

7.0	3 December 2015 <sup>[113]</sup>	10 January 2019 <sup>[55]</sup>	<p>Zend Engine 3 (performance improvements<sup>[53]</sup> and 64-bit integer support on Windows<sup>[114]</sup>), uniform variable syntax,<sup>[57]</sup> <b>AST</b>-based compilation process,<sup>[115]</sup> added <code>Closure::call()</code>,<sup>[116]</sup> bitwise shift consistency across platforms,<sup>[117]</sup> <code>??</code> (<code>null coalesce</code>) operator,<sup>[118]</sup> <b>Unicode</b> code point <b>escape syntax</b>,<sup>[119]</sup> return type declarations,<sup>[68]</sup> scalar type (integer, float, string and boolean) declarations,<sup>[69]</sup> <code>&lt;=&gt;</code> "spaceship" <b>three-way comparison</b> operator,<sup>[120]</sup> <b>generator</b> delegation,<sup>[121]</sup> <b>anonymous classes</b>,<sup>[122]</sup> simpler and more consistently available <b>CSPRNG</b> API,<sup>[123]</sup> replacement of many remaining internal PHP "errors" with the more modern <b>exceptions</b>,<sup>[56]</sup> and shorthand syntax for importing multiple items from a namespace.<sup>[124]</sup></p>
7.1	1 December 2016	1 December 2019 <sup>[107]</sup>	<p><code>iterable</code> type,<sup>[125]</sup> nullable types,<sup>[126]</sup> <code>void</code> <b>return type</b>,<sup>[127]</sup> class constant <b>visibility modifiers</b>,<sup>[128]</sup> short list syntax,<sup>[129]</sup> multi-catch<sup>[130]</sup></p>
7.2	30 November 2017	30 November 2020 <sup>[107]</sup>	<p>Object parameter and return type declaration,<sup>[131]</sup> libsodium extension,<sup>[132]</sup> abstract method overriding,<sup>[133]</sup> parameter type widening<sup>[134]</sup></p>
7.3	6 December 2018 <sup>[135]</sup>	6 December 2021	<p>Flexible <b>Heredoc</b> and Nowdoc syntax,<sup>[136]</sup> support for reference assignment and array deconstruction with <code>list()</code>,<sup>[137]</sup> PCRE2 support,<sup>[138]</sup> <code>hrtime</code> function<sup>[139]</sup></p>
7.4	28 November 2019 <sup>[140]</sup>	28 November 2022	<p>Typed properties 2.0,<sup>[141]</sup> preloading,<sup>[142]</sup> null-coalescing assignment operator,<sup>[143]</sup> improve <code>openssl_random_pseudo_bytes</code>,<sup>[144]</sup> weak references,<sup>[82]</sup> <b>foreign function interface (FFI)</b>,<sup>[145]</sup> always available hash extension,<sup>[146]</sup> password hash registry,<sup>[147]</sup> multibyte string splitting,<sup>[148]</sup> reflection for references,<sup>[149]</sup> unbundle ext/wddx,<sup>[150]</sup> new custom object serialization mechanism<sup>[151]</sup></p>
8.0	26 November 2020 <sup>[152]</sup>	26 November 2023	<p><b>Just-In-Time (JIT) compilation</b>,<sup>[72]</sup> arrays starting with a negative index,<sup>[153]</sup> stricter/saner language semantics (validation for abstract trait methods),<sup>[154]</sup> saner string to number comparisons,<sup>[155]</sup> saner numeric strings,<sup>[156]</sup> <code>TypeError</code> on invalid arithmetic/bitwise operators,<sup>[157]</sup> reclassification of various engine errors,<sup>[158]</sup> consistent type errors for internal functions,<sup>[159]</sup> fatal error for incompatible method signatures<sup>[160]</sup>), locale-independent float to string conversion,<sup>[161]</sup> variable syntax tweaks,<sup>[162]</sup> attributes,<sup>[163][164][165][166]</sup> named arguments,<sup>[167]</sup> match expression,<sup>[168]</sup> constructor property promotion,<sup>[169]</sup> union types,<sup>[170]</sup> <code>mixed</code> type,<sup>[171]</sup> static return type,<sup>[172]</sup> nullsafe operator,<sup>[81]</sup> non-capturing catches,<sup>[173]</sup> <b>throw</b> expression,<sup>[80]</sup> JSON extension is always available.<sup>[174]</sup></p>
8.1	25 November 2021 <sup>[175]</sup>	25 November 2024	<p>Explicit octal integer literal notation,<sup>[176]</sup> enumerations,<sup>[177]</sup> read-only properties,<sup>[178]</sup> first-class callable syntax,<sup>[179]</sup> <code>new</code> in initializers,<sup>[180]</sup> pure intersection types,<sup>[181]</sup> <code>never</code> return type,<sup>[182]</sup> <b>final</b> class constraints,<sup>[183]</sup> fibers<sup>[184]</sup></p>
8.2	8 December 2022 <sup>[185]</sup>	8 December 2025	<p>Readonly classes,<sup>[186]</sup> <code>null</code>, <code>false</code>, and <code>true</code> as stand-alone types,<sup>[187][188]</sup> locale-independent case conversion,<sup>[189]</sup> disjunctive normal form types,<sup>[190]</sup> constants in traits<sup>[191]</sup></p>
8.3	23 November 2023 <sup>[192]</sup>	23 November 2026	<p>Typed class constants,<sup>[193]</sup> dynamic class constant fetch,<sup>[194]</sup> <code>#[\Override]</code> attribute,<sup>[195]</sup> deep-cloning of read-only properties,<sup>[196]</sup> new <code>json_validate</code> function,<sup>[197]</sup> randomizer additions,<sup>[198]</sup> the command-line linter supports multiple files</p>





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