You Don't Know JS: Async & Performance

Table of Contents

- Foreword
- Preface
- Chapter 1: Asynchrony: Now & Later
  - A Program In Chunks
  - Event Loop
  - Parallel Threading
  - Concurrency
  - Jobs
  - Statement Ordering
- Chapter 2: Callbacks
  - Continuations
  - Sequential Brain
  - Trust Issues
  - Trying To Save Callbacks
- Chapter 3: Promises
  - What is a Promise?
  - Thenable Duck-Typing
  - Promise Trust
  - Chain Flow
  - Error Handling
  - Promise Patterns
  - Promise API Recap
  - Promise Limitations
- Chapter 4: Generators
  - Breaking Run-to-completion
  - Generator'ing Values
  - Iterating Generators Asynchronously
  - Generators + Promises
  - Generator Delegation
  - Generator Concurrency
  - Thunks
  - Pre-ES6 Generators
- Chapter 5: Program Performance
  - Web Workers
  - SIMD
  - asm.js
- Chapter 6: Benchmarking & Tuning
  - Benchmarking
  - Context Is King
  - jsPerf.com
  - Writing Good Tests
  - Microperformance
  - Tail Call Optimization (TCO)
- Appendix A: *asynquence* Library
- Appendix B: Advanced Async Patterns

- Appendix C: Acknowledgments