

demo1 1.0

css:Sonar way java:Sonar way js:Sonar way web:Sonar way xml:Sonar way 2023-06-27







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1. demo1

报告提供了项目指标的概要,显示了与项目质量相关的最重要的指标。如果需要获取更详细的信息,请 登陆网站进一步查询。

报告的项目为demo1,生成时间为2023-06-27,使用的质量配置为 css:Sonar way java:Sonar way js:Sonar way web:Sonar way xml:Sonar way, 共计 676条规则。

1.1. 概述

编码问题

Bug		可靠性修复工作	
222		14h43min	
漏洞	7	安全修复工作	
0	_	0min	
坏味道	ž	技术债务	
1010	4	41d18h37min	
1232	开启问题		1232
问题	重开问题		0
	确认问题		0
	误判问题		0
	不修复的问题		0
	已解决的问题		0
	已删除的问题		0
	阻断		11

严重

主要

次要

提示

静态分析

项目规模

87

881

240

13



demo1

Sonar Report

53196	行数	67301
代码行数	方法	2509
1 4.51520	类	45
	文件	342
	目录	N/A
	重复行(%)	57.1

复杂度

8922 文件 47.2 复杂度

注释(%)

10.1注释行数5952注释(%)

动态分析

0.2	4	代码覆盖率(%)	0.2
覆盖率(%)	单元测试数	分支覆盖率(%)	0.0
12mm 1 (79)	1 7 0 1/3 1/2 (3/2	单元测试失败数	0
		单元测试错误数	0
		单元测试忽略数	0
		单元测试成功率(%)	100.0

1.2. 问题分析

违反最多的规则TOP10		
Variables should not be shadowed	195	
Assignments should not be made from within sub-expressions	187	
Ternary operators should not be nested	76	
Method names should comply with a naming convention	56	
Variables and functions should not be redeclared	54	





Unnecessary imports should be removed	49
Non-empty statements should change control flow or have at least one side-effect	48
"" tags should have a description	41
Attributes deprecated in HTML5 should not be used	35
Tables should have headers	35

违规最多的文件TOP5	
jquery-3.5.1.js	216
jquery-3.5.1.js	216
bootstrap.js	60
bootstrap.js	60
prettify.js	49

复杂度最高的文件TOP5	
jquery-3.5.1.js	2608
jquery-3.5.1.js	2608
bootstrap.js	629
bootstrap.js	629
bootstrap-datetimepicker.js	589

重复行最多的文件TOP5	
jquery-3.5.1.js	10859
jquery-3.5.1.js	10859
bootstrap.js	2574
bootstrap.js	2574
bootstrap-datetimepicker.js	1940

1.3. 问题详情

规则	Variables should not be shadowed
----	----------------------------------



Overriding or shadowing a variable declared in an outer scope can strongly impact the readability, and therefore the maintainability, of a piece of code. Further, it could lead maintainers to introduce bugs because they think they're using one variable but are really using another.

CERT, DCL01-C. - Do not reuse variable names in subscopes CERT, DCL51-J. - Do not shadow or obscure identifiers in subscopes

文件名称	违规行
index.js	125, 36, 528, 57, 26, 151
bootstrap.js	998, 1024, 1403, 1403, 1416
jquery-3.5.1.js	397, 414, 530, 532, 545, 570, 571, 574, 575, 579, 580, 628, 657, 664, 746, 755, 756, 957, 958, 1078, 1081, 1112, 1223, 1233, 1233, 1275, 1540, 1688, 1720, 1858, 1926, 2067, 2070, 2098, 2101, 2186, 2261, 2269, 2277, 2289, 2384, 2394, 2463, 2475, 2486, 2512, 2609, 2673, 2793, 2836, 2935, 2949, 2961, 2992, 3071, 3330, 3680, 3748, 4004, 4173, 4512, 4513, 4809, 5612, 6035, 6252, 6325, 7122, 7122, 7554, 7555, 7596, 7600, 8089, 8274, 8311, 8487, 8991, 9397, 10592, 10592, 10651, 10651
index.js	125, 36, 528, 57, 26, 151
bootstrap.js	998, 1024, 1403, 1403, 1416





	1
jquery-3.5.1.js	397, 414, 530, 532, 545, 570, 571, 574, 575, 579, 580, 628, 657, 664, 746, 755, 756, 957, 958, 1078, 1081, 1112, 1223, 1233, 1233, 1275, 1540, 1688, 1720, 1858, 1926, 2067, 2070, 2098, 2101, 2186, 2261, 2269, 2277, 2289, 2384, 2394, 2463, 2475, 2486, 2512, 2609, 2673, 2793, 2836, 2935, 2949, 2961, 2992, 3071, 3330, 3680, 3748, 4004, 4173, 4512, 4513, 4809, 5612, 6035, 6252, 6325, 7122, 7122, 7554, 7555, 7596, 7600, 8089,
	7122, 7554, 7555, 7596, 7600, 8089, 8274, 8311, 8487, 8991, 9397, 10592, 10592, 10651, 10651
prettify.js	415, 415, 474, 491, 500, 1085, 1466

规则 Assignments should not be made from within sub-expressions



```
规则描述
                  Assignments within sub-expressions are hard to spot and
                  therefore make the code less readable. Ideally, sub-expressions
                  should not have
                  side-effects.
                  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:
                    assignments at declaration-level: let a = b = 0;
                    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
                     CERT, EXP45-C. - Do not perform assignments in selection
                  statements
                     CERT, EXP51-J. - Do not perform assignments in conditional
                  expressions
```

文件名称	违规行
index.js	67, 90
bootstrap-datetimepicker.js	62, 96, 1478
bootstrap.js	121, 148, 258, 384, 424, 485, 708, 724, 809, 838, 895, 1240, 1496, 1880, 1943, 2053, 2067, 2229, 2383, 2485, 2543



jquery-3.5.1.js	726, 783, 787, 821, 860, 863, 914, 1085,
	1086, 1315, 1420, 1420, 1667, 1872, 2073, 2105, 2106, 2150, 2157, 2335,
	2341, 2354, 2438, 2442, 2449, 2491, 2554, 2555, 2568, 2571, 2574, 2580, 2583, 2620, 2630, 2656, 2724, 2838, 2848, 2870, 2873, 2876, 2965, 2996, 3331, 3661, 3665, 4773, 5224, 5227, 5272, 5315, 5413, 5417, 6214, 6638, 6673, 7286, 7316, 8148, 8574, 8598,
	8703, 9061, 9065, 9090, 10166
index.js	67, 90
bootstrap-datetimepicker.js	62, 96, 1478
bootstrap.js	121, 148, 258, 384, 424, 485, 708, 724, 809, 838, 895, 1240, 1496, 1880, 1943, 2053, 2067, 2229, 2383, 2485, 2543
jquery-3.5.1.js	726, 783, 787, 821, 860, 863, 914, 1085, 1086, 1315, 1420, 1420, 1667, 1872, 2073, 2105, 2106, 2150, 2157, 2335, 2341, 2354, 2448, 2442, 2449, 2491, 2554, 2555, 2568, 2571, 2574, 2580, 2656, 2724, 2838, 2848, 2870, 2873, 2876, 2965, 2996, 3331, 3661, 3665, 4773, 5224, 5227, 5272, 5315, 5413, 5417, 6214, 6638, 6673, 7286, 7316, 8148, 8574, 8598, 8703, 9061, 9065, 9090, 10166
prettify.js	455



```
规则
         Ternary operators should not be nested
                   Just because you can do something, doesn't mean you should, and that's the case with nested ternary operations. Nesting ternary
规则描述
                    results in the kind of code that may seem clear as day when you
                    write it, but six months later will leave maintainers (or worse -
                    future you)
                    scratching their heads and cursing.
                    Instead, err on the side of clarity, and use another line to express
                    the nested operation as a separate statement.
                    Noncompliant Code Example
                    function getReadableStatus(job) {
                    return job.isRunning() ? "Running" : job.hasErrors() ? "Failed" : "Succeeded "; // Noncompliant
                    Compliant Solution
                    function getReadableStatus(job) {
                    if (job.isRunning()) {
  return "Running";
                     return job.hasErrors() ? "Failed" : "Succeeded";
```

文件名称	违规行
bootstrap-datetimepicker.js	96, 96, 98, 99, 115, 116, 985, 1744, 1788
bootstrap.js	1649, 1650, 1651, 1809, 1818, 1819
jquery-3.5.1.js	683, 1554, 1556, 1557, 1558, 1592, 1593, 1665, 1667, 1900, 1901, 1902, 1903, 1904, 1905, 2279, 2376, 2532, 2532, 2965, 9629
bootstrap-datetimepicker.js	96, 96, 98, 99, 115, 116, 985, 1744, 1788
bootstrap.js	1649, 1650, 1651, 1809, 1818, 1819
jquery-3.5.1.js	683, 1554, 1556, 1557, 1558, 1592, 1593, 1665, 1667, 1900, 1901, 1902, 1903, 1904, 1905, 2279, 2376, 2532, 2532, 2965, 9629
prettify.js	321, 1093, 1098, 1099

规则

Method names should comply with a naming convention





Shared naming conventions allow teams to collaborate efficiently. This rule checks that all method names match a provided regular 规则描述

expression.

Noncompliant Code Example

With default provided regular expression ^[a-z][a-zA-Z0-9]*\$:

public int DoSomething(){...}

Compliant Solution

public int doSomething(){...}

Exceptions Overriding methods are excluded.

@Override

public int Do_Something(){...}

文件名称	违规行
DemoApplicationTests.java	46, 60, 75, 92, 108, 124, 139, 156, 172, 188, 220, 236, 252, 268, 283, 300, 316, 333, 349, 366, 382, 398, 410, 427, 443, 459, 472, 489
DemoOptionTests.java	33, 50, 66, 83
DemoPaperAnswerTests.java	34, 50, 63, 80
DemoPaperTests.java	34, 50, 62, 79
DemoProjectTests.java	33, 49, 64, 81
DemoQuestionTests.java	33, 49, 64, 81
DemoQuestionnaireTests.java	49, 65, 97, 113
DemoUserTests.java	48, 62, 77, 94

规则	Variables and functions should not be redeclared
----	--



```
规则描述
                    This rule checks that a declaration doesn't use a name that is
                    already in use. Indeed, it is possible to use the same symbol
                    multiple times as
                    either a variable or a function, but doing so is likely to confuse
                    maintainers. Further it's possible that such reassignments are
                    made in error, with
                    the developer not realizing that the value of the variable is
                    overwritten by the new assignment.

This rule also applies to function parameters.

Noncompliant Code Example
                    var a = 'foo';
                    function a() {} // Noncompliant console.log(a); // prints "foo"
                    function myFunc(arg) {
  var arg = "event"; // Noncompliant, argument value is lost
                    fun(); // prints "bar"
                    function fun() {
                     console.log("foo");
                    fun(); // prints "bar"
                    function fun() { // Noncompliant
                     console.log("bar");
                    fun(); // prints "bar"
                    Compliant Solution
                    var a = 'foo';
                    function otherName() {}
                    console.log(a);
                    function myFunc(arg) {
                     var newName = "event";
                    fun(); // prints "foo"
                    function fun() {
                     print("foo");
                    fun(); // prints "foo"
                    function printBar() {
                    print("bar");
                    printBar(); // prints "bar"
```

文件名称 违规行



bootstrap-datetimepicker.js	60, 60, 834, 886, 1151, 1152, 1153, 1154, 1155, 1156, 1182, 1619, 1620, 1676, 1683, 1717, 1806, 60, 60, 834, 886, 1151, 1152, 1153, 1154, 1155, 1156, 1182, 1619, 1620, 1676, 1683, 1717, 1806
prettify.js	325, 450, 462, 463, 515, 520, 520, 521, 528, 537, 537, 544, 545, 565, 565, 566
sort.js	35, 37, 74, 80

<mark>规则</mark> Unneces	规则 Unnecessary imports should be removed		
规则描述	The imports part of a file should be hand Development Environment (IDE), not man Unused and useless imports should not c Leaving them in reduces the code's readapresence can be confusing. Noncompliant Code Example	led by the Integrated ually by the developer. occur if that is the case. ability, since their	
	package my.company;		
	import java.lang.String; // Noncompli always implicitly imported import my.company.SomeClass; // Noncomplies are always implicitly imported import java.io.File; // Noncomplian	ant; java.lang classes are compliant; same-package t; File is not used	
	import my.company2.SomeType; import my.company2.SomeType; // Nor already imported	ncompliant; 'SomeType' is	
	class ExampleClass {		
	public String someString; public SomeType something;		
	}		
	Exceptions Imports for types mentioned in commenignored.	ts, such as Javadocs, are	
文件名称		违规行	
PaperAnswerController.java 5			
PaperController.java 5, 9		5, 9	
ProjectControlle	r.java	5, 6	
QuestionnaireCo	-	6, 16	
ToPaperController.java 3, 4, 6			



UserController.java	13, 15
ProjectEntityMapper.java	4
QuestionEntityMapper.java	4
QuestionnaireEntityMapper.java	9
UserEntityMapper.java	6, 9
Paper.java	3
ProjectService.java	3
QuestionnaireService.java	11
UserService.java	6, 11, 12
DemoPaperAnswerTests.java	5
DemoPaperTests.java	5
DemoQuestionnaireTests.java	4, 6, 9, 10, 11, 12, 13, 14, 25, 27, 29, 30
DemoUserTests.java	4, 6, 8, 9, 10, 11, 12, 13, 24, 26, 28, 29

规则 Non-em side-effe	npty statements should change control flow or have at least one ect
规则描述	Any statement (other than a null statement, which means a statement containing only a semicolon;) which has no side effect and does not result in a change of control flow will normally indicate a programming error, and therefore should be refactored. Noncompliant Code Example
	a == 1; // Noncompliant; was assignment intended? var msg = "Hello, " "World!"; // Noncompliant; have we forgotten '+' operator on previous line?
	See
	MITRE, CWE-482 - Comparing instead of Assigning

文件名称	违规行
bootstrap-datetimepicker.js	1710
bootstrap.js	11, 28, 88, 184, 310, 448, 558, 653, 770, 936, 1017, 1134, 1295, 1973, 2097, 2270, 2347, 2426
jquery-3.5.1.js	733, 2197, 8208, 8218, 8221
bootstrap-datetimepicker.js	1710



sonar

Sonar Report

bootstrap.js	11, 28, 88, 184, 310, 448, 558, 653, 770, 936, 1017, 1134, 1295, 1973, 2097, 2270, 2347, 2426
jquery-3.5.1.js	733, 2197, 8208, 8218, 8221

规则	"" tags should have a description
----	-----------------------------------



In order to be accessible to visually impaired users, it is important that tables provides a description of its content before the data is accessed.

