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class template

# std::basic string

<string>

template < class charT, class traits = char\_traits<charT>, // basic\_string::traits\_type class Alloc = allocator<charT> // basic\_string::allocator\_type

Generic string class

The basic\_string is the generalization of class string for any character type (see string for a description).

## **Template parameters**

charT

Character type.

The string is formed by a sequence of characters of this type.

This shall be a non-array POD type.

> class basic\_string;

Character traits class that defines essential properties of the characters used by basic\_string objects (see char traits).

traits::char type shall be the same as charT.

Aliased as member type basic\_string::traits\_type.

Type of the allocator object used to define the storage allocation model. By default, the allocator class template is used, which defines the simplest memory allocation model and is value-independent.

Aliased as member type basic\_string::allocator\_type.

Note: Because the first template parameter is not aliased as any member type, charT is used throughout this reference to refer to this type.

**Template instantiations** 

string	String class (class )
wstring	Wide string (class )
u16string	String of 16-bit characters (class )
u32string	String of 32-bit characters (class )

## **Member types**

C++98 C++11

member type	definition	notes
traits type	The second template parameter (traits)	defaults to:
crarcs_cype	The second template parameter (traits)	char_traits <chart></chart>
allocator_type	The third template parameter (Alloc)	defaults to: allocator <chart></chart>
value_type	traits_type::char_type	shall be the same as charT
reference	value_type&	
const_reference	const value_type&	
pointer	allocator_traits <allocator_type>::pointer</allocator_type>	for the default allocator: charT*
const pointer	allocator traits <allocator type="">::const pointer</allocator>	for the default allocator: const
consc_pointer	disoddor_cidics disoddor_cype,comsc_poincer	charT*
iterator	a random access iterator to charT	convertible to const_iterator
const_iterator	a random access iterator to const charT	
reverse_iterator	reverse_iterator <iterator></iterator>	
const_reverse_iterate	or reverse_iterator <const_iterator></const_iterator>	
difference_type	allocator_traits <allocator_type>::difference_type</allocator_type>	usually the same as ptrdiff_t
size type	allocator traits <allocator type="">::size type</allocator>	usually the same as size t

## **Member functions**

(constructor)	Construct basic_string object (public member function )
(destructor)	String destructor (public member function )
operator=	String assignment (public member function )

### Iterators:

begin	Return iterator to beginning (public member function )
end	Return iterator to end (public member function )
rbegin	Return reverse iterator to reverse beginning (public member function )
rend	Return reverse iterator to reverse end (public member function )
cbegin	Return const_iterator to beginning (public member function )
cend	Return const_iterator to end (public member function )

basic\_string::find\_first\_of basic\_string::find\_last\_not\_of basic\_string::find\_last\_of basic\_string::front basic\_string::get\_allocator basic\_string::insert basic\_string::length basic\_string::max\_size basic\_string::operator+= basic\_string::operator= basic\_string::operator[] basic\_string::pop\_back basic\_string::push\_back basic\_string::rbegin basic\_string::rend basic\_string::replace basic\_string::reserve basic\_string::resize basic\_string::rfind basic\_string::shrink\_to\_fit basic\_string::size basic\_string::substr hasic string::swan member constants: basic\_string::npos non-member overloads: getline (basic\_string) operator+ (basic\_string) operator << (basic\_string)

operator>> (basic\_string)
relational operators (basic\_string)

swap (basic\_string)

crbegin	Return const_reverse_iterator to reverse beginning (public member function )
crend	Return const_reverse_iterator to reverse end (public member function )

### Capacity:

Return size (public member function )
Return length of string (public member function )
Return maximum size (public member function )
Resize string (public member function )
Return size of allocated storage (public member function )
Request a change in capacity (public member function )
Clear string (public member function )
Test whether string is empty (public member function )
Shrink to fit (public member function )

#### Element access:

operator[]	Get character of string (public member function )
at	Get character of string (public member function )
back	Access last character (public member function )
front	Access first character (public member function )

### Modifiers:

Append to string (public member function )
Append to string (public member function )
Append character to string (public member function )
Assign content to string (public member function )
Insert into string (public member function )
Erase characters from string (public member function )
Replace portion of string (public member function )
Swap string values (public member function )
Delete last character (public member function )

## String operations:

c_str	Get C-string equivalent
data	Get string data (public member function )
get_allocator	Get allocator (public member function )
сору	Copy sequence of characters from string (public member function )
find	Find first occurrence in string (public member function )
rfind	Find last occurrence in string (public member function )
find_first_of	Find character in string (public member function )
find_last_of	Find character in string from the end (public member function )
find_first_not_of	Find non-matching character in string (public member function )
find_last_not_of	Find non-matching character in string from the end (public member function )
substr	Generate substring (public member function )
compare	Compare strings (public member function )

# Non-member function overloads

operator+	Concatenate strings (function template )
relational operators	Relational operators for basic_string (function template )
swap	Exchanges the values of two strings (function template )
operator>>	Extract string from stream (function template )
operator<<	Insert string into stream (function template )
getline	Get line from stream into string (function template )

# **Member constants**

**npos** Maximum value of size\_type (public static member constant )



中国还有很多孩子 吃不饱穿不暖》》

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