including its dramatic recent improvements to iCloud support Hands on from start to finish it teaches you step by step as you create a modern data driven iOS app using Storyboards ARC iOS 7 and Xcode 5 Tim Roadley introduces new patterns and best practices designed to overcome the frustrations of Core Data development One step at a time you'll build and extend your skills even mastering advanced techniques such as complex model migration deep copy background processing and integration with Dropbox StackMob and

iCloud Downloadable versions of this book's main project are provided with each chapter so you can see exactly what your app project should look like and get cookbook style code for your own projects Chapter exercises help you explore even further whether you're a self learner or a student in an iOS development course If you're an experienced iOS developer this guide brings together all the skills tools code and patterns you need to add powerful data management capabilities to any app quickly easily and painlessly Coverage includes the following Understanding Core Data Adding Core Data to an existing project Designing upgrading and migrating data models automatically and manually with progress indication Populating views with data including table views and picker views Preloading a default data persistent store from XML Deep copying from one persistent store to another Performance tuning with Instruments using large photos as the example Background processing using thumbnail generation as the example Efficient search Seamlessly backing up and restoring with Dropbox Stable integration with iCloud with full support for multiple accounts seeding and de duplication Web service integration with StackMob

**Learning Core Data for iOS with Swift** Tim Roadley, 2015-12-07 Get Started Fast with Core Data App Development Using iOS 9 Swift and Xcode 7 Core Data is a remarkably mature stable and fast platform for data access and Swift is a world class language for applying it Now there's a complete guide to using Core Data and Swift together in production apps Tim Roadley shows you how to gain the benefits of a relational database without writing SQL queries so you can get more done faster with less coding This book fully reflects Apple's latest iOS 9 platform innovations and teaches Core Data entirely with Swift examples It guides you step by step through creating a modern data driven iOS app that fully integrates iCloud via CloudKit for public data sharing Roadley introduces up to date patterns and best practices designed to overcome the frustrations of Core Data development Each chapter builds on the last introducing new topics in the order you'll implement them and extending your skills simply and intuitively Each chapter offers downloadable project code along with exercises to help you explore even further either as a self learner or a student in an iOS development course Roadley even shows how to build helper classes that simplify reuse of his example code If you're an experienced iOS developer here are all the Swift skills and resources you need to integrate data into any app quickly easily and painlessly Coverage includes Understanding what Core Data is and what it can and can't do Configuring basic managed object models and choosing data types Expanding data models without introducing errors Using relationships and entity inheritance to unlock more power Delivering memory efficient high performance table views Enabling users to easily modify managed object attributes Generating persistent stores of preloaded default data Using Deep Copy to copy objects and relationships between persistent stores Optimizing performance by eliminating bottlenecks and offloading intensive tasks to the background Implementing efficient search Integrating diverse iCloud accounts and preferences Mastering advanced iCloud integration including entity level seeding and unique object de dupe Leveraging public CloudKit databases to sync data across users with different iCloud accounts About the Website All code samples are available for download at [timroadley.com](http://timroadley.com) [informit.com/learningseries](http://informit.com/learningseries)

timroadley.com **Core Data** Florian Kugler,Daniel Eggert,2015-12-08 Core Data best practices by example from simple persistency to multithreading and syncing This book strives to give you clear guidelines for how to get the most out of Core Data while avoiding the pitfalls of this flexible and powerful framework We start with a simple example app and extend it step by step as we talk about relationships advanced data types concurrency syncing and many other topics Later on we go well beyond what s needed for the basic example app We ll discuss in depth how Core Data works behind the scenes how to get great performance the trade offs between different Core Data setups and how to debug and profile your Core Data code All code samples in this book are written in Swift We show how you can leverage Swift s language features to write elegant and safe Core Data code We expect that you re already familiar with Swift and iOS but both newcomers and experienced Core Data developers will find a trove of applicable information and useful patterns [Core Data](#) Florian Kugler,Daniel Eggert,2017-11-13 Core Data best practices by example from simple persistency to multithreading and syncing This book strives to give you clear guidelines for how to get the most out of Core Data while avoiding the pitfalls of this flexible and powerful framework We start with a simple example app and extend it step by step as we talk about relationships advanced data types concurrency syncing and many other topics Later on we go well beyond what s needed for the basic example app We ll discuss in depth how Core Data works behind the scenes how to get great performance the trade offs between different Core Data setups and how to debug and profile your Core Data code All code samples in this book are written in Swift We show how you can leverage Swift s language features to write elegant and safe Core Data code We expect that you re already familiar with Swift and iOS but both newcomers and experienced Core Data developers will find a trove of applicable information and useful patterns

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## **Core Data Para Ios Programacion Introduction**

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