




 Secrets


 ABAP


 Apex


 C


 C++


 CloudFormation


 COBOL


 C#


 CSS


 Flex


 Go


 HTML


 Java


 JavaScript


 Kotlin


 Objective C


 PHP


 PL/I


 PL/SQL


 Python


 RPG


 Ruby


 Scala


 Swift


 Terraform


 Text


 **TypeScript**

 T-SQL

 VB.NET

 VB6

 XML



TypeScript static code analysis

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

All rules 279

Vulnerability 27

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Quick Fix 50

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Using Sockets is security-sensitive

Security Hotspot

Executing XPath expressions is security-sensitive

Security Hotspot

Encrypting data is security-sensitive

Security Hotspot

Using regular expressions is security-sensitive

Security Hotspot

Class methods should be used instead of "prototype" assignments

Code Smell

Variables should be declared with "let" or "const"

Code Smell

Unchanged variables should be marked "const"

Code Smell

Wildcard imports should not be used

Code Smell

"switch" statements should not be nested

Code Smell

Cyclomatic Complexity of functions should not be too high

Code Smell

"strict" mode should be used with caution

Code Smell

Control flow statements "if", "for", "while", "switch" and "try" should not be nested too deeply

Code Smell

Regular expressions should not be too complicated

Analyze your code

Code Smell

Major

regex

Overly complicated regular expressions are hard to read and to maintain and can easily cause hard-to-find bugs. If a regex is too complicated, you should consider replacing it or parts of it with regular code or splitting it apart into multiple patterns at least.

The complexity of a regular expression is determined as follows:

Each of the following operators increases the complexity by an amount equal to the current nesting level and also increases the current nesting level by one for its arguments:

- | - when multiple | operators are used together, the subsequent ones only increase the complexity by 1
- Quantifiers (*, +, ?, {n,m}, {n,} or {n})
- Lookahead and lookbehind assertions

Additionally, each use of the following features increase the complexity by 1 regardless of nesting:

- character classes
- back references

If a regular expression is split among multiple variables, the complexity is calculated for each variable individually, not for the whole regular expression.

Noncompliant Code Example

```
const datePattern = /^(?:(?:31(\\|-|\\.)?(?:0?[13578]|1[02]))\\n|if (dateString.match(datePattern)) {
    handleDate(dateString);
}
```

Compliant Solution






```
const datePattern = /^\\d{1,2}(\\|-|\\.)\\d{1,2}\\\\n\\d{1,4}$/;
if (dateString.match(datePattern)) {
    const dateParts = dateString.split(/\\|-|\\./);
    const day = parseInt(dateParts[0]);
    const month = parseInt(dateParts[1]);
    const year = parseInt(dateParts[2]);
    // Put logic to validate and process the date based on i
}
```

Available In:

sonarlint sonarcloud sonarqube

https://rules.sonarsource.com/typescript/RSPEC-5843

1/2

 Code Smell
"switch" statements should have "default" clauses  Code Smell
"if ... else if" constructs should end with "else" clauses  Code Smell
Control structures should use curly braces  Code Smell
String literals should not be duplicated  Code Smell

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