

# iOS Developer

## The Fundamentals

## Core Programming Concepts

## Version Control

## App Components

## SwiftUI

## Simple UI Building

## Reactive Programming

## Patterns and Techniques

## Storage

## Concurrency and Multithreading

## Frameworks & Library

## Linting

## Debugging Techniques

## CI / CD

## FastLane

## Continuous Learning

Find the interactive version of this roadmap and other similar roadmaps

roadmap.sh

Interoperability with Swift

Objective-C Basics

Objective-C

Swift (Recommended)

History and Why Swift?

Benefits over Objective-C

Swift Basics

OOP

Functional Programming

Memory Management

ViewController Lifecycle

Error Handling

Concurrency (GCD, async/await)

— UI Kit Basics —

Components

Views

View Controllers

User Interactions

— Building Simple UIs —

Basic Interfaces

Storyboards

Xibs

Navigation

View Transitions

## Interfaces and Navigation

HIG

UI Design

UIKit

Views, View Controllers

Navigation Controllers, Segues

Navigation Stacks

Pushing Presenting

Modals and Navigation

Combine

Publishers / Subscribers

Operators & Pipelines

Combine and MVVM

RxSwift

Observables & observers

Subjects

Operators

Schedulers

RxSwift with MVVM

Data Persistence

Core Data

User Defaults

Keychain

File System

SQLite

JSON / XML

Parsing

Serializing

Asynchronism

Networking

HTTP / HTTPs

REST

GraphQL

URLSession

Alamofire

Accessibility Inspector

Voice Over

Dynamic Type

Accessibility

Common Services

Frameworks

ARKit

HealthKit

GameKit

MapKit

Core ML

Unit & UI Testing

XCTest

XCUITest

Test Plan & Coverage

Testing

App Distribution

App Store Distribution

TestFlight

FastLane

App Store Optimization (ASO)

Keeping Updated with WWDC

Latest Swift Version

Latest iOS SDK

New Feature Announcements

Have a look at the following relevant tracks

Android

Flutter

React Native

Special thanks to Dennis who helped publish the initial version of this roadmap.

Visit his LinkedIn

Core OS

Core Services

Cocoa Touch

iOS Architecture

Media

Core Graphics

Core Animation

AVFoundation

Core Image

Core Audio

Metal

Git

GitHub

Version Control

Setting Up

Installing

Preferences

New Project

Xcode

Navigating

Interface overview

Toolbar

Navigators

Editors

Project Files

Groups

Debugger

Breakpoints

Debug Navigator

Stepping

Interface Builder

Interface Builder

IBOutlets

IBActions

Auto layout

Lottie

Basics / Creating Animations

Core Animation

SwiftUI

Design Architecture

Architectural Patterns

MVC

MVP

MVVM

MVVM-C

TCA

VIPER

Implementing Delegates

Delegate Pattern

Callbacks

Closures

Understanding and using Closures

Capturing Values & Memory Mgmt.

Callback Hell

Async / Await

Concurrency

CocoaPods

Carthage

Swift Package Manager

Dependency Manager

SwiftLint

Tailor

SwiftFormat

Code Quality Tools

Debugging

Xcode Debugger

Profiling Instruments

Jenkins

CircleCI

GitHub Actions

GitLab

Azure DevOps

CI / CD

Accessibility

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