

Programming In Objective C 2 0

Developer S Library

Parameter list delimited by parentheses (()) 3437649516 Swift was introduced at Apple's 2014 Worldwide Developers Conference (WWDC). It underwent an upgrade to version 1.2 during 2014 and a major upgrade to Swift... 3437649516 C-family languages span multiple programming paradigms, conceptual models, and run-time environments. 3437649516 == Description == 3437649516

General-purpose programming language For example, Python is a GPL, while SQL is a DSL for querying relational databases. Conversely, a domain-specific programming language (DSL) is used within a specific area. In computer software, a general-purpose programming language (GPL) is a programming language for building software in a wide variety of application domains In computer software, a general-purpose programming language (GPL) is a programming language for building software in a wide variety of application domains 3437649516

Nim (programming language) Nim aims to be "efficient, expressive, and elegant", and supports metaprogramming, functional, message passing, procedural, and object-oriented programming paradigms. It also supports compilation to these same languages as intermediate representations. This means that libraries written in C, C++, Objective-C, and JavaScript can be used in the Nim is a general-purpose, multi-paradigm, statically typed, compiled, high-level system programming language. written in the other programming languages that it can compile to. It was designed and developed by a team led by Andreas Rumpf. Nim includes features such as compile-time code generation, algebraic data types, and a foreign function interface (FFI) for interfacing with C, C++, Objective-C, and JavaScript 3437649516

C was initially developed as a successor to the B programming language at Bell Labs by Ritchie between 1972 and 1973. Its initial purpose was to construct utilities running on Unix, and was later applied to re-implementing the kernel of the Unix operating system. During the 1980s, C gradually gained popularity, leading to it becoming 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... 3437649516 The principal designers 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 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... 3437649516 Notable programming sources use terms like C-style, C-like, a dialect of C, having C-like syntax. The term curly bracket programming language denotes a language that shares C's block syntax. 3437649516

C (programming language) It has been and continues to be used to implement operating systems (especially kernels), device drivers, and protocol stacks, though its use in application software is decreasing. By design, C gives programmers

relatively direct access to the features of typical CPU architectures, customized for the target instruction set. C is a general-purpose programming language created in 1972 by Dennis Ritchie. By design, C gives programmers relatively direct access to the features C is a general-purpose programming language created in 1972 by Dennis Ritchie. C is used on computers ranging from supercomputers to microcontrollers and embedded systems 3437649516

Objective-C programs developed for non-Apple operating systems or that are not dependent on Apple's APIs may also be compiled for any platform supported by GNU, GNU Compiler Collection (GCC) or LLVM/Clang. 3437649516 C-family languages have features like: 3437649516

List of programming languages by type attributes, the same language can appear in multiple groupings. As a language can have multiple attributes, the same language can appear in multiple groupings. Agent-oriented programming allows the developer to build, extend and use software agents The notable programming languages listed here are grouped by their notable language attribute 3437649516

Early programming languages were designed for scientific computing (numerical calculations) or commercial data processing, as was computer hardware. Scientific languages such as Fortran and Algol supported floating-point calculations and multidimensional arrays, while business languages such as COBOL supported fixed-field file formats and data records. Much less widely used were specialized languages such as IPL-V and LISP for symbolic list processing; COMIT for string manipulation; APT for numerically controlled machines. Systems programming requiring pointer manipulation was typically done in assembly language, though JOVIAL was used for some military applications. 3437649516 == Agent-oriented programming languages == 3437649516 Objective-C was created mainly by Brad Cox and Tom Love in the early 1980s at their... 3437649516

C++ 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). First released in 1985 as an extension C++ is a high-level, general-purpose programming language created by Danish computer scientist Bjarne Stroustrup. 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++ is a high-level, general-purpose programming language created by Danish computer scientist Bjarne Stroustrup 3437649516

Infix notation for arithmetical and logical expressions 3437649516 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... 3437649516 Apple intended Swift to support many core concepts associated with Objective-C, notably dynamic dispatch, widespread late binding, extensible programming, and similar features, but in a "safer" way, making it easier to catch software bugs; Swift has features addressing some common programming errors like null pointer dereferencing and provides syntactic sugar to help avoid the pyramid of doom. Swift supports the concept of protocol extensibility, an extensibility system that can be applied to types, structs and classes, which Apple promotes as a real change in programming paradigms they term "protocol-oriented programming" (similar to traits and type classes). 3437649516 Code block delimited by curly braces

