

# The C

C++

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C++ (, pronounced "C plus plus" and sometimes abbreviated as CPP or CXX) is a high-level, general-purpose programming language created by Danish computer scientist Bjarne Stroustrup. First released in 1985 as an extension of the C programming language, adding object-oriented (OOP) features, it has since expanded significantly over time adding more OOP and other features; as of 1997/C++98 standardization, C++ has added functional features, in addition to facilities for low-level memory manipulation for systems like microcomputers or to make operating systems like Linux or Windows, and even later came features like generic programming (through the use of templates). C++ is usually implemented as a compiled language, and many vendors provide C++ compilers, including the Free Software Foundation, LLVM, Microsoft, Intel, Embarcadero, Oracle, and IBM.

C++ was designed with systems programming and embedded, resource-constrained software and large systems in mind, with performance, efficiency, and flexibility of use as its design highlights. C++ has also been found useful in many other contexts, with key strengths being software infrastructure and resource-constrained applications, including desktop applications, video games, servers (e.g., e-commerce, web search, or databases), and performance-critical applications (e.g., telephone switches or space probes).

C++ is standardized by the International Organization for Standardization (ISO), with the latest standard version ratified and published by ISO in October 2024 as ISO/IEC 14882:2024 (informally known as C++23). The C++ programming language was initially standardized in 1998 as ISO/IEC 14882:1998, which was then amended by the C++03, C++11, C++14, C++17, and C++20 standards. The current C++23 standard supersedes these with new features and an enlarged standard library. Before the initial standardization in 1998, C++ was developed by Stroustrup at Bell Labs since 1979 as an extension of the C language; he wanted an efficient and flexible language similar to C that also provided high-level features for program organization. Since 2012, C++ has been on a three-year release schedule with C++26 as the next planned standard.

Despite its widespread adoption, some notable programmers have criticized the C++ language, including Linus Torvalds, Richard Stallman, Joshua Bloch, Ken Thompson, and Donald Knuth.

C (disambiguation)

*up C, c, or Appendix:Variations of "c" in Wiktionary, the free dictionary. C is the third letter in the Latin alphabet. C or c may also refer to: C (programming*

C is the third letter in the Latin alphabet.

C or c may also refer to:

C

*with diacritics: ?C? with diacritics: ? ? ? ? ? ? ? ? ? ? C? c? ? ? Ç ç ? ? ? ? ??? ??? : Claudian letters  
© : copyright symbol °C : degree Celsius*

?C?, or ?c?, is the third letter of the Latin alphabet, used in the modern English alphabet, the alphabets of other western European languages and others worldwide. Its name in English is cee (pronounced ), plural

cees.

C.

*C. or c. in Wiktionary, the free dictionary. C. or c. may refer to: Century, sometimes abbreviated as c. or C., a period of 100 years Letter C, the third*

C. or c. may refer to:

Century, sometimes abbreviated as c. or C., a period of 100 years

Letter C, the third letter in the alphabet.

Cent (currency), abbreviated c. or ¢, a monetary unit that equals 1⁄100 of the basic unit of many currencies

Caius or Gaius, abbreviated as C., a common Latin praenomen

Circa, abbreviated as c. (or ca., circ., cca, and cc.) a Latin word meaning "about" or "around"

Abbreviation c. meaning "chapter" in legal citation

Prefix c/c. (and cc/cc.) meaning "column(s)" as in-source-locator in old citations (example: "c130")

C&A

*C&A is a multinational chain of retail clothing stores that originated in the Netherlands. It now has European head offices in Vilvoorde, Belgium, and*

C&A is a multinational chain of retail clothing stores that originated in the Netherlands. It now has European head offices in Vilvoorde, Belgium, and Düsseldorf, Germany. The company operates approximately 1,250 stores in Europe and 330 in Brazil, as well as websites for online shopping. In Brazil, C&A is operated through a joint venture, C&A Modas S.A., which is listed on the B3 stock exchange in São Paulo. It also licenses the C&A name for stores in Mexico and China, which are under different ownership.

Ç

*Ç or ç (C-cedilla) is a Latin script letter used in the Albanian, Azerbaijani, Manx, Tatar, Turkish, Turkmen, Kurdish, Kazakh, and Romance alphabets.*

Ç or ç (C-cedilla) is a Latin script letter used in the Albanian, Azerbaijani, Manx, Tatar, Turkish, Turkmen, Kurdish, Kazakh, and Romance alphabets. Romance languages that use this letter include Catalan, French, Portuguese, and Occitan, as a variant of the letter C with a cedilla. It is also occasionally used in Crimean Tatar and in Tajik (when written in the Latin script) to represent the /dʒ/ sound. It is rarely used in Balinese, usually only in the word "Çaka" during Nyepi, one of the Balinese Hinduism holidays. It is often retained in the spelling of loanwords from any of these languages in English, Basque, Dutch, Spanish and other languages using the Latin alphabet.

