

ASCII control code chart

| Binary | Oct | Dec | Hex | Abbr | [a] | [b] | [c] | Name |
|----------|-----|-----|-----|------|-----------|--------------|--------------|--|
| 000 0000 | 000 | 0 | 00 | NUL | N_{UL} | <u>^@</u> | <u>\0</u> | <u>Null character</u> |
| 000 0001 | 001 | 1 | 01 | SOH | S_{OH} | <u>^A</u> | | <u>Start of Header</u> |
| 000 0010 | 002 | 2 | 02 | STX | S_{TX} | <u>^B</u> | | <u>Start of Text</u> |
| 000 0011 | 003 | 3 | 03 | ETX | E_{TX} | <u>^C</u> | | <u>End of Text</u> |
| 000 0100 | 004 | 4 | 04 | EOT | E_{OT} | <u>^D</u> | | <u>End of Transmission</u> |
| 000 0101 | 005 | 5 | 05 | ENQ | E_{NQ} | <u>^E</u> | | <u>Enquiry</u> |
| 000 0110 | 006 | 6 | 06 | ACK | A_{CK} | <u>^F</u> | | <u>Acknowledgment</u> |
| 000 0111 | 007 | 7 | 07 | BEL | B_{EL} | <u>^G</u> | <u>\a</u> | <u>Bell</u> |
| 000 1000 | 010 | 8 | 08 | BS | B_S | <u>^H</u> | <u>\b</u> | <u>Backspace[d][e]</u> |
| 000 1001 | 011 | 9 | 09 | HT | H_T | <u>^I</u> | <u>\t</u> | <u>Horizontal Tab[f]</u> |
| 000 1010 | 012 | 10 | 0A | LF | L_F | <u>^J</u> | <u>\n</u> | <u>Line feed</u> |
| 000 1011 | 013 | 11 | 0B | VT | V_T | <u>^K</u> | <u>\v</u> | <u>Vertical Tab</u> |
| 000 1100 | 014 | 12 | 0C | FF | F_F | <u>^L</u> | <u>\f</u> | <u>Form feed</u> |
| 000 1101 | 015 | 13 | 0D | CR | C_R | <u>^M</u> | <u>\r</u> | <u>Carriage return[g]</u> |
| 000 1110 | 016 | 14 | 0E | SO | S_S | <u>^N</u> | | <u>Shift Out</u> |
| 000 1111 | 017 | 15 | 0F | SI | S_I | <u>^O</u> | | <u>Shift In</u> |
| 001 0000 | 020 | 16 | 10 | DLE | D_{LE} | <u>^P</u> | | <u>Data Link Escape</u> |
| 001 0001 | 021 | 17 | 11 | DC1 | D_{C_1} | <u>^Q</u> | | <u>Device Control 1</u> (oft. <u>XON</u>) |
| 001 0010 | 022 | 18 | 12 | DC2 | D_{C_2} | <u>^R</u> | | Device Control 2 |
| 001 0011 | 023 | 19 | 13 | DC3 | D_{C_3} | <u>^S</u> | | Device Control 3 (oft. <u>XOFF</u>) |
| 001 0100 | 024 | 20 | 14 | DC4 | D_{C_4} | <u>^T</u> | | Device Control 4 |
| 001 0101 | 025 | 21 | 15 | NAK | N_{AK} | <u>^U</u> | | <u>Negative Acknowledgement</u> |
| 001 0110 | 026 | 22 | 16 | SYN | S_{YN} | <u>^V</u> | | <u>Synchronous idle</u> |
| 001 0111 | 027 | 23 | 17 | ETB | E_{TB} | <u>^W</u> | | <u>End of Transmission Block</u> |
| 001 1000 | 030 | 24 | 18 | CAN | C_{AN} | <u>^X</u> | | <u>Cancel</u> |
| 001 1001 | 031 | 25 | 19 | EM | E_M | <u>^Y</u> | | <u>End of Medium</u> |
| 001 1010 | 032 | 26 | 1A | SUB | S_{UB} | <u>^Z</u> | | <u>Substitute</u> |
| 001 1011 | 033 | 27 | 1B | ESC | E_{SC} | <u>^[</u> | <u>\e[h]</u> | <u>Escape[i]</u> |
| 001 1100 | 034 | 28 | 1C | FS | F_S | <u>^\</u> | | <u>File Separator</u> |
| 001 1101 | 035 | 29 | 1D | GS | G_S | <u>^]</u> | | <u>Group Separator</u> |
| 001 1110 | 036 | 30 | 1E | RS | R_S | <u>^^[j]</u> | | <u>Record Separator</u> |
| 001 1111 | 037 | 31 | 1F | US | U_S | <u>^_</u> | | <u>Unit Separator</u> |
| 111 1111 | 177 | 127 | 7F | DEL | D_{EL} | <u>^?</u> | | <u>Delete[k][e]</u> |

