

5 HTML

Java **JavaScript** 

Kotlin

Kubernetes

Objective C

PHP

PL/I

PL/SQL

Python

**RPG** 

Ruby

Scala

Swift

Terraform

Text

**TypeScript** 

T-SQL

**VB.NET** 

VB6

XML



## C++ static code analysis

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

All 578 rules	6 Vulnerability 13	<b>R</b> Bug (111)	Security (18) Hotspot	Code Smell	Quick 68 Fix	
			Tags	∨ Searce	h by name	Q
"memset" sl sensitive da	hould not be used to delete Ita	"struct	names should com	ply with	Analyze your code	

Vulnerability POSIX functions should not be called with arguments that trigger buffer overflows ■ Vulnerability XML parsers should not be vulnerable to XXE attacks Vulnerability Function-like macros should not be invoked without all of their arguments 📆 Bug The address of an automatic object should not be assigned to another object that may persist after the first object has ceased to exist 📆 Bug Assigning to an optional should directly target the optional 📆 Bug Result of the standard remove algorithms should not be ignored 👬 Bug "std::scoped\_lock" should be created with constructor arguments 📆 Bug Objects should not be sliced 📆 Bug Immediately dangling references should not be created

📆 Bug

📆 Bug

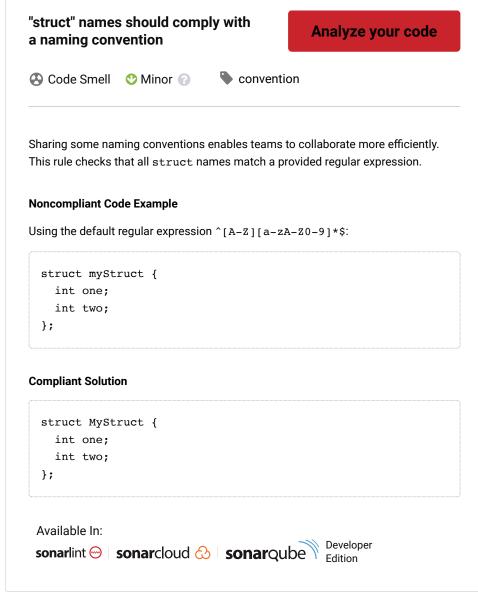
📆 Bug

"pthread\_mutex\_t" should be unlocked in the reverse order they were locked

"pthread\_mutex\_t" should be properly

"pthread\_mutex\_t" should not be consecutively locked or unlocked

initialized and destroyed



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🖟 Bug
"std::move" and "std::forward" should not be confused
<b>∰</b> Bug
A call to "wait()" on a  "std::condition_variable" should have a  condition
n Bug
A pointer to a virtual base class shall only be cast to a pointer to a derived class by means of dynamic_cast
🖟 Bug
Functions with "noreturn" attribute should not return
👬 Bug
RAII objects should not be temporary
्रे Bug
"memcmp" should only be called with pointers to trivially copyable types with no padding
🙃 Bug
"memcpy", "memmove", and "memset" should only be called with pointers to trivially copyable types
🙃 Bug
"std::auto_ptr" should not be used
<b>n</b> Bug
Destructors should be "noexcept"
🖟 Bug