Programming in Swift:

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This is part of the "iOS and Swift for Beginners" learning path. View Path

Learn about Apple's open source programming language, Swift,

Sep 24 2019 · Video Course (4 hrs, 4 mins) · Beginner

Fundamentals

through hands-on examples! Take a deep dive into the Swift language, learning about core Swift concepts like loops, collections, types, optionals, functions, classes, and more.

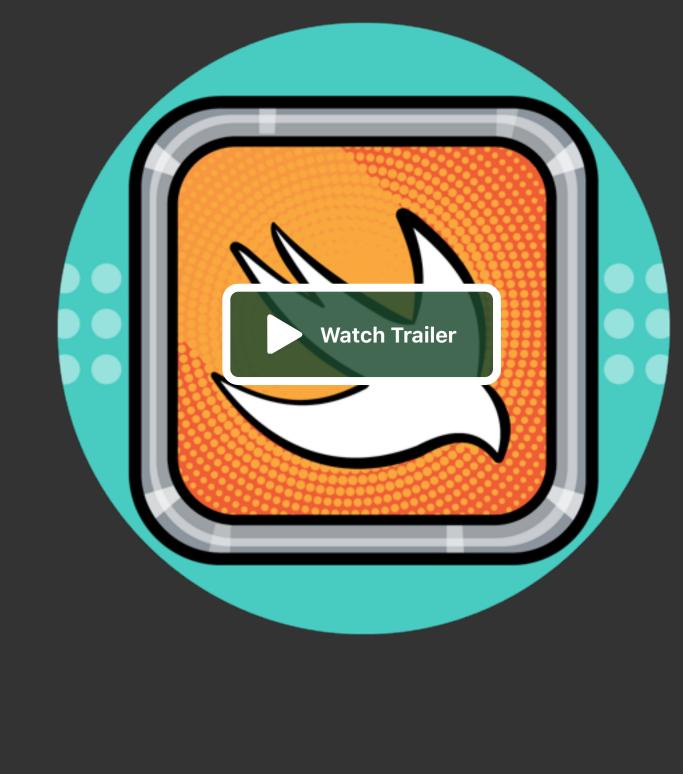
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Version

Swift 5.1, iOS 13, Xcode 11

Getting Started Language



Welcome to Programming in Swift! Let's go over what you'll be learning in this course, and why it's important.

Booleans.

Core Concepts

Introduction 3:52

Swift Playgrounds & Comments 8:34 Learn how to create your first Swift playground, what all the various bits are in

iOS & Swift Tutorials

playgorunds, and how comments work. **Booleans & Comparison Operators** 10:12

Learn how to use a Swift type called Booleans, which represent true or false values.

Challenge: Booleans 1:04

Practice using booleans on your own, through a series of hands-on challenges. **Logical Operators** 15:37

Challenge: Logical Operators 3:42 Practice using logical operators on your own, through a hands-on challenge.

Learn how to use various logical and comparison operators in Swift to create

Learn about one of the most important aspects of Swift development - optionals and how to unwrap, force unwrap, and bind optionals.

Optionals 11:41

Challenge: Optionals 3:20

started!

Conclusion 1:50 Let's review where you are with your Swift core concepts, and discuss what's next.

Challenge time! In this episode you'll practice using optionals on your own. Let's get

Tuples 6:04

Introduction 1:04

Beginning Collections

Learn to group related data together into a single unit, through the power of a Swift type called Tuples.

Arrays 5:13

Challenge: Arrays 5:15

Conclusion 0:59

Introduction 1:15

Challenge: Tuples 5:05

Challenge time! In this episode you'll practice using tuples on your own. Let's dive in!

Let's review what you'll be learning in this section, and why it's important.

Operating on Arrays 10:06

See how to manipulate arrays with their built-in methods.

Learn how to use arrays in Swift to store an ordered list of values.

Practice using arrays on your own, through a hands-on challenge.

Let's review where you are with your Swift core concepts, and discuss what's next.

While Loops 6:31

Control Flow

while loops, and break statements.

Challenge: While Loops 7:09 Practice using while loops on your own, through a hands-on challenges.

