

Extended ASCII Reference Table

<http://east82.com>

| Decimal | Octal | Hex | Binary | Value | Remarks |
|---------|-------|-----|----------|--------------|---------------------------|
| 000 | 000 | 000 | 00000000 | NUL | Null character |
| 001 | 001 | 001 | 00000001 | SOH | Start of Header |
| 002 | 002 | 002 | 00000010 | STX | Start of Text |
| 003 | 003 | 003 | 00000011 | ETX | End of Text |
| 004 | 004 | 004 | 00000100 | EOT | End of Transmission |
| 005 | 005 | 005 | 00000101 | ENQ | Enquiry |
| 006 | 006 | 006 | 00000110 | ACK | Acknowledgment |
| 007 | 007 | 007 | 00000111 | BEL | Bell |
| 008 | 010 | 008 | 00001000 | BS | Backspace |
| 009 | 011 | 009 | 00001001 | HT | Horizontal Tab |
| 010 | 012 | 00A | 00001010 | LF | Line Feed |
| 011 | 013 | 00B | 00001011 | VT | Vertical Tab |
| 012 | 014 | 00C | 00001100 | FF | Form Feed |
| 013 | 015 | 00D | 00001101 | CR | Carriage Return |
| 014 | 016 | 00E | 00001110 | SO | Shift Out |
| 015 | 017 | 00F | 00001111 | SI | Shift In |
| 016 | 020 | 010 | 00010000 | DLE | Data Link Escape |
| 017 | 021 | 011 | 00010001 | DC1 | XON Device Control 1 |
| 018 | 022 | 012 | 00010010 | DC2 | Device Control 2 |
| 019 | 023 | 013 | 00010011 | DC3 | XOFF Device Control 3 |
| 020 | 024 | 014 | 00010100 | DC4 | Device Control 4 |
| 021 | 025 | 015 | 00010101 | NAK | Neg. Acknowledgment |
| 022 | 026 | 016 | 00010110 | SYN | Synchronous Idle |
| 023 | 027 | 017 | 00010111 | ETB | End of Transmission Block |
| 024 | 030 | 018 | 00011000 | CAN | Cancel |
| 025 | 031 | 019 | 00011001 | EM | End of Medium |
| 026 | 032 | 01A | 00011010 | SUB | Substitute |
| 027 | 033 | 01B | 00011011 | ESC | Escape |
| 028 | 034 | 01C | 00011100 | FS | File Separator |
| 029 | 035 | 01D | 00011101 | GS | Group Separator |
| 030 | 036 | 01E | 00011110 | RS | Record Separator |
| 031 | 037 | 01F | 00011111 | US | Unit Separator |
| 032 | 040 | 020 | 00100000 | SP | Space |
| 033 | 041 | 021 | 00100001 | ! | Exclamation mark |
| 034 | 042 | 022 | 00100010 | " | Double quote |
| 035 | 043 | 023 | 00100011 | # | Number sign |
| 036 | 044 | 024 | 00100100 | \$ | Dollar sign |
| 037 | 045 | 025 | 00100101 | % | Percent |
| 038 | 046 | 026 | 00100110 | & | Ampersand |
| 039 | 047 | 027 | 00100111 | ' | Single quote |
| 040 | 050 | 028 | 00101000 | (| Left/open parentheses |
| 041 | 051 | 029 | 00101001 |) | Right/close parentheses |
| 042 | 052 | 02A | 00101010 | * | Asterisk |
| 043 | 053 | 02B | 00101011 | + | Plus |
| 044 | 054 | 02C | 00101100 | , | Comma |
| 045 | 055 | 02D | 00101101 | - | Minus or dash |
| 046 | 056 | 02E | 00101110 | . | Dot |
| 047 | 057 | 02F | 00101111 | / | Forward slash |
| 048 | 060 | 030 | 00110000 | 0 | |
| 049 | 061 | 031 | 00110001 | 1 | |
| 050 | 062 | 032 | 00110010 | 2 | |
| 051 | 063 | 033 | 00110011 | 3 | |

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|---------|-------|-----|----------|-------------|-------------------------|
| 052 | 064 | 034 | 00110100 | 4 | |
| 053 | 065 | 035 | 00110101 | 5 | |
| 054 | 066 | 036 | 00110110 | 6 | |