The simplest way to do it, and also the one recommended by WCAG2 'is to add a

<caption> element inside the .

Other technics this rule accepts are:

adding a concise description via aria-label or a href="https://www.w3.org/TR/wai-aria/#aria-labelledby"> aria-labelledby"> aria-labelledby attributes in the .
referencing a description element with an aria-describedby

attribute in the .

embedding the inside a <figure> which also contains a <figcaption> .
adding a summary attribute to the tag. However

note that this attribute has been deprecated in HTML5.

See W3C WAI Web Accessibility Tutorials for more information.

This rule raises an issue when a has neither of the previously mentioned description mechanisms.

Noncompliant Code Example

<!-- Noncompliant -->

Compliant Solution

Adding a <caption> element.

<caption>New York City Marathon Results 2013</caption>

Adding an aria-describedby attribute.

New York City Marathon Results 2013

Embedding the table in a <figure> which also contains a <figcaption> .

<figure>

<figcaption>New York City Marathon Results 2013</figcaption> <table'>

</figure>

Adding a summary attribute. However note that this attribute has been deprecated in HTML5.



Exceptions

No issue will be raised on used for layout purpose, i.e. when it contains a role attribute set to "presentation" or "none". Note that using for layout purpose is a bad practice.

No issue will be raised either on containing an ariahidden attribute set to "true". See

WCAG2, 1.3.1 - Info and Relationships WCAG2, H39 - Using caption elements to associate data table captions with data tables

Index.html		
HttpResponseEntity.html	文件名称	违规行
index.html 1 index.source.html 1 UUIDUtil.html 1 index.html 1 index.source.html 1 OptionController.html 1 PaperAnswerController.html 1 PaperController.html 1 ProjectController.html 1 ProjectController.html 1 QuestionController.html 1 QuestionnaireController.html 1 ShortUrlController.html 1 ToPaperController.html 1 UserController.html 1 UserController.html 1 Index.html 1 Index.ntml 1 UserEntity.html 1 Index.source.html 1 OptionService.html 1 PaperAnswerService.html 1 PaperService.html 1 QuestionnaireService.html 1 QuestionnaireService.html 1 UserService.html 1 Index.html 1	index.html	27, 28, 31, 27, 28, 31
Index.source.html	HttpResponseEntity.html	1
UUIDUtil.html 1 index.html 1 index.source.html 1 OptionController.html 1 PaperAnswerController.html 1 PaperController.html 1 ProjectController.html 1 QuestionController.html 1 QuestionnaireController.html 1 ShortUrlController.html 1 ToPaperController.html 1 UserController.html 1 index.html 1 index.source.html 1 UserEntity.html 1 index.source.html 1 OptionService.html 1 PaperAnswerService.html 1 ProjectService.html 1 QuestionService.html 1 QuestionnaireService.html 1 UserService.html 1 index.html 1	index.html	1
index.html 1 index.source.html 1 OptionController.html 1 PaperAnswerController.html 1 PaperController.html 1 ProjectController.html 1 QuestionController.html 1 QuestionnaireController.html 1 ShortUrlController.html 1 ToPaperController.html 1 UserController.html 1 index.html 1 index.source.html 1 UserEntity.html 1 index.source.html 1 OptionService.html 1 PaperAnswerService.html 1 PaperService.html 1 QuestionService.html 1 QuestionnaireService.html 1 QuestionnaireService.html 1 UserService.html 1 index.html 1	index.source.html	1
index.source.html 1 OptionController.html 1 PaperAnswerController.html 1 PaperController.html 1 ProjectController.html 1 QuestionController.html 1 QuestionnaireController.html 1 ShortUrlController.html 1 ToPaperController.html 1 UserController.html 1 index.html 1 index.source.html 1 UserEntity.html 1 index.source.html 1 OptionService.html 1 PaperAnswerService.html 1 PaperService.html 1 QuestionService.html 1 QuestionnaireService.html 1 UserService.html 1 UserService.html 1 index.html 1	UUIDUtil.html	1
OptionController.html 1 PaperAnswerController.html 1 PaperController.html 1 ProjectController.html 1 QuestionController.html 1 QuestionnaireController.html 1 ShortUrlController.html 1 ToPaperController.html 1 UserController.html 1 index.html 1 index.source.html 1 UserEntity.html 1 index.source.html 1 OptionService.html 1 PaperAnswerService.html 1 PaperService.html 1 QuestionService.html 1 QuestionnaireService.html 1 UserService.html 1 UserService.html 1 Index.html 1	index.html	1
PaperAnswerController.html 1 PaperController.html 1 ProjectController.html 1 QuestionController.html 1 QuestionnaireController.html 1 ShortUrlController.html 1 ToPaperController.html 1 UserController.html 1 index.html 1 index.source.html 1 UserEntity.html 1 index.source.html 1 OptionService.html 1 PaperAnswerService.html 1 PaperService.html 1 ProjectService.html 1 QuestionService.html 1 QuestionnaireService.html 1 UserService.html 1 index.html 1	index.source.html	1
PaperController.html 1 ProjectController.html 1 QuestionController.html 1 QuestionnaireController.html 1 ShortUrlController.html 1 ToPaperController.html 1 UserController.html 1 index.html 1 index.source.html 1 UserEntity.html 1 index.source.html 1 OptionService.html 1 PaperAnswerService.html 1 PaperService.html 1 ProjectService.html 1 QuestionService.html 1 QuestionnaireService.html 1 UserService.html 1 index.html 1	OptionController.html	1
ProjectController.html 1 QuestionController.html 1 QuestionnaireController.html 1 ShortUrlController.html 1 ToPaperController.html 1 UserController.html 1 index.html 1 index.source.html 1 UserEntity.html 1 index.source.html 1 OptionService.html 1 PaperAnswerService.html 1 PaperService.html 1 ProjectService.html 1 QuestionService.html 1 QuestionnaireService.html 1 UserService.html 1 index.html 1	PaperAnswerController.html	1
QuestionController.html 1 QuestionnaireController.html 1 ShortUrlController.html 1 ToPaperController.html 1 UserController.html 1 index.html 1 index.source.html 1 UserEntity.html 1 index.html 1 index.source.html 1 OptionService.html 1 PaperAnswerService.html 1 PaperService.html 1 ProjectService.html 1 QuestionService.html 1 QuestionnaireService.html 1 UserService.html 1 index.html 1	PaperController.html	1
QuestionnaireController.html 1 ShortUrlController.html 1 ToPaperController.html 1 UserController.html 1 index.html 1 index.source.html 1 UserEntity.html 1 index.html 1 index.source.html 1 OptionService.html 1 PaperAnswerService.html 1 PaperService.html 1 ProjectService.html 1 QuestionService.html 1 QuestionnaireService.html 1 UserService.html 1 index.html 1	ProjectController.html	1
ShortUrlController.html 1 ToPaperController.html 1 UserController.html 1 index.html 1 index.source.html 1 UserEntity.html 1 index.html 1 index.source.html 1 OptionService.html 1 PaperAnswerService.html 1 PaperService.html 1 ProjectService.html 1 QuestionService.html 1 QuestionnaireService.html 1 UserService.html 1 UserService.html 1 index.html 1	QuestionController.html	1
ToPaperController.html 1 UserController.html 1 index.html 1 index.source.html 1 UserEntity.html 1 index.html 1 index.source.html 1 OptionService.html 1 PaperAnswerService.html 1 PaperService.html 1 ProjectService.html 1 QuestionService.html 1 QuestionnaireService.html 1 UserService.html 1 index.html 1	QuestionnaireController.html	1
UserController.html 1 index.html 1 index.source.html 1 UserEntity.html 1 index.html 1 index.source.html 1 OptionService.html 1 PaperAnswerService.html 1 PaperService.html 1 ProjectService.html 1 QuestionService.html 1 QuestionnaireService.html 1 UserService.html 1 index.html 1	ShortUrlController.html	1
index.html 1 index.source.html 1 UserEntity.html 1 index.html 1 index.source.html 1 OptionService.html 1 PaperAnswerService.html 1 PaperService.html 1 ProjectService.html 1 QuestionService.html 1 QuestionnaireService.html 1 UserService.html 1 index.html 1	ToPaperController.html	1
index.source.html 1 UserEntity.html 1 index.html 1 index.source.html 1 OptionService.html 1 PaperAnswerService.html 1 PaperService.html 1 ProjectService.html 1 QuestionService.html 1 QuestionnaireService.html 1 UserService.html 1 index.html 1	UserController.html	1
UserEntity.html 1 index.html 1 index.source.html 1 OptionService.html 1 PaperAnswerService.html 1 PaperService.html 1 ProjectService.html 1 QuestionService.html 1 QuestionnaireService.html 1 UserService.html 1 index.html 1	index.html	1
index.html 1 index.source.html 1 OptionService.html 1 PaperAnswerService.html 1 PaperService.html 1 ProjectService.html 1 QuestionService.html 1 QuestionnaireService.html 1 UserService.html 1 index.html 1	index.source.html	1
index.source.html 1 OptionService.html 1 PaperAnswerService.html 1 PaperService.html 1 ProjectService.html 1 QuestionService.html 1 QuestionnaireService.html 1 UserService.html 1 index.html 1	UserEntity.html	1
OptionService.html 1 PaperAnswerService.html 1 PaperService.html 1 ProjectService.html 1 QuestionService.html 1 QuestionnaireService.html 1 UserService.html 1 index.html 1	index.html	1
PaperAnswerService.html 1 PaperService.html 1 ProjectService.html 1 QuestionService.html 1 QuestionnaireService.html 1 UserService.html 1 index.html 1	index.source.html	1
PaperService.html 1 ProjectService.html 1 QuestionService.html 1 QuestionnaireService.html 1 UserService.html 1 index.html 1	OptionService.html	1
ProjectService.html 1 QuestionService.html 1 QuestionnaireService.html 1 UserService.html 1 index.html 1	PaperAnswerService.html	1
QuestionService.html1QuestionnaireService.html1UserService.html1index.html1	PaperService.html	1
QuestionnaireService.html1UserService.html1index.html1	ProjectService.html	1
UserService.html 1 index.html 1	QuestionService.html	1
index.html 1	QuestionnaireService.html	1
	UserService.html	1
index.source.html 1	index.html	1
	index.source.html	1



demo1

Sonar Report

Demo1Application.html	1
index.html	1
index.source.html	1
index.html	1
jacoco-sessions.html	1, 1

规则	Tables should have headers
77073	rabics stroata have headers



规则描述 Assistive technologies, such as screen readers, use headers to provide some context when users navigates a table. Without it the user gets rapidly lost in the flow of data.

Headers should be properly associated with the corresponding cells by using either a scope attribute or headers and id attributes. See W3C WAI Web Accessibility

Tutorials for more information. This rule raises an issue whenever a does not contain any elements. Noncompliant Code Example <!-- Noncompliant --> Name Age John Doe 24 Alice Doe 54 **Compliant Solution** Name
Age John Doe 24 Alice Doe 54 No issue will be raised on used for layout purpose, i.e. when it contains a role attribute set to "presentation" or "none". Note that using for layout purpose is a bad practice. No issue will be raised on containing an aria-hidden attribute set to "true". See WCAG2, 1.3.1 - Info and Relationships WCAG2, H51 - Using table markup to present tabular information

文件名称	违规行
HttpResponseEntity.html	1







index.html	1
index.source.html	1
UUIDUtil.html	1
index.html	1
index.source.html	1
OptionController.html	1
PaperAnswerController.html	1
PaperController.html	1
ProjectController.html	1
QuestionController.html	1
QuestionnaireController.html	1
ShortUrlController.html	1
ToPaperController.html	1
UserController.html	1
index.html	1
index.source.html	1
UserEntity.html	1
index.html	1
index.source.html	1
OptionService.html	1
PaperAnswerService.html	1
PaperService.html	1
ProjectService.html	1
QuestionService.html	1
QuestionnaireService.html	1
UserService.html	1
index.html	1
index.source.html	1
Demo1Application.html	1
index.html	1
index.source.html	1
index.html	1
jacoco-sessions.html	1, 1

规则 Attributes deprecated in HTML5 should not be used



With the advent of HTML5, many old attributes were deprecated. To ensure the best user experience, deprecated attributes should not be used. This rule checks for the following deprecated attributes, where CSS should be used instead.

```
Attributes
    Attribute
    Removed from
     accept
     form
    caption, col, div, embed, h1-h6, hr, iframe, img, input, legend, object, p, table, tbody, thead, tfoot, td, th, tr
     alink
     body
     allowtransparency
     iframe
     archive
     object
     axis
     td, th
     background
    body, table, thead, tbody, tfoot, tr, td,
     body, table, td, th, tr
     img (border="0" allowed), object
     bordercolor
     table
    cellpadding table
```

cellspacing



```
table
col, tbody, thead, tfoot, td, th, tr
charoff
col, tbody, thead, tfoot, td, th, tr
charset
a, link
classid
object
clear
 br
code
object
codebase
object
codetype
object
color
hr
compact
dl, ol, ul
coords
datafld
a, applet, button, div, fieldset, frame, iframe, img, input, label, legend, marquee, object, param, select, span, textarea
dataformatas
button, div, input, label, legend, marquee, object, option, select, span, table
datapagesize
table
```



```
datasrc
a, applet, button, div, frame, iframe, img, input, label, legend, marquee, object, option, select, span, table, textarea
declare
object
event
script
for
script
frame
table
frameborder
 iframe
height
td , th
hspace
embed, iframe, img, input, object
ismap
input
langauge
script (language="javascript" , case insensitive, allowed)
link
body
lowsrc
img
marginbottom body
marginheight body , iframe
marginleft
body
```



```
marginright body
margintop
body
marginwidth body , iframe
methods
a , link
a (name="[a's element id]" allowed), embed, img, option
nohref
area
noshade
hr
nowrap
td , th
profile
head
rules
table
scheme
meta
scope
td
scrolling iframe
shape
size
hr
```



