Security

Hotspot

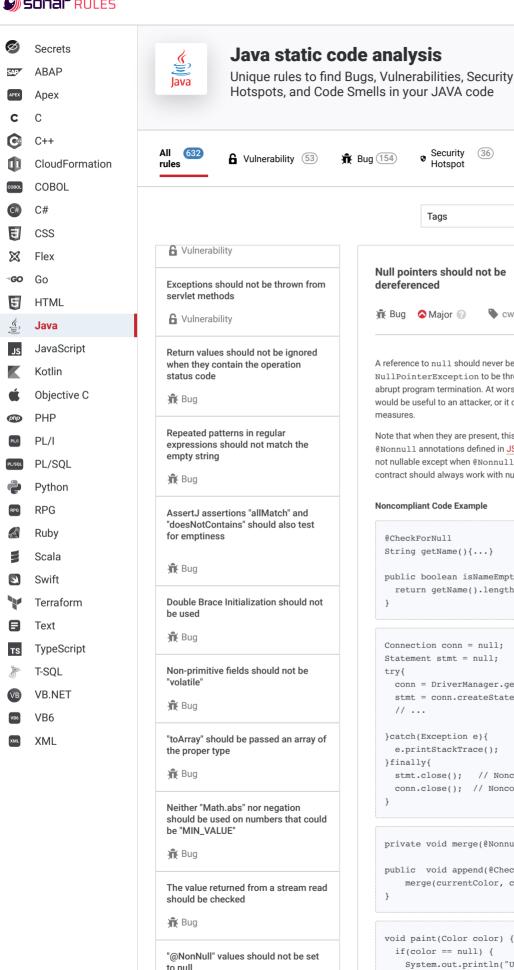
Tags

(36)



Products ✓

O Quick 42 Fix



```
Null pointers should not be
                                             Analyze your code
dereferenced
Rug Major 🕝
                        cwe cert
A reference to null should never be dereferenced/accessed. Doing so will cause a
Null Pointer Exception to be thrown. At best, such an exception will cause
abrupt program termination. At worst, it could expose debugging information that
would be useful to an attacker, or it could allow an attacker to bypass security
measures
Note that when they are present, this rule takes advantage of @CheckForNull and
@Nonnull annotations defined in JSR-305 to understand which values are and are
not nullable except when @Nonnull is used on the parameter to equals, which by
contract should always work with null.
Noncompliant Code Example
  @CheckForNull
 String getName(){...}
 public boolean isNameEmpty() {
    return getName().length() == 0; // Noncompliant; the resul
 Connection conn = null;
 Statement stmt = null;
 try{
    conn = DriverManager.getConnection(DB_URL,USER,PASS);
    stmt = conn.createStatement();
    // ...
 }catch(Exception e){
    e.printStackTrace();
  }finallv{
    stmt.close(); // Noncompliant; stmt could be null if an
    conn.close(); // Noncompliant; conn could be null if an e
 private void merge(@Nonnull Color firstColor, @Nonnull Color
 public void append(@CheckForNull Color color) {
      merge(currentColor, color); // Noncompliant; color shou
 void paint(Color color) {
    if(color == null) {
      System.out.println("Unable to apply color " + color.toSt
```

(389)

Search by name.

📆 Bug

"Iterator.next()" methods should throw

"NoSuchElementException"

"Bug

"compareTo" results should not be checked for specific values

"Bug

Math operands should be cast before assignment

Bug

Ints and longs should not be shifted by zero or more than their number of bits-1

📆 Bug

• MITRE, CWE-476 - NULL Pointer Dereference
• CERT, EXP34-C. - Do not dereference null pointers
• CERT, EXP01-J. - Do not use a null in a case where an object is required

Available In:
sonarlint ⊖ | sonarcloud ♣ | sonarqube

© 2008-2022 SonarSource S.A., Switzerland. All content is copyright protected. SONAR, SONARSOURCE, SONARLINT, SONARQUBE and SONARCLOUD are trademarks of SonarSource S.A. All other trademarks and copyrights are the property of their respective owners. All rights are expressly reserved.

Privacy Policy