| Binary | Oct | Dec | Hex | Glyph | Binary | Oct | Dec | Hex | Glyph | Binary | Oct | Dec | Hex | Glyph |
|----------|-----|-----|-----|-------|----------|-----|-----|-----|-------|----------|-----|-----|-----|-------|
| 010 0000 | 040 | 32 | 20 | | 100 0000 | 100 | 64 | 40 | @ | 110 0000 | 140 | 96 | 60 | ` |
| 010 0001 | 041 | 33 | 21 | ! | 100 0001 | 101 | 65 | 41 | A | 110 0001 | 141 | 97 | 61 | a |
| 010 0010 | 042 | 34 | 22 | " | 100 0010 | 102 | 66 | 42 | B | 110 0010 | 142 | 98 | 62 | b |
| 010 0011 | 043 | 35 | 23 | # | 100 0011 | 103 | 67 | 43 | C | 110 0011 | 143 | 99 | 63 | c |
| 010 0100 | 044 | 36 | 24 | \$ | 100 0100 | 104 | 68 | 44 | D | 110 0100 | 144 | 100 | 64 | d |
| 010 0101 | 045 | 37 | 25 | % | 100 0101 | 105 | 69 | 45 | E | 110 0101 | 145 | 101 | 65 | e |
| 010 0110 | 046 | 38 | 26 | & | 100 0110 | 106 | 70 | 46 | F | 110 0110 | 146 | 102 | 66 | f |
| 010 0111 | 047 | 39 | 27 | ' | 100 0111 | 107 | 71 | 47 | G | 110 0111 | 147 | 103 | 67 | g |
| 010 1000 | 050 | 40 | 28 | (| 100 1000 | 110 | 72 | 48 | H | 110 1000 | 150 | 104 | 68 | h |
| 010 1001 | 051 | 41 | 29 |) | 100 1001 | 111 | 73 | 49 | I | 110 1001 | 151 | 105 | 69 | i |
| 010 1010 | 052 | 42 | 2A | * | 100 1010 | 112 | 74 | 4A | J | 110 1010 | 152 | 106 | 6A | j |
| 010 1011 | 053 | 43 | 2B | ± | 100 1011 | 113 | 75 | 4B | K | 110 1011 | 153 | 107 | 6B | k |
| 010 1100 | 054 | 44 | 2C | · | 100 1100 | 114 | 76 | 4C | L | 110 1100 | 154 | 108 | 6C | l |
| 010 1101 | 055 | 45 | 2D | = | 100 1101 | 115 | 77 | 4D | M | 110 1101 | 155 | 109 | 6D | m |
| 010 1110 | 056 | 46 | 2E | ~ | 100 1110 | 116 | 78 | 4E | N | 110 1110 | 156 | 110 | 6E | n |
| 010 1111 | 057 | 47 | 2F | / | 100 1111 | 117 | 79 | 4F | O | 110 1111 | 157 | 111 | 6F | o |
| 011 0000 | 060 | 48 | 30 | 0 | 101 0000 | 120 | 80 | 50 | P | 111 0000 | 160 | 112 | 70 | p |
| 011 0001 | 061 | 49 | 31 | 1 | 101 0001 | 121 | 81 | 51 | Q | 111 0001 | 161 | 113 | 71 | q |
| 011 0010 | 062 | 50 | 32 | 2 | 101 0010 | 122 | 82 | 52 | R | 111 0010 | 162 | 114 | 72 | r |
| 011 0011 | 063 | 51 | 33 | 3 | 101 0011 | 123 | 83 | 53 | S | 111 0011 | 163 | 115 | 73 | s |
| 011 0100 | 064 | 52 | 34 | 4 | 101 0100 | 124 | 84 | 54 | T | 111 0100 | 164 | 116 | 74 | t |
| 011 0101 | 065 | 53 | 35 | 5 | 101 0101 | 125 | 85 | 55 | U | 111 0101 | 165 | 117 | 75 | u |
| 011 0110 | 066 | 54 | 36 | 6 | 101 0110 | 126 | 86 | 56 | V | 111 0110 | 166 | 118 | 76 | v |
| 011 0111 | 067 | 55 | 37 | 7 | 101 0111 | 127 | 87 | 57 | W | 111 0111 | 167 | 119 | 77 | w |
| 011 1000 | 070 | 56 | 38 | 8 | 101 1000 | 130 | 88 | 58 | X | 111 1000 | 170 | 120 | 78 | x |
| 011 1001 | 071 | 57 | 39 | 9 | 101 1001 | 131 | 89 | 59 | Y | 111 1001 | 171 | 121 | 79 | y |
| 011 1010 | 072 | 58 | 3A | : | 101 1010 | 132 | 90 | 5A | Z | 111 1010 | 172 | 122 | 7A | z |
| 011 1011 | 073 | 59 | 3B | ; | 101 1011 | 133 | 91 | 5B | [| 111 1011 | 173 | 123 | 7B | { |
| 011 1100 | 074 | 60 | 3C | ≤ | 101 1100 | 134 | 92 | 5C | \ | 111 1100 | 174 | 124 | 7C | ↓ |
| 011 1101 | 075 | 61 | 3D | ≡ | 101 1101 | 135 | 93 | 5D |] | 111 1101 | 175 | 125 | 7D | } |
| 011 1110 | 076 | 62 | 3E | ≥ | 101 1110 | 136 | 94 | 5E | ^ | 111 1110 | 176 | 126 | 7E | ≈ |
| 011 1111 | 077 | 63 | 3F | ? | 101 1111 | 137 | 95 | 5F | = | | | | | |