文件名称

```
standby
object
    summary
    table
    target
link
    text
    body
    type
li, param, ul
    urn
    a, link
    usemap
     input
    valign col , tbody , thead , tfoot , td , th , tr
    valuetype
param
    version
    html
    vlink
    body
    embed, iframe, img, input, object
    width
    col, hr, pre, table, td, th
See
  W3C, Differences in HTML5 WHATWG, Obsolete Features
```

违规行







HttpResponseEntity.html	1
index.html	1
index.source.html	1
UUIDUtil.html	1
index.html	1
index.source.html	1
OptionController.html	1
PaperAnswerController.html	1
PaperController.html	1
ProjectController.html	1
QuestionController.html	1
QuestionnaireController.html	1
ShortUrlController.html	1
ToPaperController.html	1
UserController.html	1
index.html	1
index.source.html	1
UserEntity.html	1
index.html	1
index.source.html	1
OptionService.html	1
PaperAnswerService.html	1
PaperService.html	1
ProjectService.html	1
QuestionService.html	1
QuestionnaireService.html	1
UserService.html	1
index.html	1
index.source.html	1
Demo1Application.html	1
index.html	1
index.source.html	1
index.html	1
jacoco-sessions.html	1, 1

规则	Selectors should not be duplicated





规则描述	Duplication of selectors might indicate a copy-paste mistake. The rule detects the following kinds of duplications:	
	within a list of selectors in a single rule set for duplicated selectors in different rule sets within a single stylesheet.	
	Noncompliant Code Example	
	.foo, .bar, .foo { } /* Noncompliant */	
	.class1 { } .class1 { } /* Noncompliant */	
	Compliant Solution	
	.foo, .bar { }	
	.class1 { } .class2 { }	
文件名称	违规行	
bootstrap.css	1080, 1084, 1099, 1112, 1115, 1146, 1529, 1558, 2349, 2589, 2595, 2612,	

bootstrap.css	1080, 1084, 1099, 1112, 1115, 1146, 1529, 1558, 2349, 2589, 2595, 2612, 2620, 4143
demo.css	182, 285
bootstrap.css	1080, 1084, 1099, 1112, 1115, 1146, 1529, 1558, 2349, 2589, 2595, 2612, 2620, 4143
demo.css	182, 285

规则 Standard outputs should not be used directly to log anything





规则描述

When logging a message there are several important requirements which must be fulfilled:

The user must be able to easily retrieve the logs
The format of all logged message must be uniform to allow the
user to easily read the log
Logged data must actually be recorded
Sensitive data must only be logged securely

If a program directly writes to the standard outputs, there is absolutely no way to comply with those requirements. That's why defining and using a dedicated logger is highly recommended.

Noncompliant Code Example

System.out.println("My Message"); // Noncompliant

Compliant Solution

logger.log("My Message");

See

CERT, ERR02-J. - Prevent exceptions while logging data

文件名称	违规行
OptionController.java	42, 68, 94, 120
PaperAnswerController.java	42, 68, 94, 120
PaperController.java	44, 71, 98, 125
ProjectController.java	42, 68, 94, 120
QuestionController.java	42, 68, 94, 120
QuestionnaireController.java	44, 64, 90, 116, 142
UserController.java	41, 65, 89, 113, 137

规则 "" tags should have "id" or "scope" attributes



Associating headers, i.e. elements, with their cells enables screen readers to announce the header prior to the data. This considerably increases the accessibility of tables to visually

impaired users.
There are two ways of doing it:

Adding a scope attribute to headers.
Adding an id attribute to headers and a headers
attribute to every
element.

It is recommended to add scope attributes to headers whenever possible. Use and only when is not capable of associating cells to their headers. This happens for very complex tables which have headers splitting the data in multiple subtables. See a href="https://www.w3.org/WAI/tutorials/tables/tips/">W3C WAI Web Accessibility Tutorials for more information.

Note that complex tables can often be split into multiple smaller tables, which improves the user experience.

This rule raises an issue when a element has neither id nor scope attributes set.

Noncompliant Code Example

```
<caption>Contact Information</caption>
 <
 Name
                         <!-- Non-Compliant
 Phone#
                         <!-- Non-Compliant
 City
                       <!-- Non-Compliant --
1.
 Joel Garner
                         <!-- Non-Compliant
 412-212-5421
 Pittsburgh
2.
                         <!-- Non-Compliant
 Clive Lloyd
 410-306-1420
 Baltimore
Compliant Solution
<caption>Contact Information</caption>
 Name
                           <!-- Compliant
```



文件名称

```
Phone#
                          <!-- Compliant
 City
                        <!-- Compliant --
1.
 Joel Garner
                          <!--
Compliant -->
 412-212-5421
 Pittsburgh
2.
 Clive Lloyd
                          <!--
Compliant -->
 410-306-1420
 Baltimore
or:
<caption>Contact Information</caption>
Name
                         <!-- Compliant
                          <!-- Compliant
 Phone#
 City
                       <!-- Compliant -->
Joel Garner
                              <!--
 headers="phone person1">412-212-5421
 Pittsburgh
2.
 Clive Lloyd
                              <!--
Compliant -->
 d headers="phone person2">410-306-1420
 Baltimore
See
 WCAG2, 1.3.1  - Info
and Relationships
 WCAG2, H43 - Using id and headers attributes to associate
data cells with header
cells in data tables
```

违规行





index.html	30, 31, 32, 33, 31, 32, 33, 34, 34, 35, 36, 37, 38, 39, 30, 31, 32, 33, 34, 34, 35
	31, 32, 33, 34, 34, 35, 36, 37, 38, 39

规则 Cognitive Complexity of functions should not be too high		
规则 Cognitive Complexity of functions should not be too high 规则描述 Cognitive Complexity is a measure of how hard the control flow control is to understand. Functions with high Cognitive Complexity will be difficult to maintain. See Cognitive Complexity		
文件名称		违规行
index.js	index.js 36, 37, 56	
bootstrap-datetir	bootstrap-datetimepicker.js 36	
bootstrap.js		1112, 1467, 1603, 1973, 2458
jquery-3.5.1.js		40
index.js		36, 37, 56
bootstrap-datetimepicker.js		36
bootstrap.js		1112, 1467, 1603, 1973, 2458
jquery-3.5.1.js 40		40
prettify.js		308, 354, 675, 809, 1068, 1378

	Local variables should not be declared and then immediately returned or
	thrown



Declaring a variable only to immediately return or throw it is a bad practice.

Some developers argue that the practice improves code readability, because it enables them to explicitly name what is being returned. However, this

variable is an internal implementation detail that is not exposed to the callers of the method. The method name should be sufficient for callers to

know exactly what will be returned. Noncompliant Code Example

```
public long computeDurationInMilliseconds() {
  long duration = (((hours * 60) + minutes) * 60 + seconds ) * 1000
 return duration;
public void doSomething() {
 RuntimeException myException = new RuntimeException();
 throw myException;
Compliant Solution
public long computeDurationInMilliseconds() {
  return (((hours * 60) + minutes) * 60 + seconds ) * 1000 ;
public void doSomething() {
 throw new RuntimeException();
```

文件名称	违规行
OptionService.java	22, 46, 56
PaperAnswerService.java	23, 47, 57
PaperService.java	22, 46, 56
ProjectService.java	23, 48, 58
QuestionService.java	22, 46, 56
QuestionnaireService.java	25, 35, 58, 68
UserService.java	23, 31, 53, 61

规则 String literals should not be duplicated



```
规则描述
                        Duplicated string literals make the process of refactoring error-
                       prone, since you must be sure to update all occurrences.
On the other hand, constants can be referenced from many places, but only need to be updated in a single place.
Noncompliant Code Example
With the default threshold of 3:
                       public void run() {
  prepare("action1");
is duplicated 3 times
                                                                           // Noncompliant - "action1"
                        execute("action1");
release("action1");
                       @SuppressWarning("all")
                                                                                // Compliant -
                       annotations are excluded
                       private void method1() { /* ... */ }
@SuppressWarning("all")
private void method2() { /* ... */ }
                       public String method3(String a) {
                       System.out.println("'" + a + "'");
has less than 5 characters and is excluded
                                                                                // Compliant - literal "'"
                                                                      // Compliant - literal "" has less
                        return "
                       than 5 characters and is excluded
                        Compliant Solution
                       private static final String ACTION_1 = "action1"; // Compliant
                       public void run() {
  prepare(ACTION_1);
  execute(ACTION_1);
                                                                              // Compliant
                        release(ACTION 1);
                        Exceptions
                        To prevent generating some false-positives, literals having less
                       than 5 characters are excluded.
文件名称
                                                                                 违规行
DemoApplicationTests.java
                                                                                 54, 62, 63, 64, 238
DemoOptionTests.java
                                                                                 43, 52, 54
DemoPaperAnswerTests.java
                                                                                 43, 53
DemoPaperTests.java
                                                                                 43, 53
DemoProjectTests.java
                                                                                 42, 51, 52
DemoQuestionTests.java
                                                                                 42, 51, 52
```

规则	Sections of	f code	e should	d not b	e commented out
79023			c sileai	4 1 1 C C R	c committee a oat

DemoQuestionnaireTests.java

DemoUserTests.java

58, 68

56, 64, 65



规则描述	Programmers should not comment out code as it bloats programs and reduces readability. Unused code should be deleted and can be retrieved from source control history if required.		
文件名称		违规行	
index.js		27, 92	
bootstrap-date	timepicker.js	1220, 1228, 1236, 1443	
jquery-3.5.1.js		3924, 3939, 3943, 3955, 3968	
index.js		27, 92	
bootstrap-date	timepicker.js	1220, 1228, 1236, 1443	
jquery-3.5.1.js		3924, 3939, 3943, 3955, 3968	

demo1

规则 Image, area and button with image tags should have an "alt" attribute



The alt attribute provides a textual alternative to an image. It is used whenever the actual image cannot be rendered. Common reasons for that include:

The image can no longer be found
Visually impaired users using a screen reader software
Images loading is disabled, to reduce data consumption on
mobile phones

It is also very important to not set an alt attribute to a non-informative value. For example is useless as it doesn't give any information to the user. In this case, as for any other decorative image, it is better to use a CSS background image

instead of an tag. If using CSS background-image is not possible, an empty alt="" is tolerated. See Exceptions bellow.

This rule raises an issue when

an <input type="image"> tag or an <area> tag have no alt attribute or their alt attribute has an empty string value. an tag has no alt attribute.

Noncompliant Code Example

```
<img src="foo.png" /> <!-- Noncompliant -->
<input type="image" src="bar.png" /> <!-- Noncompliant -->
<input type="image" src="bar.png" alt="" /> <!-- Noncompliant -->
<img src="house.gif" usemap="#map1"
    alt="rooms of the house." />
<map id="map1" name="map1">
    <area shape="rect" coords="0,0,42,42"
    href="bedroom.html"/> <!-- Noncompliant -->
    <area shape="rect" coords="0,0,21,21"
    href="lounge.html" alt=""/> <!-- Noncompliant -->
</map>
```

Compliant Solution

<input type="image" src="bar.png" alt="Textual description of bar.png" />

```
<img src="house.gif" usemap="#map1"
alt="rooms of the house." />
<map id="map1" name="map1">
<area shape="rect" coords="0,0,42,42"
href="bedroom.html" alt="Bedroom" />
<area shape="rect" coords="0,0,21,21"
href="lounge.html" alt="Lounge"/>
</map>
```

Exceptions

 tags with empty string alt="" attributes won't
raise any issue. However this technic should be used in
two cases only:

When the image is decorative and it is not possible to use a CSS background image. For example, when the decorative is



generated via javascript with a source image coming from a database, it is better to use an tag rather than generate ČSS code.

When the image is not decorative but it's alt text would repeat a nearby text. For example, images contained in links should not duplicate the link's text in their alt attribute, as it would make the screen reader repeat the text twice.

```
<a href="flowers.html">
  <img src="tulip.gif" alt="" />
  A blooming tulip
</a>
```

In all other cases you should use CSS background images. See W3C WAI Web Accessibility Tutorials for information.

See

WCAG2, H24 - Providing text alternatives for the area elements of image maps

WCAG2, H36 - Using alt attributes on images used as submit buttons

WCAG2, H37 - Using alt attributes on img elements WCAG2, H67 - Using null alt text and no title attribute on img elements for images

that AT should ignore

WCAG2, H2 - Combining adjacent image and text links for the same resource

WCAG2, 1.1.1 - Non-text Content WCAG2, 2.4.4 - Link Purpose (In Context) WCAG2, 2.4.9 - Link Purpose (Link Only)

文件名称	违规行
index.html	5, 11, 15, 20, 41, 53, 65, 18
demo_index.html	40
index.html	5, 11, 15, 20, 41, 53, 65, 18
demo index.html	40

规则	规则 Source files should not have any duplicated blocks			
规则描述 An issue is created on a file as soo of duplicated code on this file		An issue is created on a file as soon as the of duplicated code on this file	re is at least one block	
文件名称		违规行		
OptionController.java		N/A		
PaperAnswerController.java		N/A		





PaperController.java	N/A
ProjectController.java	N/A
QuestionController.java	N/A
QuestionnaireController.java	N/A
UserController.java	N/A
OptionEntity.java	N/A
TempOptionEntity.java	N/A
DemoApplicationTests.java	N/A
DemoOptionTests.java	N/A
DemoPaperAnswerTests.java	N/A
DemoPaperTests.java	N/A
DemoProjectTests.java	N/A
DemoQuestionTests.java	N/A
DemoQuestionnaireTests.java	N/A
DemoUserTests.java	N/A

demo1

规则	Unused assignments should be removed



规则描述

A dead store happens when a local variable is assigned a value that is not read by any subsequent instruction. Calculating or retrieving a value

only to then overwrite it or throw it away, could indicate a serious error in the code. Even if it's not an error, it is at best a waste of resources

Therefore all calculated values should be used. Noncompliant Code Example

i = a + b; // Noncompliant; calculation result not used before value is overwritteni = compute();

Compliant Solution

i = a + b;

i += compute();

Exceptions

This rule ignores initializations to -1, 0, 1, null, undefined, [], {}, true, false and

"" . Variables that start with an underscore (e.g. ' _unused ') are ignored.

