:mod: `curses.ascii` --- Utilities for ASCII characters

 $System\ Message: ERROR/3\ (\texttt{D:\onboarding-resources} \ sample-onboarding-resources \ cpython-main\ (\texttt{Doc\library}\ (\texttt{cpython-main}\ (\texttt{Doc\library}\ (\texttt{cpython-main}\ (\texttt{Doc\library}\)\ curses.ascii.rst, \ line\ 1); \ \textit{backlink}$

Unknown interpreted text role "mod".

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\(cpython-main\) (Doc) (library) curses.ascii.rst, line 4)

Unknown directive type "module".

.. module:: curses.ascii :synopsis: Constants and set-membership functions for ASCII characters.

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\(cpython-main\) (Doc) (library) curses.ascii.rst, line 7)

Unknown directive type "moduleauthor".

.. moduleauthor:: Eric S. Raymond <esr@thyrsus.com>

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\(cpython-main) (Doc) (library) curses.ascii.rst, line 8)

Unknown directive type "sectionauthor".

.. sectionauthor:: Eric S. Raymond <esr@thyrsus.com>

The :mod:'curses.ascii' module supplies name constants for ASCII characters and functions to test membership in various ASCII character classes. The constants supplied are names for control characters as follows:

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\(cpython-main) (Doc) (library) curses.ascii.rst, line 12); backlink

Unknown interpreted text role 'mod'.

Name	Meaning
:const:`NUL`	
System Message: ERROR/3 (D:\onboarding- resources\sample- onboarding- resources\cpython- main\Doc\library\ (cpython-main) (Doc) (library) curses.ascii.rst, line 20); backlink Unknown interpreted text role "const".	

Name	Meaning
:const:`SOH`	
System Message: ERROR/3 (D:\onboarding- resources\sample- onboarding- resources\cpython- main\Doc\library\ (cpython-main) (Doc) (library) curses.ascii.rst, line 22); backlink Unknown interpreted text role "const".	Start of heading, console interrupt
:const:`STX`	
System Message: ERROR/3 (D:\onboarding- resources\sample- onboarding- resources\cpython- main\Doc\library\ (cpython-main) (Doc) (library) curses.ascii.rst, line 24); backlink Unknown interpreted text role "const".	Start of text
:const:`ETX`	
System Message: ERROR/3 (D:\onboarding- resources\sample- onboarding- resources\cpython- main\Doc\library\ (cpython-main) (Doc) (library) curses.ascii.rst, line 26); backlink Unknown interpreted text role "const".	End of text
:const:`EOT`	
System Message: ERROR/3 (D:\onboarding- resources\sample- onboarding- resources\cpython- main\Doc\library\ (cpython-main) (Doc) (library) curses.ascii.rst, line 28); backlink Unknown interpreted text role "const".	End of transmission

Name	Meaning
const: ENQ'	
System Message: ERROR/3 (D:\onboarding- resources\sample- onboarding- resources\cpython- main\Doc\library\ (cpython-main) (Doc) (library) curses.ascii.rst, line 30); backlink Unknown interpreted text role "const".	Enquiry, goes with :const:`ACK` flow control System Message: ERROR/3 (D:\onboarding- resources\sample-onboarding-resources\cpython- main\Doc\library\(cpython-main) (Doc) (library) curses.ascii.rst, line 30); backlink Unknown interpreted text role "const".
const: 'ACK'	
System Message: ERROR/3 (D:\onboarding- resources\sample- onboarding- resources\cpython- main\Doc\library\ (cpython-main) (Doc) (library) curses.ascii.rst, line 32); backlink Unknown interpreted text role "const".	Acknowledgement
const: BEL	
System Message: ERROR/3 (D:\onboarding- resources\sample- onboarding- resources\cpython- main\Doc\library\ (cpython-main) (Doc) (library) curses.ascii.rst, line 34); backlink Unknown interpreted text role "const".	Bell
const:`BS`	
System Message: ERROR/3 (D:\onboarding- resources\sample- onboarding- resources\cpython- main\Doc\library\ (cpython-main) (Doc) (library) curses.ascii.rst, line 36); backlink Unknown interpreted text role "const".	Backspace

