



# SEI CERT Coding Standards

## Welcome

This site supports the development of coding standards for commonly used programming languages such as C, C++, Java, and Perl, and the Android™ platform. These standards are developed through a broad-based community effort by members of the software development and software security communities.

For more information about this project and to see tips on how to contribute, please see the [Development Guidelines](#).

## Downloads

	<a href="#">The SEI CERT C Coding Standard, 2016 Edition (errata)</a>		<a href="#">The SEI CERT C++ Coding Standard, 2016 Edition (errata)</a>
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## Standards Development Area

The following development areas enable you to learn about and contribute to secure coding standards for commonly used programming languages C, C++, Java, and Perl. [Contact us](#) to comment on existing items, submit recommendations, or request privileges to directly edit content on this site.



[SEI CERT C Coding Standard](#)



[SEI CERT C++ Coding Standard](#)



[Android™ Secure Coding Standard](#)



[SEI CERT Oracle Coding Standard for Java](#)

[SEI CERT Perl Coding Standard](#)

## News

**April 2020:** [Open Dataset RC\\_Data for Classifier Research](#)

**December 2018:** Lori Flynn and Ebone McNeil authored the SEI Blog post "[SCALe v. 3: Automated Classification and Advanced Prioritization of Static Analysis Alerts](#)".

**November 2018:** Lori Flynn presented a webinar "[Improve Your Static Analysis Audits Using CERT SCALe's New Features](#)".

**October 2018:** At the CMU SEI 2018 Research Review, Lori Flynn presented "[Rapid Construction of Accurate Automatic Alert Handling](#)", Will Klieber presented "[Automated Code Repair to Ensure Memory Safety](#)", and Robert Schiela presented "[Predicting Security Flaws through Architectural Flaws](#)".

**October 2018:** Will Klieber presented "[Detecting Leaks of Sensitive Data due to Stale Reads](#)" at [IEEE SecDev 2018](#).

**September 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.

**September 2018:** The [Summer 2018 Edition](#) of the Secure Coding newsletter was published on 4 September 2018.

**August 2018:** [SCALe](#) has been released open-source as a new project on GitHub. This is the first time that SCALe has been released to the public. This initial release is SCALe 2.1.4.0.

## Secure Coding Newsletter

The [Secure Coding eNewsletter](#) provides timely information about CERT secure coding standards.

The [Summer 2018 Edition](#) of the Secure Coding newsletter was published on 4 September 2018.



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#### More Info...

The [Top 10 Secure Coding Practices](#) provides some language-independent recommendations.

Visit the [Secure Coding](#) section of the SEI's Digital Library for the latest publications written by the Secure Coding team.

Learn more about [CERT Secure Coding Courses](#) and the Secure Coding Professional Certificate Program.

#### 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