

SWIFT



SWIFTS ARE THE FASTEST OF BIRDS. LARGER SPECIES ARE AMONGST THE FASTEST FLIERS IN THE ANIMAL KINGDOM, WITH THE **WHITE-THROATED NEEDLETAIL** HAVING BEEN REPORTED FLYING AT UP TO 169 KM/H (105 MPH). EVEN THE **COMMON SWIFT** CAN CRUISE AT A MAXIMUM SPEED OF 31 **METRES PER SECOND** (112 KM/H; 70 MPH). IN A SINGLE YEAR THE COMMON SWIFT CAN COVER AT LEAST 200,000 KM. [HTTPS://EN.WIKIPEDIA.ORG/WIKI/SWIFT](https://en.wikipedia.org/wiki/Swift)



LENGUAJE DE PROGRAMACIÓN

SWIFT

Swift is a **general-purpose** programming language built using a modern approach to safety, performance, and **software design patterns**.

The goal of the Swift project is to create the best available language **for uses ranging from systems programming, to mobile and desktop apps, scaling up to cloud services**. Most importantly, Swift is designed to make writing and maintaining *correct* programs easier for the developer.

swift programming language creator: Chris Lattner

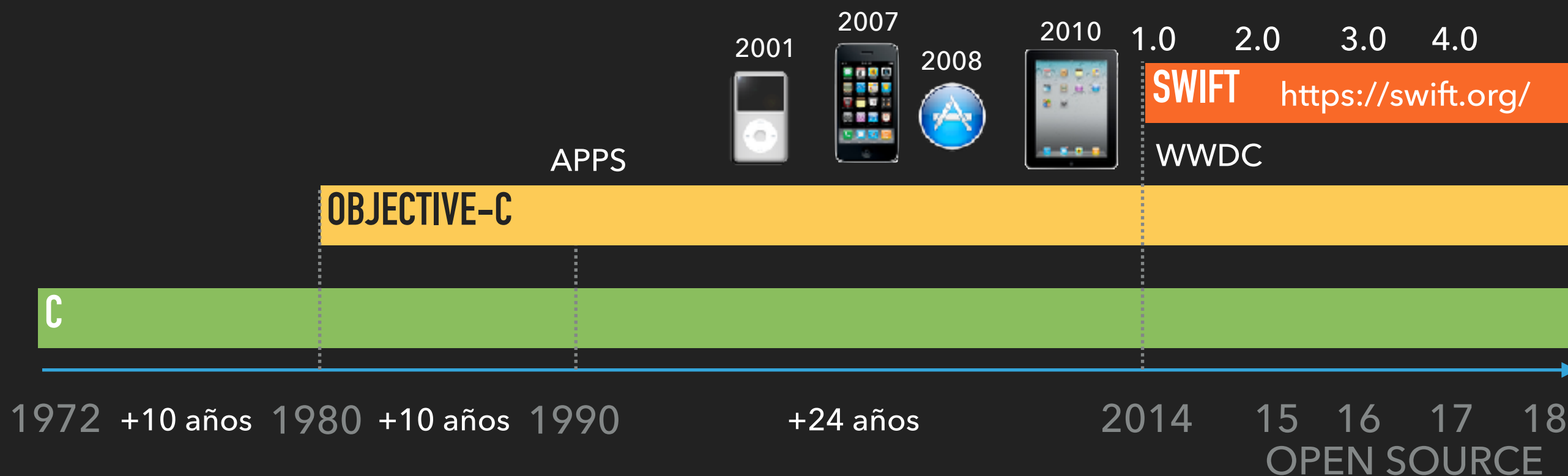
WORK WITH

COCOA IS APPLE'S NATIVE OBJECT-ORIENTED APPLICATION PROGRAMMING INTERFACE (API) FOR THEIR OPERATING SYSTEM MACOS

COCOA CONSISTS OF THE FOUNDATION KIT, APPLICATION KIT, AND CORE DATA FRAMEWORKS, AS INCLUDED BY THE `COCOA.H` HEADER FILE, AND THE LIBRARIES AND FRAMEWORKS INCLUDED BY THOSE, SUCH AS THE C STANDARD LIBRARY AND THE OBJECTIVE-C RUNTIME

FOR IOS, TVOS, AND WATCHOS, A SIMILAR API EXISTS, NAMED COCOA TOUCH, WHICH INCLUDES GESTURE RECOGNITION, ANIMATION, AND A DIFFERENT SET OF GRAPHICAL CONTROL ELEMENTS. IT IS USED IN APPLICATIONS FOR APPLE DEVICES SUCH AS IPHONE, IPAD, IPOD TOUCH, APPLE TV, AND APPLE WATCH.

