

SEI CERT C Coding Standard

The C rules and recommendations in this wiki are a work in progress and reflect the current thinking of the secure coding community. Because this is a development website, many pages are incomplete or contain errors. As rules and recommendations mature, they are published in report or book form as official releases. These releases are issued as dictated by the needs and interests of the secure software development community.

Create a [sign-in account](#) if you want to comment on existing content. If you wish to be more involved and directly edit content on the site, you still need an account, but you'll also need to [request edit privileges](#).

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CERT manifest files

As of 9/28/2018, the [CERT manifest files](#) are now available for use by static analysis tool developers to test their coverage of (some of the) CERT Secure Coding Rules for C, using many of 61,387 test cases in the Juliet test suite v1.2.

Secure C Coding Books and Downloads



The [CERT C Coding Standard, 2016 Edition](#) provides rules to help programmers ensure that their code complies with the new C11 standard and earlier standards, including C99. It is downloadable as a PDF.

[\(errata\)](#)



[Secure Coding in C and C++](#) identifies the root causes of today's most widespread software vulnerabilities, shows how they can be exploited, reviews the potential consequences, and presents secure

alternatives.

Source Code Analysis Laboratory

(SCALe)

[SCALe](#) offers conformance testing of C language software systems against the CERT C Secure Coding Standard.

Contact Us

Contact us if you

- have questions about the Secure Coding wiki
- have recommendations for standards in development
- want to request privileges to participate in standards development

Thank You!

We acknowledge the contributions of the following [folks](#) , and we look forward to seeing your name here as well.

Rules vs. Recommendations

 This coding standard consists of *rules* and *recommendations*, collectively referred to as *guidelines*. Rules are meant to provide normative requirements for code, whereas recommendations are meant to provide guidance that, when followed, should improve the safety, reliability, and security of software systems. [Learn more](#) about the differences.

Linking to Our Pages

 Link to guidelines using the **Tiny Link** under ToolsLink to this Page... (This URL will not change if the name of the guideline changes.)

Information for Editors



- To eliminate a section from the lists above, label it *section* and *void*.
- To have a section listed as a recommendation, label it *section* and *recommendation*.
- To have a section listed as a rule, label it *section* and *rule*.