Ruby static code analysis

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

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Code Smell

Boolean checks should not be inverted

Code Smell

Unused local variables should be removed

Code Smell

function and block parameter names should comply with a naming convention

Code Smell

Class names should comply with a naming convention

Code Smell

Method names should comply with a naming convention

Code Smell

Track uses of "TODO" tags

Code Smell

Track lack of copyright and license headers

Code Smell

Octal values should not be used

Code Smell

"case" statements should not be nested

Code Smell

Control flow statements "if", "for", "while", "until", "case" and "begin...rescue" should not be nested too deeply

Code Smell

"if ... else if" constructs should end with "else" clauses

Two branches in a conditional structure should not have exactly the same implementation

Analyze your code

Code Smell Major design suspicious

Having two `when` clauses in a `case` statement or two branches in an `if` chain with the same implementation is at best duplicate code, and at worst a coding error. If the same logic is truly needed for both instances, then in an `if` chain they should be combined, or for a `case`, duplicates should be refactored.

Noncompliant Code Example

```
case i
  when 1
    doFirstThing()
    doSomething()
  when 2
    doSomethingDifferent()
  when 3 # Noncompliant; duplicates case 1's implementa
    doFirstThing()
    doSomething()
  else
    doTheRest()
end

if a >= 0 && a < 10
  doFirstThing()
  doTheThing()
elsif a >= 10 && a < 20
  doTheOtherThing()
elsif a >= 20 && a < 50
  doFirstThing()
  doTheThing()    # Noncompliant; duplicates first condi
else
  doTheRest()
end
```

Exceptions

Blocks in an `if` chain that contain a single line of code are ignored, as are blocks in a `case` statement that contain a single line of code.

```
if a ==
  doSomething()  # no issue, usually this is done on pu
elsif a == 2
  doSomethingElse()
else
  doSomething()
end
```

Code Smell

Expressions should not be too complex

Code Smell

Ruby parser failure

Code Smell

Functions should not have too many lines of code

Code Smell

Statements should be on separate lines

Code Smell

But this exception does not apply to `if` chains without `else`-s, or to `case`-es without `else` clauses when all branches have the same single line of code. In case of `if` chains with `else`-s, or of `case`-es with `else` clauses, rule {rule:ruby:S3923} raises a bug.

```
if a == 1
  doSomething()  # Noncompliant, this might have been d
elsif a == 2
  doSomething()
end
```

Available In:

sonarlint sonarcloud sonarqube