Name	Meaning
System Message: ERROR/3 (D:\onboarding- resources\sample- onboarding- resources\cpython- main\Doc\library\ (cpython-main) (Doc) (library) curses.ascii.rst, line 38); backlink Unknown interpreted text role "const".	Tab
System Message: ERROR/3 (D:\onboarding- resources\sample- onboarding- resources\cpython- main\Doc\library\ (cpython-main) (Doc) (library) curses.ascii.rst, line 40); backlink Unknown interpreted text role "const".	Alias for :const:`TAB`: "Horizontal tab" System Message: ERROR/3 (D:\onboarding- resources\sample-onboarding-resources\cpython- main\Doc\library\(cpython-main) (Doc) (library) curses.ascii.rst, line 40); backlink Unknown interpreted text role "const".
System Message: ERROR/3 (D:\onboarding- resources\sample- onboarding- resources\cpython- main\Doc\library\ (cpython-main) (Doc) (library) curses.ascii.rst, line 42); backlink Unknown interpreted text role "const".	Line feed
System Message: ERROR/3 (D:\onboarding- resources\sample- onboarding- resources\cpython- main\Doc\library\ (cpython-main) (Doc) (library) curses.ascii.rst, line 44); backlink Unknown interpreted text role "const".	Alias for :const:`LF`: "New line" System Message: ERROR/3 (D:\onboarding- resources\sample-onboarding-resources\cpython- main\Doc\library\(cpython-main) (Doc) (library) curses.ascii.rst, line 44); backlink Unknown interpreted text role "const".

Name	Meaning
:const:`VT`	
System Message: ERROR/3 (D:\onboarding- resources\sample- onboarding- resources\cpython- main\Doc\library\ (cpython-main) (Doc) (library) curses.ascii.rst, line 46); backlink Unknown interpreted text role "const".	Vertical tab
:const:`FF`	
System Message: ERROR/3 (D:\onboarding- resources\sample- onboarding- resources\cpython- main\Doc\library\ (cpython-main) (Doc) (library) curses.ascii.rst, line 48); backlink Unknown interpreted text role "const".	Form feed
:const:`CR`	
System Message: ERROR/3 (D:\onboarding- resources\sample- onboarding- resources\cpython- main\Doc\library\ (cpython-main) (Doc) (library) curses.ascii.rst, line 50); backlink Unknown interpreted text role "const".	Carriage return
:const:`SO`	
System Message: ERROR/3 (D:\onboarding- resources\sample- onboarding- resources\cpython- main\Doc\library\ (cpython-main) (Doc) (library) curses.ascii.rst, line 52); backlink Unknown interpreted text role "const".	Shift-out, begin alternate character set

Name	Meaning
:const:`SI`	
System Message: ERROR/3 (D:\onboarding- resources\sample- onboarding- resources\cpython- main\Doc\library\ (cpython-main) (Doc) (library) curses.ascii.rst, line 54); backlink Unknown interpreted text role "const".	Shift-in, resume default character set
:const:`DLE`	
System Message: ERROR/3 (D:\onboarding- resources\sample- onboarding- resources\cpython- main\Doc\library\ (cpython-main) (Doc) (library) curses.ascii.rst, line 56); backlink Unknown interpreted text role "const".	Data-link escape
:const:`DC1`	
System Message: ERROR/3 (D:\onboarding- resources\sample- onboarding- resources\cpython- main\Doc\library\ (cpython-main) (Doc) (library) curses.ascii.rst, line 58); backlink Unknown interpreted text role "const".	XON, for flow control
:const:`DC2`	
System Message: ERROR/3 (D:\onboarding- resources\sample- onboarding- resources\cpython- main\Doc\library\ (cpython-main) (Doc) (library) curses.ascii.rst, line 60); backlink Unknown interpreted text role "const".	Device control 2, block-mode flow control

Name	Meaning
:const:`DC3`	
System Message: ERROR/3 (D:\onboarding- resources\sample- onboarding- resources\cpython- main\Doc\library\ (cpython-main) (Doc) (library) curses.ascii.rst, line 62); backlink Unknown interpreted text role "const".	XOFF, for flow control
:const:`DC4`	
System Message: ERROR/3 (D:\onboarding- resources\sample- onboarding- resources\cpython- main\Doc\library\ (cpython-main) (Doc) (library) curses.ascii.rst, line 64); backlink Unknown interpreted text role "const".	Device control 4
:const:`NAK`	
System Message: ERROR/3 (D:\onboarding- resources\sample- onboarding- resources\cpython- main\Doc\library\ (cpython-main) (Doc) (library) curses.ascii.rst, line 66); backlink Unknown interpreted text role "const".	Negative acknowledgement
:const:`SYN`	
System Message: ERROR/3 (D:\onboarding- resources\sample- onboarding- resources\cpython- main\Doc\library\ (cpython-main) (Doc) (library) curses.ascii.rst, line 68); backlink Unknown interpreted text role "const".	Synchronous idle

