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PHP static code analysis

Unique rules to find Bugs, Vulnerabilities, Security Hotspots, and Code Smells in your PHP code

All rules 268 Vulnerability 40 Bug 51 Security Hotspot 33 Code Smell 144

Tags

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Reflection should not be used to increase accessibility of classes, methods, or fields

Code Smell

Multiline blocks should be enclosed in curly braces

Code Smell

Parameters should be passed in the correct order

Code Smell

Classes named like "Exception" should extend "Exception" or a subclass

Code Smell

Two branches in a conditional structure should not have exactly the same implementation

Code Smell

Unused assignments should be removed

Code Smell

Method arguments with default values should be last

Code Smell

A reason should be provided when skipping a test

Code Smell

"__construct" functions should not make PHP 4-style calls to parent constructors

Code Smell

PHP 4 constructor declarations should not be used

Code Smell

Deprecated predefined variables should not be used

Code Smell

Alternation in regular expressions should not contain empty alternatives

Analyze your code

Bug Major regex

Alternation is used to match a single regular expression out of several possible regular expressions. If one of the alternatives is empty it would match any input, which is most probably a mistake.

Noncompliant Code Example

```
preg_match("/Jack|Peter|/", "John"); // Noncompliant - retur
preg_match("/Jack|Peter/", "John"); // Noncompliant - retur
```

Compliant Solution

```
preg_match("/Jack|Peter/", "John"); // returns 0
```

Exceptions

One could use an empty alternation to make a regular expression group optional. Rule will not report on such cases.

```
preg_match("/mandatory(-optional|)/", "mandatory"); // retur
preg_match("/mandatory(-optional|)/", "mandatory-optional");
```

However, if there is a quantifier after the group the issue will be reported as using both | and quantifier is redundant.

```
preg_match("/mandatory(-optional)?/", "mandatory-optional")
```

Available In:

sonarlint sonarcloud sonarqube

"switch" statements should not have too many "case" clauses

 Code Smell

Classes should not have too many methods

 Code Smell

Functions should not have too many lines of code

 Code Smell

"for" loop stop conditions should be invariant

 Code Smell