## C++ static code analysis: Raw string literals should be used

2 minutes

Since C++11, raw string literals can be used to avoid the need to escape characters in a string.

This rules raises an issue when using a raw string literal would make a string easier to read. For instance, when a non-raw string contains different escaped sequences (among \', \\, \" and \?) or more than two of the same kind.

## **Noncompliant Code Example**

```
const auto* result = "a\?b \""; // Noncompliant
const auto* regEx = "\\\(\\\\\)"; // Noncompliant
const auto* message = "Use \"x\" or \"y\\""; // Noncompliant
```

## **Compliant Solution**

const auto\* twoLines = "one\r\ntwo"; // Compliant, contains \r
const auto\* path = "C:\\Program Files\\Microsoft Office\\Office16\\";
// Compliant, raw strings would not improve readability

## **Exceptions**

To preserve readability, this rule ignores strings containing only one character and strings with escaped whitespace or non-printable characters:

- Non-printable characters: \a \b \f \v \nnn \xnn \unnnn \Unnnnnnnnn
- Tab: \t
- Carriage return: \r