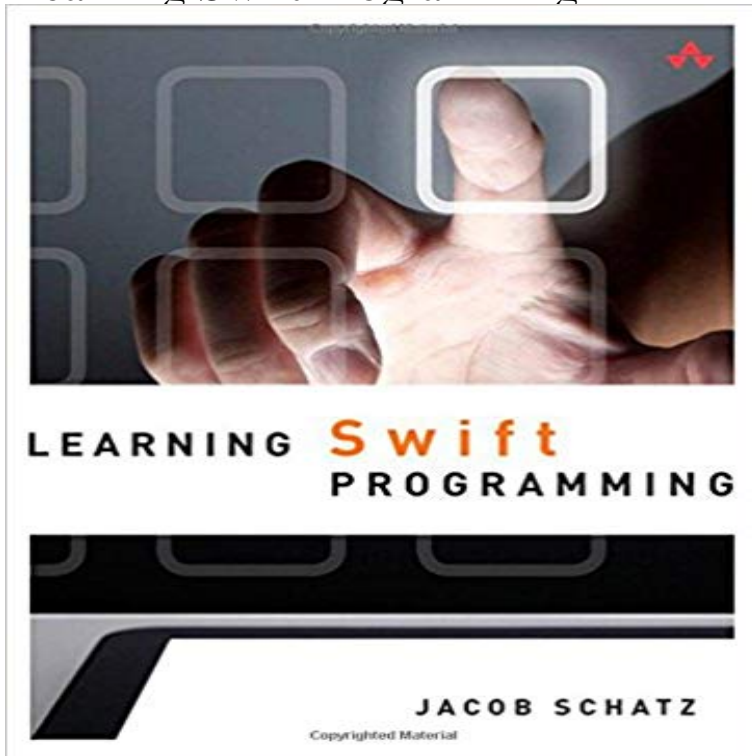


# Learning Swift Programming



Get started fast with Swift programming for iOS and OS X. Learning Swift Programming is a fast-paced, hands-on introduction to writing production-quality iOS and OS X apps with Apple's new programming language. Written for developers with previous experience in any other modern language, this book explains Swift simply and clearly, using relevant examples that solve realistic problems. Author Jacob Schatz's popular Skip Wilson video tutorials on YouTube have already helped thousands of Apple developers get started with Swift. Now, he helps you take full advantage of Swift's advanced design, remarkable performance, and streamlined development techniques. Step-by-step, you'll move from basic syntax through advanced features such as closures and generics, discovering helpful tips and tricks along the way. After you've mastered Swift's building blocks and learned about its key innovations, a full section of case studies walks you through building complete apps from scratch. Compare Swift with Objective-C, JavaScript, Python, Ruby, and C. Collect data with arrays and dictionaries, and store it with variables and constants. Group commonly-used code into functions for easy reuse. Structure your code with enums, structs, and classes. Use generics to get more done with less code. Write closures to share small blocks of functionality. Use optionals to write more robust, crash-resistant, and cleaner code. Integrate existing Objective-C code into new Swift apps. Program on the bit and byte level with advanced operators. Implement efficient design patterns with protocols and delegates. Create animated 2D games with SpriteKit, and 3D games with SceneKit.

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