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<ios> <iostream> <iostream>

std::boolalpha

ios_base& boolalpha (ios_base& str);

Alphanumerical bool values

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

When the boolalpha format flag is set, bool values are inserted/extracted by their textual representation: either true or false, instead of integral values.

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

For standard streams, the boolalpha 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 boolalpha flag
2 #include <iostream>      // std::cout, std::boolalpha, std::noboolalpha
3
4 int main () {
5     bool b = true;
6     std::cout << std::boolalpha << b << '\n';
7     std::cout << std::noboolalpha << b << '\n';
8     return 0;
9 }
```

Output:

```
true
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

noboolalpha	No alphanumerical bool values (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)
setiosflags	Set format flags (function)

C++ Function

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