| 055 | 067 | 037 | 00110111 | 7 | |
| 056 | 070 | 038 | 00111000 | 8 | |
| 057 | 071 | 039 | 00111001 | 9 | |
| 058 | 072 | 03A | 00111010 | : | Colon |
| 059 | 073 | 03B | 00111011 | ; | Semi-colon |
| 060 | 074 | 03C | 00111100 | < | Less than |
| 061 | 075 | 03D | 00111101 | = | Equal sign |
| 062 | 076 | 03E | 00111110 | > | Greater than |
| 063 | 077 | 03F | 00111111 | ? | Question mark |
| 064 | 100 | 040 | 01000000 | @ | AT symbol |
| 065 | 101 | 041 | 01000001 | A | |
| 066 | 102 | 042 | 01000010 | B | |
| 067 | 103 | 043 | 01000011 | C | |
| 068 | 104 | 044 | 01000100 | D | |
| 069 | 105 | 045 | 01000101 | E | |
| 070 | 106 | 046 | 01000110 | F | |
| 071 | 107 | 047 | 01000111 | G | |
| 072 | 110 | 048 | 01001000 | H | |
| 073 | 111 | 049 | 01001001 | I | |
| 074 | 112 | 04A | 01001010 | J | |
| 075 | 113 | 04B | 01001011 | K | |
| 076 | 114 | 04C | 01001100 | L | |
| 077 | 115 | 04D | 01001101 | M | |
| 078 | 116 | 04E | 01001110 | N | |
| 079 | 117 | 04F | 01001111 | O | |
| 080 | 120 | 050 | 01010000 | P | |
| 081 | 121 | 051 | 01010001 | Q | |
| 082 | 122 | 052 | 01010010 | R | |
| 083 | 123 | 053 | 01010011 | S | |
| 084 | 124 | 054 | 01010100 | T | |
| 085 | 125 | 055 | 01010101 | U | |
| 086 | 126 | 056 | 01010110 | V | |
| 087 | 127 | 057 | 01010111 | W | |
| 088 | 130 | 058 | 01011000 | X | |
| 089 | 131 | 059 | 01011001 | Y | |
| 090 | 132 | 05A | 01011010 | Z | |
| 091 | 133 | 05B | 01011011 | [| Left / opening bracket |
| 092 | 134 | 05C | 01011100 | \ | Back slash |
| 093 | 135 | 05D | 01011101 |] | Right / closing bracket |
| 094 | 136 | 05E | 01011110 | ^ | Caret / circumflex |
| 095 | 137 | 05F | 01011111 | _ | Underscore |
| 096 | 140 | 060 | 01100000 | ` | Back tick |
| 097 | 141 | 061 | 01100001 | a | |
| 098 | 142 | 062 | 01100010 | b | |
| 099 | 143 | 063 | 01100011 | c | |
| 100 | 144 | 064 | 01100100 | d | |
| 101 | 145 | 065 | 01100101 | e | |
| 102 | 146 | 066 | 01100110 | f | |
| 103 | 147 | 067 | 01100111 | g | |

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|---------|-------|-----|----------|-------|--|
| 104 | 150 | 068 | 01101000 | h | |
| 105 | 151 | 069 | 01101001 | i | |
| 106 | 152 | 06A | 01101010 | j | |
| 107 | 153 | 06B | 01101011 | k | |
| 108 | 154 | 06C | 01101100 | l | |
| 109 | 155 | 06D | 01101101 | m | |
| 110 | 156 | 06E | 01101110 | n | |
| 111 | 157 | 06F | 01101111 | o | |
| 112 | 160 | 070 | 01110000 | p | |
| 113 | 161 | 071 | 01110001 | q | |
| 114 | 162 | 072 | 01110010 | r | |
| 115 | 163 | 073 | 01110011 | s | |
| 116 | 164 | 074 | 01110100 | t | |
| 117 | 165 | 075 | 01110101 | u | |
| 118 | 166 | 076 | 01110110 | v | |
| 119 | 167 | 077 | 01110111 | w | |
| 120 | 170 | 078 | 01111000 | x | |
| 121 | 171 | 079 | 01111001 | Y | |
| 122 | 172 | 07A | 01111010 | Z | |
| 123 | 173 | 07B | 01111011 | { | Left / opening curly brace |
| 124 | 174 | 07C | 01111100 | | Vertical bar |
| 125 | 175 | 07D | 01111101 | } | Right / closing curly brace |
| 126 | 176 | 07E | 01111110 | ~ | Tilde |
| 127 | 177 | 07F | 01111111 | DEL | Delete |
