## Contents

Preface About this book What's it like to build for tvOS? A note for iOS developers	6
Introduction: Swift for Complete Beginners  How to install Xcode and create a playground Variables and constants Types of Data Operators String interpolation Arrays Dictionaries Conditional statements Loops Switch case Functions Optionals Optionals Optional chaining Enumerations Structs Classes Properties Static properties and methods Access control Polymorphism and typecasting Closures	15
Wran un	

Project 1: Randomly Beautiful Setting up Designing a menu Creating a second view controller Fetching and parsing JSON Animating images Wrap up	100
Project 2: Flashlight Setting up Rows and columns with collection views Creating levels There are four lights! Wrap up	160
Project 3: Focus Setting up Moving diagonally Handling preferred focus Animation and debugging Wrap up	184
Project 4: TV News  Setting up  Designing a custom collection view  Adding a tab bar controller  Loading remote images  Formatted strings  Searching for stories  Wrap up	200
Project 5: Language Pairs Setting up	241

Designing our user interface Shuffling the deck Winning the game Wrap up

Project 6: Dark Mode Setting up Theme customization in IB Theme customization in code Wrap up	267
Project 7: Wikimaps	284
Setting up	
Introducing MapKit	
Structs vs classes Searching and sorting	
Dropping Wikipedia pins	
Wrap up	
Project 8: Blastazap	318
Setting up	
Cleaning Apple's template	
Building a menu Presenting a second scene	
Spaceship to the stars	
Introducing the enemies	
Shoot to win	
Detecting collisions Wrap up	
ννιαρ υρ	
Project 9: Top Shelf Extensions	382
Setting up	302
Top shelf extensions	

App graphics Wrap up

Project 10: Movieshopper	401
Setting up Up and running with TVMLKit A brief JavaScript primer Loading some movies Creating a scrolling catalog Viewing movie details Wrap up	
Project 11: BioBlitz Setting up Designing a basic interface Creating a random map Make your move! Spreading the infection Wrap up	439
Project 12: Storing files Setting up User defaults and iCloud On-demand resources Wrap up	477