Let's review what you'll be learning in this section, and why it's important.

Learn how to make Swift repeat your code multiple times with while loops, repeat

Learn how to use for loops in Swift, along with ranges, continue, and labeled statements.

For Loops 10:09

Challenge: For Loops 4:29

Challenge: Iterating Collections 3:04

Iterating Collections 6:01

Learn how to use your existing knowledge of for loops to iterate over collections.

Practice iterating over collections using loops on your own, through a hands-on

Practice using for loops on your own, through a hands-on challenge.

challenges. **Nested Loops and Early Exit** 11:31

own, through a hands-on challenge.

when you need to.

Challenge: Nested Loops and Early Exit 5:19 Practice working with nested loops and the break and continue statements on your

Let's review where you are with your Swift core concepts, and discuss what's next.

Learn how to nest one loop inside another, and even terminate a loop early if and

More Collections

Introduction 1:09

Conclusion 1:18

Creating and Populating Dictionaries 6:24 Learn how to create and populate Dictionaries, a useful collection in Swift.

See how to access the contents of dictionaries and manipulate dictionaries.

Learn how to create sets, , how to populate them with data and retrieve that data,

Accessing and Working with Dictionaries 7:17

Challenge: Dictionaries 5:10

Let's review what you'll be learning in this section, and why it's important.

Practice using dictionaries on your own, through a hands-on challenge. **Working with Sets** 8:02

and how to compare sets to each other with their built-in methods. Challenge: Sets 4:39

Practice using sets on your own, through a hands-on challenge.

Let's review what you learned in this section, and discuss what's next.

Functions and Named Types

Introduction to Functions 11:33

Challenge: Functions 5:04

Challenge: Structures 5:32

Conclusion 1:16

Introduction 3:24 Let's review what you'll be learning in this section, and why it's important.

Learn how to write your own functions in Swift, and see for yourself how Swift

See how the "return" keyword is used in Swift, and when it's required and when it's

makes them easy to use. **Functions and Return** 9:16

optional.

methods.

Practice writing functions on your own, through a hands-on challenge. Structures 10:22

Learn how structures work, and all about their properties and methods.

Learn when it's best to use computed properties, and when it's best to use

Classes 9:32

extensions, and more.

Conclusion 2:43

Challenge: Classes 2:42 Practice writing classes on your own, through a hands-on challenge.

Let's review what you learned in this section, and discuss what's next for you in this

learning path.

Apple tech in collaboration with her wrangle or a paragraph to ponder, he's on husband, <u>Jessy</u>! She is inspired by everyone the... at... INSTRUCTOR MATERIALS AUTHOR

Katie Collins

✓ Booleans Operators ✓ For loops

✓ While loops

✓ Enumerations

Arrays

Dictionaries

✓ Protocols

Methods

Closures

ways to level-up your developer skills!

Covered concepts

✓ Tuples

✓ Functionals

✓ Structures **✓** Properties

✓ Initializers Memory management

with ease.

Who is this for?

booleans, and operators. Then, you'll learn to control the flow of your code. For loops, switch statements, enums, oh my! You'll build on the basics by implementing functionals and optionals through fun, hands-on challenges. This course isn't suited for intermediate or advanced developers. If that's you, check out our intermediate or advanced video courses for more

Beginners! If you've never created a playground

break statements are, this is a great course to get

you started. With easy-to-understand lessons and

hands-on practice, soon you'll be writing your own

methods and implementing structures and classes

You'll start at the very beginning, creating your first

playground and learning about comments, tuples,

before, or if you aren't sure what while loops or

give you a solid grounding for your Swift adventures. Here are some of the concepts you'll conquer along the way: ✓ Playgrounds Comments

This course is jam-packed with the fundamentals to

✓ Optionals **✓** Collections

Classes/Subclasses

Take a deep dive into methods, including writing initializers, mutating methods,

Catie Catterwaul

Catie makes things for, with, and about

Chris Belanger Chris Belanger is the Editor-in-Chief of raywenderlich.com. If there are words to

Contributors

Katie is a video editor, podcast producer and Razeware's customer support lead. When not sat behind a screen she enjoys...

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