

☐☐ PHP Zero → Expert (with a light WordPress focus) — Table of Contents

“ Structure: **Chapters** → **Subchapters** (you’ll later request like `c2.3`).
Each chapter builds forward, but key ideas are **revisited gently** so you don’t have to constantly jump around. WordPress parallels are sprinkled throughout ☐☐

1) Getting Started: PHP in the Real World ☐☐

- 1.1 What PHP *is* (and isn’t), where it runs, and what it’s great at
- 1.2 Setting up your environment
 - 1.2.1 Local stacks (XAMPP/MAMP/Laragon/Docker)
 - 1.2.2 PHP versions, `php.ini`, and extensions
- 1.3 Your first PHP script: request → response mental model
- 1.4 How PHP projects are organized (files, includes, entry points)
- 1.5 WordPress parallel: where PHP “lives” in WordPress (themes, plugins, core)

2) PHP Fundamentals: Syntax, Types, and Control Flow ☐☐

- 2.1 Variables, constants, and basic output
- 2.2 Types and type juggling (int/float/string/bool/null)
- 2.3 Strings in depth (interpolation, concatenation, heredoc/nowdoc)

- 2.4 Arrays (indexed, associative) and common operations
 - 2.5 Control flow: `if/elseif/else`, `switch`, match expressions
 - 2.6 Loops: `for`, `foreach`, `while`, `break/continue`
 - 2.7 Practical mini-exercises (formatting, parsing, simple transforms)
 - 2.8 WordPress parallel: arrays everywhere (hooks, query args, theme data)
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3) Functions, Scope, and Working with Data □□

- 3.1 Defining functions, parameters, defaults, and return values
 - 3.2 Scope, globals, static variables, and “why things disappear”
 - 3.3 Passing by value vs by reference
 - 3.4 Useful built-ins (strings, arrays, dates) without memorizing everything
 - 3.5 Namespaces (why they matter even in small projects)
 - 3.6 WordPress parallel: pluggable functions, naming, and avoiding collisions
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4) HTTP, Forms, and Input Handling □□

- 4.1 HTTP essentials: methods, headers, status codes
 - 4.2 Superglobals: `$_GET`, `$_POST`, `$_SERVER`, `$_COOKIE`, `$_FILES`
 - 4.3 Forms end-to-end (build, submit, validate, respond)
 - 4.4 Redirects and the PRG pattern (Post/Redirect/Get)
 - 4.5 File uploads safely
 - 4.6 WordPress parallel: admin forms, nonces, request handling conventions
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5) Defensive PHP: Validation, Sanitization, and Security Basics □□

- 5.1 Threat model basics (what can go wrong)
- 5.2 Validation vs sanitization vs escaping (clear separation)

- 5.3 Output escaping for HTML (and why context matters)
 - 5.4 Password hashing and authentication fundamentals
 - 5.5 Sessions and cookies (secure defaults)
 - 5.6 Common web vulnerabilities: XSS, CSRF, SQLi, SSRF (practical overview)
 - 5.7 WordPress parallel: `sanitize_*`, `esc_*`, nonces, roles/capabilities
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6) Working with Files, JSON, and Common Formats □□

- 6.1 Reading/writing files safely
 - 6.2 Paths, directories, and portability
 - 6.3 JSON encode/decode and pitfalls
 - 6.4 CSV basics (import/export)
 - 6.5 Date/time handling (timezone sanity)
 - 6.6 WordPress parallel: media/filesystem API concepts, JSON in REST responses
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7) Error Handling, Debugging, and Testing Mindset □□

- 7.1 Errors vs exceptions, and how PHP reports problems
 - 7.2 Try/catch patterns and custom exceptions
 - 7.3 Logging strategies (what to log, what not to log)
 - 7.4 Debugging workflows (Xdebug basics, `var_dump` discipline)
 - 7.5 Intro to automated testing concepts (unit vs integration)
 - 7.6 WordPress parallel: `WP_DEBUG`, `debug.log`, common debugging workflows
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8) Object-Oriented PHP: From Practical to Pro □□

- 8.1 Classes/objects, properties, methods
- 8.2 Constructors, visibility, and encapsulation

- 8.3 Inheritance vs composition (when to use which)
 - 8.4 Interfaces and abstract classes
 - 8.5 Traits (pros/cons)
 - 8.6 Static usage (when it's fine, when it's a trap)
 - 8.7 WordPress parallel: OOP patterns in plugins, service classes, admin pages
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9) Modern PHP Practices: Autoloading, Composer, and Standards

