
***Rocky Enterprise Linux 9.2 Manual Pages on command 'ascii.7'***

***$ man ascii.7***

ASCII(7) Linux Programmer's Manual ASCII(7)

NAME

ascii - ASCII character set encoded in octal, decimal, and hexadecimal

DESCRIPTION

ASCII is the American Standard Code for Information Interchange. It is a 7-bit code. Many 8-bit codes (e.g., ISO 8859-1) contain ASCII as their lower half. The international counterpart of ASCII is known as ISO 646-IRV.

The following table contains the 128 ASCII characters.

C program '\X' escapes are noted.

Oct Dec Hex Char Oct Dec Hex Char

????????????????????????????????????????????????????????????????????????????

000 0 00 NUL '\0' (null character) 100 64 40 @

001 1 01 SOH (start of heading) 101 65 41 A

002 2 02 STX (start of text) 102 66 42 B

003 3 03 ETX (end of text) 103 67 43 C

004 4 04 EOT (end of transmission) 104 68 44 D

005 5 05 ENQ (enquiry) 105 69 45 E

006 6 06 ACK (acknowledge) 106 70 46 F

007 7 07 BEL '\a' (bell) 107 71 47 G

010 8 08 BS '\b' (backspace) 110 72 48 H

011 9 09 HT '\t' (horizontal tab) 111 73 49 I

012 10 0A LF '\n' (new line) 112 74 4A J

013 11 0B VT '\v' (vertical tab) 113 75 4B K

014 12 0C FF '\f' (form feed) 114 76 4C L

015 13 0D CR '\r' (carriage ret) 115 77 4D M

016 14 0E SO (shift out) 116 78 4E N

017 15 0F SI (shift in) 117 79 4F O

020 16 10 DLE (data link escape) 120 80 50 P

021 17 11 DC1 (device control 1) 121 81 51 Q

022 18 12 DC2 (device control 2) 122 82 52 R

023 19 13 DC3 (device control 3) 123 83 53 S

024 20 14 DC4 (device control 4) 124 84 54 T

025 21 15 NAK (negative ack.) 125 85 55 U

026 22 16 SYN (synchronous idle) 126 86 56 V

027 23 17 ETB (end of trans. blk) 127 87 57 W

030 24 18 CAN (cancel) 130 88 58 X

031 25 19 EM (end of medium) 131 89 59 Y

032 26 1A SUB (substitute) 132 90 5A Z

033 27 1B ESC (escape) 133 91 5B [

034 28 1C FS (file separator) 134 92 5C \ '\\'

035 29 1D GS (group separator) 135 93 5D ]

036 30 1E RS (record separator) 136 94 5E ^

037 31 1F US (unit separator) 137 95 5F _

040 32 20 SPACE 140 96 60 `

041 33 21 ! 141 97 61 a

042 34 22 " 142 98 62 b

043 35 23 # 143 99 63 c

044 36 24 $ 144 100 64 d

045 37 25 % 145 101 65 e

046 38 26 & 146 102 66 f

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 047 | 39 | 27 | ' | 147 | 103 | 67 | g |
| 050 | 40 | 28 | ( | 150 | 104 | 68 | h |
| 051 | 41 | 29 | ) | 151 | 105 | 69 | i |
| 052 | 42 | 2A | * | 152 | 106 | 6A | j |
| 053 | 43 | 2B | + | 153 | 107 | 6B | k |
| 054 | 44 | 2C | , | 154 | 108 | 6C | l |
| 055 | 45 | 2D | - | 155 | 109 | 6D | m |
| 056 | 46 | 2E | . | 156 | 110 | 6E | n |
| 057 | 47 | 2F | / | 157 | 111 | 6F | o |
| 060 | 48 | 30 | 0 | 160 | 112 | 70 | p |
| 061 | 49 | 31 | 1 | 161 | 113 | 71 | q |
| 062 | 50 | 32 | 2 | 162 | 114 | 72 | r |
| 063 | 51 | 33 | 3 | 163 | 115 | 73 | s |
| 064 | 52 | 34 | 4 | 164 | 116 | 74 | t |
| 065 | 53 | 35 | 5 | 165 | 117 | 75 | u |
| 066 | 54 | 36 | 6 | 166 | 118 | 76 | v |
| 067 | 55 | 37 | 7 | 167 | 119 | 77 | w |
| 070 | 56 | 38 | 8 | 170 | 120 | 78 | x |
| 071 | 57 | 39 | 9 | 171 | 121 | 79 | y |
| 072 | 58 | 3A | : | 172 | 122 | 7A | z |
| 073 | 59 | 3B | ; | 173 | 123 | 7B | { |
| 074 | 60 | 3C | < | 174 | 124 | 7C | \| |
| 075 | 61 | 3D | = | 175 | 125 | 7D | } |
| 076 | 62 | 3E | > | 176 | 126 | 7E | ~ |
| 077 | 63 | 3F | ? | 177 | 127 | 7F | DEL |

Tables

For convenience, below are more compact tables in hex and decimal.

```
  2 3 4 5 6 7      30 40 50 60 70 80 90 100 110 120
 -------------     ---------------------------------
0:  0 @ P ` p    0:  ( 2 < F P Z d n x
1: ! 1 A Q a q   1:  ) 3 = G Q [ e o y
2: " 2 B R b r   2:  * 4 > H R \ f p z
3: # 3 C S c s   3: ! + 5 ? I S ] g q {
```

4: $ 4 D T d t 4: " , 6 @ J T ^ h r |

5: % 5 E U e u 5: # - 7 A K U _ i s }

6: & 6 F V f v 6: $ . 8 B L V ` j t ~

7: ' 7 G W g w 7: % / 9 C M W a k u DEL

8: ( 8 H X h x 8: & 0 : D N X b l v

9: ) 9 I Y i y 9: ' 1 ; E O Y c m w

A: * : J Z j z

B: + ; K [ k {

C: , < L \ l |

D: - = M ] m }

E: . > N ^ n ~

F: / ? O _ o DEL

## NOTES

### History

An ascii manual page appeared in Version 7 of AT&T UNIX.

On older terminals, the underscore code is displayed as a left arrow, called backarrow, the caret is displayed as an up-arrow and the verti? cal bar has a hole in the middle.

Uppercase and lowercase characters differ by just one bit and the ASCII character 2 differs from the double quote by just one bit, too. That made it much easier to encode characters mechanically or with a non-mi? crocontroller-based electronic keyboard and that pairing was found on old teletypes.

The ASCII standard was published by the United States of America Stan? dards Institute (USASI) in 1968.

## SEE ALSO

charsets(7), iso_8859-1(7), iso_8859-2(7), iso_8859-3(7), iso_8859-4(7), iso_8859-5(7), iso_8859-6(7), iso_8859-7(7), iso_8859-8(7), iso_8859-9(7), iso_8859-10(7), iso_8859-11(7), iso_8859-13(7), iso_8859-14(7), iso_8859-15(7), iso_8859-16(7), utf-8(7)

## COLOPHON

This page is part of release 5.10 of the Linux man-pages project. A

description of the project, information about reporting bugs, and the latest version of this page, can be found at https://www.kernel.org/doc/man-pages/.

Linux 2020-06-09 ASCII(7)