# 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
# CouchDB Poll

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

**Wrap up**

---

# Routing

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

**Wrap up**

---

# Swift Fan Club

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

**Wrap up**

---

# Meme Machine

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

**Wrap up**

---

# Templates

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

**Wrap up**

---

# Barkr

**Wrap up**

---

---
Testing

Setting up
Bootstrapping XCTest
Testing our routes
Wrap up