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## ios-starter-kit

A starter kit for those interested in iOS programming

### Swift

- Arrays
- Dictionary Grouping
- Async
- Actor
- Enums
- Computed Properties
- DateFormatter
- Protocols
  - Protocol Oriented Programming
  - Protocol based inheritance
  - Protocols & Delegates
  - Protocols & Generics
  - Protocols & Unit Testing
- Closures
- Completion Blocks
- Generics
- Extensions & Protocols
- Structs, Enums, and Classes
- Properties
- Optionals
- Numbers
- Tuples
- If vs Guard Clauses
- Error handling
- Structs-vs-Classes

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- API Design
  - Markdown
  - Defer
  - Singletons
  - Automatic Reference Counting
  - Access Control
  - Private typed Class
  - Initializers
  - Map, filter, reduce
  - Inheritance
  - NotificationCenter
  - Strings
  - Idioms
  - DynamicCallable
  - Result

## **Basics**

- SFSymbols
- Radio Button
- Nibs
- Animations
- UIViewController
- UISheetPresentationController
- UISheetPresentationController - Native
- DynamicFont
- Color
- CoreGraphics
- Networking
- Shadows
- UIStackView
  - Distribution & Alignment
  - Layout Patterns
- UILabel
- UIImageView
- UIImage
- UIImagePickerController

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- UITextField
  - UIAlertController
  - UIProgressView
  - UISegmentedControl
  - UIScrollView
  - UINavigationController
  - NSUserDefaults
  - NSCoder
  - UICollectionView
  - UIPageViewController
  - UITextView
  - UIButton
  - UISwitch
  - UIModal
  - UITapGestureRecognizer
  - UIPanGestureRecognizer - Moving Block
  - UIStatusBar
  - UIRefreshControl
  - Margins & Layout Guides
  - Factory UI Methods
  - WebViews
  - UIView
  - UIVisualEffectView
  - UIPickerView
  - Swipe Gestures
  - UITabBarController
  - Frame vs Bounds
  - CoreData
  - Xibs
  - NSAttributedString
  - ContextMenus
  - Higher Order Functions
  - PDFs

## **UITableView**

- UITableView
- UITableView Full Header Footer In Section

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- UITableViewCell
  - UITableViewCellsAndTypes
  - Drag and Drop

## **SpriteKit**

- Basics

## **Advanced**

- Views vs ViewControllers
- MVVM
- MVP
- Guiding Principles
- Datasource Pattern
- Object Oriented
- CHCR Content Hugging and Compression Resistance
- Responder Chain
- Performance
- DispatchGroup

## **Autolayout**

- Cheat Sheat
- Basics
- How to set identifier on view
- Image label in a stackview
- Centering and alignment
- IntrinsicContentSize
- Breakable Constraints
- How to resize image

## **Testing**

- Unit testing
- Misc
- Mocking

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- Protocols and parameterization
  - How to test notifications
  - How to test for specific error
  - How to test via callbacks
  - How to test ViewControllers
  - How to test Responder Chain
  - How to load JSON test file
  - XCUITest

## **Animations**

- Core Animation
- ButtonSlider
- Basic Animation
- Chained Animations
- Basic Animation Curves
- How tos
- Interactive Animations
- UIViewControllerTransitioningDelegate
- Left/Right Swipe Add/Remove ViewController
- Left/Right Swipe with PageController

## **How tos**

- Sinatra
- How to load JSON from bundle
- How to app time inactivity
- Add SwiftUI Preview
- Generic How Tos
- Key-Value Observing (KVO) / Key-Value Coding (KVC)
- No storyboards
- Commonly used code
- Enable single touch in Xcode simulator for recording animated gifs
- Setup Charles proxy
- See device logs
- Delete provisioning files
- Hex RGB Conversion

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- Refactor computed properties
  - Hyperlink text opening a modal ViewController
  - Loading Page
  - Spacer Views
  - LinkConditioner
  - iOS11 version
  - Pretty print json
  - Get back on the main thread
  - Create init constructor
  - How to change Xcode simulator runtime
  - Clear derived data
  - How to view crash logs for devices in production
  - Round corners on an UIImageView
  - Style button with image and text
  - Alamofire JSON
  - How to adjust view when keyboard present
  - How to turn off debug console
  - How to dispatch main queue
  - How to setup Vapor
  - How to Rails iOS
  - How to add identifier to tag or view
  - How to work with pdfs
  - How to add a circle to a UIView
  - How to setup a feature flag via environment variable
  - How to curl alamofire
  - How to calculate height of label
  - Add corner and shadow to view
  - How to Xcode command line
  - TPKeyboardAvoiding
  - How to create AppIcon

## **Trouble Shooting**

- App installation

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## **Cocoapods / Libraries**

- Setup
- Chameleon
- AlamoFire
- SwiftJSON
- SDWebImage
- Lottie animations

## **Handy links**

- OSStatus
- Google Style Guide
- Interview Questions
- Xcode download
- Markdown
- Good git commit guidelines
- Xcode build configuration files
- Curl