




 Secrets


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
 C#


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 **JavaScript**


 Kotlin


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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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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

Function constructors should not be used

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

Tests should check which exception is thrown

Analyze your code

Code Smell

Major

tests chai mocha

It is not good enough to test if an exception is raised, without checking which exception it is. Such tests will not be able to differentiate the expected exception from an unexpected one. They should instead validate the exception message and/or type.

This rule raises an issue in the following cases:

- When an asynchronous Mocha test calls the `done()` callback, without parameters, in a `catch` block and there is no reference to the caught exception in this block. Either the error should be passed to `done()` or the exception should be checked further.
- When Chai assertions are used to test if a function throws any exception, or an exception of type `Error` without checking the message.
- When Chai assertions are used to test if a function does not throw an exception of type `Error` without checking the message.

Rule doesn't raise an issue when assertion is negated using `not`, in such case the exception doesn't need to be specific.

Noncompliant Code Example

```
const expect = require("chai").expect;
const fs = require("fs");

describe("exceptions are not tested properly", function() {
  const funcThrows = function () { throw new TypeError('Wh
  const funcNoThrow = function () { /*noop*/ };

  it("forgot to pass the error to 'done()", function(done) {
    fs.readFile("/etc/zshrc", 'utf8', function(err, data) {
      try {
        expect(data).to.match(/some expected string/);
      } catch (e) { // Noncompliant
        // Either the exception should be passed to done();
      }
    });
  });





  it("does not 'expect' a specific exception", function() {
    expect(funcThrows).to.throw(); // Noncompliant
    // Error is not precise enough
    expect(funcThrows).to.throw(Error); // Noncompliant
  });
});
```

Compliant Solution

```
const expect = require("chai").expect;
const { AssertionError } = require('chai');
```

https://rules.sonarsource.com/javascript/RSPEC-5958

1/2

<p>Control flow statements "if", "for", "while", "switch" and "try" should not be nested too deeply</p> <p> Code Smell</p>
<p>"switch" statements should have "default" clauses</p> <p> Code Smell</p>
<p>"if ... else if" constructs should end with "else" clauses</p> <p> Code Smell</p>
<p>Control structures should use curly braces</p> <p> Code Smell</p>

```
const fs = require("fs");

describe("exceptions are tested properly", function() {
  const funcThrows = function () { throw new TypeError('Wh
  const funcNoThrow = function () { /*noop*/ };

  it("forgot to pass the error to 'done()'", function(done
    fs.readFile("/etc/zshrc", 'utf8', function(err, data
      try {
        expect(data).toMatch(/some expected string/
      } catch (e) {
        expect(e).toBe.an.instanceof(AssertionError
        done();
      }
    });
  });

  it("does not 'expect' a specific exception", function()
    expect(funcThrows).toThrow(TypeError);
    expect(funcNoThrow).to.not.throw(Error, /My error me
  });
});
```

Available In:

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