This rule also ignores variables declared with object destructuring using rest syntax (used to exclude some properties from object):

let {a, b, ...rest} = obj; // 'a' and 'b' are ok
doSomething(rest);

let [x1, x2, x3] = arr; // but 'x1' is noncompliant, as omitting syntax can be used: "let [, x2, x3] = arr;" doSomething(x2, x3);

See

MITRE, CWE-563 - Assignment to Variable without Use ('Unused Variable')

CERT, MSC13-C. - Detect and remove unused values CERT, MSC56-J. - Detect and remove superfluous code and values

文件名称	违规行
index.js	65
jquery-3.5.1.js	363, 947, 947, 1971, 1974, 2010
index.js	65
jquery-3.5.1.js	363, 947, 947, 1971, 1974, 2010
prettify.js	836, 1388, 1481

规则 Properties should not be duplicated



规则描述

CSS allows duplicate property names but only the last instance of a duplicated name determines the actual value that will be used for it.

Therefore, changing values of other occurrences of a duplicated name will have no effect and may cause misunderstandings and

This rule ignores \$sass, @less, and var(--custom-property) variable syntaxes.

Noncompliant Code Example

```
a {
 color: pink;
background: orange;
 color: orange
```

Compliant Solution

```
color: pink;
background: orange
```

文件名称	违规行
bootstrap-datetimepicker.css	200, 252, 351
bootstrap-theme.css	74, 345, 372
bootstrap.css	57, 2674
bootstrap-datetimepicker.css	200, 252, 351
bootstrap-theme.css	74, 345, 372
bootstrap.css	57, 2674

规则

Loop counters should not be assigned to from within the loop body

7478, 7521, 7901

429, 719



prettify.js

```
规则描述
                     Loop counters should not be modified in the body of the loop.
                    However other loop control variables representing logical values
                    may be modified in
                    the loop, for example a flag to indicate that something has been
                    completed, which is then tested in the for statement. Noncompliant Code Example
                    var names = [ "Jack", "Jim", "", "John" ];
for (var i = 0; i < names.length; i++) {
    if (!names[i]) {</pre>
                       i = names.length;
                                                                    // Non-Compliant
                     } else {
                       console.log(names[i]);
                     Compliant Solution
                    var names = [ "Jack", "Jim", "", "John" ];
for (var name of names) {
                     if (!name) {
break;
                                                       // Compliant
                     } else {
                       console.log(name);
文件名称
                                                                       违规行
jquery-3.5.1.js
                                                                       2639, 3493, 3500,
                                                                       7478, 7521, 7901,
                                                                       2639, 3493, 3500,
```

Act made		
规则	Functions should not be empty	



规则描述

There are several reasons for a function not to have a function body:

It is an unintentional omission, and should be fixed to prevent

an unexpected behavior in production.

It is not yet, or never will be, supported. In this case an exception should be thrown in languages where that mechanism is available.

The method is an intentionally-blank override. In this case a nested comment should explain the reason for the blank override.

```
Noncompliant Code Example
```

```
function foo() {
var foo = () => {};
Compliant Solution
function foo() {
// This is intentional
var foo = () => {
  do_something();
```

文件名称	违规行
index.js	283, 524, 542
jquery-3.5.1.js	337, 2309, 9732, 9871
index.js	283, 524, 542
jquery-3.5.1.js	337, 2309, 9732, 9871

"for of" should be used with Iterables 规则 规则描述

If you have an iterable, such as an array, set, or list, your best option for looping through its values is the for of syntax. Use a counter, and ... well you'll get the right behavior, but your code just isn't as clean or clear.

Noncompliant Code Example

```
const arr = [4, 3, 2, 1];
for (let i = 0; i < arr.length; i++) { // Noncompliant
console.log(arr[i]);
Compliant Solution
const arr = [4, 3, 2, 1];
for (let value of arr) {
console.log(value);
```



文件名称	违规行
index.js	245
bootstrap-datetimepicker.js	1599
index.js	245
bootstrap-datetimepicker.js	1599
prettify.js	208, 450, 462, 1383, 1466
sort.js	66, 80, 96, 106

规则 Track us	ses of "TODO" tags	
规则描述	TODO tags are commonly used to mark more code is required, but which the development later. Sometimes the developer will not have the forget to get back to that tag. This rule is meant to track those tags and not go unnoticed. Noncompliant Code Example function doSomething() { // TODO } See MITRE, CWE-546 - Suspicious Comme	ne time or will simply I to ensure that they do
文件名称		违规行
bootstrap.js		1759
jquery-3.5.1.js 790, 804, 4394, 44		790, 804, 4394, 4462
bootstrap.js		1759
jquery-3.5.1.js		790, 804, 4394, 4462
prettify.js		217, 550, 1025

ŧ	见则	Local variables should not be declared and then immediately returned or
		thrown



规则描述	Declaring a variable only to immediately bad practice. Some developers argue that the practice readability, because it enables them to explein returned. However, this variable is an internal implementation det the callers of the method. The method nation callers to know exactly what will be returned. Noncompliant Code Example function computeDurationInMilliseconds(var duration = (((hours * 60) + minutes) * return duration; } Compliant Solution function computeDurationInMilliseconds(return (((hours * 60) + minutes) * 60 + set) }	improves code plicitly name what is ail that is not exposed to me should be sufficient) { * 60 + seconds) * 1000 ;
文件名称		违规行
index.js		164, 231, 298, 331, 422
storage.js		9
index.js		164, 231, 298, 331, 422
storage.js		9

规则 "" and "" tags should be used





规则描述

The / and / <i> tags have exactly the same effect in most

web browsers, but there is a fundamental difference between them: and have a semantic meaning whereas and <i> only convey styling information like CSS. While can have simply no effect on a some devices with limited display or when a screen reader software is used by a blind person, will:

Display the text bold in normal browsers Speak with lower tone when using a screen reader such as Jaws

Consequently:

in order to convey semantics, the and <i> tags shall never be used,

in order to convey styling information, the and <i> should be avoided and CSS should be used instead.

Noncompliant Code Example

<i>car</i> <!-- Noncompliant --> train <!-- Noncompliant -->

Compliant Solution

car
train

Exceptions

This rule is relaxed in case of iconfonts usage.

<i class="..." aria-hidden="true" /> <!-- Compliant icon fonts
usage -->

文件名称	违规行
index.html	26, 30, 34, 38, 42
500.html	13
index.html	26, 30, 34, 38, 42
500.html	13

规则	Nested	blocks of code should not be left empty
规则描述		Most of the time a block of code is empty when a piece of code is really missing. So such empty block must be either filled or removed. Noncompliant Code Example
		for (var i = 0; i < length; i++) {} // Empty on purpose or missing piece of code ?
		Exceptions When a block contains a comment, this block is not considered to be empty. Moreover catch blocks are ignored.



文件名称	违规行
index.js	185, 187, 272, 274
jquery-3.5.1.js	749, 3331
index.js	185, 187, 272, 274
jquery-3.5.1.js	749, 3331

```
规则
          Functions should always return the same type
                     Unlike strongly typed languages, JavaScript does not enforce a return type on a function. This means that different paths through
规则描述
                     a function can
                     return different types of values, which can be very confusing to the user and significantly harder to maintain.

Noncompliant Code Example
                     function foo(a) { // Noncompliant
                      if (a = = = 1) {
                       return true;
                      return 3;
                     Compliant Solution
                     function foo(a) {
                      if (a = = = 1) {
                       return true;
                      return false;
                     Exceptions
                     Functions returning this are ignored.
                     function foo() {
                      // ...
                      return this;
                     Functions returning expressions having type any are ignored.
文件名称
                                                                        违规行
bootstrap-datetimepicker.js
                                                                        54
                                                                        34, 407, 412, 417
bootstrap.js
jquery-3.5.1.js
                                                                        7543
bootstrap-datetimepicker.js
                                                                        54
```

规则 Variables should be declared explicitly

bootstrap.js

iguery-3.5.1.js

34, 407, 412, 417

7543





文件名称	违规行
index.js	8, 12, 58, 295, 8, 12, 58, 295
sort.js	67, 95, 105

规则 Font declarations should contain at least one generic font family



iconfont.css

style.css

规则描述	If none of the font names defined in a fideclaration are available on the browser browser will display the text using its define a generic declaration of font or font-family to get a less degrad on the default browser font. All browsers a list of generic font matching these fam cursive, fantasy, Monospace. Noncompliant Code Example a { font-family: Helvetica, Arial, Verdana, Tathere is no generic font family in the list? } Compliant Solution a { font-family: Helvetica, Arial, Verdana, Tathere is no generic font family in the list? } See CSS Specification - Generic font famil	ault font. It's font family for each family for each ded situation than relying should implement flies: Serif, Sans-serif, whoma; /* Noncompliant; */
文件名称		违规行
bootstrap.css		275, 6612
demo.css		12
iconfont.css		9
style.css		15
bootstrap.css		275, 6612
demo.css		12

规则 Section	s of code should not be commented out	
规则描述	Programmers should not comment out co and reduces readability. Unused code should be deleted and can be control history if required.	. 3
文件名称		
index.html		11, 12, 11, 12, 43, 11, 12, 11, 12, 43

9 15

规则 A conditionally executed single line should be denoted by indentation



12, 161, 268, 12, 161, 268



index.js

b a c is u s if d d s f f	In the absence of enclosing curly braces, the line immediately after a conditional is the one that is conditionally executed. By both convention and good practice, such lines are indented. In the absence of both curly braces and indentation the intent of the original programmer is entirely unclear and perhaps not actually what is executed. Additionally, such code is highly likely to be confusing to maintainers. Noncompliant Code Example of (condition) // Noncompliant doTheThing(); comethingElseEntirely(); coo(); Compliant Solution of (condition) doTheOtherThing(); comethingElseEntirely(); comethingElseEntirely(); comethingElseEntirely();
文件名称	

<mark>规则</mark> Sections	Sections of code should not be commented out	
规则描述 Programmers should not comment out code as it bloats program and reduces readability. Unused code should be deleted and can be retrieved from sourc control history if required.		ode as it bloats programs be retrieved from source
文件名称		违规行
ShortUrlController.java		22, 28
DemoApplicationTests.java 203, 503		203, 503
DemoProjectTests.java 95		95
DemoQuestionnaireTests.java 80		80

规则	Unused local variables and functions should be removed	
アル・リリ	Ulluseu local variables allu lullcuolis siloulu be lellioveu	



```
If a local variable or a local function is declared but not used, it is dead code and should be removed. Doing so will improve maintainability because developers will not wonder what the variable or function is used for.

Noncompliant Code Example

function numberOfMinutes(hours) {
  var seconds = 0; // seconds is never used return hours * 60;
}

Compliant Solution

function numberOfMinutes(hours) {
  return hours * 60;
}
```

文件名称	违规行
index.js	223, 65, 223, 65
prettify.js	836

```
规则
        Functions should not have identical implementations
规则描述
                 When two functions have the same implementation, either it was
                 a mistake - something else was intended - or the duplication was intentional, but
                 may be confusing to maintainers. In the latter case, the code
                 should be refactored.
                 Noncompliant Code Example
                 function calculateCode() {
                  doTheThing();
                  doOtherThing();
                  return code;
                 function getName() { // Noncompliant
                  doTheThing();
                  doOtherThing();
                  return code;
                 Compliant Solution
                 function calculateCode() {
                  doTheThing();
                  doOtherThing();
                  return code;
                 function getName() {
                 return calculateCode();
                 Exceptions
                 Functions with fewer than 3 lines are ignored.
```





文件名称	违规行
index.js	82
jquery-3.5.1.js	10177
index.js	82
jquery-3.5.1.js	10177

规则	Multiline blocks should be enclosed in curl	y braces
----	---	----------



```
规则描述
                 Curly braces can be omitted from a one-line block, such as with
                 an if statement or for loop, but doing so can be
                 misleading and induce bugs.
                 This rule raises an issue when the whitespacing of the lines after a
                 one line block indicates an intent to include those lines in the
                 block, but
                 the omission of curly braces means the lines will be
                 unconditionally executed once.
                 Note that this rule considers tab characters to be equivalent to 1
                 space. If you mix spaces and tabs you will sometime's see issues in
                 code which
                 looks fine in your editor but is confusing when you change the size
                 of tabs.
                 Noncompliant Code Example
                 if (condition)
                  firstActionInBlock();
                  secondAction(); // Noncompliant; executed unconditionally
                 thirdAction();
                 if (condition) firstActionInBlock(); secondAction(); //
                 Noncompliant; secondAction executed unconditionally
                 if (condition) firstActionInBlock(); // Noncompliant
                  secondAction(); // Executed unconditionally
                 if (condition); secondAction(); // Noncompliant; secondAction
                 executed unconditionally
                 let str = undefined;
                 for (let i = 0; i < array.length; i++)
                  str = array[i];
                  doTheThing(str); // Noncompliant; executed only on last array
                 element
                 Compliant Solution
                 if (condition) {
                  firstActionInBlock();
                  secondAction();
                 thirdAction();
                 let str = undefined;
                 for (let i = 0; i < array.length; <math>i++) {
                  str = array[i];
                  doTheThing(str);
                 See
                    MITRE, CWE-483 - Incorrect Block Delimitation
```

