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public member function

std::ios_base::width

<ios> <iostream>

```

get(1) streamsize width() const;
set(2) streamsize width (streamsize wide);

```

Get/set field width

The first form (1) returns the current value of the *field width*. The second form (2) also sets a new *field width* for the stream.

The *field width* determines the minimum number of characters to be written in some output representations. If the standard width of the representation is shorter than the field width, the representation is padded with *fill characters* at a point determined by the format flag *adjustfield* (one of *left*, *right* or *internal*).

The *fill character* can be retrieved or changed by calling the member function *fill*.

The format flag *adjustfield* can be modified by calling the member functions *flags* or *setf*, by inserting one of the following manipulators: *left*, *right* and *internal*, or by inserting the parameterized manipulator *setiosflags*.

The *field width* can also be modified using the parameterized manipulator *setw*.

Parameters

wide

New value for the stream's *field width*.
streamsize in signed integral type.

Return Value

The value of the *field width* before the call.

Example

```

1 // field width
2 #include <iostream>      // std::cout, std::left
3
4 int main () {
5     std::cout << 100 << '\n';
6     std::cout.width(10);
7     std::cout << 100 << '\n';
8     std::cout.fill('x');
9     std::cout.width(15);
10    std::cout << std::left << 100 << '\n';
11    return 0;
12 }

```

Output:

```

100
    100
100xxxxxxxxxxxx

```

Data races

Accesses (1) or modifies (2) the stream object.
Concurrent access to the same stream object may cause data races.

Exception safety

Basic guarantee: if an exception is thrown, the stream is in a valid state.

See also

setw	Set field width (function)
ios_base::flags	Get/set format flags (public member function)
ios_base::setf	Set specific format flags (public member function)
ios::fill	Get/set fill character (public member function)

ios_base::width

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