| 128 | 200 | 080 | 10000000 | Ç | Latin capital letter c with cedilla |
| 129 | 201 | 081 | 10000001 | ü | Latin small letter u with dieresis |
| 130 | 202 | 082 | 10000010 | é | Latin small letter e with acute |
| 131 | 203 | 083 | 10000011 | â | Latin small letter a with circumflex |
| 132 | 204 | 084 | 10000100 | ä | Latin small letter a with dieresis |
| 133 | 205 | 085 | 10000101 | à | Latin small letter a with grave |
| 134 | 206 | 086 | 10000110 | å | Latin small letter a with ring above |
| 135 | 207 | 087 | 10000111 | ç | Latin small letter c with cedilla |
| 136 | 210 | 088 | 10001000 | ê | Latin small letter e with circumflex |
| 137 | 211 | 089 | 10001001 | ë | Latin small letter e with dieresis |
| 138 | 212 | 08A | 10001010 | è | Latin small letter e with grave |
| 139 | 213 | 08B | 10001011 | ï | Latin small letter i with dieresis |
| 140 | 214 | 08C | 10001100 | î | Latin small letter i with circumflex |
| 141 | 215 | 08D | 10001101 | ì | Latin small letter i with grave |
| 142 | 216 | 08E | 10001110 | Ä | Latin capital letter a with dieresis |
| 143 | 217 | 08F | 10001111 | Å | Latin capital letter a with ring above |
| 144 | 220 | 090 | 10010000 | É | Latin capital letter e with acute |
| 145 | 221 | 091 | 10010001 | æ | Latin small ligature ae |
| 146 | 222 | 092 | 10010010 | Æ | Latin capital ligature ae |
| 147 | 223 | 093 | 10010011 | ô | Latin small letter o with circumflex |
| 148 | 224 | 094 | 10010100 | ö | Latin small letter o with dieresis |
| 149 | 225 | 095 | 10010101 | ò | Latin small letter o with grave |
| 150 | 226 | 096 | 10010110 | û | Latin small letter u with circumflex |
| 151 | 227 | 097 | 10010111 | ù | Latin small letter u with grave |
| 152 | 230 | 098 | 10011000 | ÿ | Latin small letter y with dieresis |
| 153 | 231 | 099 | 10011001 | Ö | Latin capital letter o with dieresis |
| 154 | 232 | 09A | 10011010 | Ü | Latin capital letter u with dieresis |
| 155 | 233 | 09B | 10011011 | ¢ | Cent sign |

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|---------|-------|-----|----------|-----------------------------|---|
| 156 | 234 | 09C | 10011100 | £ | Pound sign |
| 157 | 235 | 09D | 10011101 | ¥ | Yen sign |
| 158 | 236 | 09E | 10011110 | Pts | Peseta sign |
| 159 | 237 | 09F | 10011111 | f | Latin small letter f with hook |
| 160 | 240 | 0A0 | 10100000 | á | Latin small letter a with acute |
| 161 | 241 | 0A1 | 10100001 | í | Latin small letter i with acute |
| 162 | 242 | 0A2 | 10100010 | ó | Latin small letter o with acute |
| 163 | 243 | 0A3 | 10100011 | ú | Latin small letter u with acute |
| 164 | 244 | 0A4 | 10100100 | ñ | Latin small letter n with tilde |
| 165 | 245 | 0A5 | 10100101 | Ñ | Latin capital letter n with tilde |
| 166 | 246 | 0A6 | 10100110 | ª | Feminine ordinal indicator |
| 167 | 247 | 0A7 | 10100111 | º | Masculine ordinal indicator |
| 168 | 250 | 0A8 | 10101000 | ¿ | Inverted question mark |
| 169 | 251 | 0A9 | 10101001 | ¬ | Reversed not sign |
| 170 | 252 | 0AA | 10101010 | ¬ | Not sign |
| 171 | 253 | 0AB | 10101011 | ½ | Vulgar fraction one half |
