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function

std::uppercase

<ios> <iostream>

ios_base& uppercase (ios_base& str);

Generate upper-case letters

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

When the uppercase format flag is set, uppercase (capital) letters are used instead of lowercase for representations on output operations involving stream-generated letters, like some hexadecimal representations and numerical base prefixes.

This flag can be unset with the `nouppercase` manipulator, not forcing the use of uppercase for generated letters.

For standard streams, the uppercase 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 uppercase flag
2 #include <iostream>      // std::cout, std::showbase, std::hex
3                          // std::uppercase, std::nouppercase
4 int main () {
5     std::cout << std::showbase << std::hex;
6     std::cout << std::uppercase << 77 << '\n';
7     std::cout << std::nouppercase << 77 << '\n';
8     return 0;
9 }

```

Possible output:

```

0X4D
0x4d

```

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

nouppercase

Do not generate upper case letters (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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