

# Learn C

## C (programming language)

`_Pragma` keywords". Microsoft Learn. Archived from the original on September 24, 2022. Retrieved September 24, 2022. "Pragmas (The C Preprocessor)". GCC, the - C is a general-purpose programming language. It was created in the 1970s by Dennis Ritchie and remains widely used and influential. By design, C gives the programmer relatively direct access to the features of the typical CPU architecture, customized for the target instruction set. It has been and continues to be used to implement operating systems (especially kernels), device drivers, and protocol stacks, but its use in application software has been decreasing. C is used on computers that range from the largest supercomputers to the smallest microcontrollers and embedded systems.

A successor to the programming language B, C was originally developed at Bell Labs by Ritchie between 1972 and 1973 to construct utilities running on Unix. It was applied to re-implementing the kernel of the Unix operating system. During the 1980s, C gradually gained popularity. It has become one of the most widely used programming languages, with C compilers available for practically all modern computer architectures and operating systems. The book *The C Programming Language*, co-authored by the original language designer, served for many years as the de facto standard for the language. C has been standardized since 1989 by the American National Standards Institute (ANSI) and, subsequently, jointly by the International Organization for Standardization (ISO) and the International Electrotechnical Commission (IEC).

C is an imperative procedural language, supporting structured programming, lexical variable scope, and recursion, with a static type system. It was designed to be compiled to provide low-level access to memory and language constructs that map efficiently to machine instructions, all with minimal runtime support. Despite its low-level capabilities, the language was designed to encourage cross-platform programming. A standards-compliant C program written with portability in mind can be compiled for a wide variety of computer platforms and operating systems with few changes to its source code.

Although neither C nor its standard library provide some popular features found in other languages, it is flexible enough to support them. For example, object orientation and garbage collection are provided by external libraries GLib Object System and Boehm garbage collector, respectively.

Since 2000, C has consistently ranked among the top four languages in the TIOBE index, a measure of the popularity of programming languages.

## Scikit-learn

Free and open-source software portal scikit-learn (formerly scikits.learn and also known as sklearn) is a free and open-source machine learning library - scikit-learn (formerly scikits.learn and also known as sklearn) is a free and open-source machine learning library for the Python programming language.

It features various classification, regression and clustering algorithms including support-vector machines, random forests, gradient boosting, k-means and DBSCAN, and is designed to interoperate with the Python numerical and scientific libraries NumPy and SciPy. Scikit-learn is a NumFOCUS fiscally sponsored project.

## Microsoft Learn

Microsoft Learn is a library of technical documentation and training for end users, developers, and IT professionals who work with Microsoft products - Microsoft Learn is a library of technical documentation and training for end users, developers, and IT professionals who work with Microsoft products. Microsoft Learn was introduced in September 2018. In 2022, Microsoft Docs, the technical documentation library that had replaced MSDN and TechNet in 2016, was moved to Microsoft Learn.

## C Sharp (programming language)

official C# documentation". Microsoft Learn. February 7, 2024. Retrieved April 7, 2024. BillWagner. "Operator overloading - C# reference". Microsoft Learn. Archived - C# ( see SHARP) is a general-purpose high-level programming language supporting multiple paradigms. C# encompasses static typing, strong typing, lexically scoped, imperative, declarative, functional, generic, object-oriented (class-based), and component-oriented programming disciplines.

The principal inventors of the C# programming language were Anders Hejlsberg, Scott Wiltamuth, and Peter Golde from Microsoft. It was first widely distributed in July 2000 and was later approved as an international standard by Ecma (ECMA-334) in 2002 and ISO/IEC (ISO/IEC 23270 and 20619) in 2003. Microsoft introduced C# along with .NET Framework and Microsoft Visual Studio, both of which are technically speaking, closed-source. At the time, Microsoft had no open-source products. Four years later, in 2004, a free and open-source project called Microsoft Mono began, providing a cross-platform compiler and runtime environment for the C# programming language. A decade later, Microsoft released Visual Studio Code (code editor), Roslyn (compiler), and the unified .NET platform (software framework), all of which support C# and are free, open-source, and cross-platform. Mono also joined Microsoft but was not merged into .NET.