· 文件名称	违
index.is	9. 38. 9. 38



+mmu	
· , c , · s	micolons should be removed
规则描述	Extra semicolons (;) are usually introduced by mistake, for example because:
	It was meant to be replaced by an actual statement, but this was forgotten. There was a typo which lead the semicolon to be doubled, i.e. ;;
	There was a misunderstanding about where semicolons are required or useful.
	Noncompliant Code Example
	var x = 1;; // Noncompliant
	function foo() { }; // Noncompliant
	Compliant Solution
	var x = 1;
	function foo() { }
	See
	CERT, MSC12-C Detect and remove code that has no effect or is never executed
	CERT, MSC51-J Do not place a semicolon immediately following an if, for, or while condition CERT, EXP15-C Do not place a semicolon on the same line as
	an if, for, or while statement

文件名称	违规行
bootstrap-datetimepicker.zh-CN.js	5
jquery-3.5.1.js	3029
bootstrap-datetimepicker.zh-CN.js	5
jquery-3.5.1.js	3029

	规则	A "while	" loop should be used instead of a "for" loop
When only the condition expression is defined in a forthe initialization and increment expressions are missing while loop should be used instead to increase readable Noncompliant Code Example		When only the condition expression is defined in a for loop, and the initialization and increment expressions are missing, a while loop should be used instead to increase readability. Noncompliant Code Example for (;condition;) { /**/ }	
	Compliant Solution		,,,,,
			while (condition) { /**/ }





文件名称	违规行
jquery-3.5.1.js	2282, 2290, 2282, 2290

规则	规则 CSS files should not be empty		
规则描述		This rule raises an issue when a CSS file is only spaces).	empty (ie: containing
文件名称	ζ		违规行
index.cs	SS		1, 1, 1, 1

<mark>规则 Arguments to built-in functions should match documented types</mark>	
规则描述 The types of the arguments to built-in functions are sp the JavaScript language specifications. Calls to these furshould conform to the documented types, otherwise the result will most be what was expected (e.g.: the call would always return Noncompliant Code Example	
	const isTooSmall = Math.abs(x < 0.0042);
	Compliant Solution
const isTooSmall = Math.abs(x) < 0.0042;	
文件名称	
jquery-3.5.1.js 7810, 7810	

<mark>规则</mark> Duplicat	ted font names should be removed
规则描述	Having duplicated font names doesn't help to read the font declaration and may be an indicator the author of the line was not sure how to configure it. This rule raises an issue when font or font-family properties contain a duplicated font name. This rule ignores \$sass, @less, and var(custom-property) variable syntaxes. Noncompliant Code Example a { font-family: 'Georgia', Georgia, serif; /* Noncompliant; 'Georgia' is duplicated */ } Compliant Solution a { font-family: Georgia, serif; }
文件名称	违规行



bootstrap.css 112, 112

```
规则
         Special identifiers should not be bound or assigned
规则描述
                    JavaScript has special identifiers that, while not reserved, still
                    should not be used as identifiers. They include:
                       eval - evaluates a string as JavaScript code
                       arguments - used to access function arguments through
                    indexed properties.
                       undefined - returned for values and properties that have not
                    yet been assigned
                       NaN - Not a Number; returned when math functions fail.
                       Infinity - when a number exceeds the upper limit of the
                    floating point numbers
                    These words should not be bound or assigned, because doing so
                    would overwrite the original definitions of these identifiers. What's
                    more, assigning
                    or binding some of these names will generate an error in
                    JavaScripť strict mode code.
                    Noncompliant Code Example
                    eval = 17; // Noncompliant
                    arguments++; // Noncompliant
                    ++eval; // Noncompliant
                    var obj = { set p(arguments) { } }; // Noncompliant
var eval; // Noncompliant
                   try { } catch (arguments) { } // Noncompliant
function x(eval) { } // Noncompliant
function arguments() { } // Noncompliant
var y = function eval() { }; // Noncompliant
var f = new Function("arguments", "return 17;"); // Noncompliant
                    function fun() {
                     if (arguments.length == 0) { // Compliant
                      // do something
                    Compliant Solution
                    result = 17;
                    args++;
                    + + result;
                    var obj = { set p(arg) { } };
                    var rešult;
                    try { } catch (args) { }
                    function x(arg) { }
                    function args() { }
                    var y = function fun() { };
var f = new Function("args", "return 17;");
                    function fun() {
                     if (arguments.length == 0) {
                      // do something
```



文件名称	违规行
bootstrap-datetimepicker.js	36, 36

```
Functions should not be defined inside loops
规则
规则描述
                      Defining a function inside of a loop can yield unexpected results.
                      Such a function keeps references to the variables which are
                      defined in outer
                      scopes. All function instances created inside the loop therefore see
                      the same values for these variables, which is probably not
                      Noncompliant Code Example
                      var funs = [];
for (var i = 0; i < 13; i++) {
                       funs[i] = function() { // Non-Compliant
                        return i;
                       };
                     console.log(funs[0]()); // 13 instead of 0 console.log(funs[1]()); // 13 instead of 1 console.log(funs[2]()); // 13 instead of 2 console.log(funs[3]()); // 13 instead of 3
文件名称
                                                                            违规行
jquery-3.5.1.js
                                                                            7469, 7469
```

```
规则
         Array indexes should be numeric
规则描述
                    Associative arrays allow you to store values in an array with either
                    numeric or naméd indexés. But creating and populating an object
                    is just as
                   easy as an array, and more reliable if you need named members.
Noncompliant Code Example
                   let arr = [];
arr[0] = 'a';
arr['name'] = 'bob'; // Noncompliant
                    arr[1] = 'foo';
                    Compliant Solution
                    let obj = {
                    name: 'bob',
                     arr: ['a', 'foo<sup>'</sup>]
文件名称
                                                                    违规行
jquery-3.5.1.js
                                                                    2758, 2758
```

3491, 3491



jquery-3.5.1.js

```
"for" loop increment clauses should modify the loops' counters
规则
                   It can be extremely confusing when a for loop's counter is incremented outside of its increment clause. In such cases, the
规则描述
                   increment
                   should be moved to the loop's increment clause if at all possible.
                    Noncompliant Code Example
                   for (i = 0; i < 10; j++) { // Noncompliant }
                    // ...
i++;
                    Compliant Solution
                   for (i = 0; i < 10; i++, j++) {
                    // ...
                    Or
                   for (i = 0; i < 10; i++) {
                    j++;
文件名称
                                                                     违规行
```

<mark>规则</mark> Collection	ion and array contents should be used	
规则描述		
	function getLength(a, b, c) { const strings = []; // Noncompliant strings.push(a); strings.push(b); strings.push(c);	
	return a.length + b.length + c.length; }	
	Compliant Solution	
	function getLength(a, b, c) { return a.length + b.length + c.length; }	
文件名称	违规行	
index.js	15, 15	





```
规则
         Functions should not be called both with and without "new"
规则描述
                   Constructor functions, which create new object instances, must
                   only be called with new . Non-constructor functions must not.
                   Mixing
                   these two usages could lead to unexpected results at runtime.
                   Noncompliant Code Example
                   function getNum() {
                    return 5;
                   function Num(numeric, alphabetic) {
                    this.numeric = numeric;
this.alphabetic = alphabetic;
                   var myFirstNum = getNum();
                   var my2ndNum = new getNum(); // Noncompliant. An empty object is returned, NOT 5
                   var myNumObj1 = new Num();
var myNumObj2 = Num(); // Noncompliant. undefined is
returned, NOT an object
文件名称
                                                                  违规行
bootstrap-datetimepicker.js
                                                                  743, 743
```

规则 Strict equality operators should not be used with dissimilar types





文件名称	
jquery-3.5.1.js	2746, 2746

规则 Function parameters, caught exceptions and foreach variables' initial values should not be ignored





规则描述	While it is technically correct to assign to function bodies, it reduces code readabilit won't be able to tell whether the original parameter or sis being accessed without going through Moreover, some developers might also expect assignment to be visible to callers, which is not the calvisibility could confuse them. Instead, all parameters, cau foreach parameters should be treated as a Noncompliant Code Example function MyClass(name, strings) { name = foo; // Noncomplian for (var str of strings) { str = ""; // Noncompliant } }	some temporary variable the whole function. s of function parameters se, and this lack of aght exceptions, and constants.
文件名称		违规行
jquery-3.5.1.js		2707, 2707

规则 "<html>" element should have a language attribute



规则描述

The https://www.ncbe.ni.gov/result-lang-attribute in order to identify the default language of a document.

It enables assistive technologies, such as screen readers, to provide a comfortable reading experience by adapting the pronunciation and

accent to the language. It also helps braille translation software, telling it to switch the control codes for accented characters for instance.

Other benefits of marking the language include:

assisting user agents in providing dictionary definitions or helping users benefit from translation tools. improving search engine ranking.

Both the lang and the xml:lang attributes can take only one value.

Noncompliant Code Example

<!DOCTYPE html>

<html> <!-- Noncompliant --> <head>

<title>A page written in english</title>

<meta content="text/html; charset=utf-8" /> </head>

 <body> ... </body> </html>

Compliant Solution

<!DOCTYPE html>
<html lang="en">

<head>

<title>A page written in english</title>

<meta content="text/html; charset=utf-8" />

</head>

 <body> ... </body> </html>

<!DOCTYPE html>

 <head> <title>A page written in english</title>

<meta content="text/html; charset=utf-8" />





```
    </head> &nbsp;
&nbsp;&nbsp;&nbsp; <body> &nbsp;&nbsp;&nbsp;&nbsp;
&nbsp;&nbsp;&nbsp; ... &nbsp;&nbsp;
&nbsp;&nbsp;&nbsp; </body>
</html>

See

WCAG2, H57 - Using language attributes on the html element
WCAG2, 3.1.1 - Language of Page

文件名称

demo_index.html

2, 2
```

<mark>规则</mark> Variable	es should not be self-assigned	
规则描述	There is no reason to re-assign a variable statement is redundant and should be rer assignment is a mistake and some other value or variable was inteinstead. Noncompliant Code Example function setName(name) { name = name; }	noved, or the re-
	Compliant Solution	
	<pre>function setName(name) { this.name = name; }</pre>	
	See	
	CERT, MSC12-C Detect and remove or is never executed	code that has no effect
立	1	
NI HIS		9535, 9535
1944519 5.5.1.15		10000, 0000

规则	Media features should be valid
スパリスリ	INICUIA ICALUICS SIIUUIU DE VAIIU



·		The W3C specifications define the valid media features. Only the official and browser-specific media features should be used to get the expected impact in the final rendering. Noncompliant Code Example @media screen and (unknown: 1000px) { } Compliant Solution @media screen and (width: 1000px) { } See CSS Specification - @media rule
		@media screen and (unknown: 1000px) { }
@media screen and (unknown: 1000px) { }		Compliant Solution
		@media screen and (width: 1000px) { }
Compliant Solution		See
Compliant Solution @media screen and (width: 1000px) { }		CSS Specification - @media rule
Compliant Solution @media screen and (width: 1000px) { } See	立 性夕称	

文件名称	违规行
bootstrap.css	6332, 6332

<mark>规则</mark> Strings a	and Boxed types should be compared using "equals()"			
规则描述	It's almost always a mistake to compare two instances of java.lang.String or boxed types like java.lang.Integer using reference equality == or != , because it is not comparing actual value but locations in memory. Noncompliant Code Example			
	String firstName = getFirstName(); // String overrides equals String lastName = getLastName();			
	if (firstName == lastName) $\{ \}$; // Non-compliant; false even if the strings have the same value			
	Compliant Solution			
	String firstName = getFirstName(); String lastName = getLastName();			
	if (firstName != null & amp; & amp; firstName.equals(lastName)) { };			
	See			
	MITRE, CWE-595 - Comparison of Object References Instead of Object Contents MITRE, CWE-597 - Use of Wrong Operator in String			
Comparison CERT, EXP03-J Do not use the equality operators where the comparing values of boxed				
	primitives CERT, EXP50-J Do not confuse abstract object equality wit			
文件名称	违规行			
PaperController.	java 61			





规则 Empty arrays and collections should be returned instead of null



```
Returning null instead of an actual array or collection forces callers of the method to explicitly test for nullity, making them
规则描述
                  more
                  complex and less readable.
                  Moreover, in many cases, null is used as a synonym for empty.
                  Noncompliant Code Example
                  public static List<Result> getResults() {
                   return null;
                                                  // Noncompliant
                  public static Result[] getResults() {
                                                  // Noncompliant
                   return null;
                  public static void main(String[] args) {
                   Result[] results = getResults();
                   if (results != null) {
                                                  // Nullity test required to prevent
                  NPÉ
                    for (Result result: results) {
                     /* ... */
                  Compliant Solution
                  public static Result[] getResults() {
  return new Result[0];
                  public static void main(String[] args) {
                   for (Result result: getResults()) {
                    /* i... */
                  See
                     CERT, MSC19-C. - For functions that return an array, prefer
                  returning an empty array
                   over a null value
                     CERT, MET55-J. - Return an empty array or collection instead
                  of a null value for
                   methods that return an array or collection
```

文件名称	违规行
UUIDUtil.java	21





规则描述

Creating a new Random object each time a random value is needed is inefficient and may produce numbers which are not random depending

random depending on the JDK. For better efficiency and randomness, create a single Random, then store, and reuse it.

The Random() constructor tries to set the seed with a distinct value every time. However there is no guarantee that the seed will be

random or even uniformly distributed. Some JDK will use the current time as seed, which makes the generated numbers not random at all.

This rule finds cases where a new Random is created each time a method is invoked and assigned to a local random variable.

Noncompliant Code Example

public void doSomethingCommon() {

Random rand = new Random(); // Noncompliant; new instance created with each invocation

int rValue = rand.nextInt();
//...

. .

Compliant Solution

private Random rand = SecureRandom.getInstanceStrong(); // SecureRandom is preferred to Random

public void doSomethingCommon() {
 int rValue = this.rand.nextInt();
 //...

