sonar RULES

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Java static code analysis

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

All rules `632`	🔒 Vulnerability `53`	🐛 Bug `154`	🛡 Security Hotspot `36`	⊙ Code Smell `389`	⚡ Quick Fix `42`

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Abstract class names should comply with a naming convention
⊙ Code Smell

Strings literals should be placed on the left side when checking for equality
⊙ Code Smell

Files should contain an empty newline at the end
⊙ Code Smell

Source code should be indented consistently
⊙ Code Smell

A close curly brace should be located at the beginning of a line
⊙ Code Smell

Close curly brace and the next "else", "catch" and "finally" keywords should be on two different lines
⊙ Code Smell

Close curly brace and the next "else", "catch" and "finally" keywords should be located on the same line
⊙ Code Smell

An open curly brace should be located at the beginning of a line
⊙ Code Smell

An open curly brace should be located at the end of a line
⊙ Code Smell

Tabulation characters should not be used
⊙ Code Smell

Functions should not be defined with a variable number of arguments
⊙ Code Smell

Maps with keys that are enum values should be replaced with EnumMap

Analyze your code

⊙ Code Smell ⊘ Minor ⓘ 🏷 performance

When all the keys of a Map are values from the same enum, the `Map` can be replaced with an `EnumMap`, which can be much more efficient than other sets because the underlying data structure is a simple array.

Noncompliant Code Example

```
public class MyClass {

  public enum COLOR {
    RED, GREEN, BLUE, ORANGE;
  }

  public void mapMood() {
    Map<COLOR, String> moodMap = new HashMap<COLOR, String>
  }
}
```

Compliant Solution

```
public class MyClass {

  public enum COLOR {
    RED, GREEN, BLUE, ORANGE;
  }

  public void mapMood() {
    EnumMap<COLOR, String> moodMap = new EnumMap<> (COLOR.cl
  }
}
```

Available In:

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Local-Variable Type Inference should be used

Code Smell

Migrate your tests from JUnit4 to the new JUnit5 annotations

Code Smell

Track uses of disallowed classes

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Track uses of "@SuppressWarnings" annotations

Code Smell