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JavaScript static code analysis

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

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Object literal shorthand syntax should be used

Code Smell

Strings and non-strings should not be added

Code Smell

Object literal syntax should be used

Code Smell

"undefined" should not be assigned

Code Smell

Trailing commas should not be used

Code Smell

Array constructors should not be used

Code Smell

Quotes for string literals should be used consistently

Code Smell

Statements should end with semicolons

Code Smell

Comments should not be located at the end of lines of code

Code Smell

Loops should not contain more than a single "break" or "continue" statement

Code Smell

Variable, property and parameter names should comply with a naming convention

Code Smell

Lines should not end with trailing whitespaces

Code Smell

Assignments should not be made from within sub-expressions

Analyze your code

Code Smell

Major

cwe suspicious

Assignments within sub-expressions are hard to spot and therefore make the code less readable. Ideally, sub-expressions should not have side-effects.

Moreover, using chained assignment in declarations is also dangerous because one may accidentally create global variables, e.g. in `let x = y = 1;`, if `y` is not declared, it will be hoisted as global.

Noncompliant Code Example

```
if (val = value() && check()) { // Noncompliant
  // ...
}
```

Compliant Solution

```
val = value();
if (val && check()) {
  // ...
}
```

Exceptions

The rule does not raise issues for the following patterns:

- chained assignments: `a = b = c = 0;`
- relational assignments: `(a = 0) != b`
- sequential assignments: `a = 0, b = 1, c = 2`
- assignments in lambda body: `() => a = 0`
- conditional assignment idiom: `a || (a = 0)`
- assignments in (do-)while conditions: `while (a = 0);`

See

- [MITRE, CWE-481](#) - Assigning instead of Comparing

Available In:

sonarlint

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https://rules.sonarsource.com/javascript/RSPEC-1121

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<div>Files should contain an empty newline at the end</div> <div> Code Smell</div>
<div>An open curly brace should be located at the end of a line</div> <div> Code Smell</div>
<div>Tabulation characters should not be used</div> <div> Code Smell</div>
<div>Function and method names should comply with a naming convention</div> <div> Code Smell</div>