

**NAME**

`wcstok` – split wide-character string into tokens

**SYNOPSIS**

```
#include <wchar.h>
```

```
wchar_t *wcstok(wchar_t *wcs, const wchar_t *delim, wchar_t **ptr);
```

**DESCRIPTION**

The `wcstok()` function is the wide-character equivalent of the `strtok(3)` function, with an added argument to make it multithread-safe. It can be used to split a wide-character string `wcs` into tokens, where a token is defined as a substring not containing any wide-characters from `delim`.

The search starts at `wcs`, if `wcs` is not NULL, or at `*ptr`, if `wcs` is NULL. First, any delimiter wide-characters are skipped, that is, the pointer is advanced beyond any wide-characters which occur in `delim`. If the end of the wide-character string is now reached, `wcstok()` returns NULL, to indicate that no tokens were found, and stores an appropriate value in `*ptr`, so that subsequent calls to `wcstok()` will continue to return NULL. Otherwise, the `wcstok()` function recognizes the beginning of a token and returns a pointer to it, but before doing that, it zero-terminates the token by replacing the next wide-character which occurs in `delim` with a null wide character (L'\0'), and it updates `*ptr` so that subsequent calls will continue searching after the end of recognized token.

**RETURN VALUE**

The `wcstok()` function returns a pointer to the next token, or NULL if no further token was found.

**ATTRIBUTES**

For an explanation of the terms used in this section, see `attributes(7)`.

Interface	Attribute	Value
<code>wcstok()</code>	Thread safety	MT-Safe

**CONFORMING TO**

POSIX.1-2001, POSIX.1-2008, C99.

**NOTES**

The original `wcs` wide-character string is destructively modified during the operation.

**EXAMPLE**

The following code loops over the tokens contained in a wide-character string.

```
wchar_t *wcs = ...;
wchar_t *token;
wchar_t *state;
for (token = wcstok(wcs, " \t\n", &state);
    token != NULL;
    token = wcstok(NULL, " \t\n", &state)) {
    ...
}
```

**SEE ALSO**

`strtok(3)`, `wcschr(3)`

**COLOPHON**

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