Exceptions

A class which uses a Random in its constructor or in a static main function and nowhere else will be ignored by this rule. See

OWASP Top 10 2017 Category A6 - Security Misconfiguration

文件名称	违规行
ShortUrlController.java	44

规则	Labels should not be used



```
Labels are not commonly used, and many developers do not understand how they work. Moreover, their usage makes the control flow harder to follow, which reduces the code's readability. Noncompliant Code Example

myLabel: {
let x = doSomething();
if (x > 0) {
break myLabel;
}
doSomethingElse();
}

Compliant Solution
let x = doSomething();
if (x <= 0) {
doSomethingElse();
}
&nbsp;

文件名称
prettify.js

Labels are not commonly used, and many developers do not understand how they work. Moreover, their usage makes the control reduced here is a control flow. Moreover, their usage makes the control flow harder to follow, which reduced here is a control flow harder to follow, which reduced here is a control flow harder to follow, which reduced here is a control flow harder to follow, which reduced here is a control flow harder to follow, which reduced here is a control flow harder to follow, which reduced here is a control flow harder to follow, which reduced here is a control flow harder to follow, which reduced here is a control flow harder to follow, which reduced here is a control flow here
```

规则 A condi	tionally executed single line should be denoted by indentation
规则描述	In the absence of enclosing curly braces, the line immediately after a conditional is the one that is conditionally executed. By both convention and good practice, such lines are indented. In the absence of both curly braces and indentation the intent of the original programmer is entirely unclear and perhaps not actually what is executed. Additionally, such code is highly likely to be confusing to maintainers. Noncompliant Code Example
	if (condition) // Noncompliant doTheThing();
	doTheOtherThing(); somethingElseEntirely();
	foo();
	Compliant Solution
	if (condition) doTheThing();
	doTheOtherThing(); somethingElseEntirely();
	foo();
文件名称	·





UserService.java	45
------------------	----

tool Litility of	acces should not have public constructors			
	asses should not have public constructors			
规则描述	Utility classes, which are collections of static members, are not meant to be instantiated. Even abstract utility classes, which can be extended, should not have public constructors. Java adds an implicit public constructor to every class which does not define at least one explicitly. Hence, at least one non-public constructor			
	should be defined. Noncompliant Code Example			
	class StringUtils { // Noncompliant			
	<pre>public static String concatenate(String s1, String s2) { return s1 + s2; }</pre>			
	}			
	Compliant Solution			
	class StringUtils { // Compliant			
	<pre>private StringUtils() { throw new IllegalStateException("Utility class"); }</pre>			
	<pre>public static String concatenate(String s1, String s2) { return s1 + s2; }</pre>			
	}			
	Exceptions When class contains public static void main(String[] args) method it is not considered as utility class and will be ignored by this rule.			
文件名称	违规行			
UUIDUtil.java	5			

规则	Linux and Transition to the order of a should be a recovered	
ナル・ル・	Unused "private" methods should be removed	



```
规则描述
                   private methods that are never executed are dead code:
                  unnecessary, inoperative code that should be removed. Cleaning
                  out dead code
                  decreases the size of the maintained codebase, making it easier to
                  understand the program and preventing bugs from being
                   Note that this rule does not take reflection into account, which
                  means that issues will be raised on private methods that are only
                  accessed using the reflection API.
                   Noncompliant Code Example
                  public class Foo implements Serializable
                  private Foo(){} //Compliant, private empty constructor intentionally used to prevent any direct instantiation of a class.
                   public static void doSomething(){
                     Foo foo = new Foo():
                   private void unusedPrivateMethod(){...}
                   private void writeObject(ObjectOutputStream s){...} //Compliant,
                  relates to the java serialization mechanism
                   private void readObject(ObjectInputStream in){...} //Compliant,
                   relates to the java serialization mechanism
                   Compliant Solution
                  public class Foo implements Serializable
                  private Foo(){} //Compliant, private empty constructor intentionally used to prevent any direct instantiation of a class. public static void_doSomething(){
                     Foo foo = new Foo();
                   private void writeObject(ObjectOutputStream s){...} //Compliant,
                   relates to the java serialization mechanism
                   private void readObject(ObjectInputStream in){...} //Compliant,
                  relates to the java serialization mechanism
                   Exceptions
                   This rule doesn't raise any issue on annotated methods.
文件名称
                                                                 违规行
ShortUrlController.java
                                                                 43
```

1.4. 质量配置

质量配置	css:Sonar way Bug:15 坏味道:8		
规则		类型	违规级别
Single line comment syntax should not be used		Bug	阻断
Color definitions should be valid		Bug	阻断



CSS properties should be valid	Bug	阻断
Units should be valid	Bug	阻断
Shorthand properties that override related longhand properties should be avoided	Bug	严重
"linear-gradient" directions should be valid	Bug	严重
Expressions within "calc" should be valid	Bug	严重
Selectors should be known	Bug	严重
"at-rules" should be valid	Bug	主要
Media features should be valid	Bug	主要
Font declarations should contain at least one generic font family	Bug	主要
"!important" should not be used on "keyframes"	Bug	主要
Pseudo-element selectors should be valid	Bug	主要
Properties should not be duplicated	Bug	主要
Pseudo-class selectors should be valid	Bug	主要
Selectors should not be duplicated	坏味道	主要
CSS files should not be empty	坏味道	主要
Duplicated font names should be removed	坏味道	主要
Strings should not contain new lines	坏味道	主要
Empty blocks should be removed	坏味道	主要
Multi-line comments should not be empty	坏味道	次要
Extra semicolons should be removed	坏味道	次要
Duplicate imports should be removed	坏味道	次要

质量配置	<mark>] java:Sonar way Bug:140 漏洞:27 坏味道:256</mark>		
规则		类型	违规级别
Methods should not call same-class methods with incompatible "@Transactional" values		Bug	阻断
Methods "wait()", "notify()" and "notifyAll()" should not be called on Thread instances		Bug	阻断
Files opened in append mode should not be used with ObjectOutputStream		l Bug	阻断
"PreparedStatement" and "ResultSet" methods should be called with valid indices		Bug	阻断
"wait()" should be used instead of "Thread.sleep()" when a lock is held		Bug	阻断
Printf-style format strings should not lead to unexpected behavior at runtime		Bug	阻断
"@SpringBootApplication" and "@ComponentScan" should not be used in the default package		Bug	阻断
"@Controller" cla		Bug	阻断
Loops should no	t be infinite	Bug	阻断
"wait" should not be called when multiple locks are held		Bug	阻断



Double shocked locking should not be used	Dua	70140
Double-checked locking should not be used	Bug	阻断
Resources should be closed	Bug	<u>阻断</u> 严重
Regular expressions should be syntactically valid Locks should be released	Bug	厂里 严重
	Bug	严重
Jump statements should not occur in "finally" blocks	Bug	厂里
"Random" objects should be reused	Bug	严重
"super.finalize()" should be called at the end of "Object.finalize()" implementations	Bug	严重
Dependencies should not have "system" scope	Bug	严重
Assertions comparing incompatible types should not be made	Bug	严重
Assertion methods should not be used within the try block of a try-catch catching an Error	Bug	严重
The signature of "finalize()" should match that of "Object.finalize()"	Bug	严重
Only one method invocation is expected when testing checked exceptions	Bug	严重
"runFinalizersOnExit" should not be called	Bug	严重
Regex boundaries should not be used in a way that can never be matched	Bug	严重
"ScheduledThreadPoolExecutor" should not have 0 core threads	Bug	严重
Regex patterns following a possessive quantifier should not always fail	Bug	严重
Hibernate should not update database schemas	Bug	严重
Zero should not be a possible denominator	Bug	严重
Back references in regular expressions should only refer to capturing groups that are matched before the reference	Bug	严重
Regex lookahead assertions should not be contradictory	Bug	严重
JUnit5 inner test classes should be annotated with @Nested	Bug	严重
Map "computeIfAbsent()" and "computeIfPresent()" should not be used to add "null" values.	Bug	严重
Getters and setters should access the expected fields	Bug	严重
"toString()" and "clone()" methods should not return null	Bug	主要
Servlets should not have mutable instance fields	Bug	主要
Value-based classes should not be used for locking	Bug	主要
Alternatives in regular expressions should be grouped when used with anchors	Bug	主要
Regex alternatives should not be redundant	Bug	主要
Conditionally executed code should be reachable	Bug	主要
Overrides should match their parent class methods in synchronization	Bug	主要



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Bug	主要
	Bug



Values should not be uselessly incremented	Bug	主要
Silly String operations should not be made	Bug	主要
Null pointers should not be dereferenced	Bug	主要
Expressions used in "assert" should not produce side effects	Bug	主要
Classes extending java.lang.Thread should override the "run" method	Bug	主要
Loop conditions should be true at least once	Bug	主要
A "for" loop update clause should move the counter in the right direction	Bug	主要
Intermediate Stream methods should not be left unused	Bug	主要
Variables should not be self-assigned	Bug	主要
Consumed Stream pipelines should not be reused	Bug	主要
Inappropriate regular expressions should not be used	Bug	主要
"=+" should not be used instead of "+="	Bug	主要
Loops with at most one iteration should be refactored	Bug	主要
Classes should not be compared by name	Bug	主要
Identical expressions should not be used on both sides of a binary operator	Bug	主要
JUnit5 test classes and methods should not be silently ignored	Bug	主要
"Thread.run()" should not be called directly	Bug	主要
"null" should not be used with "Optional"	Bug	主要
"read" and "readLine" return values should be used	Bug	主要
Strings and Boxed types should be compared using "equals()"	Bug	主要
Methods should not be named "tostring", "hashcode" or "equal"	Bug	主要
Non-thread-safe fields should not be static	Bug	主要
Getters and setters should be synchronized in pairs	Bug	主要
Unary prefix operators should not be repeated	Bug	主要
DateTimeFormatters should not use mismatched year and week numbers	Bug	主要
"StringBuilder" and "StringBuffer" should not be instantiated with a character	Bug	主要
Week Year ("YYYY") should not be used for date formatting	Bug	主要
"equals" method overrides should accept "Object" parameters	Bug	主要
Exceptions should not be created without being thrown	Bug	主要
Collection sizes and array length comparisons should make sense	Bug	主要
"ThreadLocal" variables should be cleaned up when no longer used	Bug	主要



Synchronization should not be done on instances of value-based classes	Bug	主要
Related "if/else if" statements should not have the same condition	Bug	主要
All branches in a conditional structure should not have exactly the same implementation	Bug	主要
The regex escape sequence \cX should only be used with characters in the @ range	Bug	主要
"Iterator.hasNext()" should not call "Iterator.next()"	Bug	主要
"String" calls should not go beyond their bounds	Bug	主要
Raw byte values should not be used in bitwise operations in combination with shifts	Bug	主要
Custom serialization method signatures should meet requirements	Bug	主要
"Externalizable" classes should have no- arguments constructors	Bug	主要
"iterator" should not return "this"	Bug	主要
Child class methods named for parent class methods should be overrides	Bug	主要
Inappropriate "Collection" calls should not be made	Bug	主要
"compareTo" should not be overloaded	Bug	主要
AssertJ assertions with "Consumer" arguments should contain assertion inside consumers	Bug	主要
"volatile" variables should not be used with compound operators	Bug	主要
Map values should not be replaced unconditionally	Bug	主要
"getClass" should not be used for synchronization		主要
Assignment of lazy-initialized members should be the last step with double-checked locking	Bug	主要
Min and max used in combination should not always return the same value	Bug	主要
"compareTo" results should not be checked for specific values	Bug	次要
Regex repetition pattern's body should not match the empty String	Bug	次要
AssertJ assertions "allMatch" and "doesNotContains" should also test for emptiness	Bug	次要
Double Brace Initialization should not be used	Bug	次要
Boxing and unboxing should not be immediately reversed	Bug	次要
"Iterator.next()" methods should throw "NoSuchElementException"	Bug	次要
"@NonNull" values should not be set to null	Bug	次要
Neither "Math.abs" nor negation should be used on numbers that could be "MIN_VALUE"	Bug	次要
The value returned from a stream read should be checked	Bug	次要



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Method parameters, caught exceptions and foreach variables' initial values should not be ignored	Bug	次要
"equals(Object obj)" and "hashCode()" should be overridden in pairs	Bug	次要
"Serializable" inner classes of non-serializable classes should be "static"	Bug	次要
Math operands should be cast before assignment	Bug	次要
Ints and longs should not be shifted by zero or more than their number of bits-1	Bug	次要
"compareTo" should not return "Integer.MIN_VALUE"	Bug	次要
The non-serializable super class of a "Serializable" class should have a no-argument constructor	Bug	次要
"toArray" should be passed an array of the proper type	Bug	次要
Non-primitive fields should not be "volatile"	Bug	次要
"equals(Object obj)" should test argument type	Bug	次要
Return values should not be ignored when they contain the operation status code	Bug	次要
A secure password should be used when connecting to a database	漏洞	阻断
XML parsers should not be vulnerable to XXE attacks	漏洞	阻断
Default EJB interceptors should be declared in "ejb-jar.xml"	漏洞	阻断
Struts validation forms should have unique names	漏洞	阻断
Cipher Block Chaining IV's should be unpredictable	漏洞	严重
Persistent entities should not be used as arguments of "@RequestMapping" methods	漏洞	严重
Defined filters should be used	漏洞	严重
JWT should be signed and verified with strong cipher algorithms	漏洞	严重
Cipher algorithms should be robust	漏洞	严重
Encryption algorithms should be used with secure mode and padding scheme	漏洞	严重
A new session should be created during user authentication	漏洞	严重
Weak SSL/TLS protocols should not be used	漏洞	严重
Cryptographic keys should be robust	漏洞	严重
"HttpServletRequest.getRequestedSessionId()" should not be used	漏洞	严重
LDAP connections should be authenticated	漏洞	严重
Server hostnames should be verified during SSL/TLS connections	漏洞	严重
"HttpSecurity" URL patterns should be correctly ordered	漏洞	严重
Basic authentication should not be used	漏洞	严重



