Secrets

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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 ⌄   Search by name... 🔍

☢ Code Smell

Methods should not have identical implementations

☢ Code Smell

Functions should use "return" consistently

☢ Code Smell

Assertion arguments should be passed in the correct order

☢ Code Smell

Ternary operators should not be nested

☢ Code Smell

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

Variables should be initialized before use

Analyze your code

🐛 Bug   ⬢ Major ⍰   🏷 cwe symbolic-execution

In PHP it is not required to initialize variables before their usage. However, using uninitialized variables is considered bad practice and should be avoided because of the following reasons:

- The value and type of uninitialized variables depend on the context of their first usage. It is better to be explicit about those to avoid confusion.
- The interpreter raises a warning or a notice in many cases.

Noncompliant Code Example

```php
<?php

function getText(array $lines): string {
    foreach ($lines as $line) {
        $text .= $line;
    }

    return $text;
}
```

Compliant Solution

```php
<?php

function getText(array $lines): string {
    $text = "";

    foreach ($lines as $line) {
        $text .= $line;
    }

    return $text;
}
```

See

- MITRE, CWE-457 - Use of Uninitialized Variable

Available In:

sonarlint ☺ | sonarcloud ⬡ | sonarqube ⑆

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