- 9.1 Composer fundamentals (packages, versions, lockfiles)
 - 9.2 Autoloading and PSR-4
 - 9.3 Common PSRs (PSR-12, PSR-3, PSR-4) and why they help
 - 9.4 Dependency injection (practical introduction)
 - 9.5 Configuration patterns (env, config files)
 - 9.6 WordPress parallel: Composer in plugins/themes, when to bundle dependencies
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10) Databases with PHP: SQL, PDO, and Data Modeling

- 10.1 Relational database basics and schema thinking
 - 10.2 SQL essentials (SELECT/INSERT/UPDATE/DELETE, joins)
 - 10.3 PDO: prepared statements and safe queries
 - 10.4 Transactions and consistency
 - 10.5 Basic modeling: one-to-many, many-to-many
 - 10.6 Performance basics: indexes and query shape
 - 10.7 WordPress parallel: `$wpdb`, custom tables, and when *not* to create them
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11) Building a Web App: Routing, Controllers, and Views ☐☐

- 11.1 Simple routing (front controller pattern)
 - 11.2 Organizing “MVC-ish” code without overengineering
 - 11.3 Templating approaches (plain PHP templates done right)
 - 11.4 Handling errors and 404s cleanly
 - 11.5 Pagination, filters, and query parameters
 - 11.6 WordPress parallel: templates, the loop conceptually, template hierarchy mindset
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12) APIs: Consuming and Serving HTTP Services ☐☐

- 12.1 Making HTTP requests (cURL / modern clients)
 - 12.2 REST basics and JSON API conventions
 - 12.3 Authentication patterns (API keys, OAuth overview)
 - 12.4 Building a simple JSON API in PHP
 - 12.5 Versioning and backwards compatibility
 - 12.6 WordPress parallel: WP REST API usage and custom endpoints
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13) Performance, Caching, and Scalability ⚡

- 13.1 Profiling mindset: find bottlenecks before “optimizing”
 - 13.2 Opcode cache (OPcache) basics
 - 13.3 Caching layers: in-memory, file-based, HTTP caching
 - 13.4 Efficient I/O, streaming, and avoiding large memory spikes
 - 13.5 Async-ish patterns (queues, cron) at a practical level
 - 13.6 WordPress parallel: transients, object cache, page cache, cron behavior
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14) WordPress Development Track (Sprinkled Knowledge → Structured Practice)

- 14.1 WordPress architecture overview (request lifecycle, hooks)
 - 14.2 Theme fundamentals: templates, enqueueing, child themes
 - 14.3 Plugin fundamentals: headers, structure, activation hooks
 - 14.4 Hooks deep dive: actions vs filters, priorities, args
 - 14.5 Security in WP: capabilities, nonces, escaping
 - 14.6 Custom Post Types & Taxonomies (mental model + practice)
 - 14.7 Meta fields and options (when to use what)
 - 14.8 WP REST API: extend and consume
 - 14.9 Data: `WP_Query`, `$wpdb`, and performance considerations
 - 14.10 Practical patterns: settings pages, admin UI, shortcodes, blocks overview
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15) Professional Practices: Architecture, Maintenance, and Delivery

- 15.1 Designing for change: boundaries, modules, and refactors
 - 15.2 Documentation that stays useful (READMEs, docblocks)
 - 15.3 Version control workflows (Git) for solo + teams
 - 15.4 CI basics (linting, tests, static analysis)
 - 15.5 Deployment overview (shared hosting, VPS, containers)
 - 15.6 Observability basics: logs, metrics, error reporting
 - 15.7 WordPress parallel: release discipline for plugins/themes and compatibility
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16) Capstone Projects (Pick One or Do All)

16.1 Pure PHP mini-app: form-heavy CRUD app with auth + admin

16.2 API project: PHP JSON API + a tiny client

16.3 WordPress plugin: production-style plugin (settings, CPT, REST endpoint)

16.4 WordPress theme: custom theme with performance + security best practices

16.5 Hardening & polish: testing, docs, deployment checklist

□ How to proceed

Send something like `c2.3` and I'll generate the full lesson for *Chapter 2, Subchapter 3* (including explanations, examples, a few exercises, and small WordPress parallels where relevant).

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