

American Standard Code for Information Interchange

0 00 NUL cntrl ^@ \0	1 01 SOH cntrl ^A	2 02 STX cntrl ^B	3 03 ETX cntrl ^C	4 04 EOT cntrl ^D	5 05 ENQ cntrl ^E	6 06 ACK cntrl ^F	7 07 BEL 🔔 cntrl ^G \a	8 08 BS ← cntrl ^H \b	9 SP 09 HT ↵ cntrl ^I \t	10 SP 0A LF cntrl ^J \n	11 SP 0B VT cntrl ^K \v	12 SP 0C FF cntrl ^L \f	13 SP 0D CR ↵ cntrl ^M \r
14 0E SO cntrl ^N	15 0F SI cntrl ^O	16 10 DLE cntrl ^P	17 XON 11 DC1 cntrl ^Q	18 12 DC2 cntrl ^R	19 XOFF 13 DC3 cntrl ^S	20 14 DC4 cntrl ^T	21 15 NAK cntrl ^U	22 16 SYN cntrl ^V	23 17 ETB cntrl ^W	24 18 CAN cntrl ^X	25 19 EM cntrl ^Y	26 1A SUB cntrl ^Z	27 1B ESC cntrl ^[\e
28 1C FS cntrl ^\	29 1D GS cntrl ^]	30 1E RS cntrl ^^	31 1F US cntrl ^_	32 SP 20 (SPACE) print	33 21 ! graph print punct	34 22 " graph print punct	35 23 # graph print punct	36 24 \$ graph print punct	37 25 % graph print punct	38 26 & graph print punct	39 27 ' graph print punct	40 28 (graph print punct	41 29) graph print punct
42 2A * graph print punct	43 2B + graph print punct	44 2C , graph print punct	45 2D - graph print punct	46 2E . graph print punct	47 2F / graph print punct	48 30 0 graph print digit	49 31 1 graph print digit	50 32 2 graph print digit	51 33 3 graph print digit	52 34 4 graph print digit	53 35 5 graph print digit	54 36 6 graph print digit	55 37 7 graph print digit
56 38 8 graph print digit	57 39 9 graph print digit	58 3A : graph print punct	59 3B ; graph print punct	60 3C < graph print punct	61 3D = graph print punct	62 3E > graph print punct	63 3F ? graph print punct	64 40 @ graph print punct	65 U 41 A graph print alpha	66 U 42 B graph print alpha	67 U 43 C graph print alpha	68 U 44 D graph print alpha	69 U 45 E graph print alpha
70 U 46 F graph print alpha	71 U 47 G graph print alpha	72 U 48 H graph print alpha	73 U 49 I graph print alpha	74 U 4A J graph print alpha	75 U 4B K graph print alpha	76 U 4C L graph print alpha	77 U 4D M graph print alpha	78 U 4E N graph print alpha	79 U 4F O graph print alpha	80 U 50 P graph print alpha	81 U 51 Q graph print alpha	82 U 52 R graph print alpha	83 U 53 S graph print alpha
84 U 54 T graph print alpha	85 U 55 U graph print alpha	86 U 56 V graph print alpha	87 U 57 W graph print alpha	88 U 58 X graph print alpha	89 U 59 Y graph print alpha	90 U 5A Z graph print alpha	91 5B [graph print punct	92 5C \ graph print punct	93 5D] graph print punct	94 5E ^ graph print punct	95 5F _ graph print punct	96 60 , graph print punct	97 L 61 a graph print alpha
98 L 62 b graph print alpha	99 L 63 c graph print alpha	100 L 64 d graph print alpha	101 L 65 e graph print alpha	102 L 66 f graph print alpha	103 L 67 g graph print alpha	104 L 68 h graph print alpha	105 L 69 i graph print alpha	106 L 6A j graph print alpha	107 L 6B k graph print alpha	108 L 6C l graph print alpha	109 L 6D m graph print alpha	110 L 6E n graph print alpha	111 L 6F o graph print alpha
112 L 70 p graph print alpha	113 L 71 q graph print alpha	114 L 72 r graph print alpha	115 L 73 s graph print alpha	116 L 74 t graph print alpha	117 L 75 u graph print alpha	118 L 76 v graph print alpha	119 L 77 w graph print alpha	120 L 78 x graph print alpha	121 L 79 y graph print alpha	122 L 7A z graph print alpha	123 7B { graph print punct	124 7C graph print punct	125 7D } graph print punct
126 7E ~ graph print punct	127 7F DEL cntrl ^?	NUL→Null character SOH→Start of Header STX→Start of Text ETX→End of Text EOT→End of Transmission ENQ→Enquiry ACK→Acknowledgment BEL→Bell BS→Backspace HT→Horizontal Tab LF→Line feed VT→Vertical Tab FF→Form feed CR→Carriage return SO→Shift Out SI→Shift In DLE→Data Link Escape DC1→Device Control 1 (oft. XON) DC2→Device Control 2 DC3→Device Control 3 (oft. XOFF) DC4→Device Control 4 NAK→Negative Acknowledgment 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 DEL→Delete											

Escape code [C]

Caret notation

isalpha (alpha)

A → Z
a → z

isdigit (digit)

0 → 9

isalnum (alpha/digit)

A → Z
a → z

0 → 9

iscntrl (cntrl)

0x00 → 0x1F
0x7F

isupper (U)

A → Z

isspace (SP)

0x09 → 0x0D
0x20

islower (L)

a → z

ispunct (punct)

! → /
: → @

[→ `

{ → ~

isgraph (graph)

! → ~

isprint (print)

! → ~

0x20

isxdigit

0 → 9

A → F

a → f