

Chapter 2: Meaningful Names

- **Core Idea:** Good naming is essential. Code should tell a story without needing extra commentary.
- **Key Practices:**
 - Names should be *descriptive*, *specific*, and *pronounceable*.
 - Avoid abbreviations or misleading terms.
 - Choose names that reveal intent — e.g., use `getActiveAccount` rather than `getData`.
- **Impact:** Enhances readability and maintainability; reduces reliance on comments.

Chapter 3: Functions

- **Core Idea:** Functions should be **small** and do **one thing only**.
- **Best Practices:**
 - Use meaningful names and limit arguments (prefer none or one).
 - Avoid side effects and deep nesting.
 - Structure functions for clarity, not cleverness.
- **Impact:** Leads to modular, testable, and scalable code that's easier to debug and refactor.

Chapter 4: Comments

- **Core Idea:** Comments are a last resort — code should ideally be self-expressive.
- **Proper Usage:**
 - Use comments to explain *why* something is done, not *what* the code does.
 - Avoid redundant or misleading comments.
 - Prefer expressive naming and clean structure to reduce comment necessity.
- **Impact:** Promotes transparency while discouraging clutter and outdated annotations.

Chapter 6: Objects and Data Structures

- **Core Idea:** There's a key trade-off between **objects (behavior-focused)** and **data structures (data-focused)**.
- **Concepts:**
 - Objects encapsulate behavior and hide data; structures expose data and hide behavior.
 - Understand when to use getters/setters vs. procedural access.
 - Favor principles like encapsulation and abstraction for complex systems.
- **Impact:** Equips students to design architectures that balance clarity, flexibility, and control.