Passwords should not be stored in plain-text or with a fast hashing algorithm "SecureRandom" seeds should not be predictable laim methods should not be used Hashes should include an unpredictable salt 漏洞 严重 Authorizations should be based on strong decisions OpenSAML2 should be configured to prevent authentication bypass "ActiveMQConnectionFactory" should not be vulnerable to malicious code deserialization Exceptions should not be thrown from servlet methods Tests should include assertions Child class fields should not shadow parent class fields Assertions should be complete "Solone" should not be overridden "switch" statements should not be performed Switch cases should and to be invariant Silly bit operations should not be performed Switch cases should end with an unconditional break" statement Wethods and field names should not be the same or differ only by capitalization JUnit test cases should not be used Future keywords should not be used as names Short-circuit logic should be last Whitespace and control characters in literals should be explicit IllegalMonitorStateException should not be writing in the should be performed should be explicit IllegalMonitorStateException should not be same or differ only by capitalization Juli test cases should be last Whitespace and control characters in literals should be explicit IllegalMonitorStateException should not be same or differ only by capitalization Juli the space and control characters in literals should be explicit IllegalMonitorStateException should not be sould should not be conting the performed should not be capital performed should not be capital performed should not be conting the should not be returned from a "Boolean" should should not be returned from a "Boolean" should not b		I	
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String offset-based methods should be preferred 坏味道 严重 for finding substrings from offsets		坏味道	严重
	String offset-based methods should be preferred for finding substrings from offsets	坏味道	严重



Instance methods should not write to "static" fields	坏味道	严重
"indexOf" checks should not be for positive numbers	坏味道	严重
Factory method injection should be used in "@Configuration" classes	坏味道	严重
Empty lines should not be tested with regex MULTILINE flag	坏味道	严重
Mocking all non-private methods of a class should be avoided	坏味道	严重
"Object.finalize()" should remain protected (versus public) when overriding	坏味道	严重
"Cloneables" should implement "clone"	坏味道	严重
"Object.wait()" and "Condition.await()" should be called inside a "while" loop	坏味道	严重
Methods should not be empty	坏味道	严重
"equals" method parameters should not be marked "@Nonnull"	坏味道	严重
Classes should not access their own subclasses during initialization	坏味道	严重
Exceptions should not be thrown in finally blocks	坏味道	严重
Method overrides should not change contracts	坏味道	严重
"for" loop increment clauses should modify the loops' counters	坏味道	严重
Constants should not be defined in interfaces	坏味道	严重
Generic wildcard types should not be used in return types	坏味道	严重
Execution of the Garbage Collector should be triggered only by the JVM	坏味道	严重
Derived exceptions should not hide their parents' catch blocks	坏味道	严重
Methods setUp() and tearDown() should be correctly annotated starting with JUnit4	坏味道	严重
Conditionals should start on new lines	坏味道	严重
A conditionally executed single line should be denoted by indentation	坏味道	严重
Class members annotated with "@VisibleForTesting" should not be accessed from production code	坏味道	严重
Fields in a "Serializable" class should either be transient or serializable	坏味道	严重
"switch" statements should have "default" clauses	坏味道	严重
JUnit assertions should not be used in "run" methods	坏味道	严重
"readResolve" methods should be inheritable	坏味道	严重
Constant names should comply with a naming convention	坏味道	严重
"static" base class members should not be accessed via derived types	坏味道	严重
String literals should not be duplicated	坏味道	严重



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Class names should not shadow interfaces or superclasses	坏味道	严重
"String#replace" should be preferred to "String#replaceAll"	坏味道	严重
Try-with-resources should be used	坏味道	严重
Source files should not have any duplicated blocks	坏味道	主要
Regexes containing characters subject to normalization should use the CANON_EQ flag	坏味道	主要
Boolean expressions should not be gratuitous	坏味道	主要
Similar tests should be grouped in a single Parameterized test	坏味道	主要
Track uses of "FIXME" tags	坏味道	主要
Tests should be stable	坏味道	主要
"@Deprecated" code marked for removal should never be used	坏味道	主要
Parameters should be passed in the correct order	坏味道	主要
Unused "private" methods should be removed	坏味道	主要
"ResultSet.isLast()" should not be used	坏味道	主要
"URL.hashCode" and "URL.equals" should be avoided	坏味道	主要
Names of regular expressions named groups should be used	坏味道	主要
Try-catch blocks should not be nested	坏味道	主要
Character classes in regular expressions should not contain the same character twice	坏味道	主要
Synchronized classes Vector, Hashtable, Stack and StringBuffer should not be used	坏味道	主要
Redundant pairs of parentheses should be removed	坏味道	主要
"Lock" objects should not be "synchronized"	坏味道	主要
Multiline blocks should be enclosed in curly braces	坏味道	主要
Classes with only "static" methods should not be instantiated	坏味道	主要
Labels should not be used	坏味道	主要
"static" members should be accessed statically	坏味道	主要
Utility classes should not have public constructors	坏味道	主要
Unused type parameters should be removed	坏味道	主要
Assertion arguments should be passed in the correct order	坏味道	主要
Local variables should not shadow class fields	坏味道	主要
AssertJ "assertThatThrownBy" should not be used alone	坏味道	主要
"switch" statements should not have too many "case" clauses	坏味道	主要
Regular expressions should not be too complicated	坏味道	主要
Deprecated elements should have both the annotation and the Javadoc tag	坏味道	主要



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Assignments should not be made from within sub-expressions	坏味道	主要
Test methods should not contain too many assertions	坏味道	主要
Inner class calls to super class methods should be unambiguous	坏味道	主要
Ternary operators should not be nested	坏味道	主要
'List.remove()' should not be used in ascending 'for' loops	坏味道	主要
Exception testing via JUnit ExpectedException rule should not be mixed with other assertions	坏味道	主要
Only one method invocation is expected when testing runtime exceptions	坏味道	主要
Nullness of parameters should be guaranteed	坏味道	主要
Unused method parameters should be removed	坏味道	主要
Only static class initializers should be used	坏味道	主要
Vararg method arguments should not be confusing	坏味道	主要
Unused "private" fields should be removed	坏味道	主要
Collapsible "if" statements should be merged	坏味道	主要
Unused labels should be removed	坏味道	主要
JUnit assertTrue/assertFalse should be simplified to the corresponding dedicated assertion	坏味道	主要
Whitespace for text block indent should be consistent	坏味道	主要
Throwable and Error should not be caught	坏味道	主要
Printf-style format strings should be used correctly	坏味道	主要
"Integer.toHexString" should not be used to build hexadecimal strings	坏味道	主要
Constructors of an "abstract" class should not be declared "public"	坏味道	主要
Constructors should not be used to instantiate "String", "BigInteger", "BigDecimal" and primitive-wrapper classes	坏味道	主要
Enumeration should not be implemented	坏味道	主要
Empty arrays and collections should be returned instead of null	坏味道	主要
Objects should not be created only to "getClass"	坏味道	主要
Primitives should not be boxed just for "String" conversion	坏味道	主要
Exceptions should be either logged or rethrown but not both	坏味道	主要
"@Override" should be used on overriding and implementing methods	坏味道	主要
"Preconditions" and logging arguments should not require evaluation	坏味道	主要
"entrySet()" should be iterated when both the key and value are needed	坏味道	主要
"Class.forName()" should not load JDBC 4.0+drivers	坏味道	主要



Two branches in a conditional structure should not have exactly the same implementation	坏味道	主要
"Map.get" and value test should be replaced with single method call	坏味道	主要
"Arrays.stream" should be used for primitive arrays	坏味道	主要
"@RequestMapping" methods should be "public"	坏味道	主要
Non-constructor methods should not have the same name as the enclosing class	坏味道	主要
"readObject" should not be "synchronized"	坏味道	主要
"Threads" should not be used where "Runnables" are expected	坏味道	主要
Java features should be preferred to Guava	坏味道	主要
"Stream.peek" should be used with caution	坏味道	主要
Unused "private" classes should be removed	坏味道	主要
Raw types should not be used	坏味道	主要
A field should not duplicate the name of its containing class	坏味道	主要
Single-character alternations in regular expressions should be replaced with character classes	坏味道	主要
String multiline concatenation should be replaced with Text Blocks	坏味道	主要
Reluctant quantifiers in regular expressions should be followed by an expression that can't match the empty string	坏味道	主要
Unused assignments should be removed	坏味道	主要
"DateUtils.truncate" from Apache Commons Lang library should not be used	坏味道	主要
"Thread.sleep" should not be used in tests	坏味道	主要
Sections of code should not be commented out	坏味道	主要
"for" loop stop conditions should be invariant	坏味道	主要
JUnit4 @Ignored and JUnit5 @Disabled annotations should be used to disable tests and should provide a rationale	坏味道	主要
Anonymous inner classes containing only one method should become lambdas	坏味道	主要
"Object.wait()" should never be called on objects that implement "java.util.concurrent.locks.Condition"	坏味道	主要
Inheritance tree of classes should not be too deep	坏味道	主要
Generic exceptions should never be thrown	坏味道	主要
Silly math should not be performed	坏味道	主要
Standard outputs should not be used directly to log anything	坏味道	主要
Methods should not have too many parameters	坏味道	主要
Nested blocks of code should not be left empty	坏味道	主要
"writeObject" should not be the only "synchronized" code in a class	坏味道	主要



Classes named like "Exception" should extend "Exception" or a subclass	坏味道	主要
Reflection should not be used to increase accessibility of classes, methods, or fields	坏味道	主要
Static fields should not be updated in constructors	坏味道	主要
Exception types should not be tested using "instanceof" in catch blocks	坏味道	主要
Classes from "sun.*" packages should not be used	坏味道	主要
"java.nio.Files#delete" should be preferred	坏味道	主要
Assignments should not be redundant	坏味道	主要
"else" statements should be clearly matched with an "if"	坏味道	主要
Operator "instanceof" should be used instead of "A.class.isInstance()"	坏味道	主要
Methods should not have identical implementations	坏味道	主要
Restricted Identifiers should not be used as Identifiers	坏味道	主要
Asserts should not be used to check the parameters of a public method	坏味道	主要
Consecutive AssertJ "assertThat" statements should be chained	坏味道	次要
"throws" declarations should not be superfluous	坏味道	次要
Character classes should be preferred over reluctant quantifiers in regular expressions	坏味道	次要
A "while" loop should be used instead of a "for" loop	坏味道	次要
"Collections.EMPTY_LIST", "EMPTY_MAP", and "EMPTY_SET" should not be used	坏味道	次要
Chained AssertJ assertions should be simplified to the corresponding dedicated assertion	坏味道	次要
Empty statements should be removed	坏味道	次要
Return of boolean expressions should not be wrapped into an "if-then-else" statement	坏味道	次要
Loggers should be named for their enclosing classes	坏味道	次要
Local variables should not be declared and then immediately returned or thrown	坏味道	次要
Boolean literals should not be redundant	坏味道	次要
Modifiers should be declared in the correct order	坏味道	次要
Deprecated "\${pom}" properties should not be used	坏味道	次要
Unnecessary imports should be removed	坏味道	次要
Unused local variables should be removed	坏味道	次要
Exception testing via JUnit @Test annotation should be avoided	坏味道	次要
Catches should be combined	坏味道	次要
Mutable fields should not be "public static"	坏味道	次要
Null checks should not be used with "instanceof"	坏味道	次要



Boxed "Boolean" should be avoided in boolean expressions
yalues should not be used in random integer generation "@CheckForNull" or "@Nullable" should not be used on primitive types Public constants and fields initialized at declaration should be "static final" rather than merely "final" Simple string literal should be used for single line strings Escape sequences should not be used in text blocks Overriding methods should do more than simply call the same method in the super class Static non-final field names should comply with a naming convention Classes that override "clone" should be "Cloneable" and call "super.clone()" Primitive wrappers should not be instantiated only for "toString" or "compareTo" calls Case insensitive string comparisons should be made without intermediate upper or lower casing Test classes should comply with a naming convention Collection.isEmpty() should be used to test for emptiness String.valueOf() should not be appended to a String should be used to convert "Strings" to primitives "xwiich" statements should have at least 3 "case" creations in the convertion of the convert "Strings" to primitives "xwiich" statements should have at least 3 "case" creations in the convertion of the convert "Strings" to primitives "xwiich" statements should have at least 3 "case" creations in the convertion of the convert "Strings" to primitives "xwiich" statements should have at least 3 "case" creations in the convertion of
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"Cloneable" and call "super.clone()" Primitive wrappers should not be instantiated only for "toString" or "compareTo" calls Case insensitive string comparisons should be made without intermediate upper or lower casing 不味道 次要 Test classes should comply with a naming convention Collection.isEmpty() should be used to test for emptiness String.valueOf() should not be appended to a String Exception classes should be immutable 坏味道 次要 Farsing should be used to convert "Strings" to primitives "switch" statements should have at least 3 "case" 坏味道 次要 Clauses
Case insensitive string comparisons should be made without intermediate upper or lower casing Test classes should comply with a naming convention Collection.isEmpty() should be used to test for emptiness String.valueOf() should not be appended to a String Exception classes should be immutable Parsing should be used to convert "Strings" to primitives "switch" statements should have at least 3 "case" 坏味道 次要
Test classes should comply with a naming convention Collection.isEmpty() should be used to test for emptiness String.valueOf() should not be appended to a String Exception classes should be immutable Parsing should be used to convert "Strings" to primitives "switch" statements should have at least 3 "case" 坏味道 次要
Collection.isEmpty() should be used to test for emptiness String.valueOf() should not be appended to a String Exception classes should be immutable Parsing should be used to convert "Strings" to primitives "switch" statements should have at least 3 "case" 坏味道 次要
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Exception classes should be immutable 坏味道 次要 Parsing should be used to convert "Strings" to primitives "switch" statements should have at least 3 "case" 坏味道 次要 clauses
Parsing should be used to convert "Strings" to primitives
primitives "switch" statements should have at least 3 "case"
clauses

Multiple variables should not be declared on the same line 次要
"read(byte[],int,int)" should be overridden 坏味道 次要
"@Deprecated" code should not be used 坏味道 次要
Strings should not be concatenated using '+' in a 坏味道 次要 loop
Maps with keys that are enum values should be replaced with EnumMap 次要
"catch" clauses should do more than rethrow 坏味道 次要
Nested "enum"s should not be declared static
"equals(Object obj)" should be overridden along with the "compareTo(T obj)" method
Private fields only used as local variables in methods should become local variables
Arrays should not be created for varargs



