



Search: Go

Reference <ios> showpos

Not logged in

register log in

C++

Information

Tutorials

Reference

Articles

Forum

Reference

C library:

Containers:

Input/Output:

<fstream>

<iomanip>

<ios>

<iosfwd>

<iostream>

<istream>

<ostream>

<sstream>

<streambuf>

Multi-threading:

Other:

<ios>

types:

basic_ios

fpos

ios

ios_base

io_errc

streamoff

streampos

streamsize

wios

wstreampos

manipulators:

boolalpha

dec

defaultfloat

fixed

hex

hexfloat

internal

left

noboolalpha

noshowbase

noshowpoint

noshowpos

noskipws

nounitbuf

nouppercase

oct

right

scientific

showbase

showpoint

showpos

skipws

unitbuf

uppercase

other functions:

istream_category

function

std::showpos

<ios> <iostream>

ios_base& showpos (ios_base& str);

Show positive signs

Sets the showpos format flag for the *str* stream.

When the showpos format flag is set, a plus sign (+) precedes every non-negative numerical value inserted into the stream (including zeros).

This flag can be unset with the [noshowpos](#) manipulator.

For standard streams, the showpos flag is **not set** on initialization.

Parameters

str

Stream object whose *format flag* is affected.
Because this function is a manipulator, it is designed to be used alone with no arguments in conjunction with the *insertion* (<<) and *extraction* (>>) operations on streams (see example below).

Return Value

Argument *str*.

Example

```
1 // modify showpos flag
2 #include <iostream>      // std::cout, std::showpos, std::noshowpos
3
4 int main () {
5     int p = 1;
6     int z = 0;
7     int n = -1;
8     std::cout << std::showpos << p << '\t' << z << '\t' << n << '\n';
9     std::cout << std::noshowpos << p << '\t' << z << '\t' << n << '\n';
10    return 0;
11 }
```

Possible output:

+1	+0	-1
1	0	-1

Data races

Modifies *str*. Concurrent access to the same stream object may cause data races.

Exception safety

Basic guarantee: if an exception is thrown, *str* is in a valid state.

See also

noshowpos	Do not show positive signs (function)
ios_base::flags	Get/set format flags (public member function)
ios_base::setf	Set specific format flags (public member function)
ios_base::unsetf	Clear specific format flags (public member function)

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