| 172 | 254 | 0AC | 10101100 | ¼ | Vulgar fraction one quarter |
| 173 | 255 | 0AD | 10101101 | ¡ | Inverted exclamation mark |
| 174 | 256 | 0AE | 10101110 | « | Left-pointing double angle quotation mark |
| 175 | 257 | 0AF | 10101111 | » | Right-pointing double angle quotation mark |
| 176 | 260 | 0B0 | 10110000 | ░ | Light shade |
| 177 | 261 | 0B1 | 10110001 | ▒ | Medium shade |
| 178 | 262 | 0B2 | 10110010 | ▓ | Dark shade |
| 179 | 263 | 0B3 | 10110011 | ┆ | Box drawings light vertical |
| 180 | 264 | 0B4 | 10110100 | ┆┆ | Box drawings light vertical and left |
| 181 | 265 | 0B5 | 10110101 | ┆┆┆ | Box drawings vertical single and left double |
| 182 | 266 | 0B6 | 10110110 | ┆┆┆┆ | Box drawings vertical double and left single |
| 183 | 267 | 0B7 | 10110111 | ┆┆┆┆┆ | Box drawings down double and left single |
| 184 | 270 | 0B8 | 10111000 | ┆┆┆┆ | Box drawings down single and left double |
| 185 | 271 | 0B9 | 10111001 | ┆┆┆┆┆ | Box drawings double vertical and left |
| 186 | 272 | 0BA | 10111010 | ┆┆┆┆┆┆ | Box drawings double vertical |
| 187 | 273 | 0BB | 10111011 | ┆┆┆┆┆┆┆ | Box drawings double down and left |
| 188 | 274 | 0BC | 10111100 | ┆┆┆┆┆┆┆┆ | Box drawings double up and left |
| 189 | 275 | 0BD | 10111101 | ┆┆┆┆┆┆┆┆┆ | Box drawings up double and left single |
| 190 | 276 | 0BE | 10111110 | ┆┆┆┆┆┆┆┆┆┆ | Box drawings up single and left double |
| 191 | 277 | 0BF | 10111111 | ┆┆┆┆┆┆┆┆┆┆┆ | Box drawings light down and left |
| 192 | 300 | 0C0 | 11000000 | ┆┆┆┆┆┆┆┆┆┆┆┆ | Box drawings light up and right |
| 193 | 301 | 0C1 | 11000001 | ┆┆┆┆┆┆┆┆┆┆┆┆┆ | Box drawings light up and horizontal |
| 194 | 302 | 0C2 | 11000010 | ┆┆┆┆┆┆┆┆┆┆┆┆┆┆ | Box drawings light down and horizontal |
| 195 | 303 | 0C3 | 11000011 | ┆┆┆┆┆┆┆┆┆┆┆┆┆┆┆ | Box drawings light vertical and right |
| 196 | 304 | 0C4 | 11000100 | ┆┆┆┆┆┆┆┆┆┆┆┆┆┆┆┆ | Box drawings light horizontal |
| 197 | 305 | 0C5 | 11000101 | ┆┆┆┆┆┆┆┆┆┆┆┆┆┆┆┆┆ | Box drawings light vertical and horizontal |
| 198 | 306 | 0C6 | 11000110 | ┆┆┆┆┆┆┆┆┆┆┆┆┆┆┆┆┆┆ | Box drawings vertical single and right double |
| 199 | 307 | 0C7 | 11000111 | ┆┆┆┆┆┆┆┆┆┆┆┆┆┆┆┆┆┆┆ | Box drawings vertical double and right single |
| 200 | 310 | 0C8 | 11001000 | ┆┆┆┆┆┆┆┆┆┆┆┆┆┆┆┆┆┆┆┆ | Box drawings double up and right |
| 201 | 311 | 0C9 | 11001001 | ┆┆┆┆┆┆┆┆┆┆┆┆┆┆┆┆┆┆┆┆┆ | Box drawings double down and right |
| 202 | 312 | 0CA | 11001010 | ┆┆┆┆┆┆┆┆┆┆┆┆┆┆┆┆┆┆┆┆┆┆ | Box drawings double up and horizontal |
| 203 | 313 | 0CB | 11001011 | ┆┆┆┆┆┆┆┆┆┆┆┆┆┆┆┆┆┆┆┆┆┆┆ | Box drawings double down and horizontal |
| 204 | 314 | 0CC | 11001100 | ┆┆┆┆┆┆┆┆┆┆┆┆┆┆┆┆┆┆┆┆┆┆┆┆ | Box drawings double vertical and right |
| 205 | 315 | 0CD | 11001101 | ┆┆┆┆┆┆┆┆┆┆┆┆┆┆┆┆┆┆┆┆┆┆┆┆┆ | Box drawings double horizontal |
| 206 | 316 | 0CE | 11001110 | ┆┆┆┆┆┆┆┆┆┆┆┆┆┆┆┆┆┆┆┆┆┆┆┆┆┆ | Box drawings double vertical and horizontal |
| 207 | 317 | 0CF | 11001111 | ┆┆┆┆┆┆┆┆┆┆┆┆┆┆┆┆┆┆┆┆┆┆┆┆┆┆┆ | Box drawings up single and horizontal double |

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| Decimal | Octal | Hex | Binary | Value | Remarks |
