

**NAME**

**ascii** - octal, hexadecimal, decimal and binary ASCII character sets

**DESCRIPTION**

The **octal** set:

```

000 NUL 001 SOH 002 STX 003 ETX 004 EOT 005 ENQ 006 ACK 007 BEL
010 BS 011 HT 012 LF 013 VT 014 FF 015 CR 016 SO 017 SI
020 DLE 021 DC1 022 DC2 023 DC3 024 DC4 025 NAK 026 SYN 027 ETB
030 CAN 031 EM 032 SUB 033 ESC 034 FS 035 GS 036 RS 037 US
040 SP 041 ! 042 " 043 # 044 $ 045 % 046 & 047 '
050 ( 051 ) 052 * 053 + 054 , 055 - 056 . 057 /
060 0 061 1 062 2 063 3 064 4 065 5 066 6 067 7
070 8 071 9 072 : 073 ; 074 < 075 = 076 > 077 ?
100 @ 101 A 102 B 103 C 104 D 105 E 106 F 107 G
110 H 111 I 112 J 113 K 114 L 115 M 116 N 117 O
120 P 121 Q 122 R 123 S 124 T 125 U 126 V 127 W
130 X 131 Y 132 Z 133 [ 134 \ 135 ] 136 ^ 137 _
140 ` 141 a 142 b 143 c 144 d 145 e 146 f 147 g
150 h 151 i 152 j 153 k 154 l 155 m 156 n 157 o
160 p 161 q 162 r 163 s 164 t 165 u 166 v 167 w
170 x 171 y 172 z 173 { 174 | 175 } 176 ~ 177 DEL

```

The **hexadecimal** set:

```

00 NUL 01 SOH 02 STX 03 ETX 04 EOT 05 ENQ 06 ACK 07 BEL
08 BS 09 HT 0a LF 0b VT 0c FF 0d CR 0e SO 0f SI
10 DLE 11 DC1 12 DC2 13 DC3 14 DC4 15 NAK 16 SYN 17 ETB
18 CAN 19 EM 1a SUB 1b ESC 1c FS 1d GS 1e RS 1f US
20 SP 21 ! 22 " 23 # 24 $ 25 % 26 & 27 '
28 ( 29 ) 2a * 2b + 2c , 2d - 2e . 2f /
30 0 31 1 32 2 33 3 34 4 35 5 36 6 37 7
38 8 39 9 3a : 3b ; 3c < 3d = 3e > 3f ?
40 @ 41 A 42 B 43 C 44 D 45 E 46 F 47 G
48 H 49 I 4a J 4b K 4c L 4d M 4e N 4f O
50 P 51 Q 52 R 53 S 54 T 55 U 56 V 57 W
58 X 59 Y 5a Z 5b [ 5c \ 5d ] 5e ^ 5f _
60 ` 61 a 62 b 63 c 64 d 65 e 66 f 67 g
68 h 69 i 6a j 6b k 6c l 6d m 6e n 6f o
70 p 71 q 72 r 73 s 74 t 75 u 76 v 77 w

```

78 x 79 y 7a z 7b { 7c | 7d } 7e ~ 7f DEL

The **decimal** set:

0 NUL 1 SOH 2 STX 3 ETX 4 EOT 5 ENQ 6 ACK 7 BEL  
 8 BS 9 HT 10 LF 11 VT 12 FF 13 CR 14 SO 15 SI  
 16 DLE 17 DC1 18 DC2 19 DC3 20 DC4 21 NAK 22 SYN 23 ETB  
 24 CAN 25 EM 26 SUB 27 ESC 28 FS 29 GS 30 RS 31 US  
 32 SP 33 ! 34 " 35 # 36 \$ 37 % 38 & 39 '  
 40 ( 41 ) 42 \* 43 + 44 , 45 - 46 . 47 /  
 48 0 49 1 50 2 51 3 52 4 53 5 54 6 55 7  
 56 8 57 9 58 : 59 ; 60 < 61 = 62 > 63 ?  
 64 @ 65 A 66 B 67 C 68 D 69 E 70 F 71 G  
 72 H 73 I 74 J 75 K 76 L 77 M 78 N 79 O  
 80 P 81 Q 82 R 83 S 84 T 85 U 86 V 87 W  
 88 X 89 Y 90 Z 91 [ 92 \ 93 ] 94 ^ 95 \_  
 96 ` 97 a 98 b 99 c 100 d 101 e 102 f 103 g  
 104 h 105 i 106 j 107 k 108 l 109 m 110 n 111 o  
 112 p 113 q 114 r 115 s 116 t 117 u 118 v 119 w  
 120 x 121 y 122 z 123 { 124 | 125 } 126 ~ 127 DEL

The **binary** set:

00 01 10 11

NUL	SP	@	'	00000
SOH	!	A	a	00001
STX	"	B	b	00010
ETX	#	C	c	00011
EOT	\$	D	d	00100
ENQ	%	E	e	00101
ACK	&	F	f	00110
BEL	'	G	g	00111
BS	(	H	h	01000
HT	)	I	i	01001
LF	*	J	j	01010
VT	+	K	k	01011
FF	,	L	l	01100
CR	-	M	m	01101
SO	.	N	n	01110

SI	/	O	o	01111
DLE	0	P	p	10000
DC1	1	Q	q	10001
DC2	2	R	r	10010
DC3	3	S	s	10011
DC4	4	T	t	10100
NAK	5	U	u	10101
SYN	6	V	v	10110
ETB	7	W	w	10111
CAN	8	X	x	11000
EM	9	Y	y	11001
SUB	:	Z	z	11010
ESC	;	[	{	11011
FS	<	\		11100
GS	=	]	}	11101
RS	>	^	-	11110
US	?	_	DEL	11111

The full **names** of the control character set:

NUL	NUL
SOH	Start Of Heading
STX	Start Of Text
ETX	End Of Text
EOT	End Of Transmission
ENQ	ENQuiry
ACK	ACKnowledge
BEL	BEL
BS	BackSpace
HT	Horizontal Tab
LF	Line Feed (new line)
VT	Vertical Tab
FF	new page Form Feed
CR	Carriage Return
SO	Shift Out
SI	Shift In
DLE	Data Link Escape
DC1	Device Control 1
DC2	Device Control 2
DC3	Device Control 3

DC4 Device Control 4  
NAK Negative AcKnowledge  
SYN SYNchronous idle  
ETB End of Transmission Block  
CAN CANcel  
EM End of Medium  
SUB SUBstitute  
ESC ESCape  
FS File Separator  
GS Group Separator  
RS Record Separator  
US Unit Separator

## FILES

*/usr/share/misc/ascii*

## STANDARDS

*Information Systems - Coded Character Sets - 7-Bit American National Standard Code for Information Interchange (7-Bit ASCII)*, INCITS 4-1986[R2017], InterNational Committee for Information Technology Standards.

## HISTORY

An **ascii** manual page appeared in Version 2 AT&T UNIX.