It was first used for the sound of the voiceless alveolar affricate /tʃs/ in Old Spanish and stems from the Visigothic form of the letter z (ʒ). The phoneme originated in Vulgar Latin from the palatalization of the plosives /t/ and /k/ in some conditions. Later, /tʃs/ changed into /s/ in many Romance languages and dialects. Spanish has not used the symbol since an orthographic reform in the 18th century (which replaced ç with the z, which has now been devoiced into /ʃ/ or /s/), but it was adopted for writing other languages.

In the International Phonetic Alphabet, /ç/ represents the voiceless palatal fricative.

C&C

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C&C Group (formerly Cantrell and Cochrane), a consumer goods group based in Ireland

C&C Yachts, sailboat builder

C+C Music Factory, an American dance-pop and hip hop group

Cambridge & Coleridge Athletic Club, based in Cambridge, United Kingdom

Castles & Crusades, a role-playing game

Chris & Cosey, an industrial music project of Throbbing Gristle members

City and Colour, acoustic project from musician Dallas Green

Coheed and Cambria, a rock band from Nyack, New York, formed in 1995

Chocolate and Cheese, album by Ween

Codes and ciphers, see Cryptography

Cookies and cream, an ice cream variety flavored with chocolate sandwich cookies

Command and control, the exercise of authority by a commanding officer over military forces in the accomplishment of a mission

Command and control (management), an approach to decision making in organizations

Command and control (malware), a control mechanism for botnets

Command & Conquer, a real-time strategy video game series

Contraction and Convergence, an approach to limiting carbon dioxide emissions globally

Cycle & Carriage, a Malaysian assembler and distributor of motor vehicles

The O.C.

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The O.C. is an American teen drama television series created by Josh Schwartz that originally aired on Fox in the United States from August 5, 2003, to February 22, 2007, with a total of four seasons consisting of 92 episodes. The series title, "O.C.", is an initialism of Orange County, the location in Southern California in which the series is set.

The series centers on Ryan Atwood, a troubled, yet gifted young teenager from a broken home who is adopted by the wealthy and philanthropic Sandy and Kirsten Cohen. Ryan and his adoptive brother Seth, a socially awkward, quick-witted teenager, deal with life as outsiders in the high-class world of Newport Beach. Ryan and Seth spend much time navigating their relationships with girl-next-door Marissa Cooper,

Seth's childhood crush Summer Roberts, and the fast-talking loner Taylor Townsend. Storylines deal with the culture clash between the idealistic Cohen family and the shallow, materialistic, and closed-minded community in which they reside. The series includes elements of postmodernism, and functions as a mixture of melodrama and comedy.

The series premiered with high ratings and was one of the most popular new dramas of the 2003–2004 television season. It was widely referred to as a pop cultural phenomenon and received mostly positive reception from critics. However, ratings declined as the show went on. The low ratings led to its cancellation in early 2007.

The O.C. has been broadcast in more than 50 countries worldwide. The series has also been released on DVD as well as on iTunes and streaming services Hulu and Max.

C. C. Catch

*professionally as C. C. Catch, is a German pop singer. She is known for her collaboration with Dieter Bohlen (one half of Modern Talking) in the 1980s. C. C. Catch*

Caroline Catherine Müller (born 31 July 1964), known professionally as C. C. Catch, is a German pop singer. She is known for her collaboration with Dieter Bohlen (one half of Modern Talking) in the 1980s.

Operators in C and C++

*in the C and C++ programming languages. All listed operators are in C++ and lacking indication otherwise, in C as well. Some tables include a "In C" column*

This is a list of operators in the C and C++ programming languages.

All listed operators are in C++ and lacking indication otherwise, in C as well. Some tables include a "In C" column that indicates whether an operator is also in C. Note that C does not support operator overloading.

When not overloaded, for the operators `&&`, `||`, and `,` (the comma operator), there is a sequence point after the evaluation of the first operand.

Most of the operators available in C and C++ are also available in other C-family languages such as C#, D, Java, Perl, and PHP with the same precedence, associativity, and semantics.

Many operators specified by a sequence of symbols are commonly referred to by a name that consists of the name of each symbol. For example, `+=` and `-=` are often called "plus equal(s)" and "minus equal(s)", instead of the more verbose "assignment by addition" and "assignment by subtraction".

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