

C++ ISO Standard

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- ISO Defined
- Structure of ISO
- Technical Committees
- Sub Committees
- Working Groups
- Study Groups



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- ISO Defined

- International Organization for Standardization
 - founded in 1947
 - headquartered in Geneva, Switzerland
 - three official languages are English, French, and Russian
- ISO is not an acronym since it would change in each language
 - International Organization for Standardization (English)
 - Organisation internationale de normalisation (French)
 - Международная организация по стандартизации (Russian)

- ISO Defined

- largest developer of international standards
- they do not enforce the standards
 - some are simply suggestions or general guidelines
 - others are required by various laws
- over twenty thousand standards have been set
 - manufactured goods
 - agriculture
 - food safety
 - healthcare
 - building codes
 - technology

- Structure of ISO
 - approximately 300 Technical Committees
 - quantities and units, food products, fire safety, dentistry, fans, leather, ergonomics, safety of toys, bamboo and rattan
 - JTC1 and JTC2 are joint technical committees
 - ISO / IEC JTC1
 - develop standards and terminology in the areas of electrical and electronic related technologies
 - ISO / IEC JTC2
 - standardization in the field of energy efficiency and renewable energy sources

- Structure of ISO
 - beneath a Technical Committee (TC) are Sub-Committees (SC)
 - computer technology is part of the joint TC named JTC1
 - programming languages are in SC 22
 - a TC or SC may set up Working Groups (WG)
 - a group of experts set out to prepare a working draft document
 - a Sub-Committee may have several different Working Groups
 - each Working Group may have multiple Study Groups (SG)
 - C++ standard is developed in JTC1, SC 22, WG 21

- Programming Languages
 - partial list of computer languages with a ratified ISO standard in JTC1 and most of these are in Sub-Committee 22
 - C
 - C++
 - C#
 - Ada, Algol, Prolog
 - Basic, Pascal
 - Cobol, Fortran
 - Ruby
 - JavaScript
 - SQL

- **WG 21**
 - purpose of this group is to produce an International Standard
 - main activity is the production of a working draft document
 - according to ISO there are six types of deliverables
 - International Standard (IS)
 - Technical Specification (TS)
 - Technical Report (TR)
 - Publicly Available Specification
 - International Workshop Agreement
 - Guide
 - only the first three deliverables are relevant or currently used in this C++ working group

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