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# Python static code analysis

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

All rules 216     Vulnerability 29     Bug 55     Security Hotspot 31     Code Smell 101

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- Functions should not have too many lines of code  
 Code Smell
- Track uses of "NOSONAR" comments  
 Code Smell
- Track comments matching a regular expression  
 Code Smell
- Statements should be on separate lines  
 Code Smell
- Functions should not contain too many return statements  
 Code Smell
- Files should not have too many lines of code  
 Code Smell
- Lines should not be too long  
 Code Smell
- Methods and properties that don't access instance data should be static  
 Code Smell
- New-style classes should be used  
 Code Smell
- Parentheses should not be used after certain keywords  
 Code Smell
- Track "TODO" and "FIXME" comments that do not contain a reference to a person  
 Code Smell
- Module names should comply with a naming convention

## "<>" should not be used to test inequality Analyze your code

 Code Smell     Major ?     obsolete

The forms <> and != are equivalent. But in Python 2.7.3 the <> form is considered obsolete.

### Noncompliant Code Example

```
return a <> b # Noncompliant
```

### Compliant Solution

```
return a != b
```

Available In:  
 sonarlint     sonarcloud     sonarqube

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 Code Smell

Comments should not be located at the end of lines of code

 Code Smell

Lines should not end with trailing whitespaces

 Code Smell

Files should contain an empty newline at the end

 Code Smell

Long suffix "L" should be upper case

 Code Smell