As of January 2025, the most recent stable version of the language is C# 13.0, which was released in 2024 in .NET 9.0

## Sirius (Clannad album)

Believe In" - Duet with Bruce Hornsby (C. Brennan) – 4:47 "Live and Learn" (C. Brennan) – 3:32 "Many Roads" (C. Brennan) – 3:25 "Sirius" (P. Brennan) - Sirius is the tenth album by Irish folk group Clannad, released in 1987. It features several guest artists such as Bruce Hornsby, Steve Perry and JD Souther.

## The C Programming Language

book "is still the standard ... a bit terse". He continued, "You can learn the C language without getting Kernighan and Ritchie, but that's doing it the - The C Programming Language (sometimes termed K&R, after its authors' initials) is a computer programming book written by Brian Kernighan and Dennis Ritchie, the latter of whom originally designed and implemented the C programming language, as well as co-designed the Unix operating system with which development of the language was closely intertwined. The book was central to the development and popularization of C and is still widely read and used today. Because the book was co-authored by the original language designer, and because the first edition of the book served for many years as the de facto standard for the language, the book was regarded by many to be the authoritative reference on C.

## Zed Shaw

Zed A. Shaw is a software developer best known for creating the Learn Code the Hard Way series of programming tutorials, as well as for creating the Mongrel - Zed A. Shaw is a software developer best known

for creating the Learn Code the Hard Way series of programming tutorials, as well as for creating the Mongrel web server for Ruby web applications. He is also well known for his controversial views on programming languages and communities.

## Lockheed C-130 Hercules

The Lockheed C-130 Hercules is an American four-engine turboprop military transport aircraft designed and built by Lockheed (now Lockheed Martin). Capable - The Lockheed C-130 Hercules is an American four-engine turboprop military transport aircraft designed and built by Lockheed (now Lockheed Martin). Capable of using unprepared runways for takeoffs and landings, the C-130 was originally designed as a troop, medevac, and cargo transport aircraft. The versatile airframe has found uses in other roles, including as a gunship (AC-130), for airborne assault, search and rescue, scientific research support, weather reconnaissance, aerial refueling, maritime patrol, and aerial firefighting. It is now the main tactical airlifter for many military forces worldwide. More than 40 variants of the Hercules, including civilian versions marketed as the Lockheed L-100, operate in more than 60 nations.

The C-130 entered service with the U.S. in 1956, followed by Australia and many other nations. During its years of service, the Hercules has participated in numerous military, civilian and humanitarian aid operations. In 2007, the transport became the fifth aircraft to mark 50 years of continuous service with its original primary customer, which for the C-130 is the United States Air Force (USAF). The C-130 is the longest continuously produced military aircraft, having achieved 70 years of production in 2024. The updated Lockheed Martin C-130J Super Hercules remains in production as of 2024.

## C++

GitHub. "Using the C++ Core Guidelines checkers". Microsoft Learn. Archived from the original on 13 August 2021. Retrieved 31 March 2020. "C++ ABI Summary" - C++ 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.

## Look and Learn

Look and Learn was a British weekly educational magazine for children published by Fleetway Publications Ltd from 1962 until 1982. It contained educational - Look and Learn was a British weekly educational magazine for children published by Fleetway Publications Ltd from 1962 until 1982. It contained educational text articles that covered a wide variety of topics from volcanoes to the Loch Ness Monster; a long running science fiction comic strip, The Trigan Empire; adaptations of famous works of literature into comic-strip form, such as Lorna Doone; and serialized works of fiction such as The First Men in the Moon.

The illustrators who worked on the magazine included Fortunino Matania, John Millar Watt, Peter Jackson, John Worsley, Ron Embleton, Gerry Embleton, C. L. Doughty, Wilf Hardy, Dan Escott, Angus McBride, Oliver Frey, James E. McConnell, Kenneth Lilly, R. B. Davis and Clive Upton.

It featured the Pen-Friends pages, a section where readers could make new friends overseas.

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