

# PSR standards

PSR standards (PHP Standard Recommendations) are **guidelines by the PHP Framework Interop Group (PHP-FIG) for writing consistent, high-quality PHP code**, promoting interoperability between different libraries and frameworks through common rules for autoloading (PSR-4), coding style (PSR-12), logging (PSR-3), HTTP messages (PSR-7), and dependency injection (PSR-11), making code more readable, maintainable, and collaborative.

## Key PSR Standards & What They Do:

**PSR-1/PSR-12 (Coding Style):** Basic (PSR-1) and Extended (PSR-12) guides for consistent formatting, indentation (4 spaces), class names (StudlyCaps), method names (camelCase), and brace placement, essential for readability.

**PSR-4 (Autoloading):** Standardizes how class namespaces map to file paths, simplifying class loading without manual `include` / `require` statements.

**PSR-3 (Logger Interface):** Defines common methods (debug, info, error, etc.) for logging, allowing different logging libraries to work interchangeably.

**PSR-7 (HTTP Message Interface):** Standardizes HTTP request/response objects, enabling consistent HTTP handling across frameworks.

**PSR-11 (Container Interface):** Standardizes service container interfaces for dependency injection, making it framework-agnostic.

**PSR-15 (HTTP Server Handlers):** Focuses on middleware and request handling for flexible HTTP processing.

## Why PSR Standards Matter:

**Interoperability:** Allows different libraries and frameworks (like Laravel, Symfony) to work together seamlessly.

**Readability & Maintainability:** Makes code consistent and easier for any PHP developer to understand.

**Collaboration:** Facilitates teamwork on large projects by minimizing inconsistencies.

**Efficiency:** Speeds up development by providing proven patterns and reducing compatibility issues.

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