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&lt;ios&gt;

&lt;iosfwd&gt;

&lt;iostream&gt;

&lt;istream&gt;

&lt;ostream&gt;

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## &lt;sstream&gt;

class templates:

basic\_istringstream

basic\_ostringstream

basic\_stringbuf

basic\_stringstream

classes:

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## stringstream

stringstream::stringstream

public member functions:

stringstream::operator=

stringstream::rdbuf

stringstream::str

stringstream::swap

non-member overloads:

swap (stringstream)

PatchIT Updating Library

PatchIT offers fully automated  
updating libraries for coding

public member function

**std::stringstream::str**

&lt;sstream&gt;

```
string str() const;
void str (const string& s);
```

**Get/set content**

The first form (1) returns a [string](#) object with a copy of the current contents of the stream.

The second form (2) sets *s* as the contents of the stream, discarding any previous contents. The object preserves its *open mode*: if this includes `ios_base::ate`, the *writing position* is moved to the end of the new sequence.

Internally, the function calls the `str` member of its [internal string buffer](#) object.

**Parameters**

s

A [string](#) object, whose content is copied.

**Return Value**

For (1), a [string](#) object with a copy of the current contents in the *stream buffer*.

**Example**

```
1 // stringstream::str
2 #include <string>      // std::string
3 #include <iostream>    // std::cout
4 #include <sstream>     // std::stringstream, std::stringbuf
5
6 int main () {
7     std::stringstream ss;
8     ss.str ("Example string");
9     std::string s = ss.str();
10    std::cout << s << '\n';
11    return 0;
12 }
```

Example string

**Data races**

Accesses (1) or modifies (2) the [stringstream](#) object.  
Concurrent access to the same object may cause data races.

**Exception safety**

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

**See also**

[stringstream::stringstream](#) Construct object (public member function )

[stringbuf::str](#) Get/set the string content (public member function )

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