## C++ keywords

This is a list of reserved keywords in C++. Since they are used by the language, these keywords are not available for re-definition or overloading.

```
default(1)
alignas (since C++11)
                                                register(2)
                         delete(1)
alignof (since C++11)
                                               reinterpret cast
and
                         do
                                                requires (since C++20)
                         double
and eq
                                               return
                         dynamic_cast
asm
                                               short
atomic_cancel (TM TS)
                         else
                                               signed
atomic_commit (TM TS)
                         enum
                                               sizeof(1)
                         explicit
atomic_noexcept (TM TS)
                                               static
                         export(1)(3)
auto(1)
                                               static_assert (since C++11)
                         extern(1)
bitand
                                               static cast
                         false
bitor
                                               struct(1)
                         float
bool
                                               switch
                         for
break
                                               synchronized (TM TS)
                         friend
case
                                               template
                         goto
catch
                                               this
                         if
char
                                                thread_local (since C++11)
                         inline(1)
char8_t (since C++20)
                                               throw
                         int
char16_t (since C++11)
                                                true
                         long
char32 t (since C++11)
                                                try
                         mutable(1)
class(1)
                                                typedef
                         namespace
compl
                                               typeid
                         new
concept (since C++20)
                                               typename
                         noexcept (since C++11)
const
                                               union
                         not
consteval (since C++20)
                                               unsigned
constexpr (since C++11)
                                               using(1)
                         nullptr (since C++11)
constinit (since C++20)
                                               virtual
                         operator
const_cast
                                               void
                                               volatile
continue
                         or_eq
                                               wchar_t
co_await (since C++20)
                         private
                                               while
co_return (since C++20)
                         protected
                                               xor
co_yield (since C++20)
                         public
                                               xor_eq
decltype (since C++11)
                         reflexpr (reflection TS)
```

- (1) meaning changed or new meaning added in C++11.
- (2) meaning changed in C++17.
- (3) meaning changed in C++20.

Note that and, bitor, or, xor, compl, bitand, and\_eq, or\_eq, xor\_eq, not, and not\_eq (along with the digraphs <%, %>, <:, :>, %:, and %:%:) provide an alternative way to represent standard tokens.

In addition to keywords, there are *identifiers with special meaning*, which may be used as names of objects or functions, but have special meaning in certain contexts.

```
final (C++11)
override (C++11)
transaction_safe (TM TS)
transaction_safe_dynamic (TM TS)
```

Also, all identifiers that contain a double underscore \_ in any position and each identifier that begins with an underscore followed by an uppercase letter is always reserved and all identifiers that begin with an underscore are reserved for use as names in the global namespace. See identifiers for more details.

The namespace std is used to place names of the standard C++ library. See Extending namespace std for the rules about adding names to it.

The name posix is reserved for a future top-level namespace. The behavior is undefined if a program declares or defines anything in that namespace.

(since C++11)

The following tokens are recognized by the preprocessor when in context of a preprocessor directive:

else	ifdef ifndef define undef	error	definedhas_include (since C++17)has_cpp_attribute (since C++20)	export (C++20) import (C++20) module (C++20)
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The following tokens are recognized by the preprocessor *outside* the context of a preprocessor directive:

```
_Pragma(since C++11)
```

## See also

## C documentation for C keywords

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