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Class variable fields should not have public accessibility	坏味道	次要
Methods should not return constants	坏味道	次要
The default unnamed package should not be used	坏味道	次要
Type parameters should not shadow other type parameters	坏味道	次要
Declarations should use Java collection interfaces such as "List" rather than specific implementation classes such as "LinkedList"	坏味道	次要
"public static" fields should be constant	坏味道	次要
An iteration on a Collection should be performed on the type handled by the Collection	坏味道	次要
"StandardCharsets" constants should be preferred	坏味道	次要
Jump statements should not be redundant	坏味道	次要
"close()" calls should not be redundant	坏味道	次要
Boolean checks should not be inverted	坏味道	次要
"indexOf" checks should use a start position	坏味道	次要
Redundant casts should not be used	坏味道	次要
"ThreadLocal.withInitial" should be preferred	坏味道	次要
Abstract classes without fields should be converted to interfaces	坏味道	次要
"toString()" should never be called on a String object	坏味道	次要
Lambdas should be replaced with method references	坏味道	次要
Parentheses should be removed from a single lambda input parameter when its type is inferred	坏味道	次要
Call to Mockito method "verify", "when" or "given" should be simplified	坏味道	次要
JUnit rules should be used	坏味道	次要
Annotation repetitions should not be wrapped	坏味道	次要
Loops should not contain more than a single "break" or "continue" statement	坏味道	次要
Lambdas containing only one statement should not nest this statement in a block	坏味道	次要
Abstract methods should not be redundant	坏味道	次要
"private" methods called only by inner classes should be moved to those classes	坏味道	次要
Fields in non-serializable classes should not be "transient"	坏味道	次要
Composed "@RequestMapping" variants should be preferred	坏味道	次要
Package names should comply with a naming convention	坏味道	次要
Interface names should comply with a naming convention	坏味道	次要
Field names should comply with a naming convention	坏味道	次要



Local variable and method parameter names should comply with a naming convention	坏味道	次要
Type parameter names should comply with a naming convention	坏味道	次要
"write(byte[],int,int)" should be overridden	坏味道	次要
Nested code blocks should not be used	坏味道	次要
Array designators "[]" should be on the type, not the variable	坏味道	次要
URIs should not be hardcoded	坏味道	次要
"finalize" should not set fields to "null"	坏味道	次要
Arrays should not be copied using loops	坏味道	次要
Array designators "[]" should be located after the type in method signatures	坏味道	次要
Subclasses that add fields should override "equals"	坏味道	次要
Class names should comply with a naming convention	坏味道	次要
Method names should comply with a naming convention	坏味道	次要
The diamond operator ("<>") should be used	坏味道	次要
Switch arrow labels should not use redundant keywords	坏味道	次要
Text blocks should not be used in complex expressions	坏味道	次要
"Stream" call chains should be simplified when possible	坏味道	次要
Functional Interfaces should be as specialised as possible	坏味道	次要
"enum" fields should not be publicly mutable	坏味道	次要
Packages containing only "package-info.java" should be removed	坏味道	次要
Classes should not be empty	坏味道	次要
Track uses of "TODO" tags	坏味道	提示
Deprecated code should be removed	坏味道	提示
JUnit5 test classes and methods should have default package visibility	坏味道	提示
Comma-separated labels should be used in Switch with colon case	坏味道	提示
Local-Variable Type Inference should be used	坏味道	提示

质量配置	js:Sonar way	Bug:44	漏洞:11	坏味道:74	
规则				类型	违规级别
Callbacks of array methods should have return statements		Bug	阻断		
Loops should not be infinite		Bug	阻断		
Jump statements	s should not o	ccur in "	finally"	Bug	严重



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"in" should not be used with primitive types	Bug	严重
Function calls should not pass extra arguments	Bug	严重
"Symbol" should not be used as a constructor	Bug	严重
A compare function should be provided when using "Array.prototype.sort()"	Bug	严重
Results of "in" and "instanceof" should be negated rather than operands	Bug	严重
"super()" should be invoked appropriately	Bug	严重
Getters and setters should access the expected fields	Bug	严重
Destructuring patterns should not be empty	Bug	主要
Return values from functions without side effects should not be ignored	Bug	主要
"NaN" should not be used in comparisons	Bug	主要
Generators should "yield" something	Bug	主要
Related "if/else if" statements should not have the same condition	Bug	主要
The output of functions that don't return anything should not be used	Bug	主要
All branches in a conditional structure should not have exactly the same implementation	Bug	主要
Values should not be uselessly incremented	Bug	主要
Special identifiers should not be bound or assigned	Bug	主要
Properties of variables with "null" or "undefined" values should not be accessed	Bug	主要
Objects should not be created to be dropped immediately without being used	Bug	主要
A "for" loop update clause should move the counter in the right direction	Bug	主要
Function argument names should be unique	Bug	主要
Variables should not be self-assigned	Bug	主要
Property names should not be duplicated within a class or object literal	Bug	主要
Non-empty statements should change control flow or have at least one side-effect	Bug	主要
Non-existent operators '=+', '=-' and '=!' should not be used	Bug	主要
"new" operators should be used with functions	Bug	主要
Loops with at most one iteration should be refactored	Bug	主要
All code should be reachable	Bug	主要
Identical expressions should not be used on both sides of a binary operator	Bug	主要
Bitwise operators should not be used in boolean contexts	Bug	主要
Strict equality operators should not be used with dissimilar types	Bug	主要
Setters should not return values	Bug	主要





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Promise rejections should not be caught by 'try' block	Bug	主要
Comma and logical OR operators should not be used in switch cases	Bug	主要
Attempts should not be made to update "const" variables	Bug	主要
Collection elements should not be replaced unconditionally	Bug	主要
Errors should not be created without being thrown	Bug	主要
Collection sizes and array length comparisons should make sense	Bug	主要
"delete" should be used only with object properties	Bug	次要
Function parameters, caught exceptions and foreach variables' initial values should not be ignored	Bug	次要
"with" statements should not be used	Bug	次要
Empty collections should not be accessed or iterated	Bug	次要
XML parsers should not be vulnerable to XXE attacks	漏洞	阻断
File uploads should be restricted	漏洞	严重
Origins should be verified during cross-origin communications	漏洞	严重
JWT should be signed and verified with strong cipher algorithms	漏洞	严重
Cipher algorithms should be robust	漏洞	严重
Encryption algorithms should be used with secure mode and padding scheme	漏洞	严重
A new session should be created during user authentication	漏洞	严重
Weak SSL/TLS protocols should not be used	漏洞	严重
Cryptographic keys should be robust	漏洞	严重
Server hostnames should be verified during SSL/TLS connections	漏洞	严重
Server certificates should be verified during SSL/TLS connections	漏洞	严重
Variables should be declared explicitly	坏味道	阻断
Switch cases should end with an unconditional "break" statement	坏味道	阻断
"future reserved words" should not be used as identifiers	坏味道	阻断
"switch" statements should not contain non-case labels	坏味道	阻断
Function returns should not be invariant	坏味道	阻断
Octal values should not be used	坏味道	阻断
"default" clauses should be last	坏味道	严重
Cognitive Complexity of functions should not be too high	坏味道	严重
Functions should not be empty	坏味道	严重



"await" should only be used with promises	坏味道	严重
"for" loop increment clauses should modify the	坏味道	严重
loops' counters	111/1/2	/ -
Loop counters should not be assigned to from within the loop body	坏味道	严重
Conditionals should start on new lines	坏味道	严重
A conditionally executed single line should be denoted by indentation	坏味道	严重
"void" should not be used	坏味道	严重
Equality operators should not be used in "for" loop termination conditions	坏味道	严重
Boolean expressions should not be gratuitous	坏味道	主要
Track uses of "FIXME" tags	坏味道	主要
Parameters should be passed in the correct order	坏味道	主要
Functions should not be called both with and without "new"	坏味道	主要
Comma operator should not be used	坏味道	主要
"arguments.caller" and "arguments.callee" should not be used	坏味道	主要
Template literals should not be nested	坏味道	主要
Redundant pairs of parentheses should be removed	坏味道	主要
Labels should not be used	坏味道	主要
Multiline blocks should be enclosed in curly braces	坏味道	主要
Variables should not be shadowed	坏味道	主要
"switch" statements should not have too many "case" clauses	坏味道	主要
Assignments should not be made from within sub-expressions	坏味道	主要
"indexOf" checks should not be for positive numbers	坏味道	主要
Shorthand promises should be used	坏味道	主要
Arguments to built-in functions should match documented types	坏味道	主要
Ternary operators should not be nested	坏味道	主要
Unused assignments should be removed	坏味道	主要
Functions should always return the same type	坏味道	主要
Array indexes should be numeric	坏味道	主要
Literals should not be thrown	坏味道	主要
Sections of code should not be commented out	坏味道	主要
Variables and functions should not be redeclared	坏味道	主要
Functions should not have too many parameters	坏味道	主要
Nested blocks of code should not be left empty	坏味道	主要
"delete" should not be used on arrays	坏味道	主要
Function parameters with default values should be last	坏味道	主要
Functions should not be defined inside loops	坏味道	主要



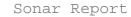
Two branches in a conditional structure should not have exactly the same implementation	坏味道	主要
Array-mutating methods should not be used misleadingly	坏味道	主要
Assignments should not be redundant	坏味道	主要
"in" should not be used on arrays	坏味道	主要
Functions should not have identical implementations	坏味道	主要
Only "while", "do", "for" and "switch" statements should be labelled	坏味道	主要
Sparse arrays should not be declared	坏味道	主要
Collection and array contents should be used	坏味道	主要
Boolean checks should not be inverted	坏味道	次要
Default export names and file names should match	坏味道	次要
A "while" loop should be used instead of a "for" loop	坏味道	次要
Function call arguments should not start on new lines	坏味道	次要
Extra semicolons should be removed	坏味道	次要
Boolean literals should not be used in comparisons	坏味道	次要
Return of boolean expressions should not be wrapped into an "if-then-else" statement	坏味道	次要
Local variables should not be declared and then immediately returned or thrown	坏味道	次要
Unnecessary imports should be removed	坏味道	次要
Unused local variables and functions should be removed	坏味道	次要
"await" should not be used redundantly	坏味道	次要
Wrapper objects should not be used for primitive types	坏味道	次要
"switch" statements should have at least 3 "case" clauses	坏味道	次要
"for of" should be used with Iterables	坏味道	次要
The global "this" object should not be used	坏味道	次要
Deprecated APIs should not be used	坏味道	次要
Multiline string literals should not be used	坏味道	次要
Class names should comply with a naming convention	坏味道	次要
"catch" clauses should do more than rethrow	坏味道	次要
Imports from the same modules should be merged	坏味道	次要
Jump statements should not be redundant	坏味道	次要
Track uses of "TODO" tags	坏味道	提示
-		



demo1 Sonar Report

规则	类型	违规级别
Tables used for layout should not include semantic markup	Bug	严重
Table cells should reference their headers	Bug	严重
<script></script> elements should not be nested	Bug	主要
Tables should have headers	Bug	主要
" <title>" should be present in all pages</td><td>Bug</td><td>主要</td></tr><tr><td>"<html>" element should have a language attribute</td><td>Bug</td><td>主要</td></tr><tr><td>"<!DOCTYPE>" declarations should appear before
"<html>" tags</td><td>Bug</td><td>主要</td></tr><tr><td>Elements deprecated in HTML5 should not be used</td><td>Bug</td><td>主要</td></tr><tr><td>"" tags should have "id" or "scope" attributes</td><td>Bug</td><td>主要</td></tr><tr><td>"<frames>" should have a "title" attribute</td><td>Bug</td><td>次要</td></tr><tr><td>Server-side image maps ("ismap" attribute) should not be used</td><td>Bug</td><td>次要</td></tr><tr><td>"" tags should have a description</td><td>Bug</td><td>次要</td></tr><tr><td>"" and "" tags should be used</td><td>Bug</td><td>次要</td></tr><tr><td>Image, area and button with image tags should have an "alt" attribute</td><td>Bug</td><td>次要</td></tr><tr><td>Flash animations should be embedded using both "<object>" and "<embed>"</td><td>Bug</td><td>次要</td></tr><tr><td>"<fieldset>" tags should contain a "<legend>"</td><td>Bug</td><td>次要</td></tr><tr><td>"" and "<dt>" item tags should be in "", "" or "<dl>" container tags</td><td>Bug</td><td>次要</td></tr><tr><td>Track uses of "FIXME" tags</td><td>坏味道</td><td>主要</td></tr><tr><td>"aria-label" or "aria-labelledby" attributes should
be used to differentiate similar elements</td><td>坏味道</td><td>主要</td></tr><tr><td>HTML "" should not be used for layout purposes</td><td>坏味道</td><td>主要</td></tr><tr><td>Videos should have subtitles</td><td>坏味道</td><td>主要</td></tr><tr><td>Attributes deprecated in HTML5 should not be used</td><td>坏味道</td><td>主要</td></tr><tr><td>Sections of code should not be commented out</td><td>坏味道</td><td>主要</td></tr><tr><td>Meta tags should not be used to refresh or redirect</td><td>坏味道</td><td>主要</td></tr><tr><td>Links should not directly target images</td><td>坏味道</td><td>主要</td></tr><tr><td>"<object>" tags should provide an alternative content</td><td>坏味道</td><td>次要</td></tr><tr><td>Track uses of "TODO" tags</td><td>坏味道</td><td>提示</td></tr></tbody></table></title>		

质量配置	xml:Sonar way	Bug:1	漏洞:2	坏味道:3	
规则				类型	违规级别





XML files containing a prolog header should start with " xml" characters</th <th>Bug</th> <th>严重</th>	Bug	严重
Basic authentication should not be used	漏洞	严重
Restrict access to exported components with appropriate permissions	漏洞	主要
Track uses of "FIXME" tags	坏味道	主要
Sections of code should not be commented out	坏味道	主要
Track uses of "TODO" tags	坏味道	提示

demo1