|---------|-------|-----|----------|-------|--|
| 208 | 320 | 0D0 | 11010000 | ⏏ | Box drawings up double and horizontal single |
| 209 | 321 | 0D1 | 11010001 | ⏑ | Box drawings down single and horizontal double |
| 210 | 322 | 0D2 | 11010010 | ⏒ | Box drawings down double and horizontal single |
| 211 | 323 | 0D3 | 11010011 | ⏓ | Box drawings up double and right single |
| 212 | 324 | 0D4 | 11010100 | ⏔ | Box drawings up single and right double |
| 213 | 325 | 0D5 | 11010101 | ⏕ | Box drawings down single and right double |
| 214 | 326 | 0D6 | 11010110 | ⏖ | Box drawings down double and right single 2 |
| 215 | 327 | 0D7 | 11010111 | ⏗ | Box drawings vertical double and horizontal single |
| 216 | 330 | 0D8 | 11011000 | ⏘ | Box drawings vertical single and horizontal double |
| 217 | 331 | 0D9 | 11011001 | ⏙ | Box drawings light up and left |
| 218 | 332 | 0DA | 11011010 | ⏚ | Box drawings light down and right |
| 219 | 333 | 0DB | 11011011 | ■ | Full block |
| 220 | 334 | 0DC | 11011100 | ▀ | Lower half block |
| 221 | 335 | 0DD | 11011101 | ▁ | Left half block |
| 222 | 336 | 0DE | 11011110 | ▂ | Right half block |
| 223 | 337 | 0DF | 11011111 | ▃ | Upper half block |
| 224 | 340 | 0E0 | 11100000 | α | Greek small letter alpha |
| 225 | 341 | 0E1 | 11100001 | ß | Latin small letter sharp s |
| 226 | 342 | 0E2 | 11100010 | Γ | Greek capital letter gamma |
| 227 | 343 | 0E3 | 11100011 | π | Greek small letter pi |
| 228 | 344 | 0E4 | 11100100 | Σ | Greek capital letter sigma |
| 229 | 345 | 0E5 | 11100101 | σ | Greek small letter sigma |
| 230 | 346 | 0E6 | 11100110 | μ | Micro sign |
| 231 | 347 | 0E7 | 11100111 | τ | Greek small letter tau |
| 232 | 350 | 0E8 | 11101000 | Φ | Greek capital letter phi |
| 233 | 351 | 0E9 | 11101001 | Θ | Greek capital letter theta |
| 234 | 352 | 0EA | 11101010 | Ω | Greek capital letter omega |
| 235 | 353 | 0EB | 11101011 | δ | Greek small letter delta |
| 236 | 354 | 0EC | 11101100 | ∞ | Infinity |
| 237 | 355 | 0ED | 11101101 | φ | Greek small letter phi |
| 238 | 356 | 0EE | 11101110 | ε | Greek small letter epsilon |
| 239 | 357 | 0EF | 11101111 | ∩ | Intersection |
| 240 | 360 | 0F0 | 11110000 | ≡ | Identical to |
| 241 | 361 | 0F1 | 11110001 | ± | Plus-minus sign |
| 242 | 362 | 0F2 | 11110010 | ≥ | Greater-than or equal to |
| 243 | 363 | 0F3 | 11110011 | ≤ | Less-than or equal to |
| 244 | 364 | 0F4 | 11110100 | ∫ | Top half integral |
| 245 | 365 | 0F5 | 11110101 | ∫ | Bottom half integral |
| 246 | 366 | 0F6 | 11110110 | ÷ | Division sign |
| 247 | 367 | 0F7 | 11110111 | ≈ | Almost equal to |
| 248 | 370 | 0F8 | 11111000 | ° | Degree sign |
| 249 | 371 | 0F9 | 11111001 | • | Bullet operator |
| 250 | 372 | 0FA | 11111010 | • | Middle dot |
| 251 | 373 | 0FB | 11111011 | √ | Square root |
| 252 | 374 | 0FC | 11111100 | ⁿ | Superscript Latin small letter n |
| 253 | 375 | 0FD | 11111101 | ² | Superscript two |
| 254 | 376 | 0FE | 11111110 | ■ | Black square |
| 255 | 377 | 0FF | 11111111 | | Non-breaking space (NBSP) |