Name	Meaning
:const:`ETB`	
System Message: ERROR/3 (D:\onboarding- resources\sample- onboarding- resources\cpython- main\Doc\library\ (cpython-main) (Doc) (library) curses.ascii.rst, line 70); backlink Unknown interpreted text role "const".	End transmission block
:const:`CAN`	
System Message: ERROR/3 (D:\onboarding- resources\sample- onboarding- resources\cpython- main\Doc\library\ (cpython-main) (Doc) (library) curses.ascii.rst, line 72); backlink Unknown interpreted text role "const".	Cancel
:const:`EM`	
System Message: ERROR/3 (D:\onboarding- resources\sample- onboarding- resources\cpython- main\Doc\library\ (cpython-main) (Doc) (library) curses.ascii.rst, line 74); backlink Unknown interpreted text role "const".	End of medium
:const:`SUB`	
System Message: ERROR/3 (D:\onboarding- resources\sample- onboarding- resources\cpython- main\Doc\library\ (cpython-main) (Doc) (library) curses.ascii.rst, line 76); backlink Unknown interpreted text role "const".	Substitute

Name	Meaning
:const:`ESC`	
System Message: ERROR/3 (D:\onboarding- resources\sample- onboarding- resources\cpython- main\Doc\library\ (cpython-main) (Doc) (library) curses.ascii.rst, line 78); backlink Unknown interpreted text role "const".	Escape
:const:`FS`	
System Message: ERROR/3 (D:\onboarding- resources\sample- onboarding- resources\cpython- main\Doc\library\ (cpython-main) (Doc) (library) curses.ascii.rst, line 80); backlink Unknown interpreted text role "const".	File separator
:const:'GS'	
System Message: ERROR/3 (D:\onboarding- resources\sample- onboarding- resources\cpython- main\Doc\library\ (cpython-main) (Doc) (library) curses.ascii.rst, line 82); backlink Unknown interpreted text role "const".	Group separator
:const:`RS`	
System Message: ERROR/3 (D:\onboarding- resources\sample- onboarding- resources\cpython- main\Doc\library\ (cpython-main) (Doc) (library) curses.ascii.rst, line 84); backlink Unknown interpreted text role "const".	Record separator, block-mode terminator

Name	Meaning
:const:`US`	
System Message: ERROR/3 (D:\onboarding- resources\sample- onboarding- resources\cpython- main\Doc\library\ (cpython-main) (Doc) (library) curses.ascii.rst, line 86); backlink Unknown interpreted text role "const".	Unit separator
const:'SP'	
System Message: ERROR/3 (D:\onboarding- resources\sample- onboarding- resources\cpython- main\Doc\library\ (cpython-main) (Doc) (library) curses.ascii.rst, line 88); backlink Unknown interpreted text role "const".	Space
System Message: ERROR/3 (D:\onboarding- resources\sample- onboarding- resources\cpython- main\Doc\library\ (cpython-main) (Doc) (library) curses.ascii.rst, line 90); backlink Unknown interpreted text role "const".	Delete

Note that many of these have little practical significance in modern usage. The mnemonics derive from teleprinter conventions that predate digital computers.

The module supplies the following functions, patterned on those in the standard C library:

```
System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-
main\Doc\library\(cpython-main) (Doc) (library) curses.ascii.rst, line 99)
Unknown directive type "function".
.. function:: isalnum(c)
Checks for an ASCII alphanumeric character; it is equivalent to ``isalpha(c) or isdigit(c)``.
```

Unknown directive type "function".

```
.. function:: isalpha(c)
Checks for an ASCII alphabetic character; it is equivalent to ``isupper(c) or islower(c)``.
```

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\(cpython-main\) (Doc) (library) curses.ascii.rst, line 111)

Unknown directive type "function".

.. function:: isascii(c)
Checks for a character value that fits in the 7-bit ASCII set.

 $System\,Message: ERROR/3~(\texttt{D:}\conboarding-resources}\copython-main\coc\library\copython-main)~(Doc)~(library)~curses.ascii.rst, line~116)$

Unknown directive type "function".

.. function:: isblank(c)
Checks for an ASCII whitespace character; space or horizontal tab.

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\(cpython-main\) (Doc) (library) curses.ascii.rst, line 121)

Unknown directive type "function".

