

Contents

Preface	6
About this book	
Why does Kitura exist?	
A note for existing Swift developers	
Configuring your machine	
Introduction: Swift for Complete Beginners	21
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	
Optional chaining	
Enumerations	
Structs	
Classes	
Properties	
Static properties and methods	
Access control	
Polymorphism and typecasting	
Closures	
Wrap up	
Million Hairs	103
Setting up	
Swift packages explained	
Starting a server	
Routing user requests	
Writing HTML	
Matching custom routes	
Making it look good	

Wrap up

CouchDB Poll **141**

- Setting up
- CouchDB from scratch
- Designing a JSON API
- Bringing CouchDB and Kitura together
- Creating CouchDB documents
- Casting a vote
- Wrap up

Routing **180**

- Setting up
- Chaining routes
- Reading user data
- Codable routing
- Routing regular expressions
- Wrap up

Swift Fan Club **197**

- Setting up
- Listing forums
- Querying with a key
- Closures within closures
- Users and sessions
- Posting messages and replies
- Wrap up

Meme Machine **243**

- Setting up
- Reading files from disk
- Multi-part form encoding
- Wrap up

Templates **257**

- Setting up
- Recap on the basics
- Filters and tags
- Wrap up

Barkr **270**

- Setting up
- An SQL primer
- Integrating MySQL with Kitura
- Generating tokens
- Reading insert IDs
- Over to you: fuzzy search
- Wrap up

ASCII art **306**

- Setting up
- Updating pages interactively
- Reading remote images
- Wrap up

Databases **322**

- Setting up
- Indexing for performance
- Normalization for efficiency
- Referential integrity for organization
- Transactions for consistency
- Default values for safety
- Wrap up

Instant Coder **339**

- Setting up
- Say hello with GitHub
- Rendering the basic UI
- Creating new accounts
- Routing to success
- Creating new projects
- Finding places to work
- Wrap up

AppleFanatic **377**

- Setting up
- Bootstrapping our servers
- Fetching stories from a database
- IDs, slugs, and Markdown
- Stories and errors
- Browsing by category
- Creating an admin section
- Wrap up

Testing

Setting up

Bootstrapping XCTest

Testing our routes

Wrap up

430