HISTORIA



UN LENGUAJE MODERNO

- ▶ OBJETIVO: SEGURO, RAPIDO Y CLARO
- ▶ CARACTERÍSTICAS
 - ▶ OPEN SOURCE
 - ▶ SINTAXIS CLARA
 - ▶ INFERENCIA DE TIPOS
 - ▶ ESCRIBIR CÓDIGO CON SEGURIDAD
 - ▶ CONTEO DE REFERENCIA AUTOMÁTICO
 - ▶ TUPLAS Y MÚLTIPLES VALORES DE RETORNO
 - ▶ GENÉRICOS





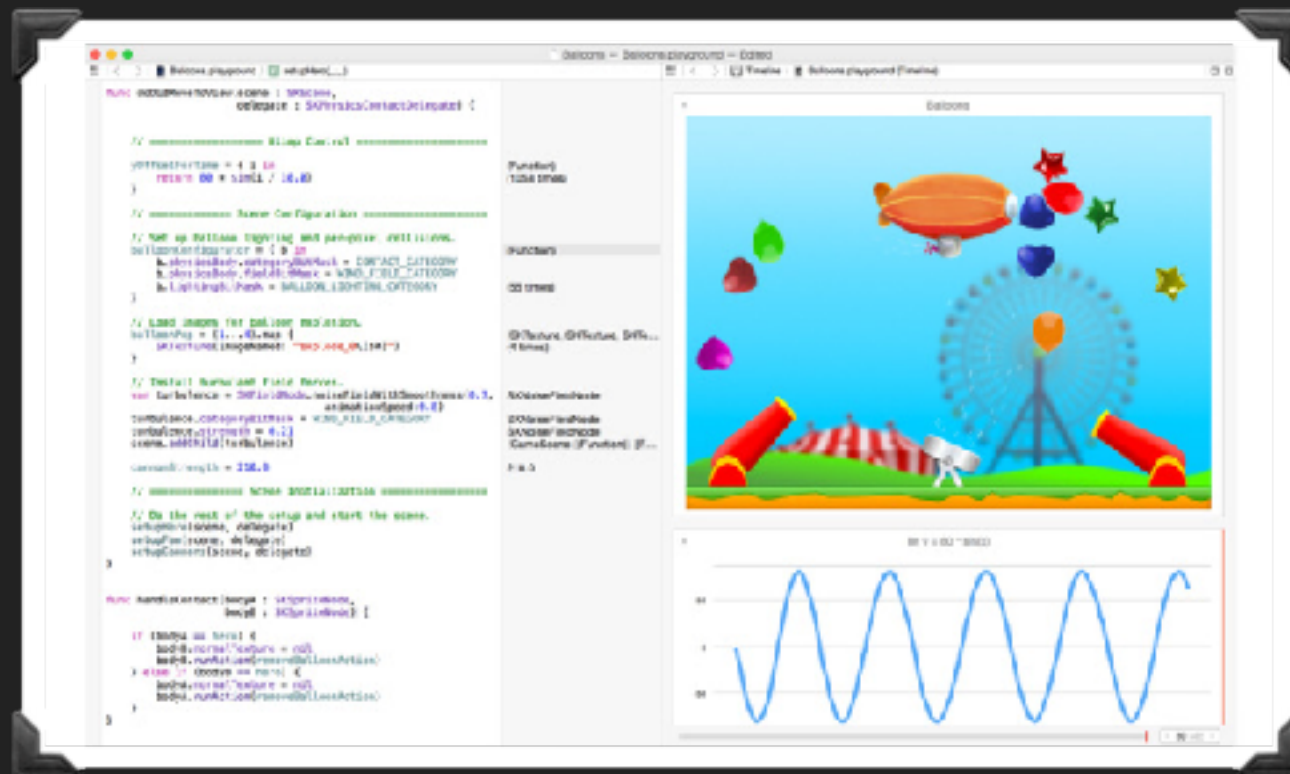
UN LENGUAJE MODERNO