{}), a.k.a. braces, a.k.a. curly brackets 3437649516 == History == 3437649516
 IBM's System/360, announced in 1964, was designed as a unified hardware architecture supporting both scientific and commercial applications, and IBM developed PL/I for it as a single... 3437649516

List of C-family programming languages Many of these 70 languages were influenced by C due to its The C-family programming languages share significant features of the C programming language. Many of these 70 languages were influenced by C due to its success and ubiquity. The C-family programming languages share significant features of the C programming language. The family also includes predecessors that influenced C's design such as BCPL 3437649516

OCaml OCaml (/oʊˈkæməɪ/ oh-KAM-əl, formerly Objective Caml) is a general-purpose, high-level, multi-paradigm programming language which extends the Caml dialect OCaml (oh-KAM-əl, formerly Objective Caml) is a general-purpose, high-level, multi-paradigm programming language which extends the Caml dialect of ML with object-oriented features. OCaml was created in 1996 by Xavier Leroy, Jérôme Vouillon, Damien Doligez, Didier Rémy, Ascánder Suárez, and others 3437649516

The acronym CAML originally stood for Categorical Abstract Machine Language, but OCaml omits this abstract machine. OCaml is a free and open-source software project managed and principally maintained by the French Institute for Research in Computer Science and Automation (Inria). In the early 2000s, elements from OCaml were adopted by many languages, notably F# and Scala. 3437649516 Objective-C source code "messaging/implementation" program files usually have .m filename extensions, while Objective-C "header/interface" files have .h extensions, the same as C header files. Objective-C++ files are denoted with a .mm filename extension. 3437649516

C Sharp (programming language) C# encompasses static typing, strong typing 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. C# (/ˌsiː ˈʃɑːrp/ see SHARP) is a general-purpose high-level programming language supporting multiple paradigms 3437649516

== History == 3437649516 Nim is statically typed. It supports compile-time metaprogramming features such as syntactic macros and term rewriting macros. Term rewriting macros enable library implementations of common data structures, such as bignums and matrices, to be implemented efficiently and with syntactic integration, as if they were built-in language facilities. Iterators are supported and can be used as first class entities, as can functions, allowing for the use of functional programming methods. Object-oriented programming is supported by inheritance and multiple dispatch. Functions can be... 3437649516 The OCaml toolchain includes an interactive top-level interpreter, a bytecode compiler, an optimizing native code compiler, a reversible debugger, and a package manager (OPAM) together with a composable build system for OCaml (Dune). OCaml was developed first in the context of automated theorem proving, and is used in static analysis and formal methods software. Beyond these areas, it has found use in systems programming, web development, and specific financial utilities, among other application domains. 3437649516

Objective-C Objective-C is a high-level general-purpose, object-oriented programming language that adds Smalltalk-style message passing (messaging) to the C programming Objective-C is a high-level general-purpose, object-oriented programming language that adds Smalltalk-style message passing (messaging) to the C programming language. Originally developed by Brad Cox and Tom Love in the early 1980s, it was selected by NeXT for its NeXTSTEP operating system. Due to

Apple macOS's direct lineage from NeXTSTEP, Objective-C was the standard language used, supported, and promoted by Apple for developing macOS and iOS applications (via their respective application programming interfaces (APIs), Cocoa and Cocoa Touch) from 1997, when Apple purchased NeXT, until the introduction of the Swift language in 2014 3437649516

Semicolon (;) statement terminator 3437649516

Swift (programming language) and maintained by the open-source community. Swift was first released in June 2014 and the Swift toolchain has shipped in Xcode since Xcode version 6, released in September 2014. associated with Objective-C, notably dynamic dispatch, widespread late binding, extensible programming, and similar features, but in a "safer" way, making Swift is a high-level general-purpose, multi-paradigm, compiled programming language created by Chris Lattner in 2010 for Apple Inc. Swift compiles to machine code and uses an LLVM-based compiler 3437649516

== Philosophy... == 3437649516

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