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\(cpython-main\) (Doc) (library) curses.ascii.rst, line 126)

Unknown directive type "function".

.. function:: isdigit(c)
 Checks for an ASCII decimal digit, ``'0'`` through ``'9'``. This is equivalent
 to ``c in string.digits``.

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\(cpython-main) (Doc) (library) curses.ascii.rst, line 132)

Unknown directive type "function".

.. function:: isgraph(c)
Checks for ASCII any printable character except space.

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\(cpython-main\) (Doc) (library) curses.ascii.rst, line 137)

Unknown directive type "function".

.. function:: islower(c)
Checks for an ASCII lower-case character.

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\(cpython-main\) (Doc) (library) curses.ascii.rst, line 142)

Unknown directive type "function".

.. function:: isprint(c)
Checks for any ASCII printable character including space.

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\(cpython-main\) (Doc) (library) curses.ascii.rst, line 147)

Unknown directive type "function".

.. function:: ispunct(c)

Checks for any printable ASCII character which is not a space or an alphanumeric character.

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\(cpython-main\) (Doc) (library) curses.ascii.rst, line 153)

Unknown directive type "function".

.. function:: isspace(c)

Checks for ASCII white-space characters; space, line feed, carriage return, form feed, horizontal tab, vertical tab.

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\(cpython-main\) (Doc) (library) curses.ascii.rst, line 159)

Unknown directive type "function".

.. function:: isupper(c)
Checks for an ASCII uppercase letter.

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\(cpython-main\) (Doc) (library) curses.ascii.rst, line 164)

Unknown directive type "function".

.. function:: isxdigit(c)
 Checks for an ASCII hexadecimal digit. This is equivalent to ``c in string.hexdigits``.

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\(cpython-main\) (Doc) (library) curses.ascii.rst, line 170)

Unknown directive type "function".

.. function:: isctrl(c)

Checks for an ASCII control character (ordinal values 0 to 31).

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\(cpython-main\) (Doc) (library) curses.ascii.rst, line 175)

Unknown directive type "function".

.. function:: ismeta(c)

```
Checks for a non-ASCII character (ordinal values 0x80 and above).
```

These functions accept either integers or single-character strings; when the argument is a string, it is first converted using the built-in function 'func' ord'.

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\(cpython-main\) (Doc) (library) curses.ascii.rst, line 179); backlink

Unknown interpreted text role "func".

Note that all these functions check ordinal bit values derived from the character of the string you pass in; they do not actually know anything about the host machine's character encoding.

The following two functions take either a single-character string or integer byte value; they return a value of the same type.

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\(cpython-main\) (Doc) (library) curses.ascii.rst, line 190)

Unknown directive type "function".

```
.. function:: ascii(c)  \hbox{Return the ASCII value corresponding to the low 7 bits of $^*c^*$.}
```

 $System\,Message: ERROR/3~(\texttt{D:}\conboarding-resources}\conboarding-resources\\conboardin$

Unknown directive type "function".

.. function:: ctrl(c)

Return the control character corresponding to the given character (the character bit value is bitwise-anded with 0x1f).

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\(cpython-main\) (Doc) (library) curses.ascii.rst, line 201)

Unknown directive type "function".

.. function:: alt(c)

Return the 8-bit character corresponding to the given ASCII character (the character bit value is bitwise-ored with 0x80).

The following function takes either a single-character string or integer value; it returns a string.

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\(cpython-main\) (Doc) (library) curses.ascii.rst, line 210)

Unknown directive type "index".

```
.. index::
    single: ^ (caret); in curses module
    single: ! (exclamation); in curses module
```

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\(cpython-main) (Doc) (library) curses.ascii.rst, line 214)

Unknown directive type "function".

.. function:: unctrl(c)

Return a string representation of the ASCII character *c*. If *c* is printable, this string is the character itself. If the character is a control character (0x00--0x1f) the string consists of a caret (``'^\'`) followed by the corresponding uppercase letter. If the character is an ASCII delete (0x7f) the

string is $``'^?!``$. If the character has its meta bit (0x80) set, the meta bit is stripped, the preceding rules applied, and ``'!!`` prepended to the result.

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\(cpython-main\) (Doc) (library) curses.ascii.rst, line 224)

Unknown directive type "data".

.. data:: controlnames

A 33-element string array that contains the ASCII mnemonics for the thirty-two ASCII control characters from 0 (NUL) to 0x1f (US), in order, plus the mnemonic ``SP`` for the space character.