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TypeScript static code analysis


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


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 Code Smell


Primitive types should be omitted from initialized or defaulted declarations

 Code Smell


Non-null assertions should not 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

"for...in" loops should filter properties before acting on them

 Bug  Major ?

The `for...in` statement allows you to loop through the names of all of the properties of an object. The list of properties includes all those properties that were inherited through the prototype chain. This has the side effect of serving up functions when the interest is in data properties. Programs that don't take this into account can fail.

Therefore, the body of every `for...in` statement should be wrapped in an `if` statement that filters which properties are acted upon. It can select for a particular type or range of values, or it can exclude functions, or it can exclude properties from the prototype.

Noncompliant Code Example

```
for (name in object) {
    doSomething(name); // Noncompliant
}
```




Compliant Solution

```
for (name in object) {
    if (object.hasOwnProperty(name)) {
        doSomething(name);
    }
}
```

Exceptions

Loops used to clone objects are ignored.

```
for (prop in obj) {
    a[prop] = obj[prop]; // Compliant by exception
}
```

Available In:
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https://rules.sonarsource.com/typescript/RSPEC-1535

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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>