

# You Don't Know JS Yet: Scope & Closures - 2nd Edition

---

## Table of Contents

---

- Foreword
- Preface
- Chapter 1: What's the Scope?
  - About This Book
  - Compiled vs. Interpreted
  - Compiling Code
  - Compiler Speak
  - Cheating: Run-Time Scope Modifications
  - Lexical Scope
- Chapter 2: Illustrating Lexical Scope
  - Marbles, and Buckets, and Bubbles... Oh My!
  - A Conversation Among Friends
  - Nested Scope
  - Continue the Conversation
- Chapter 3: The Scope Chain
  - "Lookup" Is (Mostly) Conceptual
  - Shadowing
  - Function Name Scope
  - Arrow Functions
  - Backing Out
- Chapter 4: Around the Global Scope
  - Why Global Scope?
  - Where Exactly is this Global Scope?
  - Global This
  - Globally Aware
- Chapter 5: The (Not So) Secret Lifecycle of Variables
  - When Can I Use a Variable?
  - Hoisting: Yet Another Metaphor
  - Re-declaration?
  - Uninitialized Variables (aka, TDZ)
  - Finally Initialized
- Chapter 6: Limiting Scope Exposure
  - Least Exposure
  - Hiding in Plain (Function) Scope
  - Scoping with Blocks
  - Function Declarations in Blocks
  - Blocked Over
- Chapter 7: Using Closures
  - See the Closure
  - The Closure Lifecycle and Garbage Collection (GC)
  - Why Closure?
  - An Alternative Perspective
  - Closer to Closure
- Chapter 8: The Module Pattern
  - Encapsulation and Least Exposure (POLE)
  - What is a Module?
  - Node CommonJS Modules
  - Modern ES Modules (ESM)
  - Exit Scope
- Appendix A: Exploring Further
  - Implied Scopes
  - Anonymous vs. Named Functions
  - Hoisting: Functions and Variables
  - The Case for `var`
  - What's the Deal with TDZ?
  - Are Synchronous Callbacks Still Closures?
  - Classic Module Variations
- Appendix B: Practice
  - Buckets of Marbles
  - Closure (PART 1)
  - Closure (PART 2)
  - Closure (PART 3)
  - Modules
  - Suggested Solutions