- ▶ ITERACIÓN FÁCIL SOBRE COLECCIONES
- ▶ ESTRUCTURAS CON METODOS, EXTENSIONES Y PROTOCOLOS
- ▶ PATRONES FUNCIONALES. EJ. MAP, FILTROS, REDUCIR
- ▶ MANEJO DE ERRORES Y DE CONTROL DE FLUJO AVANZADO
- ▶ OPCIONALES
- ▶ CLOSURES

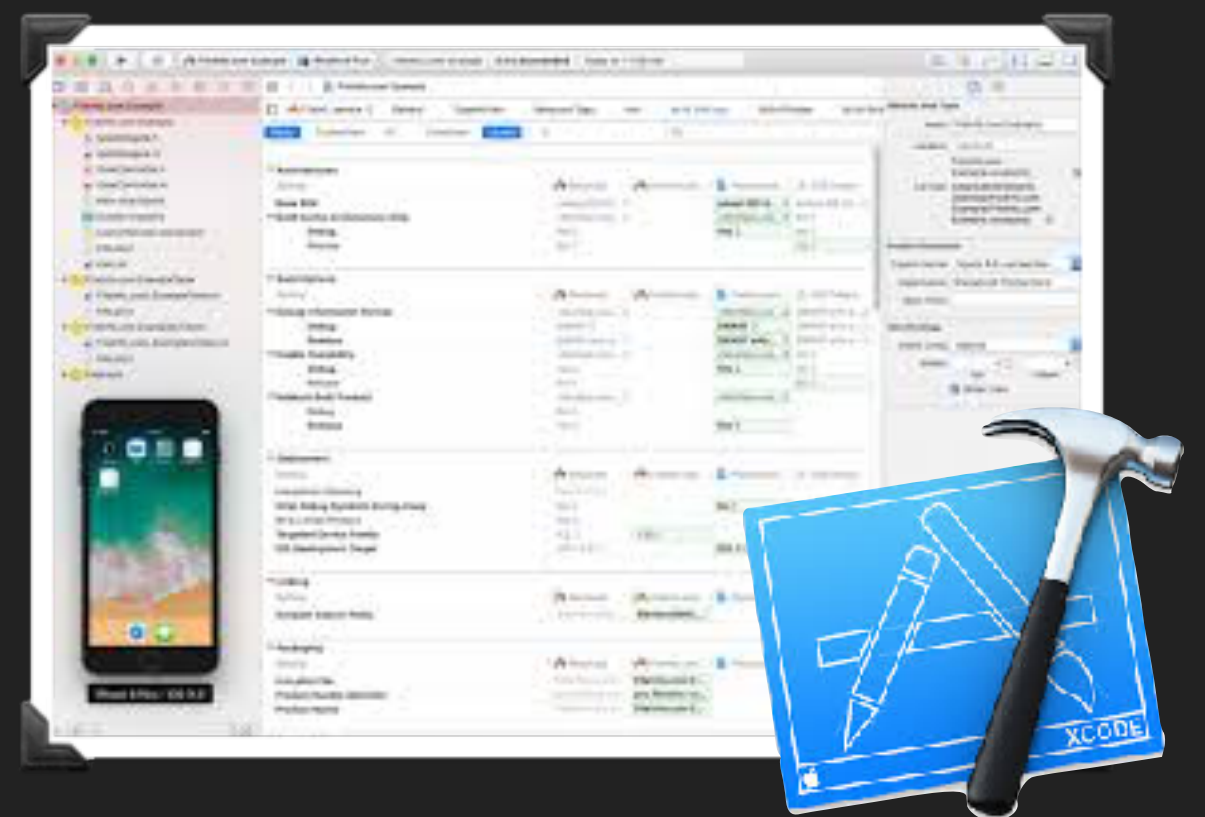
ENTORNOS DE DESARROLLO



Swift Playground



Playground



XCode 9.X